A special note to the reader…
This has been a busy year at FSU. Though we have made every effort to assure that this document is accurate at the time of printing, there are sometimes changes throughout the year. For the very latest information on majors and requirements, check the online Program Guide, http://www.academic-guide.fsu.edu/.

Please let me know if you have any questions or if I may be of assistance.

Judy K. Nunez.
Editor, Academic Program Guide
850.644.2451; jnunez@fsu.edu
Major Programs

Accounting.................................................................1
Actuarial Science..........................................................4
Advertising (Communication)...........................................42
African American Studies................................................6
Animation and Digital Arts (Motion Picture Arts)..............178
Anthropology...............................................................8
Applied Mathematics.....................................................165
Art, Studio (BA and BFA)................................................10
Art History.....................................................................13
Asian Studies..................................................................15
Athletic Training ...........................................................17
Audiology and Speech Pathology
(Communication Science & Disorders)..........................49
Biochemistry ...................................................................20
Biological Science.........................................................23
Biology / FSU-Teach........................................................26
Biomathematics..............................................................165
Business Administration (Panama City)..............................29
Chemical Science...........................................................31
Chemical Science / FSU-Teach..........................................34
Chemistry (including Environmental)...............................37
Chinese...........................................................................176
Chinese and Japanese....................................................176
Classics; Classical Archaeology, Civilization, Classics & Religion, Greek, Latin, Latin & Greek.................................40
Communication
Advertising and Public Relations ....................................42
Media/Communication Studies.........................................45
Media Production..........................................................47
Communication, Professional (Panama City)......................224
Communication Science and Disorders................................49
Computational Biology....................................................52
Computational Science.....................................................55
Computer Criminology....................................................57
Computer Science, BA.....................................................59
Computer Science, BS......................................................62
Creative Writing; CW with Business (English).....................95
Criminology/Criminal Justice...........................................65
Dance ...........................................................................67
Dietetics ........................................................................69
Early Childhood Education...............................................72
Editing, Writing & Media; EWM with Business...................95
Economics and Applied Economics.....................................74
Elementary Education ....................................................77
Engineering, Chemical and Biomedical............................80
Engineering, Civil and Environmental..............................83
Engineering, Electrical and Computer...............................86
Engineering, Industrial.....................................................89
Engineering, Mechanical..................................................92
English (all options)........................................................95
English Studies..............................................................95
English Education..........................................................98
Entrepreneurship..........................................................101
Environmental Chemistry...............................................37
Environmental Science, BS.............................................104
Environmental Science & Policy, BA................................107
Environmental Studies....................................................110
Exceptional Student Education (Special Education).............257
Exercise Science..........................................................113
Family and Child Sciences.................................................116
Finance.........................................................................118
Food & Nutrition Science...............................................121
French..........................................................................176
FSU-Teach, Applied Geosciences.......................................129
FSU-Teach, Biology..........................................................26
FSU-Teach, Chemical Science.........................................34
FSU-Teach, Mathematics................................................168
FSU-Teach, Physical Science............................................213
Geography ......................................................................124
Geology..........................................................................126
Geosciences, Applied / FSU-Teach......................................129
German.........................................................................176
Greek...........................................................................40
History ............................................................................132
Hospitality Management..................................................134
Hospitality Management: Professional Golf Management....137
Humanities.....................................................................139
Information, Communication & Technology......................141
Information Technology..................................................143
Interior Design................................................................145
International Affairs.......................................................147
Italian...........................................................................176
Japanese...........................................................................176
Latin ................................................................................40
Latin American and Caribbean Studies..............................149
Literature; Lit. with Business (English).................................95
Management, General.....................................................151
Management, Human Resource Management......................153
Management Information Systems.....................................156
Marketing.......................................................................159
Marketing: Professional Sales...........................................162
Mathematics (Mathematics, Applied Mathematics, Biomathematics).................................................................165
Mathematics / FSU-Teach ...............................................168
Media/Communication Studies..........................................45
Media Production..........................................................47
Meteorology...................................................................171
Middle Eastern Studies....................................................174
Modern Languages (Chinese, French, German, Italian, Japanese, Russian, Spanish; Language Co-Majors, Language with Business).........................176
Motion Picture Arts: Animation and Digital Arts...............178
Motion Picture Arts: Production.........................................180
Music, B. A. Program.......................................................182
Music Composition..........................................................184
Music Education.............................................................187
Music Performance..........................................................190
Music Theatre (Music).........................................................193
Music Theatre (Visual Arts, Theatre and Dance)....................270
Music Theory.................................................................196
Music Therapy ...............................................................199
Nursing..........................................................................202
Nursing, Accelerated BSN..................................................205
Philosophy......................................................................208
Physical Science............................................................210
Physical Science / FSU-Teach.............................................213
Minors ................................................................. 275

Other Programs ......................................................... 283
Health Professions Advising
PreMed Curriculum/Advising
Teacher Education

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Available in alternative format upon request.

This Program Guide does not constitute either an express or implied contract between the University and the Student. 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. University admission does not guarantee the availability of any course at a specific time; neither does University admission to any program or department guarantee receipt of a degree or certification therein. This print version is updated once a year in the summer. The online version at http://www.academic-guide.fsu.edu/ may contain more recent updates.
ACCOUNTING
College: Business
Degree: B. S.
Limited Access: YES
Contact: College of Business Undergraduate Programs Office and Advising Center
Address: 328 Rovetta Business Building, FSU
PO Box 306110
Tallahassee, FL 32306-1110
Phone: (850) 644-3892
E-Mail: ugprog@cob.fsu.edu
Fax: (850) 644-7332

Description of Major
There are many specialties within the accounting field. Graduates can go into challenging positions with a bachelor’s degree; however, many responsibilities require a CPA certificate. Students planning to be a CPA in Florida are required to complete a five-year educational program and should plan to complete the Master of Accounting program. An understanding of accounting theory and practice is desirable for top management officials in any organization.

In the first two years at FSU, students should take courses to complete the following four requirements: Liberal Studies (general education) requirements, Gordon Rule Writing requirement, Multicultural Course requirements, and Prerequisite Coursework requirements. Some courses may fulfill requirements in multiple areas. Electives in the first two years should focus on gaining additional exposure to the social and behavioral sciences, and on improving communication and analytical reasoning skills.

Prerequisite Coursework: 21 hours
The following courses must be completed with a C- or better:
ACG X021 (3) Introduction to Financial Accounting
ACG X071 (3) Introduction to Managerial Accounting
* CGS X518 (3) Spreadsheets for Business or CGS X100 (3) Microcomputer Apps. for Business
ECO X013 (3) Principles of Macroeconomics
ECO X023 (3) Principles of Microeconomics
MAC X233 (3) Calculus for Business & Non-Physical Sciences
STA X023 (3) Business Statistics
* Students taking CGS X100 or other approved course will also need to take CGS 2518 at FSU.
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for Progression to the Upper-Division Major
Admission to the limited access business programs requires the following: 1) completion of at least 52 semester hours; 2) a cumulative grade point average on all college work attempted of at least 2.90; and 3) satisfactory completion of all required prerequisite coursework.

Mapping
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Major Program of Studies at FSU: 54-57 hours depending on if CGS is taken as a prerequisite or not.
Community college courses may not be substituted for 3000/4000 level courses. All courses must be completed with a grade of C- or better
Non-Business Required Course (0-3 hours)
CGS 2518 (3) Spreadsheets for Business
Lower-Division Requirement (3 hours)
This course is a Term 4 milestone. Transfer students must complete it in their first term of enrollment at FSU.
RMI 2302 (3) Risk in Business and Society
General Business Core Requirements for Accounting majors (12 hours):
FIN 3403 (3) Financial Management of the Firm
GEB 3213 (3) Business Communications
MAN 3240 (3) Organizational Behavior
MAR 3023 (3) Basic Marketing Concepts

**General Business Breadth Requirements for Accounting Majors** (9 hours):

Both of the following
FIN 3244 (3) Financial Markets, Institutions, and International Finance Systems
QMB 3200 (3) Quantitative Methods for Business Decisions

Plus one (1) elective from the following list of courses:
ISM 3003 (3) Foundations of Management Information Systems
MAN 3600 (3) Multinational Business Operations
MAN 4720 (3) Strategic Management and Business Policy
MAR 3400 (3) Professional Selling
REE 3043 (3) Real Estate
RMI 3011 (3) Risk Management/Insurance

**Major Area Requirements for Accounting Majors** (30 hours):
Accounting majors must complete the ten (10) courses listed below. In addition, accounting majors must complete a total of ninety (90) 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 and ACG 2071 with a grade of B or better in each course (B- is not acceptable). Students must also receive a score of 75% or higher on FSU’s ACG 2021 final examination or complete the Accounting Competency Examination with a score of 75% or higher before they can enroll in upper-level accounting courses. Students have a maximum of two attempts to pass the competency examination. Further, students must earn a C or better (C-is not acceptable) in ACG 3101 to enroll in ACG 3111 and all 4000 level ACG and TAX courses. A grade of C- or better must be earned in all required upper-level accounting courses and BUL 3330. Any student receiving two grades below C- in the same required ACG or TAX course will not be permitted to enroll in that course again.

ACG 3101 (3) Financial Accounting and Reporting I
ACG 3111 (3) Financial Accounting and Reporting II
ACG 3341 (3) Cost Accounting
ACG 4201 (3) Financial Accounting and Reporting III
ACG 4401 (3) Accounting Information Systems
ACG 4632 (3) Auditing Theory and Application I
TAX 4001 (3) Federal Tax Accounting I
TAX 4011 (3) Federal Tax Accounting II
BUL 3330 (3) Law for Accountancy
BUL 3350 (3) UCC Business Law Problems

**Computer Skills Competency:** 0 beyond prerequisites. CGS 2100 (3) or CGS 2518 (3).

**Oral Communication Competency:** 0 beyond other requirements
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. Business majors take GEB 3213.

**Minimum Program Requirements - Summary**
Total Hrs. Required 120
Liberal Studies 36*
Prerequisite Coursework 21*
Major Coursework 54-57
Minor Coursework 0
Computer Skills 0 beyond prerequisites
Oral Competency 0 beyond other requirements
Electives to bring total hours to 120 (to include at least 60 hours outside of business)

*Some Prerequisite courses may also be counted as part of Liberal Studies.

**Remarks:**
1. Must complete at least 60 hours outside of business.
2. A minimum of 45 hours at the 3000 level or above, at least 30 of which must be taken at this University.
3. At least half of the major course semester hours must be completed in residence at this University. After enrolling at this University, all remaining major course requirements must be completed at this University.
4. The final 30 hours must be completed in residence at this University.

**Employment Information**

Representative Job Titles Related to this Major: Accountant, Bank Officer, Auditor, Certified Public Accountant (requires 5 year program and certificate), Financial Planner, Controller, Internal Revenue Agent, Business Consultant.

Representative Employers: CPA Firms, Banks, Investment Firms, Major Corporations, Small Businesses, Management Consulting Firms, Federal Bureau of Investigation, Internal Revenue Service, Governments: Local, State, Federal, Non-Profit Organizations.

Updated: Summer, 2013
Description of Major

This interdisciplinary degree provides broad instruction in the mathematical and statistical concepts underlying the operations of life, property and casualty insurers, governmental agencies, and consulting and financial firms. Along with strong mathematical and computational skills, the program is designed to enhance leadership ability and communication skills. The program is also flexible enough to provide background for graduate or professional study in many areas. It was the first actuarial program in a state university in Florida and has many graduates well placed in the industry. It is classified by the professional actuarial societies as "advanced undergraduate education" and "graduate education and research."

Prerequisite Coursework: 22 hours

COP XXXX (3) A scientific programming course designed for computer science majors
ECO X013 (3) Principles of Macroeconomics
ECO X023 (3) Principles of Microeconomics
MAC X311 (4) Calculus I
MAC X312 (4) Calculus II
MAC X313 (5) Calculus III

In addition, the department recommends that the following course be taken during the freshman/sophomore years:
ACG X021 (3) Introduction to Financial Accounting

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Admission/Continuation Requirements to Upper-Division Major
A grade of C- or better is required in all courses to be counted toward this degree. A student who has accumulated more than one grade below a C- (including grades of U) in the calculus sequence MAC2311, MAC2312, MAC2313 at Florida State University or elsewhere, whether repeated or not, will not be permitted to continue as a major in the department. A student who has accumulated more than five grades below C- (including grades of U) in any mathematics or collateral course required for the degree taken for college credit at Florida State University or elsewhere, whether repeated or not, will not be permitted to continue as a major in the department. The collateral courses include COP3014 or ISC3313, STA4321 and the collateral courses with prefixes ACG, ECO, FIN, RMI or STA.

Mapping
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Major Program of Studies at FSU: 45-46 hours
In addition to prerequisite coursework noted above, the following coursework is required. A minor in business is incorporated; hence an additional minor is not required.

Required Mathematics and Statistics (15 hours)
MAP 4170 (4) Introduction to Actuarial Mathematics
MAP 4175 (4) Actuarial Models
STA 4321 (3) Introduction to Mathematical Statistics
MAT 4930r (1, 1, 1, 1) Actuarial Topics

Required Business and Economics (12 hours)
ACG 2021 (3) Introduction to Financial Accounting
FIN 3403 (3) Financial Management of the Firm
RMI 3011 (3) Risk Management and Insurance
FIN 4504 (3) Investments

Economics requirements are satisfied through the prerequisite courses.

Additional Course Requirements (18-19 hours)
Completion of the program should be planned with an academic advisor, with regard to the student’s background and goals. Students must complete six courses from the following three specialized areas: two courses from specialized mathematics and statistics, one course from approved insurance, finance, and economics, one course from other math and statistics, and two additional courses from any of the above categories.

Computer Skills Competency: 0 hours beyond prerequisites. COP 3014 (3) Programming I or ISC 3313 (3) Introduction to Scientific Computing.

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements -Summary
Total Hrs. Required 120
Liberal Studies 36*
Prerequisite Coursework 22*
Major Coursework 45-46
Foreign Language 0-12 (depending on placement)
Computer Skills 0 beyond prerequisites
Oral Competency 0-3
Electives to bring total hours to 120

*Prerequisite coursework in mathematics and economics should also be used to satisfy requirements of Liberal Studies.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. Students who plan to earn the B. A. degree must complete a foreign language through the intermediate (2200 or equivalent) level and nine additional hours in the fields of history and humanities.

Employment Information
Representative Job Titles Related to this Major: Actuary, Actuarial Student, Analyst, Actuarial Specialist, Financial Consultant.

Representative Employers: Insurance, Consulting, and Financial Firms, Governmental Agencies.

Updated: Summer, 2013
AFRICAN AMERICAN STUDIES
College: Social Sciences and Public Policy
Degree: B. S. or B.A.
Limited Access: NO
Contact: Dr. Patrick Mason; Dr. Joanna Hunt
Address: 211 Bellamy Building, FSU
Tallahassee, FL 32306-2151
Phone: (850) 644-4418
E-Mail: pmason@fsu.edu ; jchunt@fsu.edu

Description of Major
African American Studies is an interdepartmental and interdisciplinary approach to the study of racial and ethnic identity, human relations, and cultural dynamics. The curriculum provides an intellectually powerful analysis of individual achievements, cultural phenomena and paradigms, institutional behaviors, global trends, and public discourse. The curriculum also focuses on educational and social policy issues.

In addition to common coursework, students in this major select one of the following concentrations: Economics, Political Science, Sociology, or Humanities (BA only).

Prerequisite Coursework: None.

There are no state-wide Common Program Prerequisites. However, each concentration within this major may have prerequisite courses that must be completed that may not be used to meet major requirements.

Economics: ECO 2013, ECO 2023, and either STA 2023 or STA 2122.
Political Science: POS 1041 and CPO 2002
Sociology: SYG 1000 recommended.
Humanities: no specific prerequisite courses.

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for Progression to the Upper-Division Major
Students must complete at least 52 semester hours of credit with a minimum FSU GPA of 2.0 and most of the required Liberal Studies requirements met, including freshman English Composition and mathematics, or an A.A. Degree.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 36 hours.

Students should consult with a program advisor regarding current courses approved to meet the history and concentration requirements.

1) Basic Core, 9 hours
AFA 2000 (3) Introduction to the Afro-American Experience in the US
AFA 3101 (3) Theory and Dynamics of Racism & Oppression or SYD 4700 (3) Race & Minority Group Relations
ANT 4352 (3) Peoples & Cultures of Africa or SOP 3782 (3) Psych. of the African-American or ANT 2585 (3) Race: Biology and Culture or approved substitution.

2) A History requirement, 6 hours
Students are required to take a minimum of six hours of African or African American History from an approved list.

3) Complete a concentration in one of the following specialty areas, 21 hours
Students must complete 21 hours in one of the following specialty areas. Coursework will include both required coursework and additional coursework to be selected from an approved list.

Economics
Political Science
Sociology
Humanities (BA)
**Language requirement:** 0 to 12 credits.
Students choosing the Humanities specialty area, or others choosing to complete a BA degree, are required to demonstrate proficiency in French, Spanish, Portuguese, or Arabic through the intermediate (2XXX) level.

**Computer Skills Competency:** 3 hours. CGS 2060 (3) or CGS 2100 (3).

**Oral Communication Competency:** 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

**Minimum Program Requirements - Summary**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Hrs. Required</td>
<td>120</td>
</tr>
<tr>
<td>Liberal Studies</td>
<td>*36</td>
</tr>
<tr>
<td>Prerequisite courses</td>
<td>vary</td>
</tr>
<tr>
<td>Major Coursework</td>
<td>36</td>
</tr>
<tr>
<td>Minor Coursework</td>
<td>0</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>0-12</td>
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<tr>
<td>Computer Skills</td>
<td>3</td>
</tr>
<tr>
<td>Oral Competency</td>
<td>0-3</td>
</tr>
<tr>
<td>Electives to bring total hours to 120</td>
<td></td>
</tr>
</tbody>
</table>

Note: Only 6 credit hours may count for both Liberal Studies and major requirements.

**Remarks:**
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

**Employment Information**

Representative Job Titles Related to this Major: Archivist, Documentary Producer, Curator, Social Worker, Editor, Teacher, Publisher, Librarian, Public Relations Specialist, Free-lance Writer, Manufacturer’s representative, Human Resource Specialist, Lobbyist and other positions for which a bachelors degree is required.

Updated: Summer, 2013
ANTHROPOLOGY
College: Arts and Sciences
Degree: B. A. or B. S.
Limited Access: NO
Contact: Glen H. Doran, Chair
Address: Varsity Plaza, 1847 W. Tennessee St.
Tallahassee, FL 30306-4531
Phone: (850) 644-4281
E-Mail: gdoran@fsu.edu

Description of Major
Anthropology is the scientific study of humankind in relation to origins, physical characteristics, distribution, customs, languages, and social and religious beliefs and practices. Anthropologists study human societies and groups, reconstruct past cultures, and analyze the cultures and languages of all peoples, past and present. Both biological and cultural factors are examined as a basis for a better understanding of human history and behavior.

Prerequisite Coursework: 0 hours beyond other coursework.
Two introductory courses in anthropology (ANT prefix).
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Sciences requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Requirements for Progression to the Upper-Division Major
Students must complete at least 52 hours of credit with a minimum grade point average of 2.0, at least half the required Liberal Studies hours including English and mathematics, or an A.A. Degree.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. This is available from the “Student Services” section of http://www.flvc.org.

Major Program of Studies at FSU: 30 hours
To complete a BA or BS degree with a major in anthropology, a student must take, in addition to other college requirements, thirty semester hours of anthropology courses, as outlined below. LIN 4030 and 4040 may be counted as equivalents of courses designated as ANT for purposes of completing the undergraduate major requirement of thirty semester hours in the department, but no more than three semester hours of LIN courses will be counted toward completion of the specific requirement of fifteen semester hours of work at the 3000-4000 level. No anthropology course for which the student receives a grade below C– may be counted toward satisfaction of the major requirements.

Required courses (15 hours)
ANT 2100 (3) Introduction to Archaeology
ANT 2410 (3) Introduction to Cultural Anthropology
ANT 2511 (3) Introduction to Physical Anthropology
ANT 3610 (3) Language and Culture
ANT 4034 (3) History of Anthropology

Five additional courses at the 3000 or 4000 level (15 hours)
No more than three semester hours of credit in fieldwork courses and no hours of directed individual study (DIS) or satisfactory/unsatisfactory (S/U) credits may be used to meet the specific requirement of fifteen semester hours of work at the 3000 - 4000 level, except upon approval of a petition to the department chair

Minor Coursework: 12 hours from one minor department, 15 hours from an interdepartmental minor, or requirements as stated by the minor area, in a related field.

Computer Skills Competency: 3 hours. CGS 2060 (3) or CGS 2100 (3).
Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements – Summary
Total Hrs. Required 120
Liberal Studies 36*
Major Coursework 30
Minor Coursework 12
Foreign Language 0-12 (depending on placement)
Computer Skills 3
Oral Communication Competency 0-3
Electives to bring total hours to 120

*3 hours of major coursework in Anthropology may also be used for Liberal Studies.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, thirty of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. The B. A. Degree requires an additional 9 hours in the fields of history and humanities beyond Liberal Studies.

Employment Information

Representative Employers: Bureau of Archaeological Research, Department of Community Affairs (State of Florida), National Park Service, Department of State, U.S. Information Agency, National Forest Service, Non-profit Organizations, Universities, Research Organizations, Consulting Firms.

Updated: Summer 2013
ART, STUDIO (including BA Studio Art and BFA Studio Art)

College: Visual Arts, Theatre and Dance
Degrees: BA or BFA
Limited Access: BFA Degree Program ONLY
Contact: Sara Howard (Academic Program Specialist)
Address: 116 Fine Arts Annex, FSU
P.O. Box 3061150
Tallahassee, FL 30306-1150
Phone: (850) 644-8252
E-mail: sshoward@admin.fsu.edu

Description of Major
The Department of Art offers diverse opportunities for creative development and expression, provides instruction in the skills necessary for artistic creation, and guides students to an understanding of contemporary issues in the visual arts in an academically challenging environment. The department is committed to excellence in all programs and strives to combine curricular flexibility and a rigorous mix of experiences with opportunities for serious, focused study in art and design. The department benefits from the Museum of Fine Arts (MOFA) for student and faculty exhibitions. Additionally, the department serves as a resource to the rest of the University, providing exhibitions, visiting artist lectures, and foundation courses for related programs.

Course selection encompasses history, theory, and practice. Studies may include ceramics, electronic media, design, drawing, installation, painting, photography, printmaking, and sculpture. Depending upon personal development, students may choose to work in a variety of media or in the case of BFA to concentrate in an area of interest. Each degree program mandates specific entry requirements, a certain sequence of courses, and graduation requirements. The major requirements for studio art and design are currently being reviewed. Entering students should contact the department for specific details regarding major requirements.

Prerequisite Coursework:
All of the following courses, except the ARH courses must be completed with a C or higher. These courses may also be used to meet Liberal Studies (general education) and major course requirements.

Studio/Fine Arts
ART X201 (3) or ART XXXX (3) 2D
ART X202 (3) or ART X203 (3) or ART XXXX (3) Design II, 3D
ART X300 (3) Drawing Foundations
ART X301 (3) Drawing II or acceptable alternative (ART 1602 at FSU)
ART X050 (3) History and Criticism of Art I (ARH 3056 at FSU)
ART X051 (3) History and Criticism of Art II (ARH 3057 at FSU)
6 additional hours with ART prefix

Though students may be admitted before completing all of these courses, all must be completed prior to graduation.

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

The B. A. Degree requires completion of a foreign language through the intermediate (2220 or equivalent) level.

Requirements for Progression to the Upper-Division Major
Students must complete at least 52 hours of credit with a minimum grade point average of 2.0, at least half the required Liberal Studies hours, including English and mathematics, or an A.A. Degree. Approval for entrance to the BFA program (Studio Art or Graphic Design) must be secured by review of art faculty after completion of the majority of core courses. Student must be enrolled in classes at FSU the semester of review. The admission date and procedure for application to a BFA program may be obtained from the BFA advisor.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.
**Academic Performance and Retention**
The Department of Art reserves the right to discontinue enrollment of art major students at any time if satisfactory academic progress is not being made. Students who have accumulated three unsatisfactory grades (U, F, D–, D, D+) in art courses taken for college credit at Florida State University or elsewhere will not be permitted to continue, be readmitted, or graduate with a major in studio art or design. Courses in which a grade below the minimum is received may only be repeated once. Repeated courses designated as non-repeatable (such as foundations courses) will not be counted toward overall credit hours per University requirements. BA students must maintain a minimum GPA per University requirements. BFA students must maintain a minimum cumulative GPA of 2.5 and a 3.0 in studio art and design classes. If a BA/BFA student falls below these standards, s/he is placed on departmental probation for the following semester. If the student’s course grade or GPA remains below the minimum standards at the end of the probationary semester, s/he is will not be permitted to continue in the Department of Art. The Department of Art retains the right to refuse admission or terminate enrollment at any time if a student fails to maintain the standards of the program.

**Major Program of Studies at FSU:** 55-79 hours

**Foundation Requirements for all degrees (16 hours)**
May be taken at community college or in the lower division.
ART 1000 (1) Success Strategies in Art and Design
ART 1201C (3) Two-Dimensional Foundations
ART 1203 (3) Three-Dimensional Foundations
ART 1300C (3) Drawing Foundations
ART 2204C (3) Contemporary Art Foundations
ART 1602C (3) Digital Foundations

**Additional requirements for B. A. Degree (39-51 hours)**
Art History: 9 hours (ARH 3056, ARH 3057, plus one ARH elective)
Minimum Studio Requirements: 21 hours selected in consultation with an advisor.
Foreign Language through the 2220 level or equivalent: 0-12 hours depending on proficiency.
Additional humanities coursework: 9 hours

**Additional requirements for BFA degree in Studio Art (63 hours)**
Admission by Art faculty review. Consult BFA advisor for deadlines and procedure.
Studio Courses: 51 hours in studio art or graphic design.
Art History: 12 hours (ARH 3056, ARH 3057, plus two ARH electives)
Note: BFA students must maintain a 3.0 GPA in art and design courses.

**Computer Skills Competency:** 0 hours beyond major. ART 1602C (3).

**Oral Communication Competency:** 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

**Minimum Program Requirements - Summary**
Total Hrs. Required 120
Liberal Studies 36*
Prerequisite Coursework 0* beyond other requirements
Major Coursework 55-79
Minor Coursework 0
Computer Skills Competency 0 beyond major requirements
Oral Communication Competency 0-3
Electives to bring total hours to 120

*Six hours of the required Art History may also be applied toward Liberal Studies

**Remarks:**
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
Employment Information

Representative Job Titles Related to this Major: Professional Artist, University Professor, Designer, Art Director, Curator, Web Designer, Publications Designer, Photographer, or Color Consultant.


Updated: Summer, 2013
ART HISTORY
College: Visual Arts, Theatre and Dance
Degree: B. A.
Limited Access: No
Contact: Karen A. Bearor, Director of Undergraduate Studies
Address: 220D Fine Arts Building, FSU
Tallahassee, FL 32306-1151
Phone: (850) 644-7067
E-Mail: kbearor@fsu.edu

Description of Major
Majors in the History and Criticism of Art program study art through the ages. They develop the ability to contrast, compare and evaluate different artistic expressions through consideration of style and cultural history. In addition to courses in the various periods and cultures of art history, majors also have the opportunity to take courses in the practice of art. The London, Florence, and Paris summer programs are available and are highly recommended as outstanding opportunities to study the history of art in context abroad and to develop techniques of critical analysis. The department also offers Honors in Art History and a Museum Studies minor.

Prerequisite Coursework:
All courses except the foreign language coursework require a grade of C or higher.
ART X201 (3) Design I, 2D; or ART X202 or ART X203 or ART X205
ART X300 (3) Drawing I or ART X301 or ART X310
ARH X050 (3) History and Criticism of Art I (ARH 3056 at FSU)
ARH X051 (3) History and Criticism of Art II (ARH 3057 at FSU)
XXX XXXX (9-12) Competency requirement of a single foreign language
Though students may be admitted into Art History prior to completing all of these courses, all must be completed prior to graduation.

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Foreign language requirement: Students in this major are required to demonstrate proficiency in a modern or classical foreign language through the intermediate (2220) or equivalent level.

Requirements for Progression to the Upper-Division Major
Students must complete at least 52 hours of credit with a minimum grade point average of 2.0, at least half the required Liberal Studies hours including English and mathematics, or an A.A. Degree.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 48 hours
Students must earn a grade of C or better (C- is not acceptable) in all courses required for the major except foreign language.

Art History courses: 39 hours.
Both of the following (6 hours)
ARH 3056 (3) Intro. to History and Criticism of Art I: Pre-historic through Medieval, if ARH 2050 has not been taken.
ARH 3057 (3) Intro. to History and Criticism of Art II: Renaissance through Modern, if ARH 2051 has not been taken
An art history seminar (3 hours)
ARH 3800 (3) Methods of Art Criticism or other approved seminar. Only one (1) ARH 3800 seminar may be counted toward the major
Advanced art history courses (24 hours)
Art history courses at the 4000 level; at least two courses must be in world arts. All ancient art history courses at the 3000 level and above are considered to be advanced. Students not minoring in Museum Studies may apply one internship (ARH 4941) toward meeting this requirement. Students should select courses, in consultation with their advisor, that are consistent with their academic and career goals.
Professional Training Courses (6 hours)
ARH 2814 (3) Information Technology for the Art Historian (meets computer skills competency requirement)
SPC 2067 (3) Communication for Arts and Design (meets oral competency requirement)

Creative Art: 9 hours.
Any three 3-hour courses in studio art will satisfy this requirement. See the Studio Art advisor for recommended courses.

Computer Skills Competency: 0 hours beyond the major. ARH 2814 (3).
Students majoring in Art History will satisfy this requirement by completing ARH 2814, which is required for the major.

Oral Communication Competency: 0 hours beyond the major. SPC 2067 (3)
Students must demonstrate the ability to orally transmit ideas and information clearly. Students majoring in Art History will satisfy this requirement by completing SPC 2067, which is required for the major.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36*
Major Coursework 48*
Minor Coursework 0
Foreign Language 0-12, depending on placement
Computer Skills 0 beyond the major
Oral Communication Competency 0 beyond the major
Electives to bring total hours to 120
*Up to 9 hours of major coursework may also be applied to Liberal Studies requirements.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. To graduate, students must earn a minimum grade of “C” or better (“C- “is not acceptable) in all courses required for the major, except foreign language.

Employment Information


Updated: Summer, 2013
ASIAN STUDIES
College: Social Sciences and Public Policy
Degree: B.A. or B.S.
Limited Access: NO
Contact: Dr. Lee Metcalf; Dr. Joanna Hunt
Address: 211 Bellamy Building, FSU
          Tallahassee, FL 32306-2161
Phone: (850) 644-4418
E-Mail: jchunt@fsu.edu

Description of Major
The undergraduate program in Asian Studies is designated for: (1) general liberal arts students who wish to learn more about the peoples and civilizations of this vital area; (2) students who wish to pursue graduate work in this field; and (3) students who seek employment in or relating to Asia. Instead of specializing in one academic discipline, Asian Studies majors become acquainted with different disciplines and apply them directly to one area. As this program is interdivisional in nature, students take courses in history, humanities, political science, economics, sociology, anthropology, art, geography, religion, philosophy and languages. An Asian Studies major with a minor in Business has been developed. It is designed to provide undergraduate students with a unique opportunity to acquire knowledge in Asian Studies and receive a degree with a business emphasis.

Prerequisite Coursework: None.
There is no prerequisite coursework for the major, but students are encouraged to take lower level introductory courses in some of the related disciplines. Such courses serve as background for the major and may meet prerequisites for more advanced courses in the major. Students are encouraged to begin study in a relevant area language and to take any culture and history courses that relate to Asia.

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for Progression to the Upper-Division Major
Students must complete at least 52 hours of credit with a minimum FSU GPA of 2.0 and most of the Liberal Studies requirements met, including freshman English composition and mathematics, or an A.A. Degree.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 36 hours
Students majoring in the program are to construct their study program around three components, in consultation with an advisor. The components are:
1) Area Specific Courses (24 hours)
   Students select a minimum of 24 hours from the approved list of area-specific courses.
2) Comparative Concepts and Theories (6 hours)
   Students select a minimum of 6 hours from the approved list of concepts and theories courses. These should be selected in consultation with their advisor.
3) Additional Asian Studies courses (6 hours)
   Students select six (6) additional hours in consultation with their advisor from the approved “Area Specific” and “Comparative Concept and Theory” lists.
   Students may view the approved lists on the Asian Studies website: http://www.coss.fsu.edu/asian/.

Foreign Language Requirement: 0-12 hours
In addition to the 36 hour in the major, a relevant foreign language through the intermediate (2000) level is required (Chinese, Japanese, Arabic, or other approved 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 coursework on the FSU campus or by participating in a semester or summer abroad program in their relevant cultural area as such programs become available. To encourage the achievement of language proficiency, language coursework hours taken beyond the intermediate level foreign language requirement may be counted towards the required 36 hours for the major.
Asian Studies Major with an Emphasis in Business:
This degree program combines the regular Asian Studies major with a planned series of business courses. The requirements include an approved language to the intermediate level (Chinese, Japanese, or Arabic), 21 hours in Asian Studies Area Specific coursework, and fifteen hours in either International Marketing/Management or International Finance tracks. Prerequisites for both tracks are ECO 2013 and ECO 2023, which may be included as part of the Liberal Studies requirements. In addition, students selecting the international finance track must complete ACG 2021 as a prerequisite.

Computer Skills Competency: 3 hours. CGS 2060 (3) or CGS 2100 (3).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36*
Major Coursework 36
Minor Coursework 0
Foreign Language 0-12 (depending on placement)
Computer Skills 3
Oral Communication Competency 0-3
Electives to bring total hours to 120
Note: Hours taken to meet Liberal Studies or AA requirements cannot also be used to meet the 36 hours required in the Asian Studies major.
*Students selecting the Asian Studies with an emphasis in business should choose ECO 2013 and 2023 as part of their Liberal Studies/general education program.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Sinologist, Foreign Service Officer, Teacher.


Updated: Summer, 2013
ATHLETIC TRAINING
College: Human Sciences
Degree: B. S.
Limited Access: YES
Contact: Dr. Bahram Arjmandi or Dr. Angela Sehgal
Address: College of Human Sciences, FSU
Tallahassee, FL 32306-1493
Phone: (850) 644-1828
E-Mail: barjmandi@fsu.edu; asehgal@fsu.edu

Description of Major:
The athletic training education program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE) and prepares students to take the Board of Certification (BOC) examination. Athletic training is offered to students interested in gaining clinical experience with injury prevention, recognition and immediate care, rehabilitation, health care management and professional development in a sports medicine environment. Athletic training students have an opportunity to complete clinical rotations in a variety of settings, both on and off campus. This is a limited access program.

Prerequisite Coursework: 0 hours beyond other requirements.
All of the following also count toward major requirements. Some may also be used to meet general education requirements.
BSC X010, X010L (3,1) or BSC X010C (4) Biology I with Lab
PHY X053, X053L (3,1) or PHY X053C (4) College Physics A with Lab
PSY X012 (3) General Psychology
STA X122 (4) Introduction to Applied Statistics or STA X023 Statistical Methods (STA X122 preferred)
HUN X201 (3) Science of Nutrition or HUN X941 ("B-" or better required)
PET X322, X322L (3,1) Functional Anatomy & Physiology I, Lab; or BSC X085, X085L; or equivalent (C+ or better required)
PET X323C (4) Functional Anatomy & Physiology II with Lab; or BSC X086, X086L; or equivalent

Note 1: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Note 2: Students should take MAC 1105 (3) College Algebra to partially satisfy the math area requirement for Liberal Studies, as it is prerequisite to several of the above courses.

Admission Requirements to the Upper-Division Major
This is a limited access major; admission is competitive. Please visit http://www.chs.fsu.edu/Nutrition-Food-Exercise-Sciences/Undergraduate-Programs/Athletic-Training, or contact the department directly for more information. Students should apply for admission to this program during the second semester freshman year, as seven semesters of clinical athletic training are required. Since access to clinical opportunities is limited, students must complete the following to be admitted: 1) a minimum FSU GPA of 2.5 or higher on a minimum of 15 hours, 2) successful completion of ATR 1810 and admittance into PET 1941, and 3) must meet all technical standards for admission. Contact an academic advisor for details.

To qualify to take the BOC certification examination, students must complete all didactic and clinical experiences. Completion of clinical courses requires a minimum of seven semesters. All athletic training core courses required for the major must be taken at FSU.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 97 hours
Many of these courses may also be used to satisfy general education requirements. Please contact the department regarding possible curricular changes. In order to graduate with a degree in Athletic Training, students must have a minimum FSU overall GPA of 2.5 and a grade of “C-“ or higher in all required courses, and a “B-“ or higher in all Athletic Training courses.
Required mathematics/science/psychology courses (26 hours)
MAC 1105 (3) College Algebra
MAC 1114 (2) Trigonometry
MAC 1140 (3) Precalculus
STA 2122 (3) Introduction to Applied Statistics
BSC 2010, 2010L (3, 1) Biological Science I, Lab
CHM 1045, 1045L (3, 1) General Chemistry I, Lab
PHY 2053C (4) College Physics A (PHY 2053, 2053L)
PSY 2012 (3) General Psychology
College of Human Sciences Core (6 hours)
FAD 2230 (3) Family Relationships
HSC 4711 (3) Wellness/Risk Reduction
Departmental coursework (21 hours)
HUN 1201 (3) Science of Nutrition
APK 3113 (3) Strength and Conditioning Principles
PET 3322, 3221L (3,1) Functional Anatomy and Physiology I or BSC 2085, 2085L (3,1)
PET 3323C (4) Functional Anatomy and Physiology II or BSC 2086, 2086L (3,1)
PET 3361 (3) Nutrition and Sports
PET 3380C (4) Applied Exercise Physiology
Athletic Training coursework (44 hours)
ATR 1800 (1) Introduction to Athletic Training
*ATR 1810, *ATR 2820, *ATR 3832, *ATR 4842, *ATR 4852, *ATR 4862 (1, 1, 1, 1, 1, 1) Athletic Training Clinical I-VI
*ATR 2020 (2) First Aid-Professional Rescuer
*ATR 3102, (3) Athletic Training I
*ATR 3012C, *ATR 3942r (3, 1) Orthopedic Assessment-Upper Extremity, Lab
*ATR 3132 (3) Kinesiology
*ATR 3213C, *ATR 3942r (3, 1) Orthopedic Assessment-Lower Extremity, Lab
*ATR 3312C, *ATR 3942r (3, 1) Therapeutic Exercise, Rehabilitation, Lab
*ATR 4302C, *ATR 3942r (3, 1) Therapeutic Modalities, Lab
*ATR 3512 (3) Athletic Training Administration
*ATR 4502 (3) Athletic Training Professional Development
*ATR 4503 (3) Athletic Training II
*ATR 4932 (3) Issues in Sports Training
*ATR 4947 (1) General Medical Issues Clinical (summer only)
* Due to CAATE accreditation standards, all athletic training core courses required for the major must be taken at FSU and must be passed with a grade of “B-” or higher (ATR 1800 with an “S”). Graduates of the Athletic Training major must complete all didactic and clinical experiences to be eligible to take the Board of Certification exam.

Computer Skills Competency: 0 beyond required coursework: CGS 2060 (3) or BSC 2010L (1).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements – Summary
Min. Hrs. Required 120
Prerequisites 0 beyond coursework required for Liberal Studies and the major*
Liberal Studies 36*
Major Coursework 97*
Minor Coursework 0
Computer Skills 0-3 hours
Oral Competency 0 beyond major requirements
Electives to bring total hours to 120
*NOTE: The following coursework required for the major can also apply to Liberal Studies: all math courses; CHM 1045, 1045L, HUN 1201, and/or BSC 2010, 2010L; PSY 2012, FAD 2230.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

**Employment Information**

*Representative Job Titles Related to this Major:* Certified Athletic Trainer (after passing certification exam).

*Representative Employers:* All sports settings, including: colleges and universities, professional sports, clinical medical sites, hospitals, allied health facilities, corporate/industrial, and high schools.

*Updated:* Summer, 2013
BIOCHEMISTRY
College: Arts and Sciences
Degree: B. S. or B. A.
Limited Access: NO
Contact: Ms. Elizabeth Kistner (jr/sr)
          Ms. Abby Rhodes (fr/soph)
Address: 310/312 DLC (Kistner)
          310/312 DLC (Rhodes)
          Tallahassee, FL 32306-4390
Phone: 850.644.6004 (Kistner); 850.644-8434 (Rhodes)
E-Mail: ekistner@chem.fsu.edu ; arrhodes@fsu.edu

Note to prospective transfer students. Prospective transfer students should contact Ms. Shellie Camp, scamp@fsu.edu or 850.645.7156, with specific questions about admission and mapping requirements.

Description of Major
Biochemistry, as a science, attempts to understand the chemical basis for all life processes. It draws information from, and has an impact on many fields: chemistry, zoology, botany, microbiology, virology, physiology, pharmacology, genetics, medicine, agriculture, and even ecology. No undergraduate major could possibly encompass all of the subject matter dealt within this field. The major, therefore, is intended to provide the student with a strong background in chemistry, in physics, and in math, together with a broad introduction to biochemistry and biology, which will equip him or her with the tools needed for more specific applications or for advanced, more specialized study.

Prerequisite Coursework: 0 hours beyond other requirements
Students must complete the following prerequisites (or acceptable substitutes) for admission in preparation for the upper division major. All may also apply toward Liberal Studies (general education) and/or major coursework.
BSC X010, X010L (4) Biological Sciences I and Lab or acceptable alternative
BSC X011, X011L (4) Biological Sciences II and Lab or acceptable alternative
CHM X045, X045L (4) General Chemistry I and Lab or acceptable alternative
CHM X046, X046L (4) General Chemistry II and Lab or acceptable alternative
CHM X210, X210L (4) Organic Chemistry I and Lab or acceptable alternative
CHM X211, X211L (4) Organic Chemistry II and Lab or acceptable alternative
MAC X311 (4) Calculus I or acceptable alternative
MAC X312 (4) Calculus II (students may be admitted prior to completion of this course)
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Sciences requires proficiency in a foreign language through the intermediate (2200 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Requirements for Progression to the Upper-Division Major
Students must complete at least 52 hours of credit with a minimum grade point average of 2.0, at least half the required Liberal Studies hours including English and mathematics, or an A.A. Degree.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Departmental policy on grades and progress in the major.
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 two unsatisfactory grades (U, F, D-, D, D+) in the following courses, taken at Florida State University or elsewhere, including repeated unsatisfactory grades in the same course, will not be permitted to graduate with a degree offered by the Department of Chemistry and Biochemistry: CHM 1045, CHM 1045L, CHM 1046, CHM 1046L, CHM 2210, MAC 1105, MAC 1114, MAC 1140, MAC 2311.

A student who has received more than five unsatisfactory grades (U, F, D-, D, D+) in all science or mathematics courses (and their prerequisites) required for any major offered by the Department of Chemistry and Biochemistry, taken at FSU or elsewhere, including repeated unsatisfactory grades in the same required, will not be permitted to graduate with a degree in that major.

**Major Program of Studies at FSU:** 72-73 hours.

**Chemistry and Biochemistry courses (40-41 hours)**
- CHM 1045, 1045L (3, 1) or 1050, 1050L (3, 1) General Chemistry I and Lab
- CHM 1046, 1046L (3, 1), or 1051, 1051L (3, 2) General Chemistry II and Lab
- CHM 3120, 3120L (3, 1) Analytical Chemistry I and Lab
- CHM 4130, 4130L (3, 1) Advanced Analytical Chemistry and Lab
- CHM 2210 (3) Organic Chemistry I
- CHM 2211, 2211L (3, 3) Organic Chemistry II and Lab
- CHM 4410, 4411 (3, 3) Physical Chemistry I and II
- BCH 4053, 4054 (3, 3) General Biochemistry I and II

Select one of the following:
- CHM 4410L and 4411L (1, 2) Physical Chemistry Labs
- BCH 4053L (3) Biochemistry Lab
- CHM 4906 (3) Honors Work

**Collateral Courses (32 hours)**
- BSC 2010, 2010L (3, 1) Biological Sciences I and Lab
- BSC 2011, 2011L (3, 1) Biological Sciences II and Lab
- PCB 3063 (3) General Genetics
- XXX XXXX (3) Biological science elective from approved list (see website or consult advisor)
- MAC 2311 (4) Calculus with Analytic Geometry I
- MAC 2312 (4) Calculus with Analytic Geometry II
- PHY 2048C (5) General Physics A
- PHY 2049C (5) General Physics B

**Computer Skills Competency:** 0 beyond major coursework. CHM 3120L.

**Oral Communication Competency:** 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

**Minimum Program Requirements - Summary**

Total Hrs. Required 120
- Liberal Studies 36*
- Prerequisites 0 beyond other requirements
- Major Coursework 72-73*
- Minor Coursework 0
- Foreign Language 0-12 (depending on placement)
- Computer Skills 0 beyond major
- Oral Communication Competency 0-3
- Electives to bring total hours to 120

*Some coursework required for the major may also be applied towards Liberal Studies and/or minor requirements.

**Remarks:**
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University. (Note: calculus, organic chemistry and physics courses apply toward meeting this requirement.)
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. The B. A. Degree requires an additional 9 hours in the fields of history and humanities beyond Liberal Studies.
5. All 3000 and 4000 level chemistry and biochemistry courses must be taken at FSU.
6. Students with more than five grades below C- in required courses or their prerequisites, including transfer courses, will be dropped from the program.

**Employment Information**

**Representative Job Titles Related to this Major:** Baccalaureate level – Laboratory Assistant/Technician, Laboratory Tester/Analyst, Inspector (ex: food & drug), Medical Technologist, Environmental Analyst, Crime Laboratory Analyst, Technical/Scientific Writer, Technical Sales and/or Service Representative, Teacher - high school (with appropriate education preparation), Consumer Safety Officer. With further study: Biochemist/Researcher/Engineer, Physician, Pharmacist, Veterinarian, Dentist, Chemist/Researcher/Engineer, Food Scientist, Teacher - college, university, Geneticist.

**Representative Employers:** Pharmaceutical manufacturers; professional & technical journals; chemical industries; medical laboratories; hospitals; government agencies (local, state, national); and schools, colleges, and universities.

Updated: Summer, 2013
BIOLOGICAL SCIENCE
College:   Arts and Sciences
Degree:   B. S. or B. A.
Limited Access:  NO
Contacts:  Dennis Hutchison, Ed Oaksford, Keri Keene, Erin Staszewski, Dr. Laura Keller
Address:  1067 King Life Science, FSU
          Tallahassee, FL 32306-1100
Phone:   (850) 644-5053
Website:  http://www.bio.fsu.edu/undergrad/advising (includes advisor contact information)

Description of Major
The Department of Biological Science offers an undergraduate major in Biological Science. Specific academic tracks (elective courses) are available in several subspecialty areas including cell and molecular biology; ecology, evolution and environmental science; marine biology; physiology and neuroscience; plant sciences; pre-professional health science; and zoology. The pre-professional health sciences academic track meets most requirements for admission to medicine, veterinary medicine, optometry, dentistry, pharmacy, physical therapy, and physician’s assistance programs. Juniors and seniors may apply to participate in the Undergraduate Research Program in Marine Biology and Living Marine Resource Ecology.

Prerequisite Coursework:
All of the following may also apply toward Liberal Studies, major and/or collateral requirements. The first four courses are particularly important in preparation for upper-division major coursework. Contact the department for information on acceptable substitutes.
BSC X010, X010L (3, 1) Biological Science I and Lab
BSC X011, X011L (3, 1) Biological Science II and Lab
CHM X045, X045L (3, 1) General Chemistry I and Lab
CHM X046, X046L (3, 1) General Chemistry II and Lab
CHM X210, X210L (3, 1) Organic Chemistry I and Lab or acceptable substitute
CHM X211, X211L (3, 1-3) Organic Chemistry II and Lab or acceptable substitute
MAC X311 (4) Calculus with Analytic Geometry I
MAC X312 (4) Calculus with Analytic Geometry II or acceptable alternative (contact department for more information)
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Requirements Progression to the Upper-Division Major
Students interested in majoring in Biological Science should declare it as their major upon admission to the University and work with departmental advisors to assure appropriate course selection. For certification into the College of Arts and Sciences and progression to upper-division status in the major, students must satisfy the following requirements:
1) Completion of at least 52 hours of acceptable college courses (or an AA degree) with an overall GPA of at least 2.0, to include at least half of the Liberal Studies requirements (Freshman English Composition, the math and science requirements),
2) Satisfactory completion (C- or higher) or core courses including BSC 2010/2010L, BSC 2011/2011L, CHM 1045/1045L and 1046/1046L, or their equivalents (NOTE: Registration in upper-division biological science courses will not be permitted until these courses are satisfactorily completed.),
3) A minimum combined 2.0 GPA (no forgiveness) in all biology, chemistry, physics, mathematics, and statistics courses,
4) Compliance with the D/F policy; and
5) A preliminary meeting with an Undergraduate Biological Sciences Advisor to discuss program requirements.

Note to prospective transfer students. Prospective transfer students should contact Ms. Robbin Hand, rhand@admin.fsu.edu or 850.645.7156, with specific questions about admission and mapping requirements.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu.

D/F Policy in Biological Science
1) A student who has not yet completed the prerequisite courses required for upper-division status (CHM 1045 & lab, CHM 1046 lab, BSC 2010 & lab, BSC 2011 & lab) and earned more than one unsatisfactory grade (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 Florida State University or elsewhere, whether or not repeated, will not be permitted to graduate from Florida State University with a degree in biological science;
2) A student who has completed the prerequisite courses required for upper-division status (CHM 1045 & lab, CHM 1046 & lab, BSC 2010 & lab, BSC 2011 & lab) and earned more than three unsatisfactory grades (U, F, D-, D, D+) in courses required for the major in biological sciences (biological science, chemistry, physics, mathematics, and statistics) and their prerequisites at Florida State University or elsewhere, whether or not repeated, will not be permitted to graduate from Florida State University with a degree in biological science.

Major Program of Studies at FSU: 38 hours
The biological science major requires the following: 1) Completion of a minimum of 38 hours of biological science courses, with grades of C- or higher. At least 20 of the 38 hours must be taken at FSU. 2) Completion of a minimum of 5 biological science lab or field courses (L or C after the course number) with grades of C- or higher. 3) Completion of collateral courses in chemistry, math, and physics with a grade of C- or higher. 4) A minimum combined 2.0 GPA (no forgiveness) in all courses required for the major, including collaterals, taken at FSU or elsewhere, is required for graduation with a degree in biological science.

Required Lower Division Biological Sciences Courses (8 hours)
BSC 2010 (3) Biological Science I
BSC 2010L (1) Biological Science I Lab
BSC 2011 (3) Biological Science II
BSC 2011L (1) Biological Science II Lab

Required Upper Division Biological Sciences Courses (10 hours)
PCB 3063 (3) Genetics
BSC 3XXX (3) Eukaryotic Diversity
BSC 3402L (2) Experimental Biology Lab
PCB 4674 (3) Evolution

Area Requirements (6-9 hours). Two courses representing two different areas:
Area I: Cell and Molecular Biology
MCB 4403, 4403L (3, 2) Prokaryotic Biology
PCB 3134 (3) Cell Structure & Function
PCB 4253 (3) Animal Development
PCB 4024 (3) Molecular Biology
Area II: Physiology
PCB 3743 (3) Vertebrate Physiology
PCB 4843 (3) Fundamentals of Neuroscience
Area III: Ecology and Environmental Sciences
BSC 3052 (3) Conservation Biology
PCB 3043 (3) Ecology
ZOO 4513 (4) Animal Behavior

Additional elective courses in biological science at the 3000-4000 level to complete the 38 hour requirement.
Consult advisor. NOTE: A maximum of 6 hours of honors work, 6 hours of DIS or research methods, 2 hours of senior tutorial, and 1 hour of supervised teaching can be used to meet the 38 hour biological science coursework requirement.

Collateral Courses: 30-36 hours
These courses may be used to satisfy Liberal Studies and minor requirements or taken in addition to them. Chemistry and Calculus or Statistics coursework should be completed by the end of the student’s sophomore year.

Chemistry (14 hours):
CHM 1045, 1045L (3,1) General Chemistry I with Lab
CHM 1046, 1046L (3,1) General Chemistry II with Lab
CHM 2210 (3) Organic Chemistry I
CHM 2211 (3) Organic Chemistry II
(Note: CHM 2211L (3) Organic Chemistry II Lab may be required for students in the preprofessional health science track.)

Physics, one of the following series (8-10 hours):
PHY 2053C, 2054C (4, 4) College Physics A and B, or
PHY 2048C, 2049C (5, 5) General Physics A and B

Mathematics, one of the following series (8-9 hours):
MAC 2311, 2312 (4, 4) Calculus with Analytic Geometry I and II and MAP 2480 (1) Biocalculus Computer Lab, or
MAC 2311 (4), MAP 2480 (1), and STA 2171 (4) Statistics for Biology (contact the department for possible statistics substitute), or
MAC 2311 (4), MAP 2840 (1), and COP 3014 (3) Programming I

Minor Requirements: The required collateral courses in chemistry constitute a minor; however the student may select other minors in consultation with an advisor.

Computer Skills Competency: BSC 2010L (1).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36*
Prerequisites – All prerequisite coursework is counted in major/collateral totals
Major Coursework 38
Collateral Coursework 30-36
Minor Coursework 0* (none beyond collateral)
Foreign Language 0-12 (depending on placement)
Computer Skills 0 beyond major
Oral Communication Competency 0-3
Electives to bring total hours to 120
*Some coursework required for the major may also be applied towards Liberal Studies and/or minor requirements.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. The B. A. degree requires an additional 9 hours in the fields of history and humanities beyond Liberal Studies.
5. At least 20 of the 38 hours required in Biological Science Courses must be taken at FSU.

Employment Information

Representative Employers: Educational Institutions, Consulting Firms, Research Institutions, Law Offices, Biotechnology Companies, Publishers, Biomedical Products Manufacturers, Hospitals and Clinics, Medical Laboratories, Museums, Zoos, Aquaria, Botanical Gardens, Federal and State Agencies involved in agriculture, commerce, defense, diplomacy, education, environmental protection, intelligence, law enforcement, public health.

Updated: Summer, 2013
Description of Major

FSU-Teach is an innovative approach to teacher education that involves collaboration between scientists, mathematicians and education faculty at Florida State University. In Biology /FSU-Teach, students will develop deep biology knowledge and the knowledge, skill, and experience needed to be an effective science teacher. The program will pay for tuition for the first two Education/Teaching courses. Work study positions with scientists, mathematicians and local schools are available. For more information, see our Web site, http://fsu-teach.fsu.edu/.

This is a double-major only program. FSU-Teach majors are first admitted into their primary, discipline-specific major and must meet the state-wide common program prerequisites for that major, in this case, Biological Science. Later, students apply for admission into a secondary major within the College of Education called Science Teaching/FSU Teach. Upon graduation, students are awarded the B.S. degree with majors in Biological Science and Science Teaching.

Prerequisite Coursework:

All of the following courses also apply toward Liberal Studies, major and/or collateral requirements. The following are required in preparation for the upper-division major. Contact the department for information on approved substitutes.

- BSC X010, X010L (3, 1) Biological Science I, Lab
- BSC X011, X011L (3, 1) Biological Science II, Lab
- CHM X045, X045L (3, 1) General Chemistry I, Lab
- CHM X046, X046L (3, 1) General Chemistry II, Lab
- CHM X210, X210L (3, 1) Organic Chemistry I, Lab and CHM X211, X211L (3,1) Org. Chem. II, Lab
- or PHY 2053C (4) College Physics A with Lab and PHY 2054C (4) College Physics B with Lab

(Students should contact the department regarding selecting courses to meet this requirement.)

- MAC X311 (4) Calculus with Analytic Geometry I
- MAC X312 (4) Calculus with Analytic Geometry II or approved statistics (STA 2071 at FSU-- Preferred)
- *SMT X043 (1) Step 1: Inquiry Approaches to Teaching
- *SMT X053 (1) Step 2: Inquiry-Based Lesson Design

* Transfer students will be able to take SMT X043 and SMT X053 while enrolled at FSU.

Note. State-wide common prerequisites are always under review. For the most current information and for approved alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:

The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Progress in this major and formal admission to FSU-Teach and Teacher Education.

FSU native and transfer students will progress to upper-division (junior) status in the College of Arts and Sciences in the same manner as other Biological Science majors: an AA degree or 52 earned credits (including at least half of the general education requirement, including English composition and mathematics), at least a 2.5 GPA and completion of appropriate milestones. To be recognized as “formally admitted” into this major, students must meet the following requirements: 1) certification to upper division (or transfer admission into Mathematics as a junior); 2) completion of Liberal Studies or an AA; 3) satisfactory completion of “Step 1” and “Step 2” courses; 4) a cumulative GPA of at least a 2.5; 5) completion of all of the common prerequisite courses for the major; and 6) a passing score on all four parts of the FTCE General Knowledge Test. Once these are
complete, the student must complete an “Undergraduate Application to Teacher Education” in 2301 Stone Building, at which time the second major in Education will be added.

D/F Policy in Biological Science

3) A student who has not yet completed the prerequisite courses required for upper-division status (CHM 1045 & lab, CHM 1046 lab, BSC 2010 & lab, BSC 2011 & lab) and earned more than one unsatisfactory grade (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 Florida State University or elsewhere, whether or not repeated, will not be permitted to graduate from Florida State University with a degree in biological science;

4) A student who has completed the prerequisite courses required for upper-division status (CHM 1045 & lab, CHM 1046 & lab, BSC 2010 & lab, BSC 2011 & lab) and earned more than three unsatisfactory grades (U, D-, D, D+) in courses required for the major in biological sciences (biological science, chemistry, physics, mathematics, and statistics) and their prerequisites at Florida State University or elsewhere, whether or not repeated, will not be permitted to graduate from Florida State University with a degree in biological science.

Mapping

Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 78 hours.

Required Biology and Collateral courses for the Biology Major: 52 hours

This major requires the following for graduation: 1) Completion of a minimum of 28 hours of biological science courses, with grades of C- or higher. At least 20 of these hours must be taken at FSU. 2) Completion of a minimum of 3 biological science lab or field courses with grades of “C-” or higher. 3) Completion of collateral courses in chemistry, math, and physics with a grade of C- or higher. 4) A minimum combined 2.0 GPA (no forgiveness) in all courses required for the major, including collaterals, taken at FSU or elsewhere.

Required Lower Division Biological Sciences Courses (8 hours)

BSC 2010 (3) Biological Science I
BSC 2010L (1) Biological Science I Lab
BSC 2011 (3) Biological Science II
BSC 2011L (1) Biological Science II Lab

Other Required Biological Sciences Courses (15 hours)

PCB 3063 (3) Genetics
PCB 4674 (3) Evolution
BSC 3XXX (3) Eukaryotic Diversity
* ISC 3523C (3) Research Methods
PCB 3134 (3) Cell Structure and Function

Area Requirements (at least 6 hours).

Two courses representing two different areas:

Area I: Cell and Molecular Biology
MCB 4403, 4403L (3, 2) Prokaryotic Biology
PCB 4253 (3) Animal Development
PCB 4024 (3) Molecular Biology

Area II: Physiology
PCB 3743 (3) Vertebrate Physiology
PCB 4843 (3) Fundamentals of Neuroscience

Area III: Ecology and Environmental Sciences
BSC 3052 (3) Conservation Biology
PCB 3043 (3) Ecology
ZOO 4513 (4) Animal Behavior

Collateral Courses: 23 hours

These courses may be used to meet Liberal Studies and minor requirements or taken in addition to them. Chemistry and Calculus/Statistics coursework should be completed by the end of the sophomore year.

CHM 1045, 1045L (3,1) General Chemistry I with Lab
CHM 1046, 1046L (3,1) General Chemistry II with Lab
CHM 2210 (3) Organic Chemistry I
PHY 2053C (4) College Physics A with lab (or approved substitute)
MAC 2311 (4) Calculus I
STA 2171 (4) Statistics for Biology

**Required courses for the Education major:** 29 hours (26 hours beyond the Biology requirement)
SMT 1043 (1) Step 1: Inquiry Approaches to Teaching
SMT 1053 (1) Step 2: Inquiry-Based Lesson Design
SMT 3100 (3) Knowing and Learning
SMT 4301 (3) Classroom Interactions
* ISC 3523C (3) Research Methods
HIS 3505 (3) Perspectives on Science and Mathematics
SMT 4664 (3) Project Based Instruction
RED 4335 (3) Content Area Reading for Secondary School Teachers
TSL 4324 (3) ESOL Instruction in the Content Area
SMT 4945 (6) Apprentice Teaching
* ISC 3523C applies to both the Biology requirement and the Education requirement.

**Computer Skills Competency:** 0 hours beyond other requirements. BSC 2010L (1) or ISC 3523C (3).

**Oral Communication Competency:** 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. SMT 4664 will meet this requirement.

**Minimum Program Requirements -Summary**
Total Hrs. Required 120
Liberal Studies 36*
Prerequisite Coursework 0 beyond other requirements*
Major Coursework 78
Foreign Language 0-12 (depending on placement)
Computer Skills 0 beyond prerequisites
Oral Competency 0-3
Electives to bring total hours to 120
*The 22 hours of prerequisite coursework may also be used to satisfy general education and major requirements.

**Remarks:**
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

**Employment Information**
Representative Job Titles Related to this Major: Middle school or high school teacher of mathematics. Students may also pursue graduate school and career options related to the traditional Biology major

Representative Employers: Public and private schools; research facilities; medical facilities; government organizations; private industry.

Updated: Summer, 2013
BUSINESS ADMINISTRATION—Panama City Campus Only
College: Business
Degree: B. S.
Limited Access: YES
Contact: Business Undergraduate Programs Office and Advising Center
Address: 328 Rovetta Business Building, FSU
PO Box 3061110
Tallahassee, FL 32306-1110
Phone: (850) 644-3892
E-Mail: ugprog@cob.fsu.edu
Fax: (850) 644-7332

Description of Major
The Business Administration program at FSU Panama City is committed to providing students the general education and technical knowledge necessary to enter the business environment and to pursue a successful professional career. It is a challenging journey that explores both the business and government sectors and the challenges and opportunities of today and tomorrow.

In the first two years at FSU, students should take courses to complete the following four requirements: Liberal Studies (general education) requirements, Gordon Rule Writing requirement, Multicultural Course requirements, and Prerequisite Coursework requirements. Some courses may fulfill requirements in multiple areas. Electives in the first two years should focus on gaining additional exposure to the social and behavioral sciences, and on improving communication and analytical reasoning skills. The Business Administration degree is flexible, with 9 to 12 hours of general (outside the major) electives.

Prerequisite Coursework: 21 hours. The following courses must be completed with a C- or better:
- ACG X021 (3) Introduction to Financial Accounting
- ACG X071 (3) Introduction to Managerial Accounting
- CGS X100 (3) Microcomputer Applications for Business or CGS X518 (3) Spreadsheets for Business
- ECO X013 (3) Principles of Macroeconomics
- ECO X023 (3) Principles of Microeconomics
- MAC X233 (3) Calculus for Business and Non-Physical Sciences
- STA X023 (3) Business Statistics

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Upper-Division Major
Admission to the limited access business programs requires the following: 1) completion of at least 52 semester hours; 2) a cumulative grade point average on all college work attempted of at least 2.30; and 3) satisfactory completion of all required prerequisite coursework.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 42 hours
Community college courses may not be substituted for 3000/4000 level courses. All courses must be completed with a grade of C- or better.

General Business Core Requirements for Entrepreneurship Majors (15 hours):
- BUL 3310 (3) The Legal and Ethical Environment of Business
- FIN 3403 (3) Financial Management of the Firm
- GEB 3213 (3) Business Communications
- MAN 3240 (3) Organizational Behavior
- MAR 3023 (3) Basic Marketing Concepts

General Business Breadth Requirements for Entrepreneurship Majors (9 hours):
Both of the following:
FIN 3244 (3) Financial Markets, Institutions, and International Finance Systems
MAN 4720 (3) Strategic Management and Business Policy
Plus one (1) elective from the following list of courses:
*ISM 3003 (3) Foundations of Management Information Systems
MAN 3600 (3) Multinational Business Operations
*MAR 3400 (3) Professional Selling
QMB 3200 (3) Quantitative Methods for Business Decisions
REE 3043 (3) Real Estate
RMI 3011 (3) Risk Management/Insurance
*These courses are not offered regularly at the Panama City Campus

Major Area Requirements for Entrepreneurship Majors (18 hours):
One FIN course, one MAN course, and one MAR course chosen from the following:
FIN 4424 (3) Problems in Financial Management or FIN 4504 (3) Investments
MAN 4301 (3) Human Resource Management or MAN 4701 Business and Society
MAR 4XXX (3) Any 4000-level Marketing Course (MAR prefix)
Plus three (3) additional business electives from the following:
3000/4000 level Finance course (FIN)
3000/4000 level Management Information Systems course (ISM)
3000/4000 level Management course (MAN)
3000/4000 level Marketing courses (MAR)
3000/4000 level Real Estate course (REE)
3000/4000 level Risk Management course (RMI).

Computer Skills Competency: 0 hours beyond prerequisites. CGS 2100 (3) or CGS 2518 (3).

Oral Communication Competency: 0 additional hours.
Students must demonstrate the ability to orally transmit ideas and information clearly. Business majors complete GEB 3213.

Minimum Program Requirements - Summary
Total Hours Required 120
Liberal Studies 36*
Prerequisite Coursework 21*
Major Coursework 42
Minor Coursework 0
Computer Skills 0 beyond prerequisites
Oral Communication Competency 0 beyond major
Electives to bring total credits to 120 (must complete at least 60 credits outside of business
*Some Prerequisite courses may also be counted as part of Liberal Studies.

Remarks:
1. Must complete at least 60 hours outside of business.
2. A minimum of 45 hours at the 3000 level or above, at least 30 of which must be taken at this University.
3. At least half of the major course semester hours must be completed in residence at this University. After enrolling at this University, all remaining major course requirements must be completed at this University.
4. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Management Trainee, Supervisor Owner, Supervisor, Budget Officers, Department Manager, General Manager, Forms & Management Analyst, Planning Analyst, Sales Manager, Operations Director.

Representative Employers: Manufacturers, Insurance Companies, Retailers, Investment Firms, Government Agencies, Banks.

Updated: Summer, 2013
CHEMICAL SCIENCE
College: Arts and Sciences
Degree: B. S. or B. A.
Limited Access: NO
Contact: Ms. Elizabeth Kistner (jr/sr)
         Ms. Abby Rhodes (fr/soph)
Address: 310/312 DLC (Kistner)
         310/312 DLC (Rhodes)
         Tallahassee, FL 32306-4390
Phone: 850.644.6004 (Kistner); 850.644.8434(Rhodes)
E-Mail: ekistner@chem.fsu.edu ; arrhodes@fsu.edu

Note to prospective transfer students. Prospective transfer students should contact Ms. Shellie Camp, scamp@fsu.edu or 850.645.7156, with specific questions about admission and mapping requirements.

Description of Major
This degree is designed for students who wish a good knowledge of chemistry as a background for some other field. Examples are pre-pharmacy, pre-dental, pre-veterinarian, oceanography, environmental science, and forensic science. This degree may be appropriate for pre-medical if augmented with other courses desired by colleges of medicine. Other possibilities include a combination of chemistry with areas such as law and business. This degree should not be used by someone planning to work as a chemist directly or planning to do graduate work in Chemistry. The degree in Chemistry better serves these objectives.

Prerequisite Coursework: 0 beyond other requirements
The following are required in preparation for the upper division major. All may also apply toward Liberal Studies, major, and/or collateral coursework.

CHM X045, X045L (3, 1) General Chemistry I and Lab
CHM X046, X046L (3, 1) General Chemistry II and Lab
CHM X210, X210L (3, 1) Organic Chemistry I and Lab
CHM X211, X211L (3, 1) Org. Chem. II and Lab (CHM 2211L is 3 credits at FSU)
MAC X311 (4) Calculus with Analytic Geometry I

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Requirements for Progression to the Upper-Division Major
Students must complete at least 52 hours of credit with a minimum grade point average of 2.0, at least half the required Liberal Studies hours, including English composition and mathematics, or an A.A. Degree.

Mapping
Mapping is FSU's academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Departmental policy on grades and progress in the major.
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 two unsatisfactory grades (U, F, D-, D, D+) in the following courses, taken at Florida State University or elsewhere, including repeated unsatisfactory grades in the same course, will not be permitted to graduate with a degree offered by the Department of Chemistry and Biochemistry: CHM 1045, CHM 1045L, CHM 1046, CHM 1046L, CHM 2210, MAC 1105, MAC 1114, MAC 1140, MAC 2311.
A student who has received more than five unsatisfactory grades (U, F, D-, D, D+) in all science or mathematics courses (and their prerequisites) required for any major offered by the Department of Chemistry and Biochemistry, taken at FSU or elsewhere, including repeated unsatisfactory grades in the same required, will not be permitted to graduate with a degree in that major.

**Major Program of Studies at FSU: 41-42 hours**

**Chemistry Courses (29 hours)**
- CHM 1045, 1045L (3, 1) or 1050, 1050L (3, 1) General Chemistry I and Lab
- CHM 1046, 1046L (3, 1) or 1051, 1051L (3, 2) General Chemistry II and Lab
- CHM 2210 (3) Organic Chemistry I
- CHM 2211, 2211L (3, 3) Organic Chemistry II and Lab
- CHM 3120, 3120L (3, 1) Analytical Chemistry I and Lab
- CHM 3400 (4) Physical Chemistry or CHM 4410-4411 (3, 3) Physical Chemistry I and II
- CHM 4130, 4130L (3, 1) Advanced Analytical Chemistry and Lab

**Collateral Coursework (12 hours)**
The Chemical Science major requires completion of all the courses listed below. These courses may also be used to satisfy Liberal Studies or the minor. If not, they must be taken in addition to other requirements.
- Math through Calculus I: MAC 2311 (4).
- A year of college physics: Either PHY 2053C, 2054C (4, 4) College Physics A and B, or PHY 2048C, 2049C (5, 5) General Physics A and B (calculus based).

**Minor Coursework:** 12 hours or more.
Chemical Science majors must completed the required hours/courses for an approved minor field or 15 hours in an interdepartmental minor approved by the Department of Chemistry. Frequently Chemical Science majors will complete a second major, which satisfies this requirement.

**Computer Skills Competency:** 0 hours beyond major. CHM 3120L satisfies this requirement.

**Oral Communication Competency:** 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

**Minimum Program Requirements - Summary**
- Total Hrs. Required 120
- Liberal Studies 36*
- Prerequisite Coursework – all prerequisite coursework may also apply to other requirements
- Major Coursework 41
- Minor Coursework 12*
- Foreign Language 0-12 (depending on placement)
- Computer Skills 0 beyond major
- Oral Communication Competency 0-3
- Electives to bring total hours to 120

*Some coursework required for the major may also be applied towards Liberal Studies and/or minor requirements.

**Remarks:**
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University. (Note: calculus, organic chemistry and physics courses will count toward meeting this requirement.)
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. All 3000 and 4000 level chemistry and biochemistry courses must be taken at FSU.
5. The B. A. Degree requires an additional 9 hours in the fields of history and humanities beyond Liberal Studies.
6. Students with five or more grades below C- in required courses or their prerequisites, including transfer courses, will be dropped from the program.
Employment Information

Representative Job Titles Related to this major (note that this is a pre-professional degree and not designed to prepare the student to enter any specific chemical work area): Baccalaureate level - Pharmaceutical Sales. Service Representative, Technical Writer, Inspector (food or drug), Laboratory Assistant, Technician, Teacher - high school.


Updated: Summer, 2013
Description of Major

In Chemical Science/FSU-Teach, students will develop a broad and conceptual understanding of chemistry and biochemistry, as well as the knowledge, skill, and experience needed to be an effective math teacher. The program will pay for tuition for the first two Education/Teaching courses. Work study positions with scientists, mathematicians and local schools are available. For more information, see our Web site, http://fsu-teach.fsu.edu/.

FSU-Teach majors are first admitted into their primary, discipline-specific major and must meet the state-wide common program prerequisites for that major, in this case, Chemical Science (FSU Teach). Later, students apply for admission into a secondary major within the College of Education called Science Teaching/FSU Teach. Upon graduation, students are awarded the B.S. degree with majors in Chemical Science and Science Teaching.

Prerequisite Coursework: 0 beyond other requirements.

The following are required in preparation for the upper division major. Contact the department for information on acceptable substitutes. All may also apply toward Liberal Studies, major and/or collateral requirements.

- CHM X045, X045L (3,1) General Chemistry I and Lab
- CHM X046, X046L (3,1) General Chemistry II and Lab
- CHM X210, X210L (3,1) Organic Chemistry I and Lab
- CHM X211, X211L (3,1) Org. Chem. II and Lab (CHM 2211L is 3 credits at FSU)
- MAC X311 (4) Calculus with Analytic Geometry I
- * SMT X043 (1) Step 1: Inquiry Approaches to Teaching
- * SMT X053 (1) Step 2: Inquiry-Based Lesson Design

* Transfer students will be able to take SMT X043 and SMT X053 while enrolled at FSU.

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Sciences requires proficiency in a foreign language through the intermediate (2200 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Progress in this major and formal admission to FSU-Teach and Teacher Education.

FSU native and transfer students will progress to upper-division (junior) status in the College of Arts and Sciences in the same manner as other Chemical Science majors: an AA degree or 52 earned credits (including at least half of the general education requirement, including English composition and mathematics), at least a 2.5 GPA, and completion of appropriate milestones. To be recognized as “formally admitted” into this major, students must meet the following requirements: 1) certification to upper division (or transfer admission into Mathematics as a junior); 2) completion of Liberal Studies or an AA; 3) satisfactory completion of “Step 1” and “Step 2” courses; 4) a cumulative GPA of at least a 2.5; 5) completion of all of the common prerequisite courses for the Mathematics major; and 6) a passing score on all four parts of the FTCE General Knowledge Test. Once these are complete, the student must complete an “Undergraduate Application to Teacher Education” in 2301 Stone Building, at which time the second major in Education will be added.
Departmental policy on grades and progress in the major.
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 two unsatisfactory grades (U, F, D-, D, D+) in the following courses, taken at Florida State University or elsewhere, including repeated unsatisfactory grades in the same course, will not be permitted to graduate with a degree offered by the Department of Chemistry and Biochemistry: CHM 1045, CHM 1045L, CHM 1046, CHM 1046L, CHM 2210, MAC 1105, MAC 1114, MAC 1140, MAC 2311.

A student who has received more than five unsatisfactory grades (U, F, D-, D, D+) in all science or mathematics courses (and their prerequisites) required for any major offered by the Department of Chemistry and Biochemistry, taken at FSU or elsewhere, including repeated unsatisfactory grades in the same required, will not be permitted to graduate with a degree in that major.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 78 hours.
Required Courses for the Chemical Science Major: at least 49 hours
Required Chemistry Courses (37 hours minimum)
CHM 1045, 1045L (3, 1) or CHM 1050, 1050L (3.1) General Chemistry I, Lab
CHM 1046, 1046L (3, 1) or CHM 1051, 1051L (3.2) General Chemistry II, Lab
CHM 2210 (3) Organic Chemistry I
CHM 2211, CHM 2211L (3, 3) Organic Chemistry II, Lab
CHM 3120, 3120L (3, 1) Analytical Chemistry I, Lab
CHM 3400 (4) Survey of Physical Chemistry or both CHM 4410 (3) and CHM 4411 (3) Physical Chem I, II
CHM 4610 (3) Inorganic Chemistry
BCH 3023C (3) Survey of Biochemistry or BCH 4053 (3) Biochemistry I
ISC 3067 (3) Science, Technology and Society: Research Methods
One of the following
CHM 4130 (3) Advanced Analytical Chemistry
CHM 4080 (3) Environmental Chemistry I
CHM 4905 (3) Directed Individual Study
CHM 4906 (1-6) Honors Research, for a total of at least 3 credits
Required Collateral Courses (12 to 14 hours)
MAC 2311 (4) Calculus I
PHY 2053C (4) College Physics A with Lab or PHY 2048C (5) General Physics I with Lab
PHY 2054C (4) College Physics B with Lab or PHY 2049C (5) General Physics II with Lab

Required courses for the Education major: 29 hours
SMT 1043 (1) Step 1: Inquiry Approaches to Teaching
SMT 1053 (1) Step 2: Inquiry-Based Lesson Design
HIS 3505 (3) Perspectives on Science and Mathematics
ISC 3523C (3) Research Methods
RED 4335 (3) Content Area Reading for Secondary School Teachers
SMT 3100 (3) Knowing and Learning
SMT 4301 (3) Classroom Interactions
SMT 4664 (3) Project Based Instruction
SMT 4945 (6) Apprentice Teaching
TSL 4324 (3) ESOL Instruction in the Content Area

Computer Skills Competency: 0 hours beyond other requirements. CHM 3120L or ISC 3523C satisfies this requirement.

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. SMT 4664 will satisfy this requirement.

**Minimum Program Requirements -Summary**

- Total Hrs. Required 120
- Liberal Studies 36*
- Prerequisite Coursework 0 beyond other requirements*
- Major Coursework 78
- Foreign Language 0-12 (depending on placement)
- Computer Skills 0 beyond prerequisites
- Oral Competency 0-3
- Electives to bring total hours to 120

*Prerequisite coursework may also be used to satisfy general education and major requirements.

**Remarks:**

1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. All 3000 and 4000 level chemistry and biochemistry courses must be taken at FSU.
5. Students with five or more grades below C- in required courses or their prerequisites, including transfer courses, will be dropped from the program.

**Employment Information**

- Representative Job Titles Related to this Major: Middle school or high school teacher of chemistry. Students may also pursue graduate school and career options related to the traditional Chemical Science major.

- Representative Employers: Public and private schools; research facilities; medical facilities; private industry.

Updated: Summer, 2013
CHEMISTRY (including Environmental Chemistry)

College: Arts and Sciences
Degree: B. S. or B. A.
Limited Access: NO
Contact: Ms. Elizabeth Kistner (jr/sr)
Ms. Abby Rhodes (fr/soph)
Address: 310/312 DLC (Kistner)
310/312 DLC (Rhodes)
Tallahassee, FL 32306-4390
Phone: 850.644.6004 (Kistner); 850.644.8434 (Rhodes)
E-Mail: ekistner@chem.fsu.edu ; arrhodes@fsu.edu

Note to prospective transfer students. Prospective transfer students should contact Ms. Shellie Camp, scamp@fsu.edu or 850.645.7156, with specific questions about admission and mapping requirements.

Description of Major
Chemistry is a science that deals with the composition, structure, reactivity and properties of substances and of the transformations they undergo. Chemists perform experiments, conduct research, investigate and analyze techniques for basic scientific purposes, and develop new and improved products. Discoveries have sometimes resulted in the creation of entirely new industries: for example, the polymers and synthetic textile fibers industries, and more recently nanotechnology. Many chemists specialize in the product or process of a particular industry, such as agriculture, food, petroleum, plastics and rubber. The department offers instruction leading to the baccalaureate degree in Chemistry or Environmental Chemistry (including the American Chemical Society certification) for students planning either careers in the chemical industry or graduate work.

Prerequisite Coursework: 0 beyond other requirements
The following are required in preparation for the upper division major. All may also apply toward Liberal Studies, major, and/or collateral coursework.
CHM X045, X045L (3, 1) General Chemistry I and lab
CHM X046, X046L (3, 1) General Chemistry II and lab
CHM X210, X210L (3, 1) Organic Chemistry I and Lab
CHM X211, X211L (3, 1) Organic Chemistry II with Lab (CHM 2211L is 3 credits at FSU)
PHY X048C (4) General Physics A with Lab (5 credits at FSU)
PHY X049C (4) General Physics B with Lab (5 credits at FSU)
MAC X311 (4) Calculus I
MAC X312 (4) Calculus II

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Requirements for Progression to the Upper-Division Major
Students must complete at least 52 hours of credit with a minimum grade point average of 2.0, at least half the required Liberal Studies hours including English and mathematics, or an A.A. Degree.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their major. You may view the map for this major at www.academic-guide.fsu.edu/.

Departmental policy on grades and progress in the major.
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 two unsatisfactory grades (U, F, D-, D, D+) in the following courses, taken at Florida State University or elsewhere, including repeated unsatisfactory grades in the same course, will not be permitted to graduate with a degree offered by the Department of Chemistry and Biochemistry: CHM 1045, CHM 1045L, CHM 1046, CHM 1046L, CHM 2210, MAC 1105, MAC 1114, MAC 1140, MAC 2311.

A student who has received more than five unsatisfactory grades (U, F, D-, D, D+) in all science or mathematics courses (and their prerequisites) required for any major offered by the Department of Chemistry and Biochemistry, taken at FSU or elsewhere, including repeated unsatisfactory grades in the same required, will not be permitted to graduate with a degree in that major.

Major Program of Studies at FSU: 61 to 73 hours

Chemistry Track (61-62 hours)
Chemistry Courses (38-39 hours)
CHM 1045, 1045L (3, 1) or 1050, 1050L (3, 1) General Chemistry I and Lab
CHM 1046, 1046L (3, 1) or 1051, 1051L (3, 2) General Chemistry II and Lab
CHM 2210 (3) Organic Chemistry I
CHM 2211 (3) Organic Chemistry II
CHM 2211L (3) Organic Chemistry II Lab
CHM 3120, 3120L (3, 1) Analytical Chemistry I and Lab
CHM 4130, 4130L (3, 1) Advanced Analytical Chemistry and Lab
CHM 4410 (3) Physical Chemistry I
CHM 4410L (1) Physicochemical Measurements & Techniques I
CHM 4411 (3) Physical Chemistry II
CHM 4411L (2) Physicochemical Measurements & Techniques II
CHM 4610 (3) Inorganic Chemistry
CHM 4610L (1) Inorganic Chemistry Lab
Collateral Courses (23 hours).
The chemistry major requires completion of all of the courses listed below. These courses may also be used to satisfy Liberal Studies or the minor. If not, they must be taken in addition to other requirements.
PHY 2048C (5) General Physics A (Calculus based)
PHY 2049C (5) General Physics B (Calculus based)
MAC 2311 (4) Calculus with Analytic Geometry I
MAC 2312 (4) Calculus with Analytic Geometry II
MAC 2313 (5) Calculus with Analytic Geometry III

Environmental Chemistry Track (70-73 hours)
All of the courses listed above are required for this track with the exception of CHM 4610 and 4610L. Instead of those courses, students take the following:
Basic Science Courses (7 hours).
Select one of the following sequences.
GLY 2010C (4) Physical Geology and GLY 2100 (3) Historical Geology
BSC 2010 (3) Bio. Science I and BSC 2011 (3) Bio. Science II and either BSC 2010L (1) or BSC 2011L (1)
Select two advanced courses (6-8) in Chemistry of the Environment, to be chosen from an approved list.

American Chemical Society Certified Program (optional). Students from either track may satisfy the requirements of this program by completing the courses as indicated.
Chemistry Track: BCH 4053 (3) General Biochemistry I and one course from an approved list (contact advisor).
Environmental Chemistry: CHM 4610/4610L (3/1) Inorganic Chemistry/Lab and BCH 4053 (3) General Biochemistry I.

Computer Skills Competency: 0 hours beyond major. CHM 3120L.

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36*
Prerequisites 0 beyond other requirements
Major Coursework 61-73
Minor Coursework 0*
Foreign Language 0-12 (depending on placement)
Computer Skills 0 beyond major
Oral Communication Competency 0-3
Electives to bring total hours to 120

*Some coursework required for the major may also be applied towards Liberal Studies and/or minor requirements.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University. (Note: calculus, organic chemistry and physics courses apply toward meeting this requirement.)
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. All 3000 and 4000 level chemistry and biochemistry courses must be taken at FSU.
5. The B. A. Degree requires an additional 9 hours in the fields of history and humanities beyond Liberal Studies.
6. Students with more than five grades below “C-” in required courses or their prerequisites, including transfer courses, will be dropped from the program.

Employment Information
Representative Job Titles Related to this Major: Chemist - analytic, polymer, organic, food, textile petroleum, water purification, inorganic, physical, pollution control; Sales representative, physical, veterinarian, Writer: technical/scientific, Biochemist, Association Chemist, Pharmacologist, Teacher, Radio chemist, Chemist, Dentist, Crime-lab analyst, Industrial Health Engineer, Agricultural Professor, Consumer Safety Officer.

Representative Employers: Manufacturing & processing firms, Pharmaceutical manufacturers, Utilities companies, Professional & technical Journals, mining petroleum companies, Chemical Industries, Schools, colleges, and universities, medical laboratories, hospitals, business corporations, Governmental agencies - local, state, federal.

Updated: Summer, 2013
CLASSICS
Classical Archaeology, Classical Civilization, Classics and Religion, Greek, Latin, Latin and Greek
College: Arts and Sciences
Degree: B. A.
Limited Access: NO
Contact: Dr. Trevor S. Luke
Address: Department of Classics, FSU
          Tallahassee, FL 32306-1510
Phone: (850) 645-0436
E-Mail: tluke@fsu.edu

Description of Major
The Department of Classical Languages, Literature, and Civilization offers major programs in Classical Archaeology, Classical Civilization, Greek, Latin, and Latin-Greek. Emphasis in all courses is on critical thinking and analysis coupled with effective speaking and writing skills. Students who major in Classics regularly pursue careers in business, education, government, law, and other fields that require a broad liberal arts background. A joint major in Classics and Religion is also offered.

Prerequisite Coursework:
Six to twelve semester hours of an approved language or demonstration of proficiency by testing or completion of intermediate level is required. It is recommended that the lower-level courses be taken during the freshman and sophomore years.

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Requirements for Progression to the Upper-Division Major
Students must complete at least 52 hours of credit with a minimum grade point average of 2.0, at least half the required Liberal Studies hours including English and mathematics, or an A.A. Degree.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 24 to 45 hours, depending on option selected
All Latin and Greek language courses are in addition to the University’s foreign language requirement. Choose one of the following major emphases. Coursework must be completed with grades of C or higher.
Classics Program A: Latin and Greek (30 hours)
Thirty hours in Latin and Greek, chosen in consultation with the departmental advisor. At least 12 hours are required in each language. The student must take 4000 level courses in at least one of the languages.
Classics Program B: Classical Civilization (30 hours)
Thirty hours in Classical Civilization, Greek, or Latin. All work may be done in English translation, but language courses are strongly recommended as part of the program. Special emphasis may be placed on Classical Archeology, History or Literature, or the major may be in general Classical Civilization.
Classical Archaeology (30 hours)
Fifteen hours in Classical Archaeology courses, twelve hours in Latin or Greek (in addition to the foreign language requirement) and three hours in Classics. Classical Archaeology courses must include ARH 3130, ARH 3150 and three of the following advanced archaeology courses: ARH 4110, 4118, 4120, 4131, 4151, and 4173.
Latin (24 hours)
Twenty-four hours in Latin above the 1000 level. Two courses at the 3000 level are required, including LNW 3211 and 4340r, along with six additional hours at the 4000 level.
Greek (30 hours)
Thirty hours in Greek. This program will normally include GRE 1120 and 1121.
Joint Major in Classics and Religion (45 hours)
Twenty seven hours in Classics and eighteen hours in Religion are required, chosen in consultation with the departmental
advisor. At least twelve hours at the 3000 or 4000 level in Classics courses with prefixes of ARH, ASH, CLA, CLT are required.
At least third-semester competency in Greek or Latin must be demonstrated. No more than eighteen hours of coursework in
Greek and Latin may count toward the major. Of the eighteen hours in Religion, at least six but no more than twelve must be in
the area of western antiquity.

Minor: Classics majors must complete 12 hours in an approved minor field or 15 hours in an approved interdepartmental
minor. Classics and Religion majors do not need a minor.

Computer Skills Competency: 3 hours. CGS 2060 (3), CGS 2100 (3), or ISC 3313 (3).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through
appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36
Major Coursework 24-45
Minor Coursework 0-12
Foreign Language 0-12 (depending on placement)
Computer Skills 3
Oral Communication Competency 0-3
Electives to bring total hours to 120

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Archaeologist, Historian, Artifact Conservator, Museum Technician, Archivist,
Attorney (after Law Degree), Librarian, Teacher: High School, Community College, University; Museum Curator, Journalist,
Editor, Minister (after Theological Training), physician (after medical school), Salesperson.

Representative Employers: Publishing Houses, Libraries, Museums, School Boards, Colleges, Newspapers, Research
Organizations, Banks, Corporations, Insurance Companies, Government Agencies: U.S. Information Agency, Department of
State, Department of Interior, Park Service, Department of Agriculture, Forest Service, National Security Agency, C.I.A.

Updated: Summer, 2013
COMMUNICATION
ADVERTISING, PUBLIC RELATIONS
College: Communication and Information
Degree: B. A. or B. S.
Limited Access: YES
Contact: CCI Advising Center
Address: 4115 University Center, Bldg C
Tallahassee, FL 32306-2651
Phone: 850-644-7278
E-Mail Advising@cci.fsu.edu
Website: http://www.comm.cci.fsu.edu/

Description of Major
The goal of the School of Communication is to provide a broad-based set of intellectual and communication skills which prepare one for a career in the communication field. While some majors are professionally oriented and others stress theory and a liberal education, each gives the student a broad understanding of fundamental communication processes and also provides flexibility to tailor coursework around individual student needs. 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. Note: Specific information related to this interest area is subject to change. Please check with the School of Communication prior to submitting your application.

Prerequisite Coursework:
18 hours outside the major and beyond Liberal Studies.
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Upper-Division Major
The School of Communication is a limited access program, restricted by both total numbers of students in each major and minimum grade point average required for application. Each major operates with a different enrollment cap. Achievement of the minimum application GPA does not guarantee admission to a communication major; all admissions are competitive. Admission criteria are available from the School. An application package must be completed and submitted to the School of Communication, see http://www.comm.cci.fsu.edu/. Minimum requirements for review of application include: an overall GPA of 3.0 on all college coursework attempted; completed application package submitted to the School of Communication on or before the first business day in February for each year; and transcripts from all colleges and universities attended. Students must have completed 52 hours of college coursework by the end of the semester of application. Applicants are encouraged to enroll in a foreign language, computing statistics, speaking, and writing courses. Acceptance by a faculty committee will be based on a review of the application and transcript, and other relevant materials in light of the published admissions criteria. By the end of the spring semester in which the student is applying for admission, s/he must successfully complete two Liberal Studies English courses and two Liberal Studies math courses as accepted by FSU.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 39 hours
39 hours are required to complete the major. No grade below a C- will be accepted for any major course. Maintenance of a 3.0 cumulative GPA is required. The School of Communication reserves the right to refuse admission or discontinue enrollment of any student at any time, if, in the judgment of the faculty, the student does not meet departmental or major standards.

Advertising and Public Relations Core courses (15 hours):
ADV 3008 (3) Principles of Advertising
ADV 3352 (3) Mass Media Law
PUR 3000 (3) Introduction to Public Relations
COM 3110 (3) Communication for Business and the Professions
ADV 4500 (3) Advertising Research

Emphasis Area (12-13 hours).
Students complete either the Advertising or Public Relations area requirements:

**Advertising (12 hours)**
- ADV 3001 (3) Creative Strategy I
- ADV 4800 (3) Creative Strategy II
- ADV 4300 (3) Media Planning
- COM 4470 (3) Desktop Multimedia

**Public Relations (13 hours)**
- PUR 3100 (3) Writing for Public Relations
- PUR 3002 (3) Public Relations Techniques
- PUR 3930 (1) Public Relations Pro-seminar
- PUR 4600 (3) Public Relations Management: Cases and Campaign Strategies
- SPC 4605 (3) The Principles of Speechwriting

**Internship** (6-9 hours)
Students are required to enroll in a minimum of six hours of internship (COM 4945r for advertising majors; PUR 4940r for public relations majors), but a maximum of nine hours may be credited toward the Advertising or Public Relations major.

**Electives** in the major to bring the total major coursework hours to a minimum of 39.

**Minor coursework:** 12 hours or more.
All work must be in a department other than Communication, with the exception of a minor in Hispanic Marketing Communication. All work counted toward the minor must be C- or higher. Suggested minors include: Business, Psychology, English, Journalism (FAMU), Political Science, and others depending on career objectives. Check with the minor department for specific requirements.

**Language requirement.**
Students formally admitted into any program in the School of Communication must achieve proficiency in one language other than English prior to graduation. Students may fulfill this requirement through: modern/classical language, or business language. Students may satisfy this requirement through testing or by taking courses. For students admitted for Fall 2012 and later, S-U grading if modern language courses is acceptable; business language courses must be taken for a letter grade. See the University Bulletin or contact the department for more information.

**Computer Skills Competency:** 0-3 beyond major requirements. CGS 2060 (3), CGS 2100 (3) or COM 4470 (3).

**Oral Communication Competency:** 0 beyond major requirements
Students must demonstrate the ability to orally transmit ideas and information clearly. COM 3110 is required for this major and will meet this requirement.

**Minimum Program Requirements - Summary**
- Total Hrs. Required 120
- Liberal Studies 36
- Major Coursework 39
- Minor Coursework 12 or more
- Language Requirement 0-12 (depending on language placement)
- Computer Skills Competency 0-3
- Oral Communication Competency 0 beyond major coursework
- Electives to bring total credits to 120

**Remarks:**
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. The B. A. degree requires a foreign language through the intermediate (2200) level or equivalent

**Employment Information**
Representative Job Titles Related to this Major: Layout Coordinator, Benefits Manager, Lobbyist, Account Manager, Employee Service/Welfare Manager, Public Relations Manager, Creative Director, Fundraiser, Marketing Researcher/Analyst, Labor Relations Consultant, Media Relations Coordinator, Production Department Assistant, Marketing Researcher, Promotions Worker, Project Manager, Personnel Manager, Special Events Coordinator, Promotional Manager, Publicity Director, Writer.

Updated: Summer, 2013
COMMUNICATION
MEDIA/COMMUNICATION STUDIES
College: Communication and Information
Degree: B. A. or B. S.
Limited Access: YES
Contact: CCI Advising Center
Address: 4115 University Center, Bldg C
Tallahassee, FL 32306-2651
Phone: 850-644-7278
E-Mail Advising@cci.fsu.edu
Website: http://www.comm.cci.fsu.edu/

Description of Major
Students in Media/Communication Studies will gain a solid liberal education highlighting media studies and human communication. Courses include the study of the history, evolution and the changing state of mass media, communication technologies, and techniques in mass media production. Students will develop an understanding for the economic and social effects of media, including legal and ethical issues. Students in these emphasis areas may pursue careers in media such as broadcasting, cable, advertising, video production, information technologies, as well as preparation for graduate study and professions in law, ministry, politics, lobbying, speech writing, and management.

Prerequisites Coursework:
18 hours outside the major and beyond Liberal Studies
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Upper-Division Major
The School of Communication is a limited access program, restricted by both total numbers of students in each major and minimum grade point average required for application. Each major operates with a different enrollment cap. Achievement of the minimum application GPA does not guarantee admission to a communication major; all admissions are competitive. Admission criteria are available from the School. An application package must be completed and submitted to the School of Communication, see http://www.comm.cci.fsu.edu/. Minimum requirements for admission into this major include: an overall GPA of 3.0 on all college coursework attempted; a completed application submitted to the School of Communication on or before the first business day in February for each year; and transcripts from all colleges and universities attended. Students must have completed 52 hours of college coursework at the end of the semester of application. Acceptance by a faculty committee will be based on a review of the application and transcript. By the end of the spring semester in which the student is applying for admission, s/he must successfully complete two Liberal Studies English courses and two Liberal Studies math courses as accepted by FSU.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 33 hours
No grade below a C- will be accepted for any course in the major. Maintenance of a 3.0 cumulative GPA is required. The School of Communication reserves the right to refuse admission or discontinue enrollment of any student at any time, if, in the judgment of the faculty, the student does not meet departmental or major standards.

Four core courses (12 hours)
MMC 2000 (3) Introduction to the Mass Media
RTV 3001 (3) Media Techniques
SPC 2608 (3) Public Speaking
SPC 3210 (3) Contemporary Human Communication

Advanced courses (12 hours)
Students select four (4) courses from the approved list
Application/activity courses (9 hours)
Students are required to complete 9 hours from the approved list of application/activity courses.
Language Requirement.
Students formally admitted into any program in the School of Communication must achieve proficiency in one language other than English prior to graduation. Students may fulfill this requirement through a modern, classical, or business language. For students admitted for Fall 2012 or later, S-U grading of modern language courses is acceptable; business language courses must be taken for a letter grade. See the University Bulletin or contact the School of Communications for details (http://www.comm.cci.fsu.edu/).

Minor Coursework: 12 or more
Media/Communication Studies majors must fulfill the minor requirement in one department outside Communication, with the exception of a minor in Hispanic Marketing. Students should contact the minor department for specific requirements. All work counted toward the minor must carry a grade of C- or higher. Recommended minors include: English, History, Political Science, Psychology, Journalism (at FAMU), Sociology, Criminology, Women’s Studies, and British Studies (London Program).

Computer Skills Competency: 3 hours. CGS 2060 (3), CGS 2100 (3), or COM 4470 (3).

Oral Communication Competency: 0 hours beyond major requirements.
Students must demonstrate the ability to orally transmit ideas and information clearly. SPC 2608 is required for this major and also satisfies this requirement.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36
Major Coursework 33
Minor Coursework 12 or more
Language Requirement 0-12 (depending on placement)
Computer Skills 3
Oral Communication Competency 0 beyond major coursework
Electives to bring total hours to 120

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. The B. A. degree requires a foreign language through the intermediate (2200) level or equivalent.

Employment Information
Students graduating in this major should have a solid liberal education with emphasis in speech communication. Degrees in this major are applicable to a number of fields including law, ministry, speech writing, management, lobbying, sales.

Updated: Summer, 2013
COMMUNICATION
MEDIA PRODUCTION
College: Communication and Information
Degree: B. A. or B. S.
Limited Access: YES
Contact: CCI Advising Center
Address: 4115 University Center, Bldg C
          Tallahassee, FL 32306-2651
Phone: 850-644-7278
E-Mail Advising@cci.fsu.edu
Website: http://www.comm.cci.fsu.edu/

Description of Major
The Media Production major exposes 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. This major will impart such skills as writing for the media, audience research, computing, announcing, video production, video editing, and developing media plans. A limited number of students are accepted annually. Note: Specific information related to this interest area is subject to change. Please check with the School of Communication prior to submitting your application.

Prerequisite Coursework:
18 hours outside major coursework and beyond Liberal Studies.
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Upper-Division Major
The School of Communication is a limited access program, restricted by both total numbers of students in each major and minimum grade point average required for application. Each major operates with a different enrollment cap. Achievement of the minimum application GPA does not guarantee admission to a communication major; all admissions are competitive. Admission criteria are available from the School. An application package must be completed and submitted to the School of Communication, see http://www.comm.cci.fsu.edu/. Minimum requirements for review of application include: an overall GPA of 3.0 on all college coursework attempted; completed application submitted to the School of Communication on or before the first business day in February for each year and transcripts from all colleges and universities attended. Students must have completed 52 hours of college coursework by the end of the semester of application. Acceptance by a faculty committee will be based on a review of the application and transcript, and other relevant materials in light of the published admissions criteria. By the end of the spring semester in which the student is applying for admission, s/he must successfully complete two Liberal Studies English courses and two Liberal Studies math courses as accepted by FSU.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. View the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 39 hours
No grade below a C- will be accepted for any course in the major. Maintenance of a 3.0 cumulative GPA is required. The School of Communication reserves the right to refuse admission or discontinue enrollment of any student at any time, if, in the judgment of the faculty, the student does not meet departmental or major standards.
Foundation courses (12 hours)
MMC 2000 (3) Introduction to the Mass Media
RTV 3001 (3) Media Techniques
SPC 2608 (3) Public Speaking
SPC 3210 (3) Contemporary Human Communication
Advanced courses (6 hours)
Students select two courses (6 hrs) from the list of approved courses
Production courses (12 hours)
RTV 3310 (3) Narrative Writing for Television and Film
RTV 3260 (3) Single-Camera Video Production
RTV 3263 (3) Video Post-Production
RTV 3228 (3) Multiple-Camera Production

Advanced production courses (6 hours)
Students select two courses (6 hrs) from the list of approved courses

Application/activity courses (3 hours)
Students complete 3 hours selected from the list of approved application/activity list

Language Requirement.
Students formally admitted into any program in the School of Communication must achieve proficiency in one language other than English prior to graduation. Students may fulfill this requirement through a modern, classical, or business language. For students admitted for Fall 2012 and later, S-U grading of modern language courses is acceptable; business language courses must be taken for a letter grade. See the University Bulletin or contact the School of Communication for details (www.comm.cci.fsu.edu).

Minor Coursework: 12 hours or more.
Majors must fulfill minor requirements in one departmental field outside Communication, with the exception of a minor in Hispanic Marketing. Students should check with minor department for specific requirements. Recommended minors include: Business, English, Political Science, Psychology, Journalism (at FAMU), Sociology, Criminology, History, and British Studies (London Program).

Computer Skills Competency: 3 hours. CGS 2060 (3), CGS 2100 (3), or COM 4470 (3).

Oral Communication Competency: 0 beyond major requirements.
Students must demonstrate the ability to orally transmit ideas and information clearly. SPC 2608 is required for this major and also satisfies this requirement.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36
Major Coursework 39
Minor Coursework 12 or more
Language Requirement 0-12
Computer Skills 3
Oral Communication Competency 0 beyond major requirements
Electives to bring total credits to 120

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. The B. A. degree requires a foreign language through the intermediate (2200) level or equivalent.

Employment Information
Representative Job Titles Related to this Major: Audiovisual Production Specialist, Critic, Programmer, Public Relations Manager, Announcer/Commentator, Director of Photography, Cable Programmer, Video Editor, Interviewer, Marketing Manager, Advertising Manager, Media Market Researcher, Media Researcher, Media Buyer, Media Analyst.

Representative Employers: Advertising Agencies, Government Organizations, Independent Production Companies, News and Information Offices, Photo Agencies, Television/Cable TV, Universities, Video Production Companies, Radio.

Updated: Summer, 2013
Description of Major

The basic mission of the School of Communication Science & Disorders is to prepare speech-language pathologists and audiologists to provide clinical services to individuals with speech, language, and hearing impairments. The curriculum leading to the baccalaureate degree offers liberal arts education in human communication and its disorders. Students learn about 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; and strategies used in the management and evaluation of speech, language and hearing impairments. The baccalaureate degree also offers pre-professional education for graduate programs in Speech-Language Pathology and Audiology. The major professional educational and clinical experiences occur during graduate studies leading to the master's degree in speech-language pathology or the clinical doctorate in audiology, which are the minimum educational level for entrance into the profession. Most states license speech-language pathologists and audiologists. In addition to practicing directly with persons having disorders, some professionals pursue research, teach, or enter into administration of programs and agencies in the field. This field has a shortage of personnel.

Prerequisite Coursework: 12 hours

These courses may also be used to meet Liberal Studies/general education requirements.
- Physical science (3). One course from: PHY XXXX, CHM XXXX, or PSC XXXX
- Biological science (3). One course from: BSC XXXX, APK XXXX, or ANT X511
- Statistics (3). STA XXXX
- Social/behavioral sciences (3). One course from any of the following: PSY XXXX, CLP XXXX, DEP XXXX, EXP XXXX, SYG XXXX, SYD XXXX, SYO XXXX, SYP XXXX, FYC XXXX, or FAD XXXX.

Students without all of the above will be considered for admission into the program. However, all of these courses should be completed prior to completion of the degree, as they are required by the accreditation body (ASHA).

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Upper-Division Major

Students are admitted into this major for the summer or fall term; however, the sequence of major courses begins in the fall. Admission to the University does not ensure admission to the School, nor does attainment of the minimum grade point average, as this is a limited access/limited enrollment program. Formal application to the department is required of all entering majors. Please visit the department website, http://commdisorders.cci.fsu.edu/, regarding the application process and deadlines.

Minimum requirements for review of application include an overall GPA of 3.0 on all college work attempted; successful applicants often have much higher GPAs. Students must have all Liberal Studies (general education) coursework, Gordon Rule coursework, and a minimum of 52 hours (acceptable to FSU) completed by the end of the term in which they apply.

Mapping

Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program (Undergraduate) of Studies at FSU: 42 hours

To qualify for graduation from the major, all undergraduates in Communication Science and Disorders must earn a grade of “C-” or better for each required major course. Students are expected to maintain a 3.0 GPA in major coursework.

SPA 2001 (3) Communication Science and Disorders
SPA 4004 (4) Normal Communication Development
SPA 4011C (4) Acoustics for Speech and Hearing
SPA 4101C (4) Anatomy and Physiology of the Speech Mechanism
SPA 4104 (3) Neurological Bases of Communication
SPA 4112 (4) Clinical Phonetics
SPA 4255 (3) Developmental Communication Disorders
SPA 4257 (3) Acquired Communication Disorders
SPA 4302 (3) Introduction to Clinical Audiology
SPA 4302L (1) Introduction to Clinical Audiology Laboratory
SPA 4321 (3) Aural Rehabilitation I
SPA 4056 (3) Clinical Methods
SPA 4800 (3) Research Evaluation
SPA 4930 (1) Undergraduate Seminar in Clinical Observation

Graduate Program: 60+ hours
A master's degree or clinical doctorate is required to qualify to be certified and licensed in Speech-Language Pathology and Audiology, respectively. Students are therefore encouraged to continue their studies. However, completion of the baccalaureate degree does not guarantee admission into a graduate program. Consult an advisor for details of program requirements or see the information about the School’s Speech-Language Pathology master’s programs at http://commdisorders.cci.fsu.edu/.

Minor/Certification. A minor is not required.
Although it is not a requirement of the major, students may elect to pursue teacher certification in the area of Speech-Language Impaired. This may be accomplished at the graduate level by being formally admitted to Teacher Education through the Office of Student Services, Room 2301 Stone Building. This procedure is administered by the Dean of the College of Education and is distinct from admission to the School of Communication Science and Disorders. Teacher certification in the area of Speech-Language Impaired requires completion of a master's degree in Communication Science and Disorders. Students may also apply directly to the State Department of Education for teacher certification in the area of Speech-Language Impaired if they have completed the required teacher education course work and have completed the master’s degree.

Additionally, the School offers a certificate in Developmental Disabilities; please see http://commdisorders.cci.fsu.edu/ for more information.

Language requirement: 0-12 hours
Students formally admitted into the Communication Science and Disorders major must achieve proficiency in a language other than English prior to graduation. Students may fulfill this requirement either by demonstrating proficiency at the intermediate (2000) level in a modern or classical language or at the advanced level in American Sign Language (ASL 2160C). Students may satisfy this requirement either by proficiency testing or by taking coursework. All courses taken to meet this requirement must be taken for a letter grade; S-U grading will not be accepted. Contact the department for details.

Computer Skills Competency: 3 hours. CGS 2060 (3) or CGS 2100 (3).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required, B. S. or B. A. 120.
Liberal Studies 36*
Prerequisite Courses 12*
Major Coursework, B.S. 42
Minor Coursework 0
Language Requirement 0-12 (depending on testing/placement)
Computer Skills 3
Oral Communication Competency 0-3
Electives to bring total credits to 120
*Prerequisite coursework may also be used to meet Liberal Studies requirements. Contact the Advising Center at (850) 644-7278.
Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. The B. A. degree requires completion of a foreign language through the intermediate (2200) level and 9 additional hours in the fields of history and humanities beyond liberal studies.

Employment Information
Representative Job Titles Related to this Major (M.S., M.A., or AuD degree): Audiologist, Consultant (Speech/Hearing Disorders), Speech-Language Pathologist, Clinician (Speech/Hearing), Researcher, Therapist (Speech and Hearing).

Representative Employers: Hospitals, Community Health Centers, Public Schools, Private Practice, Business and Industry (limited), Universities, Vocational Rehabilitation Agencies.

Updated: Summer, 2013
COMPUTATIONAL BIOLOGY
College:   Arts and Sciences  
Degree:   B.S.  
Limited Access:  NO  
Contacts:  Biology:   Dennis Hutchinson  
Computer Science:  Esther Diaguila  
Address:  Bio:  1067 Life Science; Tallahassee, FL 32306-1000  
C.S.:  203C Love Bldg.; Tallahassee, FL 32306-4530  
Phone:  Bio:  (850) 644-3099  
C.S.:  (850) 644-8700  
E-Mail:  Bio:  dhutchison@bio.fsu.edu  
C.S.:  advisor@cs.fsu.edu

Description of Major
Computational biology is a new and promising field of study. The purpose of this interdisciplinary major is to provide a top-notch educational program for students interested in the areas of computational biology and bioinformatics. The program seeks to achieve two goals: 1) to develop an understanding of the issues associated with developing biologically meaningful computational models, and 2) to give students the broad-based education that is needed to create a set of models directed towards solving a practical biomedical problem. This major is offered through both the Biological Science and Computer Science departments.

Prerequisite Coursework:
BSC X010 (3,) General Biology I or equivalent  
BSC X011 (3) General Biology I or equivalent  
CHM X045, X045L (3, 1) General Chemistry I & Lab or equivalent  
CHM X046, X046L (3, 1) General Chemistry II & Lab  
PHY X053, X053L (4) or PHY X048, X048L (4) College or General Physics A with lab  
PHY X054, X054L (4) or PHY X049, X049L (4) College or General Physics B with lab  
MAC X311 (4) Calculus I  
MAC X312 (4) Calculus II  
Interested students are encouraged to contact the participating departments regarding completion of these courses.

Strongly recommended:  Students interested in this major are encouraged to complete an introductory programming course in C++ or equivalent during their freshman/sophomore years.

Note:  State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Requirements for Progression to the Upper-Division Major
Students must complete at least 52 semester hours of credit with a minimum grade point average of 2.0, at least half the required Liberal Studies hours including English and mathematics, or an A.A. Degree.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. View the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU:  43 hours
All courses applicable to the major must be completed with a grade of C- or better.
Required Biological Science Courses (15 hours)
BSC 2010 (3) Biological Science I  
BSC 2011 (3) Biological Science II
PCB 3063 (3) Genetics
PCB 4674 (3) Evolution
Three (3) additional hours of biological science courses selected from: BOT 4394, BSC 2010L, BSC 2011L, BSC 4613, BSC 4900, MCB 4403/L, PCB 3134, PCB 3743, PCB 4024, PCB 4233, PCB 4253, and PCB 4843.

Required Computer Science Courses (16 hours)
COP 3014 (3) Programming I
COP 3353 (1) Introduction to UNIX
COP 3330 (3) Object-Oriented Programming
CDA 3100 (3) Computer Organization I
COP 4530 (3) Data Structures, Algorithms, and Genetic Programming
Three (3) additional hours chosen from: CDA 3101, CIS 4900, COP 4531, COP 4710, COT 4420, and CIS 4900.

Required Computational Science Courses (6 hours)
ISC 4933 (3) Introduction to Bioinformatics
CIS 4930 (3) Algorithms for Computational Biology

Additional Elective Courses (6 hours)
Six (6) additional hours chosen from Biology, Computer Science (see lists above); Mathematics or Statistics selected from: MAC 2313, MAP 2480, MAP 4481, STA 4102, STA 4103, STA 4202, STA 4203, STA 4442, STA 4502, and STA 4702.

Collateral Courses: 27-28 hours
All collateral courses must be completed with a grade of C- or better.
Mathematics/Statistics (14 hours)
MAC 2311 (4) Calculus with Analytical Geometry I
MAC 2312 (4) Calculus with Analytical Geometry II
MAD 2104 (3) Discrete Mathematics
STA 2171 (3) Statistics for Biology
Physics: one of the following ((with lab) (4 or 5 hours)
PHY 2053C (4) College Physics A with Lab
or PHY 2048C (5) General Physics A with Lab
Chemistry (8 hours)
CHM 1045 and 1045L (3,1) General Chemistry I and Lab
CHM 1046 and 1046L (3,1) General Chemistry II and Lab

Minor Requirements: The required collateral courses in mathematics constitute a minor; however, the student may select other minors in consultation with an advisor.

Computer Skills Competency: 0 hours beyond major. COP 3014 (3).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies **36
Prerequisite Coursework 0 beyond other requirements
Major Coursework 43
Collateral Coursework 27-28
Minor Coursework 0 beyond collateral courses
Foreign Language 0-12 (depending on placement)
Computer Skills 0 beyond major
Oral Communication Competency 0-3
Electives to bring total hours to 120
**Some coursework completed for this major may also apply toward Liberal Studies in the areas of Mathematics and Science.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

**Employment Information**

*Representative Job Titles Related to this Major:* Computational Biologist, Bioinformatics Specialist, Biotechnologist, Pharmaceutical/Medical Researcher, Forensic Scientist, Molecular Medicine Specialist, Comparative Genomics Scientist, Genetic Engineer, Human Geneticist, and Genome Analyst, Programmer, Systems Analyst, Software Engineer, Data Processing System Manager, Network Administrator.


*Updated: Summer, 2013*
COMPUTATIONAL SCIENCE
College: Arts and Sciences
Degree: B.S.
Limited Access: No
Contact: Maribel Amwake
Address: 402 Dirac Science Library
         Tallahassee, FL 32306-4120
Phone: (850) 644-0143
E-Mail: mamwake@fsu.edu

Description of Major
Computational science is the emerging discipline that provides the tools necessary to solve natural and social science and engineering problems on computers, much the same as mathematics provides the underpinning for theoretical solutions. Graduates of the Computational Science program will be prepared for employment in industry and government laboratories as well as for entry into graduate schools. The skill and knowledge sets acquired by students in this program compliment those of scientists and engineers so that, as part of interdisciplinary teams, those students are ideally positioned to help solve science and engineering problems using computers.

Prerequisite Coursework:
The following are being proposed as common program prerequisites:
MAC X311 (4) Calculus I
MAC X312 (4) Calculus II
ISC X313 (3) Introduction to Scientific Computing or COP XXXX (3) Introductory programming (in C or C++, JAVA or equivalent language; COP 3014 Programming I at FSU) or other approved programming course.
Science with lab (4) A laboratory-based science course designed for science majors (BSC, CHM, GLY, MET, or PHY).

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Requirements for Progression to the Upper-Division Major
Students must also have completed a minimum of 52 hours of credit and at least half the required hours in Liberal Studies including required English and Math, or an A.A degree

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Departmental Policy on Grades and Continuation in the Major
A grade of C- or better is required in all courses required for the BS Degree in Computational Science. A student who has received more than five unsatisfactory grades (U, F, D-, D+) in computational science, any of the sciences, mathematics, statistics, computer science, or engineering courses taken at Florida State University or elsewhere, including repeated unsatisfactory grades in the same required course, will not be permitted to graduate with a degree in computational science.

Major Program of Studies at FSU: 47 hours
All of the following (23 hours)
ISC 3222 (3) Symbolic and Numerical Computations
ISC 4304 (4) Programming for Scientific Applications
ISC 4220 (4) Algorithms for Science Applications I
ISC 4221 (4) Algorithms for Science Applications II
ISC 4223 (4) Computational Methods for Discrete Problems
ISC 4232 (4) Computational Methods for Continuous Problems
Seminar classes (3 hours)
Three seminars are required: specialized topics and/or new developments in computational sciences.
ISC 4931r (1,1) Junior Seminar in Computational Science
ISC 4932r (1) Senior Seminar in Computational Science
Practicum (3 hours)
ISC 4943 (3) Practicum in Computational Science
Electives (18 hours)
6 hours of computational science courses selected from an approved list.
12 hours of additional electives from the Department of Scientific Computing or other appropriate department. Students should consult the academic advisor regarding the selection of electives.

Collateral Courses: 26 hours
The following courses are required. These may also be used to satisfy prerequisites, Liberal Studies or minor requirements.
* ISC 3313 (3) Introduction to Scientific Computing or COP XXXX (3) Programming course
* MAC 2311 (4) Calculus I
* MAC 2312 (4) Calculus II
MAS 3105 (4) Applied Linear Algebra
STA 3XXX or 4XXX (3) Statistics course designed for statistics major
* Two laboratory-based science courses (8 hrs) designed for science majors: BSC, CHM, GLY, MET, or PHY.

* ISC 3313 or COP 3014 or approved programming course, MAC 2311, MAC 2312, and one of the two science courses are also prerequisite courses.

Minor: A minor is required. 0-12+ hours beyond other requirements.
If not also used to meet the Liberal Studies mathematics requirement, the required collateral courses MAC 2311, MAC 2312, and MAS 3105 will satisfy the requirements for a minor in mathematics. The student may select another minor in consultation with the program advisor.

Computer Skills Competency: 0-3 hours beyond other requirements. ISC 3313 or COP 3014.

Oral Communication Competency: 0-3 credits hours.
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements -Summary
Total Hrs. Required 120
Liberal Studies 36*
Prerequisite Coursework 15* (also count for collateral coursework)
Major Coursework 47
Collateral Coursework 26*
Minor Coursework 0-12 or more*
Foreign Language 0-12 (depending on placement)
Computer Skills 0-3 beyond major
Oral Communication Competency 0-3
Electives to bring total hours to 120
*Note: Some prerequisite and/or collateral coursework may also be applied to Liberal Studies requirements in math and science or the minor.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Computational scientist, researcher, research associate, computer modeler.
Representative Employers: Universities, governmental research laboratories, business, industry.
(Updated: Summer, 2013)
Description of Major
Criminology and Criminal Justice and Computer Science have collaborated to offer this new interdisciplinary degree in Computer Criminology. Information-related crime, cyber-forensics, and computer/network security are significant issues that affect all levels of business, government, and academia. Computer criminology includes both how to use computers to facilitate the study of crime and the study of how crimes are accomplished through the use of computers. Students will be prepared to do graduate work and research in this area, or to be effective employees of government, law enforcement, and industry, thereby filling the pressing need for information technology specialists who can address these issues.

Prerequisite Coursework
The following may also be used to meet Liberal Studies and/or major requirements
COP XXXX (3) Computer Programming
MAC X105 (3) College Algebra
MAC X140 (3) Precalculus
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for Progression to the Upper-Division Major
Students must complete at least 52 hours of credit with a minimum grade point average of 2.0 and at least half the required Liberal Studies hours including English and mathematics or an A.A. Degree. Computer Criminology is not limited access.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/

Continuation in the major
Students must earn a C or better in CCJ 2020, CCJ 3011 and CCJ 4700 and a C- or better in all other courses that count toward the major, and maintain a minimum cumulative GPA of 2.0. Students may choose to graduate through the Computer Science department in the College of Arts and Sciences or through the College of Criminology and Criminal Justice. Each of these colleges has special graduation and/or continuation requirements.

Requirements for graduation in the College of Arts and Sciences
Those choosing to pursue this major through Computer Science in the College of Arts and Sciences must meet the college’s requirement for proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level. Those choosing to graduate through Criminology and Criminal Justice do not need a foreign language.

Continuation/graduation requirements in the College of Criminology and Criminal Justice
Students electing to pursue this major through the College of Criminology and Criminal Justice who earn more than four grades below C- in Computer Criminology coursework and/or prerequisites, whether taken at Florida State University or elsewhere, whether repeated or not, will not be permitted to continue or graduate in this major.

Major Program of Studies at FSU: 52 hours
Required Computer Science Courses (25 hours)
COP 3014 (3) Programming I
COP 3353 (1) Introduction to UNIX
COP 3330 (3) Object Oriented Programming
CDA 3100 (3) Computer Organization I
CIS 4835 (3) Cybercrime Detection and Forensics (capstone course)
Computer Science elective courses (12 hrs) selected from the approved list:
CDA 3101, CIS 4360, CIS 4361, CNT 4406, CNT 4504, CNT 4603, COP 4342, COP 4530, COP 4610, COP 4710.
Required Criminology Courses (24 hours)
CCJ 2020 (3) Introduction to Criminal Justice
CCJ 3011 (3) Criminology
CCJ 4700 (3) Introduction to Research Methods in Criminology
CJE 3110 (3) Law Enforcement
CCJ 4938 (3) CJ System Responses to Cybercrime (capstone course)
And criminology elective courses (9 hrs) selected from the approved list:
CCJ 3644, CCJ 3666, CCJ 4497, CCJ 4614, CJC 3010, CJE 4610, CJJ 4010, CJL 3510, CJL 4064.
Required Mathematics Course (3)
MAD 2104 (3) Discrete Mathematics

Minor: a minor is not required.

Requirements for graduation in the College of Arts and Sciences:
Students may choose to graduate through either the College of Criminology and Criminal Justice or the College of Arts and Sciences. Those choosing the Arts and Sciences option must meet the college’s requirement for proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level. Those choosing to graduate through Criminology and Criminal Justice do not need a foreign language.

Computer Skills Competency: 0 beyond major: COP 3014 (3).

Oral Communication Competency: 0-3 hours.
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36*
Prerequisite Coursework* 0 beyond other requirements
Major Coursework 52
Minor Coursework 0
Foreign Language 0-12 (language proficiency required of Arts and Sciences students)
Computer Skills 0 beyond major
Oral Competency 0-3 hours
Electives to bring total hours to 120
*Prerequisite courses in mathematics may also be counted as part of Liberal Studies and COP 3014, a required course in the major, may also be used to meet the computer programming prerequisite.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Graduates of the program will be prepared to work either for law enforcement agencies as information crime specialists (sworn or unsworn) or within companies or organizations as network security specialists.

Updated: Summer, 2013
COMPUTER SCIENCE. BA
College: Arts and Sciences
Degree: B.A.
Limited Access: YES
Contact: Esther Diaguila (jr/sr)
        Abby Rhodes (fr/soph)
        Betty Stanton (Distance Learning/Online)
Address: 203 Love Building (Diaguila/Stanton)
         310/312 DLC (Rhodes)
Tallahassee, FL 32306-4530
Phone: (850) 644-8700 (Diaguila); (850) 644-8434 (Rhodes); (850) 645-0056 (Stanton)
E-Mail: advisor@cs.fsu.edu (Diaguila)
        arrhodes@fsu.edu (Rhodes)
        Stanton@cs.fsu.edu (Stanton)

Note to prospective transfer students:
Prospective transfer students should contact Ms. Shellie Camp, scamp@fsu.edu or 850.645.7156, with specific questions about admission and mapping requirements.

Description of Major
This major provides a broad-based background sufficient for entry to a career in computing. It provides a systems view of computing, emphasizing the interdependence of design, object orientation, and distributed systems and networks, from basic software through systems design. This major develops core competencies in programming, database structure, computer organization, and operating systems. It allows opportunities to study a range of other aspects of computer and information science, such as information security, data communication/networks, computer and network systems administration, theoretical computer science, and software engineering. Every student can expect to become proficient at programming in C, C++, and Assembly Language. Additionally, students will be exposed to other languages such as Java, C#, Ada, Lisp, Scheme, Prolog, Perl, and HTML. This major is available on campus or through Distance Learning.

The CS/BA program is intended to allow students flexibility in combining computing with other interests. The BA program requires 9 hours of humanities/history beyond Liberal Studies. Students should meet with an advisor to select a minor from an approved list. The CS/BA is not ABET/CAC accredited and is not intended to provide sufficient preparation in computer science theory for graduate work in computer science.

Internet Supported Distance Learning
The programs available through internet-supported distance learning are degree programs that enable students with an Associate in Arts (A.A.) degree from a Florida public institution to earn an FSU bachelor’s degree without moving to Tallahassee. The programs are designed for part time study. Each student receives access to a course Web site and the e-mail addresses of everyone associated with the class. A unique feature of the distance learning programs is the support FSU provides through an assigned Mentor. Mentors serve as learning guides, helping to facilitate each individual student’s success. Students interact with each other, their Mentors, and their instructors via e-mail, Web-based discussion pages, and telephone calls. A supplemental admissions application is required for admission to the Distance Learning Program. Students interested in Distance Learning should contact Academic & Professional Program Services (APPS). For more information contact (877) FLSTATE or visit the web at http://online.fsu.edu/.

Prerequisite Coursework:
MAC X140 (3) Precalculus Algebra
STA X122 (3) Applied Statistics (preferred) or STA X023 (3) Business Statistics
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level. Foreign language courses are not available via distance learning at FSU.
Admissions/Continuation Requirements to the Major Program of Studies

Students should complete the prerequisite coursework with a grade of C- or higher to be considered for entrance to the major program of study. Students must also have completed a minimum of 52 hours of credit and at least half the required hours in Liberal Studies including required English and Math, or an A.A degree. Distance Learning students must complete the A.A. from a Florida public institution, required prerequisites, and a Supplemental Admissions Application prior to admission. Distance Learning students should also complete the oral competency requirement and the College of Arts and Sciences foreign language requirement prior to admissions. In accordance with the University residency rule, degree requirements not available online must be completed prior to the final 30 hours of the degree. The Computer Science major is limited access. The minimum GPA for acceptance is 2.65 and students in the program must maintain a 2.5 GPA. A student who has accumulated more than 5 grades below a C- (including grades of U) in Mathematics, Statistics, or Computer Science courses will not be permitted to continue as a major in the department.

Mapping

Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu.

Major Program of Studies at FSU: 52 hours

Computer and math courses (43 hours)
- COP 3014 (3) Programming I
- COP 3353 (1) Introduction to UNIX
- COP 3330 (3) Object-Oriented Programming
- CEN 4020 (3) Software Engineering I
- CEN 4021 (3) Software Engineering II
- CDA 3100 (3) Computer Organization I
- CDA 3101 (3) Computer Organization II
- COP 4020 (3) Programming Languages
- COP 4610 (3) Operating Systems & Concurrent Programming
- COP 4530 (3) Data Structures, Algorithms, and Generic Programming
- COP 4710 (3) Theory and Structure of Databases

9 hours of computer science electives, including 3 hours of an upper-division programming language elective for CS majors (not presented in the required course offerings) and at least 6 hours numbered above 4000 (not including CIS 4250 or CIS 4900). MAD 2104 (3) Discrete Mathematics I

Additional courses required for the BA program in Computer Science (9 hours)

Nine (9) hours in the fields of humanities and/or history, in addition to the Liberal Studies and the Arts and Sciences foreign language requirement.

Minor. CS/BA majors must complete a minimum of 12 hours in an approved minor area.

Computer Skills Competency: 0 hours beyond major. COP 3014 (3)

Oral Communication Competency: CIS 4250 (3) is suggested as a “major elective” for the CS/BA major. This requirement may also be met through appropriate high school speech training or another college-level approved course, such as SPC 1017 or SPC 2608.

Minimum Program Requirements Summary

Total Hrs. Required 120
- Liberal Studies 36*
- BA Prerequisite Coursework 9*
- BA Major Coursework 52
- Minor Coursework 0-12 or more
- Foreign Language 0-12 (depending on placement)
- Computer Skills 0 beyond major
- Oral Communication Competency 0-3
Electives to bring total hours to 120
*Note: Some prerequisite coursework may also be applied to Liberal Studies requirements in math and science.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. The B. A. degree requires 9 additional hours in the fields of history and humanities.

Employment Information
Representative Job Titles Related to this Major: Programmer (Scientific, Business, Systems), Technical Writer, Systems Analyst, Operations-Research analyst, Software Engineer, Webmaster, Teacher of High School, College or University, Technical support Representative, Manager, Data Processing System Manager, Network Administrator, Sales Representative for Computer or Software Manufacturers.

Representative Employers: Computer Firms, High Schools, Colleges and Universities, Financial Firms, Private Industry, Governmental Agencies.

Updated: Summer, 2013
COMPUTER SCIENCE. BS
College: Arts and Sciences
Degree: B.A.
Limited Access: YES
Contact: Esther Diaguila (jr/sr)
Abby Rhodes (fr/soph)
Betty Stanton (Distance Learning/Online)
Address: 203 Love Building (Diaguila/Stanton)
310/312 DLC (Rhodes)
Tallahassee, FL 32306-4530
Phone: (850) 644-8700 (Diaguila); (850) 644-8434 (Rhodes); (850) 645-0056 (Stanton)
E-Mail: advisor@cs.fsu.edu (Diaguila)
arrhodes@fsu.edu (Rhodes)
Stanton@cs.fsu.edu (Stanton)

Note to prospective transfer students:
Prospective transfer students should contact Ms. Shellie Camp, scamp@fsu.edu or 850.645.7156, with specific questions about admission and mapping requirements.

Description of Major
This major provides a broad-based background sufficient for entry to a career in computing. It provides a systems view of computing, emphasizing the interdependence of design, object orientation, and distributed systems and networks, from basic software through systems design. This major develops core competencies in programming, database structure, computer organization, and operating systems. It allows opportunities to study a range of other aspects of computer and information science, such as information security, data communication/nets, computer and network systems administration, theoretical computer science, and software engineering. Every student can expect to become proficient at programming in C, C++, and Assembly Language. Additionally, students will be exposed to other languages such as Java, C#, Ada, Lisp, Scheme, Prolog, Perl, and HTML. This major is available on campus or through Distance Learning.

The coursework required for this major includes an embedded collateral minor in mathematics and physical sciences. It is ABET/CAC accredited and is intended to be sufficient for entry to a graduate program in computer science.

Internet Supported Distance Learning
The programs available through Internet-supported distance learning are degree programs that enable students with an Associate in Arts (A.A.) degree from a Florida public institution to earn an FSU bachelor’s degree without moving to Tallahassee. The programs are designed for part-time study. Each student receives access to a course Web site and the e-mail addresses of everyone associated with the class. A unique feature of the distance learning programs is the support FSU provides through an assigned Mentor. Mentors serve as learning guides, helping to facilitate each individual student’s success. Students interact with each other, their Mentors, and their instructors via e-mail, Web-based discussion pages, and telephone calls. A supplemental admissions application is required for admission to the Distance Learning Program. Students interested in Distance Learning should contact Academic & Professional Program Services (APPS). For more information contact (877) FLSTATE or visit the web at http://online.fsu.edu/.

Prerequisite Coursework:
BS program in Computer Science
The following must be completed with a grade of C- or higher. These courses may be taken as part of Liberal Studies or as general electives.

COP XXXX (3) Introductory Programming in C, C++, JAVA or equivalent language (C++ preferred)
XXX XXXX (2-4) One science course for science majors (contact department for a list of acceptable courses)
MAC X311 (4) Calculus I
MAC X312 (4) Calculus II
One of the following series
PHY X048C (4-5) General Physics A and PHY X049C (4-5) General Physics A and B or equivalent with lab, or
* BSC X010 (3) and BSC X011(3) and CHM X045C (4)
* Students selecting this option may satisfy the “One science course” requirement by completing BSC X010L and BSC X011L.
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable
alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:

The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level. Foreign language courses are not available via distance learning.

Admissions/Continuation Requirements to the Major Program of Studies
Students should complete the prerequisite coursework with the grade of “C-” or higher in to be considered for entrance to the major program of study. Students must also have completed a minimum of 52 hours of credit and at least half the required hours in Liberal Studies including required English and Math, or an A.A degree. Distance Learning students must complete the A.A. from a Florida public institution, required prerequisites, and a Supplemental Admissions Application prior to admission. Distance Learning students should also complete the oral competency requirement and the College of Arts and Sciences foreign language requirement prior to admissions. In accordance with the University residency rule, degree requirements not available online must be completed prior to the final 30 hours of the degree. The Computer Science major is limited access. The minimum GPA for acceptance is 2.65 and students in the program must maintain a 2.5 GPA. A student who has accumulated more than 5 grades below a C- (including grades of U) in Mathematics, Statistics, or Computer Science courses will not be permitted to continue as a major in the department.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu.

Major Program of Studies at FSU: 60 hours
COP 3014 (3) Programming I
COP 3353 (1) Introduction to UNIX
COP 3330 (3) Object-Oriented Programming
CDA 3100 (3) Computer Organization I
CDA 3101 (3) Computer Organization II
CEN 4020 (3) Software Engineering I
CEN 4021 (3) Software Engineering II
CIS 4250 (3) Ethics in Computer Science (meets oral competency requirement)
COP 4020 (3) Programming Languages
COP 4610 (3) Operating Systems & Concurrent Programming
COP 4530 (3) Data Structures, Algorithms, and Generic Programming
COP 4531 (3) Complexity and Analysis of Data Structure and Algorithms
COP 4710 (3) Theory and Structure of Databases
COT 4420 (3) Theory of Computation
2-3 hours of a computer science elective that covers an upper-division programming language for CS majors not presented in the required course offerings
3 hours computer science or advanced math elective with a prerequisite of MAC 2312 or MAD 3105
6 hours of 4000-level computer science electives (not including CIS 4900)
MAD 2104 (3) Discrete Mathematics I
MAD 3105 (3) Discrete Mathematics II
STA 4442 (3) Introduction to Probability (may substitute STA 4321 or STA 3032)

Minor. The prerequisite courses in mathematics and physics constitute a collateral minor.

Computer Skills Competency: 0 hours beyond major. COP 3014.

Oral Communication Competency: 0 hours beyond major. CIS 4250 (3). This requirement may also be met through appropriate high school speech training or another college-level approved course, such as SPC 1017 or SPC 2608.
Minimum Program Requirements Summary
Total Hrs. Required 120
Liberal Studies 36*
BS Prerequisite Coursework 27*
BS Major Coursework 60
Minor Coursework 0-12 or more
Foreign Language 0-12 (depending on placement)
Computer Skills 0 beyond major
Oral Communication Competency 0-3
Electives to bring total hours to 120
*Note: Some prerequisite coursework may also be applied to Liberal Studies requirements in math and science.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Programmer (Scientific, Business, Systems), Technical Writer, Systems Analyst, Operations-Research analyst, Software Engineer, Webmaster, Teacher of High School, College or University, Technical support Representative, Manager, Data Processing System Manager, Network Administrator, Sales Representative for Computer or Software Manufacturers.

Representative Employers: Computer Firms, High Schools, Colleges and Universities, Financial Firms, Private Industry, Governmental Agencies.

Updated: Summer, 2013
CRIMINOLOGY/CRIMINAL JUSTICE
College: Criminology and Criminal Justice
Degree: B. S. or B. A.
Limited Access: NO
Contact: Rahila Arshad
Address: Hecht House, FSU
Tallahassee, FL 32306-1127
Phone: (850) 644-6676
E-Mail: rarshad@fsu.edu

Description of Major
Criminology/Criminal Justice is an interdisciplinary field of study. Included are the contributions and approaches of many of the social and behavioral sciences, as well as areas of study such as law and ethics, as they relate to the phenomenon of crime. At the undergraduate level, the criminology/criminal justice major prepares students for employment in a wide variety of criminal justice agencies, under local, state and federal jurisdictions, as well as the private sector. This major can also serve as a foundation for graduate study in criminology, law, social work, sociology, psychology, and government including public administration. At the graduate level, the Criminology/Criminal Justice major leads primarily to teaching and research positions with colleges and universities, and secondarily to upper-level administrative positions in the field of criminal justice and in research departments attached to various criminal and juvenile justice agencies. Special purpose certificates in law enforcement, corrections, and security administration are available to non-majors and majors upon completion of specified course sequences (please refer to the Bulletin).

Prerequisite Coursework: None.
Suggested courses:
CCJ 2020 (3) Introduction to Criminal Justice
POS 2001 (3) Introduction to Political Science
PSY 2012 (3) General Psychology
SYG 1000 (3) Introductory Sociology
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for Progression to the Upper-Division Major
Students must complete at least 52 hours of credit with a minimum grade point average of 2.0 and at least half the required Liberal Studies hours, including all English composition and mathematics requirements, or an A.A. Degree.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu.

Continuation in the major
The College of Criminology and Criminal Justice reserves the right to discontinue enrollment of any student in the major at any time if satisfactory academic progress is not being made. Specifically, majors in the College of Criminology and Criminal Justice who accumulate more than two (2) unsatisfactory grades (F, D-, D, D+, I, E, U) in criminology and criminal justice taken for college credit at Florida State University or elsewhere, whether repeated or not, will not be permitted to continue or graduate as a major in the College.

Major Program of Studies at FSU: 36 hours
To major in criminology and criminal justice, a student must complete thirty-six (36) hours in criminology, including three core courses. The core courses require grades of C or higher (C- is not acceptable):
Three core courses (9 hours)
CCJ 2020 (3) Introduction to Criminal Justice (may be taken at a community college)
CCJ 3011 (3) Criminology
CCJ 4700 (3) Introduction to Research Methods
Additional courses in Criminology and Criminal Justice (27 hours)
Students should select 27 additional hours in Criminology and Criminal Justice consistent with their goals and in consultation with their advisor. An optional one-semester full time (15 credit hour) internship is available. If a student chooses to take the internship, only three of the 15 credit hours will count toward the required 36 hours in the major.

A maximum of 6 hours of course work in Criminology/Criminal Justice taken at the community college level may be accepted and used toward fulfilling the major requirement. (CCJ 3011 and CCJ 4700 core classes listed above must be taken at FSU. CCJ 1020/2020/3020 can be transferred from another 4-year institution or from a community college.) The decision as to which courses are acceptable for transfer is up to the Dean of the College.

Minor: at least 12 hours
A minor is required by the College of Criminology and Criminal Justice for completion of the major. Most minors are 12-15 hours, but may be more if required by the minor department.

Computer Skills Competency: 3 hours. CGS 2060 (3) or CGS 2100 (3).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Bachelor's to Masters Degree Program in Criminology and Criminal Justice
The FSU College of Criminology and Criminal Justice offers a combined “Bachelors to Masters Degree” program. Through this program eligible undergraduate students have the opportunity to take up to 12 graduate credit hours (with permission of the instructor and the College) that may count toward both the BS and MS degrees.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36
Major Coursework 36
Minor Coursework 12-15
Computer Skills 3
Oral Communication Competency 0-3
Other Coursework 0
Electives to bring total hours to 120

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. Students who elect the B.A. must complete a modern or classical foreign language through the intermediate (2200) level and nine additional hours in the fields of history and humanities.

Employment Information
Representative Job Titles Related to this Major: Law Enforcement Officer, Youth Counselor (state level or private agency), Probation Officer, Parole Officer (adult or juvenile setting), Correctional Counselor, Prison Case Manager, Administrator (criminal/juvenile justice agencies), Consumer Safety Officer, Correctional Officer, Private Investigator, Private/Corporate Security Officer/Director, Air Marshal, Legislative Analyst.

Representative Employers: Juvenile justice agencies (state, local, private), probation and parole offices, U.S. Department of Justice, state and local correctional institutions, U.S. Customs, Immigration/Border Patrol, local police and sheriff departments, colleges and universities, private detective agencies, business and industry, private correctional corporations, legislative branch of state government, Central Intelligence Agency, Federal Bureau of Investigation.

Updated: Summer, 2013
DANCE
College: Visual Arts, Theatre and Dance
Degree: Bachelor of Fine Arts
Limited Access: YES
Contact: Stephanie Mills
Address: 145 Montgomery Hall, FSU
         Tallahassee, FL 32306-2120
Phone: (850) 644-1023
E-Mail: smills@fsu.edu

Description of Major
Dancers use dance in many ways, among which are performance, choreography, and teaching. Many dancers combine these three areas in their professional lives. Performance opportunities are varied and range from work with professional companies to regional dance organizations and university dance programs, and from resident to touring situations. Choreographic opportunities may be found in professional or civic companies, in university and college programs, in plays and musicals, movies and television. The dancer often combines teaching with actual choreographic work and performing. Teaching opportunities may be found in universities, colleges, primary and secondary schools, privately owned studios, civic organizations, or combinations of these. Two new and fast growing fields are dance notation and dance technology, which (like musical notation) serve the purpose of recording choreography for posterity, as instruments for analysis of movement, and as creative tools. BFA dance majors may complete Specialized Studies in Arts and Community Practice or complete the preparation for K-12 teaching certification.

Prerequisite Coursework:
Any 24 hours selected from the following; all may also apply toward the major:
DAN X610 (3) Rhythmic Analysis or DAN X600
DAN X611 (3) Music & Choreography or DAN X601
DAA X610 (2) Dance Composition
DAA X611 (2) Dance Composition
DAA X680 (2) or lower level repertory courses in the 400-499 series
DAA X681 (2) Dance Performance (or lower level repertory courses in the 400-499 series)
DAA X200-X209 (up to 8 hrs) Lower level ballet technique courses
DAA X100-X109 (up to 8 hrs) Lower level modern technique courses
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for Admission into the Major
All BFA, MA and MFA students who wish to major in dance must audition for admission into the dance program. Students may be admitted into the major as early as the freshman year. Screening of each dance major occurs at various times throughout the year to determine if the student should continue in the major program. Such assessment is part of a continuous advisement procedure whereby a student may receive specific advisement concerning potentialities, problems and progress. Maintenance of a satisfactory academic standing is required in addition to specified levels of progress in dance technique. Any break in enrollment of more than one academic year will require another audition for readmission.

Mapping. Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu.

Major Program of Studies at FSU: 92 hours.
In order to graduate, students must: 1) achieve and maintain either the Ballet III level and the Contemporary Dance II level or the Ballet II and Contemporary III levels by one semester prior to graduation; 2) complete all coursework requirements (Liberal Studies and major); and 3) meet the designated requirements for performing and production experiences. They are also required to participate in four performance experiences sponsored by the school. Dance Technique: Students must take 30 hours at the appropriate technical level and attain the proficiency requirements. Continuous enrollment in both ballet and contemporary dance is required. If students fulfill all other curricular requirements and attain the proficiency requirements stated, the maximum requirement in technique hours need not be attained.
Dance Technique (30 hrs, minimum):
DAA 3208r (1-3) Ballet I
DAA 3209r (1-3) Ballet II
DAA 4210r (1-3) Ballet III
DAA 3108r (1-3) Contemporary Dance I
DAA 3109r (1-3) Contemporary Dance II
DAA 4110r (1-3) Contemporary Dance III

Composition and Repertory (10 hrs. minimum):
DAA 2610 (2) Dance Composition
DAN 2611 (3) Music and Choreography
DAA 3614 (2) Dance Composition
DAA 3654r (2) Choreography-Repertory.

Other Required Dance Courses (40 hrs.):
DAN 2500 (1) Introduction to Design
DAN 2610 (3) Rhythmic Analysis
DAN 3144, 3145, 3146 (3, 3, 3) History and Philosophy of Dance
DAN 3400 (3) Movement Analysis
DAN 3504 (2) Dance Production
DAN 3584 (1) Dance Theatre Lab
DAN 3714 (3) Dance Kinesiology
DAN 3744 (2) Dance Conditioning
DAN 4418 (3) Survey of Dance Technologies
DAN 4935 (3) Introduction to the Dance Profession (new course number coming soon; contact department)
DAN 4935 (3) Senior Capstone Experience (new course number coming soon; contact department)
DAA 1680, 2681, 3684, 4685 (1, 1, 1, 1) Dance Ensemble (min. 1 hr. required)
DAE 3384 (3) Methods & Materials in Dance Education

Dance Electives (12-15 hrs.) Students should consult with the school advisor to select appropriate dance electives.

Computer Skills Competency: 0 hours beyond major. DAN 4418 (3)

Oral Communication Competency: 0-3 hours. Students must demonstrate the ability to orally transmit ideas and information clearly. The requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 128
Liberal Studies 36*
Major Coursework 92
Minor Coursework 0
Computer Skills 0 beyond major
Oral Communication Competency 0-3
Other Coursework 0
Electives to bring total hours to 128

*At FSU, one Dance History course may also apply as part of Liberal Studies. Students who select this option must select an equivalent number of elective hours to reach the 128 hours required for graduation.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Dancer, Artistic Director, Choreographer, Ballet Mistress/Master, Professor of Dance Theory, Teacher of Ballet and/or Contemporary Dance Technique, Manager, Dance Company, Dance Therapist, Dance Historian, Production Manager for Dance Company, Dance Critic, Dance Technology Specialist.
Representative Employers: Dance Companies, Private Dance Studios, Theatre Companies, College and Universities, Movies, Television, Arts Non-profit & Educational Agencies, Public Schools (with teaching certification).

Updated: Summer, 2013
DIETETICS
College: Human Sciences
Degree: B. S.
Limited Access: YES
Contact: Ms. Jennifer Farrell
Address: 410 Sandels Bldg.
        College of Human Sciences, FSU
        Tallahassee, FL 32306-1493
Phone: (850) 644-4794
E-Mail: jennifer.farrell@fsu.edu

Description of Major
Dietitians and nutritionists enjoy diverse and increasingly prestigious responsibilities among health professionals. In addition to
general, clinical and community dietetics, the clinical dietitian or nutritionist may specialize in metabolic support, renal
diabetics, pediatric dietetics, or clinical research. Students are also prepared for graduate school, institutional food service
administration and product development for food industry.  The Didactic Program in Dietetics (DPD) is accredited by the
Accreditation Council for Education in the Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics (AND).

Prerequisite Coursework: 0 hours beyond other requirements
Students must complete the following prerequisites required for admission in preparation for the upper division major. All may
also be used to satisfy other requirements: Liberal Studies (general education), major, collateral, etc.
MAC X105 (3) College Algebra
CGS X060 (3) Computer Literacy
PET X322, X322L (3,1) Functional Anatomy and Physiology & lab or BSC X085 & X086 with labs (4,4).  C+ or higher required.
        (Contact the departmental advisor about the BSC X085/X086 option.)
MCB X004/X004L (3,1) General Microbiology and Lab or acceptable alternative
CHM X045, X045L (3,1) and CHM X046, X046L(3,1) General Chemistry I, II with labs
CHM X200, X200L (3,1) Survey of Organic Chemistry with lab or CHM X210, X211 and CHM X211L
ECO X000 (3) Introduction to Economics or ECO X013 (3) or ECO X023 (3)
HUN X201 (3) Science of Nutrition.  B or higher required
PSY X012 (3) General Psychology or PSY X020 or PSY X113

Note: State-wide common prerequisites are always under review.  For the most current information and for acceptable
alternative courses, visit the “Common Prerequisites Manual.”  This is available from the “Student Services” section of

Admission to the Upper-Division Major:
Dietetics is a limited access major.  Students are formally admitted to the major program of study for Fall term only and must
submit an application during the preceding Spring Term while taking DIE 3005 (DIE 3005 is also offered in the first six weeks of
the summer for transfer students). Students may be admitted as NFA (not formally admitted) during any term.  To be fully
admitted to the major, students must meet the following admission criteria.  Admission decisions will be made in mid-June.  For
more information, visit http://www.chs.fsu.edu/Nutrition-Food-Exercise-Sciences/Undergraduate-Programs/Dietetics/Undergraduate-Dietetics-Information.

1) Be an admitted or a current student of Florida State University.
2) Have a 2.75 overall undergraduate GPA (may appeal if lower GPA with exceptional circumstances; contact
department).
3) HUN 1201 (3) Intro. to Nutrition with a B grade or higher.
4) DIE 3005 (1) Intro to Dietetics with a grade of “satisfactory (S)” .  DIE 3005 will be offered in summer session B (first six
weeks).  Transfer students will have the opportunity to take this course in the first six weeks of the summer at FSU
before admission decisions are made.

Other criteria that will be considered for admission to this major:
1) Indicators of aptitude in the sciences, preferably a B grade or better in the following:
   • CHM 1045, 1045L  General Chemistry I, Lab
   • CHM 1046, 1046L  General Chemistry II, Lab
   • CHM 2200, 2200L (or CHM 2210 and CHM 2211 with labs) Organic Chemistry
     Transfer students may take CHM 2210, CHM 2211 and labs before transferring to FSU or take CHM 2200,
     2200L over the summer at FSU.
2) Commitment to become a registered dietitian.
3) Experience in or an understanding of the field of dietetics.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 57 hours
In order to graduate with a major in Dietetics, students must achieve a minimum FSU overall GPA of 2.5. Students must earn a B or higher in DIE 4310, DIE 4244 and DIE4244L, FSS 4315, HUN 1201, HUN3403 and HUN4296, a C+ or higher in PET 3322 and PET 3322L, and a grade of C- or higher in all other required courses. Graduates of the DPD program earn a DPD verification statement and 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 dietetic education, is required for eligibility to take the national Registration Examination for Dietitians.

College of Human Sciences core (6 hours)
FAD 2230 (3) Family Relationships
FAD 4601 (3) Foundations of Counseling

Departmental/Major requirements (51 hours)
DIE 3005 (1) Introduction to Dietetics
DIE 4310 (3) Community Nutrition (B or higher)
DIE 4244, 4244L (3,1) Medical Nutrition Therapy, Lab (B or higher in both)
DIE 4XXX (1) Professionalism in Dietetics
FOS 3026, 3026L (3,1) Foods, Foods Laboratory
FOS 4114C (4) Food Science
FSS 4135 (3) Institutional Food Economics (B or higher)
FSS 4315 (3) Institutional Organization and Administration
HUN 4941 (3) Nutrition Practicum
HUN 1201 (3) The Science of Nutrition (B or higher)
HUN 2125 (3) Food and Society
HUN 3224 (3) Intermediary Metabolism of Nutrients I
HUN 3226 (3) Intermediary Metabolism of Nutrients II
HUN 3403 (3) Life Cycle Nutrition (B or higher)
HUN 4296 (3) Nutrition and Health Issues (B or higher)
PET 3322, 3322L (3,1) Functional Anatomy & Physiology I or BSC 2085/2086 and labs (3,3,1,1) Anatomy & Physiology (C+ or higher required in each). Please contact the department about the BSC 2085/2086 option.
PET 3361 (3) Nutrition and Sport

Collateral Coursework: 34 hours
The following coursework outside of the department must also be completed with a C- or higher grade. Most of these courses may also be used to satisfy prerequisites, Liberal Studies or other graduation requirements.
CGS 2060 (3) Computer Literacy (meets computer literacy requirement)
ECO 2000 (3) Introduction to Economics or ECO 2013 or ECO 2023
PSY 2012 (3) General Psychology
MAC 1105 (3) College Algebra
STA 2122 (3) Introduction to Applied Statistics or STA 2023 (3) Fundamentals of Business Statistics
BCH 3023C (3) Introduction to Biochemistry
CHM 1045, 1045L (3,1) and CHM 1046, 1046L(3,1) General Chemistry I and II with labs
CHM 2200, 2200L (3,1) Survey of Organic Chemistry, Lab or CHM2210(3), CHM 2211(3), and CHM2211L(3)
MCB 2004, MCB 2004L (3,1) General Microbiology, General Microbiology Laboratory

Computer Skills Competency: CGS 2060 (3).

Oral Communication Competency: 0-3 beyond other requirements.
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. SPC 1017 suggested.
**Electives:** Varies
Students are required to take electives to bring their total hours to the required 120.

**Minimum Program Requirements - Summary**

Min. Hrs. Required 120
Prerequisite Coursework 0* beyond Liberal Studies and major coursework
Liberal Studies 36*
Major Coursework 57*
Collateral Coursework 34*
Minor Coursework 0
Computer Skills 0 beyond collateral
Oral Competency 0-3 beyond major
Electives to bring total hours to 120

*NOTE: Many courses may be used to satisfy more than one requirement—Prerequisites, Liberal Studies, Major, Collateral, Computer Skills Competency. Hours are not cumulative; all requirements may be finished in the required 120 hours.

**Remarks:**

1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

**Employment Information**

Representative Job Titles Related to this Major: Nutrition Consultant, Sports Dietitian, Dietitian, Clinical/Administrative Dietitian, Nutritionist, Food Service Director, Nutrition Educator, Nutrition Consultant, Sports Nutritionist.


Updated: Summer, 2013
EARLY CHILDHOOD EDUCATION
College: Education
Degree: B. S.
Limited Access: YES
Contact: Jeannie McDowell
Address: G107 Stone Building, FSU
Tallahassee, FL 32306-4460
Phone: (850) 645-8316
E-Mail jmcdowell@fsu.edu

Description of Major
The undergraduate program in Early Childhood Education is a full time, four semester program that provides the student with both the academic coursework and the preschool and public school experience necessary to become a certified beginning teacher of children in pre-kindergarten through third grade. All four semesters in the program allow the student to experience working with young children and their teachers. In addition to certain practicum and observation courses in early childhood situations, the program includes: teaching methods in reading and language arts, mathematics, science, social studies, children’s literature and materials, and expressive arts. In addition to these curricular areas, emphasis is placed on educational foundations, child development and psychology, nutrition, families, communities, schools and other agencies. Florida Certification age 3, 4, Kindergarten, Primary (to grade 3).

Prerequisite Coursework: 9 hours
Pre-education Core
EDF X005 (3) Introduction to Education
* EDF X085 (3) Teaching Diverse Populations
EME X040 (3) Introduction to Educational Technology
*In addition to EDF X085, the student must take 6 hours with an international or diversity focus. Eligible courses will be determined by the institution where the student is earning his/her associate in arts (AA) or baccalaureate degree. Foreign language courses may be used to meet this requirement.
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Upper-Division Major
This program is a Limited Access Teacher Education program and admits a limited number of students each year in the fall semester. Students seeking admission to this teacher education program must meet the following minimum requirements:
1. Meet the general criteria for transfer into an FSU degree-granting program (see Bulletin),
2. Complete Liberal Studies requirements or an A.A. degree with a grade of C- or higher in each freshman English and each basic mathematics course
3. Complete the Pre-education core listed above with a grade of C- or higher
4. Achieve a passing score on each section of the general knowledge section of the FTCE.
5. Achieve an overall 2.5 GPA minimum.
6. Students are required to be fingerprinted and pass a security clearance upon admission to the major program of studies.
Note: Meeting minimum admission requirements does not guarantee admission to the program.

Students are admitted into this major for the Fall Term only. Applicants to Early Childhood Education are selected on the basis of four criteria: GPA, SAT/ACT scores, relevant experience, and professional promise. To be considered for admission, applicants must submit the following by March 1st: 1) an application form available in G107 Stone Building or you may link to it from www.coe.fsu.edu/ece, 2) transcripts of previous coursework and documentation of test scores and GPA must be attached to application, 3) three reference forms, 4) a typed essay: your response to Teaching in a Changing World, 1½ pages, 5) a checklist of program requirements. In addition, students must be certified to upper division with all Liberal Studies finished or an AA Degree. In order to continue in the program, students must: 1) gain admission into teacher education by the end of the first term, 2) earn a C- or higher in each course required for the major, 3) maintain an overall GPA of 2.5 in all required major coursework, and 4) gain admission to student teaching at the appropriate time. Careful planning is necessary for timely completion of degree and certification requirements. Students are strongly encouraged to establish an early and continuing relationship with their advisor.
Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 66 hours.
These courses are restricted to admitted early childhood education majors only and must be taken in sequenced semester blocks.
NOTE: Program completion includes passing the basic skills, professional knowledge, and subject area tests that are required for teacher certification in the state of Florida. Certification to teach in Florida requires a minimum 2.5 GPA in the field of specialization.
EDE 4316 (3) Differentiated Reading Instruction
EEC 4204 (3) Early Childhood Curriculum and Methods
EEC 4301 (3) Early Childhood Foundations
EEC 4303 (3) Expressive Arts for the Young Child
EEC 4400 (3) Parents as Teachers
EEC 4604 (3) Techniques of Child Study, Management and Discipline
EEC 4907r (9) Observations and Participation
EEC 4943 (9) Student Teaching in ECE
EEX 4070 (3) Designing Inclusive Educational Learning Environments
EEX 4212 (3) Educational Assessment for Children with Disabilities
LAE 4314 (3) Language Arts in the Elementary School
MAE 4300 (3) Teaching Mathematics in the Primary Grades
RED 4310 (3) Developing Literacy Learning
RED 4510 (3) Teaching Reading in the Elementary School
SCE 4310 (3) Teaching Science in the Elementary School
SSE 4113 (3) Elementary School Social Studies
TSL 4080 (3) Language Principles for Teachers
TSL 4081 (3) Teaching English Language Learners

Computer Skills Competency: 0 hours beyond prerequisites. EME 2040 (3).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36*
Pre-education Core 9
Major Coursework 66
Computer Skills 0 beyond Pre-ed core.
Oral Communication Competency 0-3
Electives 0

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Child Care Director, Elementary School Teacher, Pre-School Teacher, Kindergarten Teacher, Nursery School Teacher, R and D Demonstration Teacher, Parent, Private Tutor, Sales Representative, Recreation Supervisor, YMCA Director.

Representative Employers: Schools, Child Care Centers, YMCA, Businesses, Recreation Departments.

Updated: Summer, 2013
ECONOMICS

**ECONOMICS and APPLIED ECONOMICS**

College: Social Sciences and Public Policy  
Degree: B. A. or B. S.  
Limited Access: YES

Contact: Mr. M. Claypool; Dr. T. McCaleb  
Address: 254 Bellamy Building; 287 Bellamy Building FSU  
Tallahassee, FL 32306-2180

Phone: (850) 644-3835; (850) 644-7086  
E-Mail: mclaypool@fsu.edu; tmccaleb@fsu.edu

**Description of Major**

The Economics major is a superior liberal arts program that strives to make students aware of the critical issues in economics, to provide them with a basic understanding of the tools needed to analyze those issues, and to prepare them for (a) entry-level positions in financial, managerial and administrative areas of the public and private sector, or (b) entry into graduate and professional schools of law, business, economics, and social sciences. Among the topics covered by the curriculum are the theory of markets and the price system, the organization of industries, labor supply and its uses, the commercial banking and credit system, government finance, the national income and its production and distribution, economic growth and development, and international trade and finance. An internship program (ECO 4941) is available to qualified students.

**Prerequisite Coursework:** 6 hours.  
A grade of C or higher is required in each course (C- is not accepted). These may also apply toward the major and Liberal Studies (general education)  
ECO X013 (3) Principles of Macroeconomics  
ECO X023 (3) Principles of Microeconomics  
or six (6) semester hours in economics courses (ECO).  
**Note:** State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Students who plan to major in Economics should take:  
ECO 2013 and ECO 2023; MAC 1105, precalculus, or calculus; and STA 2122 or STA 2023 or STA 4321. MAC 1140 (precalculus) and STA 2122 (applied statistics) are recommended.

Students who plan to major in Applied Economics should take:  
ECO 2013 and ECO 2023; MAC 1105, precalculus, or calculus; ACG 2021; ACG 2071 or FIN 3403; and STA 2122 or STA 2023 or STA 4321. MAC 1140 (precalculus) and STA 2122 (applied statistics) are recommended.

**Admission Requirements to the Upper-Division Major**

Admission is based on availability of faculty and space, and upon academic performance. Students with 52 or more acceptable credit hours, both ECO 2013 and 2023 completed with a grade of “C” (2.0) or higher, and who are in good academic standing with the University will be given priority consideration for admission to this limited access major, but are not guaranteed admission to the program. A minimum GPA of 2.5 on all college coursework attempted is required for consideration.

**Mapping**

Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degrees in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

**Continuation/progress in the major**

In addition to earning a C or higher in ECO 2013 and ECO 2023, students must earn grades of C- or higher in all economics courses and supporting courses used to satisfy major requirements and must maintain an overall GPA of 2.0 in economics and supporting courses. Majors should try to complete all core courses by the end of the second term as a junior and must complete all core courses by the end of the third term as a major. Economics majors must register for at least six hours of economics courses each term until major requirements are met. At least 15 hours in economics courses must be taken at FSU. Any transfer credit intended to meet major requirements must be approved by the Undergraduate Director for Economics.
Major Programs of Studies at FSU: 36 or 39 hours

There are two majors available:

**Economics Major:** 36 hours
For students planning post-baccalaureate study:
Principles (6 hours)
ECO 2013 (3) Principles of Macroeconomics
ECO 2023 (3) Principles of Microeconomics
Economics Core Courses (9 hours)
ECO 4101 (3) Intermediate Microeconomic Theory
ECO 4203 (3) Intermediate Macroeconomic Theory
ECO 4421 (3) Introduction to Econometrics
Other required Economics coursework (15 hours)
15 additional hours of 3000/4000 economics elective courses must be completed, including six hours (2 courses) in a single subject area. (For further details see the Department's website: [http://www.coss.fsu.edu/economics/index.shtml](http://www.coss.fsu.edu/economics/index.shtml))
Supporting coursework (6 hours)
STA 2023 or STA 2122 or STA 4321 (3). STA 2122 preferred.
MAC 1105 or MAC 1140 or MAC 2233 or MAC 2311 (3-4). Calculus is recommended for students planning on graduate studies.

**Applied Economics Major:** 39 hours
For students planning to seek employment immediately upon graduation:
Principles (6 hours)
ECO 2013 (3) Principles of Macroeconomics
ECO 2023 (3) Principles of Microeconomics
Applied Economics Core (9 hours)
ECO 3104 (3) Applied Microeconomic Analysis
ECO 3223 (3) Financial Markets, the Banking System, and Monetary Policy
ECO 4431 (3) Analysis of Economic Data
Other required Economics coursework (12 hours)
12 additional hours of 3000/4000 Economics elective courses must be completed.
Supporting coursework (12 hours)
STA 2023 or STA 2122 or STA 4321 (3). (STA 2122 preferred)
MAC 1105 or MAC 1140 or MAC 2233 or MAC 2311 (3-4)
ACG 2021 (3) Introduction to Financial Accounting
ACG 2071 (3) Introduction to Managerial Accounting or FIN 3403 (3) Financial Management of the Firm
An internship is encouraged.

**Minor Coursework (both majors):** 12-18 hours.
A minor in an economics-related discipline is required. Minors are subject to approval by the Economics Department and must satisfy the requirements of the department in which the minor is offered. Blanket approvals are given for minors in: business, math, statistics, computer science, history, psychology, and anything in the social sciences. Any other desired minor must be approved in advance by the departmental Director of Undergraduate Studies. Students must contact the department offering the minor and their graduating dean’s office to determine requirements and must meet those requirements.

**Computer Skills Competency:** 0 beyond major. Economics: ECO 4421 (3). Applied Economics: ECO 4431 (3).

**Oral Communication Competency:** 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

**Minimum Program Requirements - Summary**
Total Hrs. Required 120
Liberal Studies 36*
Major Coursework (including Supporting Courses) 36-39*
Minor Coursework 12-18
Computer Skills 0 beyond major requirements
Oral Communication Competency
Other Coursework 0
Electives to bring total credits to 120
*Note: ECO 2013 (3) and ECO 2023 (3) are listed as “Major” requirements, but they may also satisfy some Liberal Studies requirements. Required mathematics and statistics courses may also satisfy some Liberal Studies requirements. Calculus is strongly recommended for students who plan to enter graduate school.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. Students who plan to earn the B. A. degree must complete a foreign language through the intermediate (2200 or equivalent) level and nine additional hours in the fields of history and humanities.

Employment Information
Representative Job Titles Related to this Major: Bank Examiner, Consultant to business, government, etc., Credit Analyst, Investment Analyst, Economic Analyst, Loan Officer, Financial Reporter/Analyst, Purchasing Agent, Teacher: College or Junior College (with further education), Securities Broker, Underwriter, Actuary, Insurance Claim Examiner.

Representative Employers: Banks and Financial Institutions, Large Manufacturing Firms, Insurance Companies, Research Firms, Brokerage Houses, Trade Unions, Governmental Agencies, Business Associations, College and Universities (Ph.D. graduate), Consulting Firms.

Updated: Summer, 2013
ELEMENTARY EDUCATION
College: Education
Degree: B. S.
Limited Access: YES
Contact: Jeannie McDowell
Address: G107 Stone Building, FSU
Tallahassee, FL 32306-4460
Phone: (850) 645-8316
E-Mail: jmcdowell@fsu.edu

Description of Major
The Elementary Education curriculum leads to the bachelor’s degree and eligibility for certification for teaching grades K-6 in the Florida public schools, ESOL and reading endorsements. The program is NCATE approved; graduation from the program entitles the graduate to certification in other states beyond Florida. Courses taken include expressive arts, elementary education, math education, science education, and social studies education, psychological and sociological foundations, reading, and language arts. Most of these courses require field experiences in local public schools. A full-time internship in the public schools is a requirement.

Prerequisite Coursework: 9 hours beyond Liberal Studies.
Pre-education Core
EDF X005 (3) Introduction to Education
* EDF X085 (3) Teaching Diverse Populations
EME X040 (3) Introduction to Educational Technology
* In addition to EDF X085, the student must take 6 hours with an international or diversity focus. Eligible courses will be determined by the institution where the student is earning his/her associate in arts (AA) or baccalaureate degree. Foreign language courses may be used to meet this requirement.

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Upper-Division Major
This program is a Limited Access Teacher Education program and admits a limited number of students. Students seeking admission to this teacher education program must meet the following minimum requirements:
1. Meet the general criteria for transfer into an FSU degree-granting program (see Bulletin),
2. Complete Liberal Studies requirements or an A.A. degree with a grade of “C” or higher in each freshman English and each basic mathematics course,
3. Complete the Pre-education Core listed above with a grade of “C” or better,
4. Achieve a passing score on each section of the general knowledge section of the FTCE,
5. Achieve an overall 2.5 GPA minimum.
6. Students are required to be fingerprinted and pass a security clearance upon admission to the major program of studies.

Note: Meeting minimum admission requirements does not guarantee admission to the program.

Students are admitted into this major for the Fall and Spring Terms only. Applicants to Elementary Education are selected on the basis of multiple criteria: GPA, SAT/ACT scores, relevant experience, professional promise, and rigor of lower-division coursework. To be considered for admission, applicants must submit the following by March 1 for Fall Semester or October 1 for Spring Semester: 1) an application form, available in online at http://www.coe.fsu.edu/Academic-Programs/Departments/School-of-Teacher-Education-STE/Degree-Programs/Elementary-Education/Undergraduate , 2) transcripts of previous coursework and documentation of test scores and GPA attached to application, 3) contact information for three references (one from someone who taught you in high school or college; one from someone who has observed you interacting with children; and a professional/academic reference), 4) a typed essay: your response to Teaching in a Changing World, 1½ pages, and 5) a checklist of program requirements. In addition, students must be certified to upper division with all Liberal Studies finished or an AA Degree.

To encourage success in the program coursework as well as on exit exams, it is highly recommended that students take the following courses while finishing their Liberal Studies/general education coursework: three (3) science courses, at least one biological and one physical; AMH 2010 or AMH 2020; statistics, College Algebra (MAC 1105) or higher math course.
Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at [www.academic-guide.fsu.edu/](http://www.academic-guide.fsu.edu/).

Major Program of Studies at FSU: 63 hours
EDE 4907r (5) Directed Field Experience
EDE 4302 (3) Literacy Assessment and Instruction
EDE 4316 (3) Differentiating Reading Instruction
EDE 4943 (10) Student Teaching in Elementary Education
EDF 4210 (3) Human Development and Learning
EDG 4410 (3) Classroom Management, School Safety, Law, and Ethics
EEC 4930 (3) Special Topics in Early Childhood: Science Concepts & Skills for Elementary Education
EEX 4070 (3) Including Students with Disabilities
LAE 4314 (3) Language Arts for Elementary School
MAE 4310 (3) Teaching Mathematics in the Elementary School
MAE 4326 (3) How Children Learn Mathematics
RED 4310 (3) Early Literacy Learning
RED 4510 (3) Teaching Reading in the Elementary School
RED 4941 (3) Practicum in ESOL/Reading (RESOL)
SCE 4310 (3) Teaching Science in the Elementary School
SSE 4113 (3) Elementary School Social Studies
TSL 4080 (3) Language Principles for Teachers
TSL 4081 (3) Teaching English Language Learners

Program continuation requirements:
In order to continue in the program, students must:
1. Gain admission into teacher education by the end of the first term
2. Earn a C or higher in each course required for major, and
3. Maintain an overall GPA of 2.5 in all required major coursework.

Program completion requires
Passing the general knowledge, professional education, and subject area tests (Florida Teacher Certification Exam) that are required for teacher certification in the state of Florida. These must be completed prior to the semester in which the student plans to student teach.

Computer Skills Competency: 0 hours beyond prerequisites. EME 2040 (3).

Oral Communication Competency: 0 hours beyond major. EDG 4410 (3).
Students must demonstrate the ability to orally transmit ideas and information clearly. Elementary Education majors complete this requirement by completing designated assignments in EDG 4410 with a C or better and successful completion of the course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36
Pre-education Core 9
Major Coursework 63
Computer Skills 0 beyond Pre-ed. Core
Oral Communication Competency 0 beyond major
Electives to bring total credits to 120

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
Employment Information

Representative Job Titles Related to this Major: Teacher of Elementary, Middle School, Guidance Counselor (with graduate school), Recreation Supervisor, Youth Organization Worker, Sales Representative, School Equipment & Supplies.

Representative Employers: Schools: Public, Private Boards of Education; Correctional Institutions; Adoption & Child Care Agencies; Community Organizations; YMCA & YWCA's; Government Agencies; Manufacturers of Childcare Products.

Updated: Summer, 2013
ENGINEERING

CHEMICAL, CHEMICAL-MATERIALS, and BIOMEDICAL ENGINEERING

College:   Engineering
Degree:   B. S.
Limited Access:  NO
Contact:   Dr. Wright Finney
Address:  2525 Pottsdamer St.
          Suite A131
          Tallahassee, FL 32310-6046
Phone:   (850) 410-6149
E-Mail:   advising.cbe@eng.fsu.edu

Description of Major
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 undergraduate curriculum emphasizes the application of experimental and computer analysis to classical chemical engineering principles. This includes laboratory instruction in modern, state-of-the-art facilities in the transport phenomena, unit operations, and process control laboratories. Students are instructed in and utilize state-of-the-art computational programs such as Aspen and COMSOL Multiphysics. In order to meet newly developed interests in chemical engineering and related fields, elective courses are available in bioengineering, polymer engineering, materials engineering, electrochemical engineering, environmental engineering, and biomedical engineering. The major options in Chemical-Materials Engineering and Biomedical Engineering build upon the core classical chemical engineering principles developed initially for the original major in Chemical Engineering. Consult an advisor for specific requirements for the three major options.

ABET
The Accreditation Board for Engineering and Technology, Inc. (ABET) requires that all students graduating from an ABET-accredited program meet certain requirements. Completion of the A.A. degree will not necessarily meet these requirements. Prospective majors should select courses after consulting an advisor.

Prerequisite Coursework:
Students must complete the following prerequisites required for admission in preparation for the upper division major. Students are encouraged to complete these in the freshman and sophomore years. All may also apply to other requirements.
MAC X311 (4) Calculus I
MAC X312 (4) Calculus II
MAC X313 (4-5) Calculus III
MAP X302 (3) Ordinary Diff. Equations or MAP X305. (FSU students take ECH 3301 Intro. to Process Analysis and Design)
CHM X045, X045L (3,1) General Chemistry I and Lab
CHM X046, X046L (3,1) General Chemistry II and Lab
PHY X048C (5) General Physics A with Lab
PHY X049C (5) General Physics B with Lab

Strongly recommended:  BSC X010 (3) Biological Science I

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for Progression to the Upper-Division Major
To be admitted, students must complete at least 52 hours of credit with an adjusted GPA of 2.0, including at least one-half of the required hours in the Liberal Studies program, including all of Area I and II (English, Math). In addition, the following requirements must be met:
• A grade of C or better in EGN 1004L (1) First Year Engineering Lab, and a grade of C or better from any institution attended in Calculus I, Calculus II, General Chemistry I with Lab, and General Chemistry II with Lab. A single repeated attempt in only one of these courses is permitted.
Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 110 hours
The aggressive, motivated student with proper high school preparation can complete a Chemical Engineering degree in about four years by taking a course load averaging 16-18 hours each semester supplemented by taking courses during summer terms. Some students may require additional terms to complete the program. A student with superior training may gain advanced placement through programs for acceleration (credit by exam, high school dual-enrollment). Students may choose to specialize in any of the three major options of tracks through the selection of Advanced Chemistry and Advanced Chemical Engineering electives. Biomedical Engineering majors must complete additional coursework. Students may access the current departmental curriculum guide: http://www.eng.fsu.edu/cbe/undergraduate/.

Math/ Basic Science/ Economics (41 hours)
MAC 2311 (4) Calculus I
MAC 2312 (4) Calculus II
MAC 2313 (5) Calculus III
ECH 3301 (4) Introduction to Process Analysis and Design
CHM 1045, 1045L (3,1) General Chemistry I and Lab
CHM 1046, 1046L (3,1) General Chemistry II and Lab
BSC 2010 (3) Biological Science I
PHY 2048C (5) General Physics A with Lab
PHY 2049C (5) General Physics B with Lab
ECO 2023 (3) Economics of the Price System

Advanced Chemistry (Chemical, Chemical-Materials Majors 13 hours. Biomedical Majors 10 hours)
CHM 2210 (3) Organic Chemistry I
CHM 2211 (3) Organic Chemistry II
CHM 4410 (3) Physical Chemistry I
CHM 4410L (1) Physical Chemistry I Lab
CHM XXXX or BCH XXXX (3) Advanced Chemistry Elective (not required for Biomedical Engineering majors)

General Engineering (Chemical-Materials Majors 8 hours. Biomedical Majors 5 hours)
EGN 1004L (1) First Year Engineering Lab
EGM 3512 (4) Engineering Mechanics

Biomedical Engineering Majors Only:
In addition to the above, Biomedical Engineering majors complete
PSY 2012 (3) General Psychology
BME 3009 (3) Introduction to Biomedical Engineering
BME 4403C, 4404C (3, 3) Quantitative Anatomy and Systems Physiology I and II
**Computer Skills Competency:** 0 hours beyond major. ECH 3854 (4).

**Oral Communication Competency:** 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. The department teaches a course that will meet this requirement: ECH 2050 (2) Chemical Engineering Communications.

**Minimum Program Requirements - Summary**
Total Hrs. Required 131
Liberal Studies 36*
Major Coursework 110*
Minor Coursework 0
Computer Skills 0 beyond other requirements
Oral Communication Competency 0-3
Electives 0

*Note: Engineering students satisfy the natural science and the mathematics area requirements of Liberal Studies through coursework in the Engineering Core. Students not prepared to begin mathematics with Calculus I (MAC 2311) will need to take additional prerequisite hours in mathematics: MAC 1105, 1114, and/or 1140. All students should take the on-campus exemption test (AMP) in mathematics to determine proper placement. ECO 2023 is required for all major options and PSY 2012 is also required for Biomedical Engineering; these should be taken as part of Liberal Studies.

**Remarks:**
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

**Employment Information**
Representative Job Titles Related to this Major: Chemical Engineer, Petroleum Engineer, Environmental Engineer, Biomedical Engineer, Biochemical Engineer, Design Engineer, Food Engineer, Development Engineer, Polymer Engineer, Project Engineer, Process Engineer, Research Engineer, Materials Engineer.

Representative Employers: 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 graduate in chemical engineering is particularly versatile. Industrial work may involve the production, operation, or research departments of chemical or allied plants, such as inorganic chemicals (e.g., acids, alkalis, pigments, fertilizers), organic chemicals (e.g., petroleum, petrochemicals, polymers, fuels, propellants, plastics, pharmaceuticals, specialty chemicals), biological products (e.g., enzymes, vaccines, biochemicals, biofuels), materials (e.g., ceramics, polymeric materials, paper, biomaterials), and foods. Employment is also available in the technical service, process improvement, or environmental compliance sections of such industries. Graduate education in chemical engineering, biomedical engineering, medical school, dental school, business school, law school, and other science or engineering disciplines are viable alternatives for the more accomplished graduate. Research and development work or policy analysis at governmental agencies, and university/college teaching are other employment options.

Updated: Summer, 2013
Description of Majors

Civil Engineering: Civil engineers have a primary role in creating the “built environment” and in protecting the “natural environment.” They plan, design, construct, and operate buildings, highways, airports, pipelines, bridges, dams and levees, irrigation works, water supply systems, wastewater treatment system, and various other components of the built environment. The scope of civil engineering also includes responsibilities for environmental and social impacts, which have taken on greater importance as our society has learned to articulate its concerns about urban problems, environmental quality, energy, and improvement of the quality of life. Civil Engineering emphasizes all aspects of civil engineering practice including structural analysis/design, geotechnical, transportation, hydraulics, hydrology, water resources, and the management of all waste streams.

Environmental Engineering: Environmental Engineering focuses primarily on environmental engineering, hydraulics, hydrology, water resources, and the management of all waste streams. As an environmental engineer you will help prevent and solve environmental Problems and may be involved in many public works projects funded by the federal, state and municipal governments, as well as those in the private sector.

ABET

The Accreditation Board for Engineering and Technology (ABET) requires that all students graduating from an ABET-accredited program meet certain requirements. Completion of the A.A. degree will not necessarily meet these requirements. Prospective majors should select courses after consulting an advisor.

Prerequisite Coursework:

Students must complete the following prerequisites required for admission in preparation for the upper division major. Students are encouraged to complete these in the freshman and sophomore years. All may also apply to other requirements.

MAC X311 (4) Calculus I
MAC X312 (4) Calculus II
MAC X313 (4-5) Calculus III (5 credits at FSU)
MAP X302 (3) Ordinary Differential Equations or MAP X305(3) Engineering Math I
CHM X045, X045L (3, 1) General Chemistry I, Lab
PHY X048C (5) General Physics A with Lab
PHY X049C (5) General Physics B with Lab

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flyvc.org.

Requirements for Progression to the Upper-Division Major

To be admitted, students must complete at least 52 hours of credit with an adjusted GPA of 2.0, including at least one-half of the required hours in the Liberal Studies program, including all of Area I and II (English, Math). In addition, the following requirements must be met:

- A grade of C or better in EGN 1004L (1) First Year Engineering Lab; and, a grade of C or better, from any institution attended, in Calculus I, Calculus II, General Chemistry I with Lab, and General Physics I with Lab. A single repeated attempt in only one of these courses is permitted.

Mapping

Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu.
Major Program of Studies at FSU: 105 hours
The aggressive, strongly motivated student with proper high school preparation can complete an Engineering degree in about 4 years, including a summer semester, by taking a course load of 16-18 hours each semester. Other students may require more time. All students are encouraged to take the Fundamental in Engineering (F.E.) Examination prior to graduation.

Coursework common to both majors (58 hours)
Mathematics and basic science (36 hours)
MAC 2311, 2312, 2313 (4, 4, 5) Calculus I, II, III
Statistics (Group D) (3).  Select one:
   STA 2122 (3) Intro. to Applied Statistics or STA 2032 (3) Applied Statistics for Engineers & Scientists
   MAP 3305 (3) Engineering Math I or MAP 2032 (3) Differential Equations
PHY 2048C, 2049C (5, 5) Gen. Physics A and B with Labs
CHM 1045, 1045L (3,1) General Chemistry I with Lab
Required science elective (Group B) (3).  Select one of the following:
   BSC 2010 (3) Biological Science I, MET 2700 (3) General Meteorology, GLY 2010C (4) Physical Geology, GLY 1030 (3)
   Environmental Issues in Geology, PCB 3043 (3) General Ecology, or OCE 4008 (3) Principles of Oceanography.
Core engineering science (22 hours)
ENG 1004 (1) First Year Engineering Lab
ENG 2123 (3) Engineering Graphics
CEG 2202, CEG 2202L (3,1) Introduction to Geomatics Engineering, Lab
EEL 3003 (3) Introduction to Electrical Engineering
EGM 3512 (4) Engineering Mechanics
EGN 3331 (3) Strength of Materials
EGN 3613 (2) Engineering Economy
EML 2100 (2) Thermodynamics

Civil Engineering, additional requirements (47 hours)
Additional basic engineering, science and design core courses (21 hours.)
CCE 3101 (3) Construction Materials
CEG 3011 (3) Soil Mechanics
CES 3100 (4) Structural Analysis
CGN 3508L (1) CE Materials Lab
CWR 3200L (1) Environmental/ Hydraulics Lab
CWR 3201 (3) Hydraulics
EES 3040 (3) Introduction to Environmental Engineering Science
TTE 3004 (3) Transportation Engineering
Students must complete courses in each of the following areas (21 hours):
1. Structures (3 hrs.)
   CES 4605 (3) Steel Design or CES 4702 (3) Concrete Design
2. Geotechnical (3 hrs.)
   CEG 4801 (3) Geotechnical Design or CEG 4111 (3) Foundation Design
3. Construction/Transportation (3 hrs.)
   CCE 4XXX (3) Construction Elective or TTE 4XXX (3) Transportation elective
4. Environmental/Water Resources (3 hrs.)
   ENV 4001 (3) Environmental Engineering or CWR 4XXX (3) Water Resources Elective
5. Math/Engineering/Science Electives (Group B) (6 hrs.)
Two courses must be completed. One must be a 4000-level course offered by the Department of Civil & Environment Engineering that is not being used to meet another requirement. The other may be from the CEE Department or from an approved 3000/4000 level courses from other Engineering departments, mathematics, or science.
6. Professional/Technical Elective (Group C). (3 hours)
Students must complete one approved course outside the CEE department emphasizing professional development, computing, or other professional skills.
Civil Engineering Major Design Experience (5 hours)
CGN 4800 (2) Pre-senior Design and Professional Issues
CGN 4802 (3) Senior Design Project
Environmental Engineering, additional requirements (47 hours)
Additional basic science, engineering, and design core courses (21 hours)
CHM 1046, 1046L (3,1) Chemistry II, Lab or MCB 2004, 2004L (3,1) Microbiology, Lab
CCE 3101 (3) Construction Materials
CEG 3011 (3) Soil Mechanics
CGN 3508L (1) CE Materials Lab
CWR 3200L (1) Environmental/Hydraulics Lab
CWR 3201(3 Hydraulics
EES 3040 (3) Introduction to Environmental Engineering Science
TTE 3004 (3) Transportation Engineering
Students must complete courses in each of the following areas (21 hours):
1. Environmental (3 hrs.)
   ENV 4100 (3) Environmental Eng. Processes
2. Water Resources (3 hrs.)
   CWR 4XXX (3) Water Resources elective
3. Geotechnical (3 hrs.)
   CEG 4801 (3) Geotechnical Design or CEG 4111 (3) Foundation Design
4. Construction or Transportation (3 hrs.)
   TTE 4XXX (3) Transportation elective or CCE 4XXX (3) Construction elective
5. Math/Engineering/Science Electives (Group B) (6 hrs.)
   Two courses must be completed. One must be a 4000-level course offered by the Department of Civil & Environment Engineering that is not being used to meet another requirement. The other may be from the CEE Department or from an approved 3000/4000 level courses from other Engineering departments, mathematics, or science.
6. Professional/Technical Elective (Group C). (3 hours)
   Student must complete one approved course outside the CEE department emphasizing professional development, computing, or other professional skills.
Major Design Experience (5 hours)
CGN 4800 (2) Pre-senior Design and Professional Issues
CGN 4802 (3) Senior Design Project

Computer Skills Competency: 0 hours beyond major. CEG 2202L (1) or EGN 2212 (3).

Oral Communication Competency: 0 hours beyond major requirements
Students must demonstrate the ability to orally transmit ideas and information clearly. If the following courses (required for this major) are taken in the listed sequence, this requirement will be satisfied: CGN 4800 and CGN 4082.

Minimum Program Requirements - Summary
Total Hrs. Required 128-129*
Liberal Studies 24*
Major Coursework 105*
Minor Coursework 0
Computer Skills 0 beyond major requirements
Oral Communication Competency 0 beyond other requirements

*Note: Students satisfy the Mathematics and Natural Science area requirement through major coursework. Students not prepared for Calculus I (MAC 2311) will need to take additional hours (pre-requisites MAC 1105, 1114 and 1140, or 1147).

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Structural Engineer, Transportation & Pipeline Engineer, Environmental Engineer, Highway Engineer, Water Resource Engineer, Construction Engineer, Hydraulic Engineer, Geotechnical Engineer, Engineering Management. Representative Employers: Consulting Firms - Domestic and Foreign, State and Federal Government, U.S. Army Corps of Engineers.
(Updated: Summer, 2013)
Description of Majors

Electrical Engineering: The bachelor of science in electrical engineering 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 communication systems, control systems, digital signal processing, digital systems, electromagnetics, micorelectronics, and power systems. They also must demonstrate sufficient knowledge and technical skills needed to complete a major design experience and to function as a member of a multi-disciplinary team.

Computer Engineering: The bachelor of science in computer engineering degree program prepares its graduates for a successful career in the interdisciplinary field of computer engineering. The program is built on the foundation of the electrical engineering program. 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.

ABET

The Accreditation Board for Engineering and Technology (ABET) requires that all students graduating from an ABET-accredited program meet certain course requirements. Completion of the A.A. degree will not necessarily meet these requirements. Prospective majors should select courses after consulting an advisor.

Prerequisite Coursework:

Students must complete the following prerequisites required for admission in preparation for the upper division major. Students are encouraged to complete these in the freshman and sophomore years. All may also apply to other requirements.

Both electrical and computer engineering
MAC X311 (4) Calculus I
MAC X312 (4) Calculus II
MAC X313 (4-5) Calculus III
MAP X302 (3) Differential Equations or MAP X305 (3) Engineering Math I
CHM X045, X045L (3,1) General Chemistry I with Lab
PHY X048C (5) General Physics A with Lab
PHY X049C (5) General Physics B with Lab

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for Progression to the Upper-Division Major

To be admitted, students must complete at least 52 hours of credit with an adjusted GPA of 2.0, including at least one-half of the required hours in the Liberal Studies program, including all of Area I and II (English, Math). In addition, the following requirements must be met:

• A grade of C or better in EGN 1004L (1) First Year Engineering Lab; and, a grade of C or better, from any institution attended, in Calculus I, Calculus II, General Chemistry I with Lab, and General Physics I with Lab. A single repeated attempt in only one of these courses is permitted.
Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 105 hours
Required for both computer and electrical engineering majors: 76 hours
First year lab (1 hour) Must be completed as part of the pre-engineering requirements.
EGN 1004L (1) First Year Engineering Lab
Mathematics and basic sciences (34 hours)
CHM 1045, 1045L (3, 1) General Chemistry I with Lab
PHY 2048C, 2049C (5, 5) General Physics I and II with Labs
MAC 2311, 2312, 2313 (4, 4, 5) Calculus I, II, III
MAP 2302 (3) Ordinary Differential Equations
MAS 3105 (4) Applied Linear Algebra
General engineering core (9 hours)
COP 3014 (3) Programming I
EGM 3512 (4) Engineering Mechanics
EML 3100 (2) Thermodynamics
Required Electrical Engineering (33 hours)
EEL 3111 (3) Introduction to Circuit Analysis
EEL 3XXX (2) ECE Engineering Tools Lab (number applied for)
EEL 3112 (3) Advanced Circuit Analysis with Computers
EEL 3112L (1) Advanced Circuits Lab
EEL 3135 (3) Signal & Linear Systems Analysis
EEE 3300 (3) Electronics
EEE 3300L (1) Electronics Lab
EEL 3705 (3) Digital Logic Design
EEL 3705L (1) Digital Logic Lab
EEL 4021 (3) Statistical Topics in E.E.
EEL 4515 (3) Digital Communications
EEL 4746 (3) Micro. Based System Design
EEL 4746L (1) Micro. Based System Design Lab
EEL 4911C (3) Senior Design Project
Additional courses required of Electrical Engineering Majors: 28 hours
EEL 4301L (1) Advanced Electronics Lab or EEL 4435L (1) Electromagnetics Lab or EEL 4217 (1) Power Lab
EEL 3472 (3) Electromagnetic Fields
EEL 4915C (3) EE Senior Design Project II
EE Tier-2 courses. Select 4 courses (12 hours) from the following: EEL 3216, EEL 3473, EEL 4351, EEE 4510, EEL 4652, EEL 4710.
Technical Electives (9). Only one may be a non-EEL technical elective chosen from the approved list.
Additional courses required of Computer Engineering Majors: 28 hours
MAD 2104 (3) Discrete Math
COP 3353 (1) Introduction to Unix
COP 3330 (3) Object Oriented Programming
COP 4530 (3) Data Structures
COP 4610 (3) Introduction to Operating Systems
EEL 4710 (3) Introduction to FPLD’s
EEL 4713 (3) Computer Architecture
EEL 4914C (3) CpE Senior Design Project Laboratory
(6) Approved CpE Technical Electives

Computer Skills Competency: 0 hours beyond major. EEL 3705L (1).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. EEL 4911C will meet this requirement.
Minimum Program Requirements - Summary
Total Hrs. Required 128*
Liberal Studies 36*
Major Coursework 105
Minor Coursework 0
Computer Skills 0 beyond major requirements
Oral Communication Competency 0-3
Electives 0

*Note: Engineering students satisfy the Natural Science area and mathematics requirements through coursework in the Engineering Core. Students not prepared to begin mathematics with Calculus (MAC 2311) will need to take additional hours (pre-requisites MAC 1105, 1114, 1140). All students should take the on-campus exemption test (AMP) in mathematics to determine proper placement.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Electrical Engineer, Computer Engineer, Analog Circuit Design Engineer, Applications Engineer, Product Development Engineer, Systems Engineer (Control, Communications, Computer), Digital Circuit Design Engineer, Power Engineer.

Updated: Summer, 2013
ENGINEERING
INDUSTRIAL ENGINEERING
College: Engineering
Degree: B. S.
Limited Access: NO
Contact: Mr. John Taylor
Address: 2525 Pottsdamer St.
         Suite A231
         Tallahassee, FL 32310-6046
Phone: (850) 410-6345
E-Mail: jotaylor@eng.fsu.edu

Description of Major
Industrial Engineering draws upon specialized knowledge and skills in mathematical, physical and social sciences, together
with the principles and methods of engineering design and analysis, to design, operate, predict, and evaluate industrial systems.
The usual objective is to obtain an optimal production system, process or procedure.

The BSIE curriculum includes engineering design for the optimization of industrial systems, specification of manufacturing
systems, and scientific management of activities and processes. Specialized training is available in the use of modern
engineering tools and techniques such as computer based modeling, manufacturing, product-process-system design, and
applied probability and statistics.

ABET
The Accreditation Board for Engineering and Technology (ABET) requires that all students graduating from an ABET-
accredited program meet certain requirements. Completion of the A.A. degree will not necessarily meet these requirements.
Prospective majors should select courses after consulting an advisor.

Prerequisite Coursework:
Students must complete the following prerequisites required for admission in preparation for the upper division major.
Students are encouraged to complete these in the freshman and sophomore years. All may also apply to other requirements.
MAC X311 (4) Calculus I
MAC X312 (4) Calculus II
MAC X313 (4-5) Calculus III
MAP X302 (3) Ordinary Differential Equations or MAP X305 (3) Engineering Math I
CHM X045, X045L (3,1) General Chemistry I with Lab
PHY X048C (5) General Physics A with Lab
PHY X049C (5) General Physics B with Lab

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable
alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of

Requirements for Progression to the Upper-Division Major
To be admitted, students must complete at least 52 hours of credit with an adjusted GPA of 2.0, including at least one-half of the
required hours in the Liberal Studies program, including all of Area I and II (English, Math). In addition, the following
requirements must be met:
• A grade of C or better in EGN 1004L (1) First Year Engineering Lab; and a grade of C or better, from any institution
  attended, in Calculus I, Calculus II, General Chemistry I with Lab, and General Physics I with Lab. A single repeated
  attempt in only one of these courses is permitted.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to
ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to
be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Study at FSU: 103-104 hours
Basic science and math (33 hours)
MAC 2311, 2312, 2313 (4, 4, 5) Calculus I, II III
MAP 2302 (3) Ordinary Differential Equations
MAS 3105 (3) Linear Algebra
PHY 2048C, 2049C (5, 5) Gen. Physics I and II with Labs
CHM 1045, 1045L (3,1) General Chemistry I with Lab

Core and general engineering (17-18 hours)
EGN1004L (1) First Year Engineering Lab (not required of transfers with AA degree or higher)
EGN 2123 (2) Graphics for Engineers
EGM 3512 (4) Engineering Mechanics
EML 3100 (2) Thermodynamics
COP 3014 (3) Programming I
EEL 3003, 3003L (3, 1) Introduction to Electrical Engineering w/ Lab
EGN 3613 (2) Principles of Engineering Economy

Industrial engineering requirements (53 hours)
EGN 3443 (3) Statistical Topics in Industrial Engineering
EIN 3104 (3) Introduction to Engineering Management
EIN 3XXXC (3) Manufacturing Processes and Materials Engineering with Lab
EIN 4243 (3) Human Factors, Work Measurement, and Methods Engineering
EIN 4XXXC (3) Manufacturing Process II & Materials Engineering with Lab
EIN 4333 (3) Design of Integrated Production Systems and Facilities Layout
EIN 4621 (3) Manufacturing Systems Engineering
EIN 4890 (3) Industrial Engineering Senior Design Project I
EIN 4892 (3) Industrial Engineering Senior Design Project II
EIN 4XXX (3) Industrial & Manufacturing Engineering Tools
EIN 4XXX (2) Industrial & Manufacturing Engineering Practicum
ESI 3312C (3) Operations Research I
ESI 4234 (3) Quality Control and Reliability Engineering
ESI 4313 (3) Operations Research II
ESI 4523 (3) Simulation of Industrial Engineering Systems
ESI 3628 (3) Computing Topics in IE
(3) Technical Elective
(3) IE Elective

Computer Skills Competency: 0 hours beyond major. COP 3014 (3) preferred or CGS 3406 (3).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 127-128
Liberal Studies 24*
Major Coursework 103-104*
Minor Coursework 0
Computer Skills 0 beyond major requirements.
Oral Communication Competency 0-3
Electives 0

*Engineering students satisfy the natural science area and mathematics requirements through coursework in the Engineering Core. Students not prepared to begin mathematics with Calculus (MAC 2311) will also need to take prerequisite courses: MAC 1105, 1114, 1140. All students should take the on-campus exemption test (AMP) in mathematics to determine proper placement.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. Contact department for curriculum update.
Employment Information

Representative Job Titles Related to this Major: Industrial Engineer, Manufacturing Engineer, Production Engineer, Systems Engineer, Applications Engineer, Systems Analyst

Representative Employers: Government, Private Business, Industry, Education. The following illustrates some of the jobs Industrial Engineers perform: Design and installation of a semiconductor manufacturing systems; Creation of more productive work flow within major hospital; Design of instrument display and interior space for Apollo spacecraft; Scheduling and routing of public transportation system; Determination of airline routes; Design of waiting lines at Disneyland/Disney world; Facilities layout at auto assembly plant; Improvement of product quality; Computer applications in manufacturing.

Updated: Summer, 2013
ENGINEERING
MECHANICAL
College: Engineering
Degree: B. S.
Limited Access: NO
Contact: Dr. Patrick Hollis
Address: 2525 Pottsdamer St., Room 229
Tallahassee, FL 32310-2870
Phone: (850) 410-6331
E-Mail: hollis@eng.fsu.edu

Description of Major
The Bachelor of Science (BS) program in the Department of Mechanical Engineering is designed to provide background for a wide variety of careers. The discipline of mechanical engineering is very broad, but generally emphasizes an appropriate mix of thermal science, mechanics and materials, dynamic systems, and design. Graduates typically enter various energy, aerospace, or product manufacturing industries, or government laboratories.

The undergraduate program is designed to impart a broad knowledge in basic and engineering sciences and to provide a solid understanding of contemporary engineering practices. The program also seeks to provide students with a foundation in communications skills, principles of economics, and other fundamentals upon which they will draw in their professional careers. Special emphasis is placed on communication skills by requiring extensive written laboratory reports and design project presentations. Computer literacy is bolstered by a variety of course assignments throughout the program and especially in the design projects, wherein students are exposed to a number of design software programs widely used in the engineering industry.

ABET
The Accreditation Board for Engineering and Technology (ABET) requires that all students graduating from an ABET-accredited program meet certain requirements. Completion of the A.A. degree will not necessarily meet these requirements. Prospective majors should select courses after consulting an advisor.

Prerequisite Coursework: 0 hours beyond other requirements
The State of Florida has identified common program prerequisites for this degree program. These are required for admission to the upper-division program and must be completed by the student at either a community/state college or university prior to being admitted to this program. Students may be admitted to the University without completing the prerequisites, but may not be admitted to the upper-division program. Students are strongly encouraged to select lower-division courses that will satisfy their general education (Liberal Studies) requirements and that will support their intended baccalaureate degree program. Students should consult with an academic advisor regarding course selection.

MAC X311 (4) Calculus I
MAC X312 (4) Calculus II
MAC X313 (4-5) Calculus III
MAP X305 (3) Engineering Math I or MAP X302 (3) Ordinary Differential Equations
CHM X045, X045L (3,1) General Chemistry I with Lab
PHY X048C (5) General Physics A with Lab
PHY X049C (5) General Physics B with Lab

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Transferring students are strongly urged to confirm that one of their general education courses to be transferred will meet FSU’s multicultural requirement.

Requirements for Progression to the Upper-Division Major
To be admitted, students must complete at least 52 hours of credit with an adjusted GPA of 2.0, including at least one-half of the required hours in the Liberal Studies program, including all of Area I and II (English, Math). In addition, the following requirements must be met:
• A grade of C or better in EGN 1004L (1) First Year Engineering Lab; and, a grade of C or better, from any institution attended, in Calculus I, Calculus II, General Chemistry I with Lab, and General Physics I with Lab. A single repeated attempt in only one of these courses is permitted.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 104-105 hours.
First year lab (1 hour) Must be completed as part of the pre-engineering requirements.
EGN 1004L (1) First Year Engineering Lab
Mathematics and basic sciences (33-34 hours)
CHM1045, 1045L (3, 1) General Chemistry I
PHY 2048C (5) General Physics A
PHY 2049C (5) General Physics B
MAC 2311 (4) Calculus with Analytic Geometry I
MAC 2312 (4) Calculus with Analytic Geometry II
MAC 2313 (5) Calculus with Analytic Geometry III
MAP 3305 (3) Engineering Mathematics I or MAP 2302 (3) Ordinary Differential Equations
General engineering core (3 hours)
EEL 3003 (3) Introduction to Electrical Engineering
Required Mechanical Engineering (67 hours)
EML 3002 (2) Mechanical Engineering Tools
EML 3002L (3) Mechanical Engineering Tools Lab
EML 3004 (3) Introduction to Mechanical Engineering
EML 3011C (4) Mechanics and Materials I
EML 3012C (3) Mechanics and Materials II
EML 3013C (4) Dynamic Systems I
EML 3014C (3) Dynamic Systems II
EML 3015C (4) Thermal-Fluids I
EML 3016C (4) Thermal-Fluids II
EML 3017C (4) Mechanical Systems I
EML 3018C (4) Mechanical Systems II
EML 3234 (3) Materials Science and Engineering
EML 3811 (2) Mechatronics I
EML 4304L (3) Thermal Fluids Lab
EML 4550 (3) Engineering Design Methods
EML 4551C (3) Senior Design Project I
EML 4552C (3) Senior Design Project II
XXX XXXX (12) Technical Electives

Computer Skills Competency: 0 hours beyond major. EML 3002C (4)
Oral Communication Competency: 0 hours beyond major.
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. The required EML 4551C and EML 4552C will together meet this requirement.

Minimum Program Requirements - Summary
Total Hrs. Required 128*
Liberal Studies 36*
Major Coursework 104-105
Minor Coursework 0
Computer Skills Competency 0 beyond major coursework
Oral Communication Competency 0 beyond major coursework
Electives 0

*Engineering students satisfy the Liberal Studies natural science area and mathematics requirements through the Engineering Core. Students not prepared to begin mathematics with Calculus (MAC 2311) will need to take prerequisites--MAC 1105, 1114, 1140. Students who have not met the prerequisites for MAC 2311 should take the on-campus exemption test (AMP) or appropriate CLEP tests to determine placement. Students must also meet requirements in the Humanities and Social Science Areas, and should consult an advisor.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information

REPRESENTATIVE EMPLOYERS. Government, Private Business, Industry, Education

Updated: Summer, 2013
Description of Major
The Department of English offers students a curriculum that is central to the modern liberal arts education. One of the largest degree programs within the College of Arts and Sciences, the major allows students to emphasize either Literature, Creative Writing or Editing, or Writing & Media (EWM). Students may also pursue other specialized programs such as Honors in the Major, an English major with an emphasis in Business, or other independent courses of study. Undergraduate major coursework contributes 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. In addition to its primary benefit of intellectual growth, the English major also offers practical preparation for professional careers in teaching, professional writing, law, medicine, business, religious affairs, and all levels of government service.

Prerequisite Coursework:
Complete the following with a C- grade or higher.
ENC X101 (3) Freshman Composition and Rhetoric
ENC X102 (3) Freshman Writing, Reading and Research
Or six (6) semester hours of English (ENC) coursework in which the student is required to demonstrate college-level English skills through multiple assignments.
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Requirements for Progression to the Upper-Division Major
To be admitted, students must complete at least 52 hours of credit with an adjusted GPA of 2.0 on FSU coursework, and at least half the required hours in Liberal Studies, including all freshman English and mathematics, or an AA.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 33 hours in one of the following concentrations
General requirements include 33 hours of English in courses numbered above 1999. At least 21 hours must be in courses at the 3000 and 4000 levels. All courses counted toward the major must carry the grade of C- or better. Each student must choose one of the concentrations detailed below. NOTE: At least 9 hours of major coursework must be at the 4000 level.

Concentration in Literature (33 hours):
3 hours in American Literature, 3/4000 level
3 hours in pre-1660 British Literature, 3/4000 level
3 hours in pre-1800 British, 3/4000 level
3 hours post-1800 British, 3/4000 level
3 hours additional 3/4000 level literature
ENG 3014 (3) Critical Issues in Literary Studies
ENG 4934 (3) Senior Seminar [or ENG 4938 (3) Honors Seminar]
12 hours of English department electives at the 2000 and above level.

**Concentration in Creative Writing** (33 hours):

**Writing core (15 hrs):**
- 6 hours of 4000 level advanced writing workshops
- 9 hours of additional 3000/4000 level writing courses. Choose from Article and Essay, Fiction, and Poetry
At least two different genres of writing must be completed before graduation. 4000 level advanced workshops are available by application only and each advanced workshop is repeatable up to 24 semester hours.

**Literature core (15 hrs):**
- 3 hours of pre-1900 British literature at the 3/4000 level
- 12 hours of additional literature courses (AML, LIT, ENL prefix) at the 2000 and above level

**English department electives (3 hrs):**
3 hours in English department electives at the 2000 and above level.
Warning: Since the writing major is competitive and students are not guaranteed access to 4000 level advanced writing workshops, it would be wise to structure the literature core in line with requirements for the concentration in literature.

**Concentration in Editing, Writing, and Media** (33 hours):

**EWM core (9 hrs):**
- ENC 3021 (3) Rhetoric
- ENC 3416 (3) Writing and Editing in Print and Online
- ENG 3803 (3) History of Text Technologies

**Advanced requirements (9 hrs):**
- Three courses from the following
  - ENG 3804 (3) History of Illustrated Texts
  - ENC 4212 (3) Editing: Manuscripts, Documents, & Reports
  - ENC 4218 (3) Visual Rhetoric
  - ENC 4404 (3) Advanced Writing and Editing
  - ENG 4815 (3) What is a Text?
  - ENG 4020 (3) Rhetorical Theory and Practice
  - ENG 4834 (3) Issues in Publishing

**Internship in editing / publishing (3 hrs):**
- ENC 4942 Internship in Editing (3 hours required)

**English department electives (12 hrs):**
12 hours in English department electives at the 3000 or 4000 level.

**Concentration in English Studies** (33 hours):
Students with a cumulative GPA above 3.0 can create an individual course of study within the English major to pursue a period, genre, theme, theory and criticism, or a combination of areas such as popular culture and film. The proposal requires faculty panel approval in the student’s junior year—such courses should be chosen in conjunction with the Director of Undergraduate Studies or departmental advisor. General guidelines include:
- 33 total hours to include ENG3014 (3) Critical Issues in Literary Studies
- 24 hours must be at the 3/4000 level
- 9 hours must be 4000 level English courses
- 9 hours may be applied to the major from outside the department

**English with an Emphasis in Business**
This program is designed to provide both a liberal education and preparation for a business career. Students wishing to complete this program choose a concentration in Literature or Creative Writing. In addition to the major concentration requirements, students must complete 30 hours of business courses to include: ECO 2013 (3) Principles of Macroeconomics and ECO 2023 (3) Principles of Microeconomics. Students should see a department advisor for specific requirements. Students selecting the Emphasis in Business are not required to complete a minor.
Minor Coursework (Literature, Creative Writing, EWM, English Studies): 12 hours minimum. Must complete coursework specifically required by the minor department. Students completing the English-Business program automatically complete the minor. Students may elect a minor in Business without following the English Major with an Emphasis in Business.

Computer Skills Competency: 3 hours. CGS 2060 (3), CGS 2100 (3), CGS 2518 (3), or EME 2040 (3).

Oral Communication Competency: 0-3 hours. Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
- Min. Hrs. Required 120
- Liberal Studies 36*
- Major Coursework 33
- Minor Coursework 12 minimum
- Other Coursework 0-12 (depending on foreign language placement)
- Computer Skills 3
- Oral Competency 0-3
- Electives to bring total hours to 120

*Note: 3 hours of English may be used to meet both Liberal Studies and Major Coursework requirements.

Remarks:
1. Students must complete a minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Writer, Press Relations, Teacher, Critic, Personnel Officer, Archivist, Lawyer, Editor/Editorial Assistant, Researcher, Investigator, Administrative Officer, Reporter, Technical Writer, Management Trainee, Public Relations Specialist, Speech Writer, Legislative Assistant, Trainee, Information Specialist.

Representative Employers: Local School Boards; Universities, Colleges, Junior Colleges; Businesses; Publishers of Magazines, Newspapers, Books. An English major can qualify for a variety of positions in Education, State and Federal Government, and private industry and business. English majors are attractive to employers because of their classroom training in analysis, research, and interpretation, and because they are expected to be able to communicate effectively on paper or in public.

Updated: Summer, 2013
ENGLISH EDUCATION
College: Education
Degree: B. S.
Limited Access: YES
Contact: Advisor Liaison
Address: G107 Stone Building, FSU
         Tallahassee, FL 32306-4459
Phone: (850) 644-6738, (850) 645-9632
E-Mail: englished-advising@fsu.edu

Description of Major
The English Education major is a teacher preparation program designed to prepare personnel to teach English in secondary school settings (grades 6 - 12). The program includes required coursework in literature, linguistics, composition and rhetoric, and speech, as well as coursework in teaching methodology, including reading, writing, multiple literacies and English for second language learners. Some flexibility is afforded the individual student in selecting both required and elective coursework in order to capitalize on personal interests and career inclinations.

Prerequisite Coursework: 9 hours beyond other requirements
All students seeking to major in English Education are to complete the following degree prerequisites.

Pre-education Core
All are also included in major coursework.
EDF X005 (3) Introduction to Education
* EDF X085 (3) Teaching Diverse Populations
EME X040 (3) Introduction to Educational Technology
*In addition to EDF X085, the student must take 6 hours with an international or diversity focus. Eligible courses will be determined by the institution where the student is earning his/her associate in arts (AA) or baccalaureate degree. Foreign language courses may be used to meet this requirement.

English Education Program Prerequisites (12 hours)
Courses satisfying this requirement may also apply to the Liberal Studies, major, and/or oral comm. requirements.
SPC X608 (3) Fundamentals of Speech or SPC X017 or SPC X600
ENC X101 (3) Freshman English Composition I or equivalent
ENC X102 (3) Freshman English Composition II or equivalent
LIT XXXX (3) or AML XXXX (3) or ENL XXXX (3). A literature course

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Upper-Division Major
Students seeking admission to teacher education must meet the following requirements:
1. Meet the general criteria for transfer into an FSU degree-granting program (see Bulletin)
2. Complete Liberal Studies requirements or an A.A. degree with a grade of C- or higher in each freshman English and each basic mathematics course
3. Complete the English Education Program Prerequisites listed above
4. Complete the Pre-education core (EDF X005, EDF X085, EME X040)
5. Achieve a passing score on the General Knowledge portion of the FTCE
6. Achieve an overall 2.5 GPA minimum
7. Students are required to be fingerprinted and pass a security clearance prior to admission to the major program of studies.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 60 hours beyond program prerequisites.
NOTE: 6 hours of the following coursework apply toward meeting the program prerequisites and are “counted” in that total. Program completion includes passing the general knowledge, professional knowledge, and subject area tests that are required
for teacher certification in the state of Florida. Certification to teach in Florida requires a minimum 2.5 GPA in the field of specialization.

**Teaching Field Coursework in English (21 hours):**
To view approved courses, visit [http://www.coe.fsu.edu/Academic-Programs/Departments/School-of-Teacher-Education-STE/Majors/English-Education/Undergraduate/Program-Course-Requirements](http://www.coe.fsu.edu/Academic-Programs/Departments/School-of-Teacher-Education-STE/Majors/English-Education/Undergraduate/Program-Course-Requirements).

XXX XXXX (3) hours in general American Literature (see approved list)
XXX XXXX (3) hours in minority American literature (see approved list)
XXX XXXX (3) hours in British literature (see approved list)
ENL 3334 (3) Intro to Shakespeare or ENL 4333 (3) Shakespeare
XXX XXXX (3) Advanced Composition (see approved list)
LAE 4332 (3) Applied Linguistics for Teachers
XXX XXXX (3) hours in literature that reflects multicultural emphasis (see approved list)

No more than nine hours in English, including Freshman Composition, can be at the 2000 level; other English courses must be at the 3000/4000 level.

**Teaching Field Coursework in English Education (27 hours):**
- LAE 3331 (3) Teaching Literature and Drama in High Schools
- LAE 3333 (3) Teaching Writing and Language in High Schools
- LAE 4323 (3) Teaching English in Middle School
- LAE 4360 (3) Classroom Management & Planning Instructor in Middle/High School English
- LAE 4941 (3) Methods & Observation/Participation in Middle/Secondary English
- LAE 4863 (3) Enhancing Teaching with Technology
- RED 4335 (3) Literacy in the Content Area
- TSL 4080 (3) Language Principles for Teachers
- TSL 4081 (3) Teaching English Learners

**Professional Education Coursework (6 hours):**
- EDF 4210 (3) Educational Psychology: Dev. Learners
- EDF 4430 (3) Classroom Assessment (or approved substitute)

**Student Teaching (12 hours):**
- All required coursework must be completed prior to student teaching.
- LAE 4942 (12) Student Teaching in Secondary School English

**Computer Skills Competency:** 0 hours beyond prerequisites. EME 2040 (3).

**Oral Communication Competency:** 0 beyond prerequisites.
Students must demonstrate the ability to orally transmit ideas and information clearly. A speech course is one of the English Education Program Prerequisites.

**Minimum Program Requirements - Summary**
- Total Hrs. Required 120
- Liberal Studies 36*
- Pre-education Core 9
- English Ed Program Prerequisite 12*
- Major Coursework 60
- Computer Skills 0 beyond Pre-ed. Core.
- Oral Competency 0 beyond prerequisites
- Electives to bring total hours to 120

*NOTE: These hours may also be applied toward Liberal Studies and/or major coursework.

**Remarks:**
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

**Employment Information**
Representative Job Titles Related to this Major: Teacher of English: Middle School, Junior High, Senior High, Adult Education, School Librarian, Sales Representative, Audiovisual Specialist, Teacher of English as a foreign language, Youth Organization Worker, Television Educational Specialist, Tutor, Editor/Editorial Assistant, Reporter, Writer of Technical Publications.

Updated: Summer, 2013
ENTREPRENEURSHIP
College: Business
Degree: B. S.
Limited Access: YES
Contact: Business Undergraduate Programs Office and Advising Center
Address: 328 Rovetta Business Building, FSU
PO Box 3061110
Tallahassee, FL 32306-1110
Phone: (850) 644-3892
E-Mail: ugprog@cob.fsu.edu
Fax: (850) 644-7332

Description of Major
The Jim Moran Institute for Global Entrepreneurship in the College of Business coordinates the Entrepreneurship major. The Jim Moran Institute was formed to provide free consulting services to current entrepreneurs and to provide learning opportunities for students. Through the Jim Moran Institute, entrepreneurship students have the opportunity to interact with and learn from successful entrepreneurs.

The Entrepreneurship major is a redesigned, highly competitive, 3-year curriculum. In the first year of the curriculum (typically, your sophomore year at FSU), you will learn how to start and harvest a micro-business. In the next two years, you will learn the advantages and costs of the various sources of venture capital and the process of obtaining it. You will also focus on opportunity recognition, market research, and feasibility. You will study technology commercialization, financial analysis, legal issues, and human resource management. During the final year of the curriculum, you will develop a formal business plan.

In the first two years at FSU, students should take courses in the following four areas: Liberal Studies (general education) requirements, Gordon Rule Writing requirement, Multicultural Course requirements, and Prerequisite Coursework requirements. Some courses may fulfill requirements in multiple areas. Electives in the first two years should focus on gaining additional exposure to the social and behavioral sciences, and on improving communication and analytical reasoning skills.

Prerequisite Coursework: 21 hours. The following courses must be completed with a C- or better:
ACG X021 (3) Introduction to Financial Accounting
ACG X071 (3) Introduction to Managerial Accounting
CGS X100 (3) Microcomputer Applications for Business or CGS X518 (3) Spreadsheets for Business
ECO X013 (3) Principles of Macroeconomics
ECO X023 (3) Principles of Microeconomics
MAC X233 (3) Calculus for Business and Non-Physical Sciences
STA X023 (3) Business Statistics

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Upper-Division Major
Students at FSU should apply in the spring semester of their freshman year to begin the entrepreneurship curriculum in the following fall. The application deadline is in March of each year. More information and the application form are available on the web at http://www.cob.fsu.edu/. Enrollment is limited to 40 students per year.

Students, including transfer students, must apply in March and be committed to completing the 3-year curriculum (no courses are offered in the summer). Admission criteria include academic achievement, evidence of prior entrepreneurial activity, and a compelling essay describing why you want to be an entrepreneur. Students must complete the admission requirements for the limited access business programs no later than the end of their first year in the entrepreneurship curriculum in order to continue as an entrepreneurship major.

Admission to the limited access business programs requires the following: 1) completion of at least 52 semester hours; 2) a cumulative grade point average on all college work attempted of at least 2.90; and 3) satisfactory completion of all required prerequisite coursework.
Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 51 hours
Community college courses may not be substituted for 3000/4000 level courses. All courses must be completed with a grade of C- or better.

Lower-Division Requirement (3 hours)
This course is a Term 4 milestone. Transfer students must complete it in their first term of enrollment at FSU.
RMI 2302 (3) Risk in Business and Society

General Business Core Requirements for Entrepreneurship Majors (15 hours):
BUL 3310 (3) The Legal and Ethical Environment of Business
FIN 3403 (3) Financial Management of the Firm
GEB 3213 (3) Business Communications
MAN 3240 (3) Organizational Behavior
MAR 3023 (3) Basic Marketing Concepts

General Business Breadth Requirements for Entrepreneurship Majors (9 hours):
Both of the following:
MAN 4720 (3) Strategic Management and Business Policy
RMI 3011 (3) Risk Management/Insurance
Plus one (1) elective from the following list of courses:
FIN 3244 (3) Financial Markets, Institutions, and International Finance Systems
ISM 3003 (3) Foundations of Management Information Systems
MAN 3600 (3) Multinational Business Operations
MAR 3400 (3) Professional Selling
QMB 3200 (3) Quantitative Methods for Business Decisions
REE 3043 (3) Real Estate

Major Area Requirements for Entrepreneurship Majors (24 hours):
All entrepreneurship majors must complete the twenty-four (24) credit hours as listed below. A grade of C- or better must be earned in each course used to satisfy the entrepreneurship major area requirements.

Required courses: 18 hours
ENT 2010 (2) Creating and Managing New Ventures
ENT 2010L (1) Creating and Managing New Ventures Laboratory
ENT 2011 (2) Managing and Harvesting New Ventures
ENT 2011L (1) Managing and Harvesting New Venture Laboratory
ENT 3003 (3) Introduction to Entrepreneurship
ENT 3413 (3) New Venture Finance
ENT 4014 (3) Creating New Ventures I: Opportunity Recognition and Market Feasibility
ENT 4115 (3) Creating New Ventures II: Business Planning and Competing for Capital
Plus six (6) credit hours from the following list of courses:
ENT 3123 (3) Corporate Venturing and Entrepreneurial Strategies
ENT 3173 (3) Franchising
ENT 3183 (3) Commercializing New Technologies
ENT 3203 (3) Managing New Venture Growth
ENT 3273 (3) Family Business
ENT 3283 (3) Women and Minorities in New Ventures
ENT 3503 (3) Social Entrepreneurship
ENT 4944 (4) Seminar in Small Business Analysis and Assistance

Computer Skills Competency: 0 hours beyond prerequisites. CGS 2100 (3) or CGS 2518 (3).

Oral Communication Competency: 0 additional hours.
Students must demonstrate the ability to orally transmit ideas and information clearly. Business majors complete GEB 3213.
**Minimum Program Requirements - Summary**

Total Hours Required 120  
Liberal Studies 36*  
Prerequisite Coursework 21*  
Major Coursework 51  
Minor Coursework 0  
Computer Skills 0 beyond prerequisites  
Oral Communication Competency 0 beyond major  
Electives to bring total credits to 120 (must complete at least 60 credits outside of business)  
*Some Prerequisite courses may also be counted as part of Liberal Studies.

**Remarks:**  
1. Must complete at least 60 hours outside of business.  
2. A minimum of 45 hours at the 3000 level or above, at least 30 of which must be taken at this University.  
3. At least half of the major course semester hours must be completed in residence at this University. After enrolling at this University, all remaining major course requirements must be completed at this University.  
4. The final 30 hours must be completed in residence at this University.

**Employment Information**  
Representative Job Titles Related to this Major: Owner, Consultant, Franchise Owner/Operator, Investor, Manager.

Representative Employers: Self - any small business, Franchise businesses.

Updated: Summer, 2013
ENVIRONMENTAL SCIENCE, BS

College: Arts and Sciences
Degree: BS.
Limited Access: NO
Contact: Ms. Vinette Burns (advising)
Dr. Jeff Chanton (program information)
Dr. Bill Parker (program information)
Address: Dept. of Earth, Ocean and Atmospheric Science
Tallahassee, FL 32306-4320
Burns: 404 Love
Chanton: 305 OSB
Parker: 207 CAR
Phone: Burns: (850) 644-8582
Chanton: (850) 644-7493
Parker: (850) 644-1568
E-Mail: vburns@fsu.edu
jchanton@fsu.edu
wparker@fsu.edu

Description of Major
Environmental Science is the interdisciplinary study of environmental systems from a scientific perspective. Drawing principally from the areas of oceanography, geology, meteorology, biology and chemistry, the Environmental Science program will prepare students in the broader area of geosciences and is an attractive option for students seeking a broader interdisciplinary major with the rigor of mathematics and the physical sciences at its core.

FSU offers both the BS and BA degrees in Environmental Science. The BA degree differs from the BS degree in lower-level mathematics requirements and a greater emphasis on policy. The goals of these programs are to prepare exceptionally well-qualified graduates prepared to work in the interdisciplinary earth sciences, whether in government agencies, NGOs, or the private sector. They also provide a strong basis for graduate study in environmental and interdisciplinary earth sciences.

Prerequisite Coursework: 27-28 hours
The following are being proposed as common program prerequisites.
STA X122 (3) Intro. to Applied Statistics or ISC X523C (3) Research Methods
MAC X311 (4) Calculus I
BSC X010, X010L (3,1) Biological Science I, Lab
CHM X045, X045L (3,1) General Chemistry I, Lab
PHY X048C (5) General Physics A with Lab or PHY X053C (4) College Physics B with Lab
BSC X011, X011L (3, 1) Biological Science II, Lab or CHM X046, X046L (3,1) General Chemistry II, Lab
GLY X010C (4) Physical Geology with Lab
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Sciences requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Requirements for Progression to and Continuation in the Upper-Division Major
Students should complete the prerequisite coursework for entrance to the major program of study. Students must also have completed a minimum of 52 hours of credit and at least half the required hours in Liberal Studies, including required English composition and Math, or an A.A degree. No required course in which a student has earned a grade below C- may be applied toward the degree in Environmental Science. A student who has received more than five unsatisfactory grades (U, F, D-, D, D+) in science, statistics, or mathematics courses (and their prerequisites) taken at Florida State University or elsewhere, including repeated unsatisfactory grades in the same course, will not be permitted to graduate with a degree in this major.
Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu.

Major Program of Studies at FSU: 41-42 hours

Environmental Science Core Courses (20-21 hours)
BSC 2011, 2011L (3,1) Biological Science II, Lab or CHM 1046. 1046L (3.1) General Chemistry II, Lab
MET 1010 (3) Introduction to the Atmosphere or MET 2700 (3) General Meteorology
OCE 4008 (3) Principles of Oceanography
OCE 4017 (3) Current Issues in Environmental Science or GLY 3039 (3) Energy, Resources and Environment
GLY 4751C (3) Intro. to Remote Sensing or (if GLY4751 is not available) may substitute GIS 4043 and GIS 4043L (3,1) Geographic Information Processing & Systems, Lab
GLY 4915 (4) Senior Capstone

Required Environmental Science Elective Courses (21 hours)
Select 21 hours, at least 9 of which must be from List 1. The remaining 12 hours may be selected from any of the three lists below. Substitutions for these elective courses require departmental permission.

List 1. Geoscience Elective Courses
GLY 2100 (3) Historical Geology
GLY 3200C (3) Mineralogy and Crystallography
GLY 3610 (3) Paleontology
GLY 4511 (3) Sedimentation and Stratigraphy
GLY 4820 (3) Principles of Hydrology
MET 3103C (3) Climate Change Science or ISC 2003 (3) Global Change or MET 2101 (3) Physical Climatology
MET 3220C (3) Meteorological Computations
MET 3300 (3) Intro. to Atmospheric Dynamics
MET 4159r (1-3) Selected Topics in Meteorology
EOC 4631 (3) Marine Pollution
OCE 4631 (3) Estuarine and Coastal Ecology
OCC 4060 (3) Environmental Science Modeling
OCE 4930 (3) Oceanographic Studies (topics vary) – consent of instructor required
OCE 4XXX (3) Environmental Science II. Habitable Planet (new number applied for)
OCP 4005 (3) Intro. to Physical Oceanography

List 2. Environmental Engineering Tools (these courses may be taken for an engineering focus)
EES 3040 (3) Intro to Environmental Engineering Science
EES 3040L (1) Environmental Engineering Science Lab
EGN 2123 (2) Computer Graphics Engineering
CGN 2327L (1) Civil Engineering Graphics Lab (continuation of EGN 2123)
CEG 2202C (4) Site Investigation (teaches surveying techniques)
EGM 3512 (4) Engineering Mechanics

List 3. Graduate School Preparation
MAC 2312 (4) Calculus II
CHM 2210 (3) Organic Chemistry I
CHM 2211 and CHM 2211L (3 and 3) Organic Chemistry II and Organic Chemistry II Lab

Collateral Minor. 0 beyond required courses
Twelve hours of required coursework in the EOAS classes in Geology, Meteorology, and/or Oceanography constitute a minor in Earth, Ocean and Atmospheric Science. If a student takes 12 hours in any one of these subject areas then their collateral minor would be in that discipline. For instance, 12 hours of Geology would constitute a minor in Geology.

Computer Skills Competency: 0 hours beyond other requirements. BSC 2010L (1).

Oral Communication Competency: 0-3 hours.
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level approved course, such as SPC 1017 or SPC 2608.
Minimum Program Requirements Summary
Total Hrs. Required 120
Liberal Studies 36*
BS Prerequisite Coursework 27-29*
BS Major Coursework 41-42*
Minor Coursework 0 beyond other requirements
Foreign Language 0-12 (depending on placement)
Computer Skills 0 beyond major
Oral Communication Competency 0-3
Electives to bring total hours to 120
*Note: Some coursework required for this major (prerequisite/collateral/major) may also be applied to Liberal Studies or minor requirements.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Environmental technician, geoscientist, environmental scientist, hydrologist, general physical scientist, and oceanographer. Some positions may require additional education or training.

Representative Employers: Federal, state, and local governments; NGOs; private employers.

Updated: Summer, 2013
ENVIRONMENTAL SCIENCE & POLICY. BA

College: Arts and Sciences
Degree: B.A.
Limited Access: NO
Contact: Ms. Vinette Burns (advising)
Dr. Jeff Chanton (program information)
Dr. Bill Parker (program information)
Address: Dept. of Earth, Ocean and Atmospheric Science
Tallahassee, FL 32306-4320
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Parker: (850) 644-1568
E-Mail: vburns@fsu.edu
jchanton@fsu.edu
wparker@fsu.edu

Description of Major
Environmental Science is the interdisciplinary study of environmental systems from a scientific perspective. Drawing principally from the areas of oceanography, geology, and meteorology, the Environmental Science program will prepare students in the broader area of geosciences and is an attractive option for students seeking a broader interdisciplinary major with the rigor of mathematics and the physical sciences at its core.

FSU offers both the BS and BA degrees in Environmental Science. The BA degree differs from the BS degree in lower-level mathematics requirements and a greater emphasis on policy. The goals of these programs are to prepare exceptionally well-qualified graduates prepared to work in the interdisciplinary earth sciences, whether in government agencies, NGOs, or the private sector. They also provide a strong basis for graduate study in environmental and interdisciplinary earth sciences.

Prerequisite Coursework: 18 hours
The following are being proposed as
MAC X105 (3) College Algebra
MAC X140 (3) Precalculus Algebra or STA X122 (3) Introduction to Applied Statistics
BSC X010,X010L (3,1) Biological Science I, Lab
CHM X045,X045L (3,1) General Chemistry I, Lab
GLY X010C (4) Physical Geology with Lab
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Requirements for Progression to and Continuation in the Upper-Division Major
Students should complete the prerequisite coursework for entrance to the major program of study. Students must also have completed a minimum of 52 hours of credit and at least half the required hours in Liberal Studies, including required English composition and Math, or an A.A degree. No required course in which a student has earned a grade below C- may be applied toward the degree in Environmental Science. A student who has received more than five unsatisfactory grades (U, F, D-, D, D+) in science, statistics, or mathematics courses (and their prerequisites) taken at Florida State University ore elsewhere, including repeated unsatisfactory grades in the same course, will not be permitted to graduate with a degree in this major.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to
ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu.

**Major Program of Studies at FSU:** 38 hours

**A. Basic Environmental Science Courses (17 hours)**
- BSC 2011, 2011L (3,1) Biological Science II, Lab or CHM 1046, 1046L (3.1) General Chemistry II, Lab
- MET 1010 (3) Introduction to the Atmosphere or MET 2700 (3) General Meteorology
- OCE 4008 (3) Principles of Oceanography
- OCE 4017 (3) Current Issues in Environmental Science or GLY 3039 (3) Energy, Resources, and Environment
- GLY 4915 (4) Senior Capstone

**B. Required Policy Courses (choose 6 hours selected from the following)**
- GEO 4357 (3) Environmental Conflict and Economic Development
- GEO 4372 (3) Natural Resources Assessment and Analysis
- HIS 4930 (3) Environmental Policy: 20th Century & Beyond
- PHI 2100 (3) Reasoning and Critical Thinking
- PHI 2620 (3) Environmental Ethics
- PUP 3002 (3) Introduction to Public Policy
- PUP 4203 (3) Environmental Politics and Policy
- URP 3000 (3) Introduction to Urban and Regional Planning

**C. Required Environmental Science courses (choose a total of 15 hours from the lists below)**
At least 9 hours must be from List 1. Substitutions for these courses (Group C) require departmental permission.

**List 1**
- EOC 4631 (3) Marine Pollution
- GLY 2100 (3) Historical Geology
- GLY 3200C (3) Earth Materials (Mineralogy and Crystallography)
- GLY 3610 (3) Paleontology
- GLY 4511 (3) Sedimentation and Stratigraphy
- GLY 4751C (3) Introduction to Remote Sensing and GIS
- GLY 4820 (3) Principles of Hydrology
- MET 3103C (3) Climate Change Science or ISC 2003 (3) Global Change or MET 2101 (3) Physical Climatology
- MET 3220C (3) Meteorological Computations
- MET 3300 (3) Introduction to Atmospheric Dynamics
- MET 4159r (1-3) Selected Topics in Meteorology
- OCB 4631 (3) Estuarine and Coastal Ecology
- OCC 4060 (3) Environmental Science Modeling
- OCE 4930r (3) Oceanographic Studies (topics vary)—consent of instructor required
- OCE 4XXX (3) Environmental Science II Habitable Planet (new number applied for)
- OCP 4005 (3) Introduction to Physical Oceanography

**List 2**
- BSC 2011, 2011L (3,1) Biological Science II, Lab (If not used for the Basic Environmental Science requirement)
- CHM 1046, 1046L (3,1) General Chemistry II, Lab (if not used for the Basic Environmental Science requirement)
- CHM 4080 (3) Environmental Chemistry I
- HFT 3700 (3) Tourism Management and the Environment
- MAC 2311 (4) Calculus I
- MAC 2312 (4) Calculus II
- URP 3000 (3) Introduction to Urban and Regional Planning (if not used as a “Required Policy Course.”)
- URP 4404 (3) River Basin Planning
- URP 4423 (3) Environmental Planning and Resource Management

**Additional Requirements for the Bachelor of Arts Degree.** 9 hours
The Bachelor of Arts degree requires nine (9) semester hours in the fields of humanities and/or history in addition to the Liberal Studies and the foreign language requirements.

**Minor.** At least 12 hours.
A minor is required. While many minors require only 12 hours, others require 18 hours or more. No courses used for satisfying Liberal Studies / general education requirements, the College foreign language requirement, or major requirements may also be counted toward the minor.
Computer Skills Competency: 0 hours beyond other requirements. BSC 2010L (1).

Oral Communication Competency: 0-3 hours. Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level approved course, such as SPC 1017 or SPC 2608.

Minimum Program Requirements Summary
Total Hrs. Required 120
Liberal Studies 36*
BA Prerequisite Coursework 18*
BA Major Coursework 38*
BA Additional Requirements 9
Minor Coursework 12 or more
Foreign Language 0-12 (depending on placement)
Computer Skills 0 beyond major
Oral Communication Competency 0-3
Electives to bring total hours to 120
*Note: Some coursework required for this major (prerequisite//major) may also be applied to Liberal Studies or minor requirements.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. The B. A. degree requires 9 additional hours in the fields of history and humanities.

Employment Information
Representative Job Titles Related to this Major: Environmental technician, geoscientist, environmental scientist, hydrologist, general physical scientist, and oceanographer. Some positions may require additional education or training.

Representative Employers: Federal, state, and local governments; NGOs; private employers.

Updated: Summer, 2013
ENVIRONMENTAL STUDIES
College: Social Sciences and Public Policy
Degree: B. S. or B.A.
Limited Access: NO
Contact: Leslee Horner
Address: 323 Bellamy Building, FSU
Tallahassee, FL 32306-2190
Phone: (850) 644-1706
E-Mail: lhorner@fsu.edu

Description of Major
The objective of the Environmental Studies major is to provide the student with both a basic background in the natural sciences as well as an in-depth understanding of the social and institutional context of contemporary environmental concerns. Interest in the environment is growing, both in the state and nationwide, which is creating new job opportunities for college graduates in such fields as environmental law, planning, site analysis, natural resource conflict resolution, resource conservation, and hazards management. The basic curriculum required of all students includes an introduction to environmental and physical sciences and to data analysis and research design. Electives allow the students to choose their own area of focus.

Prerequisite Coursework:
This major is offered through the Department of Geography.
Two introductory Geography courses with GEO prefix (6 hrs.). Interested students may contact the department for course recommendations.
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Strongly recommended: Students interested in this major are encouraged to complete CHM X045 with lab and BSC X010 with lab during their freshman/sophomore years.

Requirements for Progression to the Upper-Division Major
To be admitted, students must complete at least 52 hours of coursework with a minimum FSU GPA of 2.0 and most of the Liberal Studies requirements met, including freshman English composition and mathematics, or an AA Degree.

Mapping
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Major Program of Studies at FSU: 41 hours
The major in Environmental Studies requires 41 hours with a grade of C- or better in each course; at least 18 credit hours must be taken in upper level (3000 and 4000) courses.

I. Basic Core Curriculum (14 hours)
  BSC 2010, 2010L (3, 1) Biological Science I, Lab
  CHM 1045, 1045L (3,1) General Chemistry I, Lab
  GEO 1330 (3) Environmental Science
  GEO 2200C (3) Physical Geography

II. Natural Science Courses (12 hours) at least four courses from the following list
(Note: some courses listed below may have prerequisites)
  BOT 3015 (3) Plant Biology
  BOT 3143 (3) Field Botany
  BSC 2011 (3) Biological Science II
  BSC 3052 (3) Conservation Biology
  BSC 3312 (3) Marine Biology
  BSC 4514 (3) Aquatic Pollution Biology
  BSC 4934 (3) Selected Topics in Applied Biology if approved by advisor
  CHM 1046, 1046L (3,1) General Chemistry II, Lab
  CHM 2210 (3) Organic Chemistry I
CHM 2211 (3) Organic Chemistry II
CHM 4080 (3) Environmental Chemistry I
CHM 4081 (3) Environmental Chemistry II
EES 2205C (3) Environmental Engineering Chemistry
EES 3040 (3) Introduction to Environmental Engineering Science
ENV 4001 (3) Environmental Engineering
ENV 4041 (3) Environmental Systems Analysis
ENV 4341 (3) Solid & Hazardous Waste
ENV 4405 (3) Water Reuse Engineering
GEA 4213 (3) US National Parks
GEO 4300 (3) Biogeography
GEO 4930r (3) Special topics course, if approved by the advisor
GLY 1030 (3) Environmental Issues in Geology
GLY 1070 (3) Living on the Water Planet
GLY 2010C (3) Physical Geology
ISC 2003 (3) Global Change, Its Scientific and Human Dimensions
MET 2101 (3) Physical Climatology
MET 2502 (3) Weather Analysis and Forecasting
MET 2700 (2) General Meteorology
MET 3300 (3) Introduction to Atmospheric Dynamics
OCE 4011 (3) Principles of Oceanography
OCE 4017 (3) Current Issues in Environmental Science
OCE 4930 (3) Studies in Oceanography (topics vary)
PCB 3043 (3) General Ecology
III. Social Science Elective Courses (9 hours) at least three of the following courses
(Note: some courses listed below may have prerequisites)
AMH 4630 (3) North American Environmental History
AMH 4634 (3) Florida Environmental History
ECP 3113 (3) Economics of Population
ECP 3302 (3) Economics of Natural Resources, Energy, and the Environment
ECS 4013 (3) Economics of Development
GEO 3502 (3) Economic Geography
GEO 4340 (3) Living in a Hazardous Environment
GEO 4357 (3) Environmental Conflict and Economic Development
GEO 4372 (3) Natural Resources Assessment and Analysis
GEO 4376 (3) Landscape Ecology
GEO 4403 (3) Global Change, Local Places
GEO 4421 (3) Cultural Geography
GEO 4450 (3) Medical Geography
GEO 4471 (3) Political Geography
GEO 4700 (3) Transport Geography
GEO 4930r (3) Special topics course, if approved by advisor
PAD 3003 (3) Public Administration in American Society
PAD 4603 (3) Administrative Law
PHI 2620 (3) Environmental Ethics
PUP 3002 (3) Introduction to Public Policy
PUP 4203 (3) Environmental Politics and Policy
SYD 3020 (3) Population and Society
SYD 4510 (3) Environmental Sociology
URP 3000 (3) Introduction to Planning and Urban Development
URP 4022 (3) Collective Decision Making
URP 4318 (3) Growth Management and Environmental Planning
URP 4402 (3) Sustainable Development Planning in the Americas
URP 4404 (3) River Basin Planning
URP 4423 (3) Environmental Planning and Resource Management
URP 4618 (3) Planning for Developing Countries
URP 4710 (3) Transportation Planning
URP 4936 (3) Special topic course in Planning, if approved by advisor

IV. Methods Electives (6 hours or more) two of the following:
(Note: some courses listed below may have prerequisites)
ENV 4611 (3) Environmental Impact Analysis
GEO 4114 (3) Environmental Field Methods
GEO 4162 (3) Spatial Data Analysis (or either SYA 4400 or STA 2122 or STA 2171)
GIS 3015 (3) Map Analysis
GIS 4006 (3) Computer Cartography
GIS 4035, GEO 4035L (3, 1) Remote Sensing and lab
GIS 4043, GEO 4043L (3,1) Geographic Information Systems and Lab
GEO 4930r (3) Special topics course if approved by advisor
STA 3024 (3) Intermediate Applied Statistics
SYA 4300 (3) Methods of Social Research

Computer Skills Competency: 0 hours beyond major. BSC 2010L (1).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36*
Major Coursework 41*
Minor Coursework 0
Computer Skills 0 beyond major
Oral Competency 0-3
Electives to bring total hours to 120

*NOTE: Some Environmental Studies courses may be applied to both Liberal Studies and the major.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Land Management Specialist, Land Use Analyst, Market Researcher, Water Resource Planner, Conservationist, Location Analyst, Environmental Specialist.


Updated: Summer, 2013
EXERCISE SCIENCE
College: Human Sciences
Degree: B. S.
Limited Access: NO
Contact: College of Human Sciences Advising
Address: 410 Sandels Bldg.
College of Human Sciences, FSU
Tallahassee, FL 32306-1493
Phone: (850) 644-4279

Description of Major
The Exercise Science major prepares students for graduate study in exercise science, physical therapy, and other health fields including medical school, as well as positions as personal trainers and health fitness instructors with both hospital-based wellness programs and corporate fitness programs.

Prerequisite Coursework: 0 hours beyond other requirements
Students must complete the following courses in preparation for upper division coursework in the major. All of the following may also apply toward Liberal Studies and/or major coursework. (See section on “Grades and Continuation Requirements.”)
MAC X114 (2) Analytic Trigonometry or approved alternative
MAC X140 (3) Precalculus Algebra or approved alternative
HUN X201 (3) The Science of Nutrition (B- or higher required)
CHM X045, X045L (3,1) General Chemistry I with Lab
CHM X046, X046L (3,1) General Chemistry II with Lab
BSC X010, X010L (3,1) Biological Science I, Lab
BSC X011, BSC X011L (3,1) Biological Science II, Lab
PET X322, X322L (3,1) Functional Anatomy and Physiology, Lab or approved alternative (C+ or higher required)
PET X323C (4) Functional Anatomy and Physiology II with lab or approved alternative
PSY X012 (3) General Psychology

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for Admission to the Upper-Division Major
Students must complete at least 52 hours of credit with a minimum grade point average of 2.0, and at least half the required Liberal Studies hours, including English composition and mathematics, or an A.A. Degree. As a prerequisite for entry into each undergraduate major in the department, students must achieve a grade of B- or higher in HUN 1201.

Mapping
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Grades and Continuation Requirements
In order to graduate with a major in Exercise Science, students must earn the following grades. Students are allowed only a single repeat in only one of the following.
“B-” or higher in HUN 1201
“C” or higher in: MAC 1114, MAC 1140, BSC 2010, BSC 2010L, BSC 211, CHM 1045, CHM 1045L, CHM 1046, CHM 1046L, CHM 2210 or CHM 2210, PSY 2122, STA 2122.
“S” in PET 3102.
A grade of “C-” or higher is required in all other coursework required for this major.

Major Program of Studies: 82 hours
College of Human Sciences core (6 hours)
FAD 2230 (3) Family Relationships
XXX XXXX (3) One additional college core course (any course offered by the College that is not required for this major)
Department/Major requirements (25 hours)
HUN 1201 (3) Science of Nutrition (B- or higher required)
HUN 3224 (3) Intermediary Metabolism of Nutrients I
HUN 3226 (3) Intermediary Metabolism of Nutrients II
PET 3102 (1) Introduction to Exercise Science
PET 3322, 3322L (3,1) Functional Anatomy and Physiology I (C+ required)
PET 3323C (4) Functional Anatomy and Physiology II
PET 3380C (4) Applied Exercise Physiology
PET 4551C (3) Exercise Testing and Prescription

Required Electives. Select three of the following (9 hours minimum)
HSC 4711 (3) Wellness and Risk Reduction
PET 3361 (3) Nutrition and Sport
PET 3621 (3) Athletic Training (for non majors)
PET 3932r (3) Special Topics - Exercise and Disease
PET 3932r (3) Special Topics – Strength and Conditioning
PET 4076 (4) Physical Dimensions of Aging

Required coursework outside of department/college (42 hours)
MAC 1114 (2) Analytic Trigonometry
MAC 1140 (3) Precalculus Algebra
STA 2122 (3) Introduction to Applied Statistics or STA 2023 (3)
PSY 2012 (3) General Psychology
CHM 1045, 1045L (3,1) General Chemistry I and Lab
CHM 1046, 1046L (3,1) General Chemistry II and Lab
CHM 2200, 2200L (3,1) Survey of Organic Chemistry or all of: CHM 2210, CHM 2211, CHM 2211L (3,3,3) Organic I, II, II Lab
BCH 3023C (3) Introduction to Biochemistry or BCH 4624 (3) Human Biochemistry
BSC 2010, 2010L (3, 1) Biological Sciences I and Lab
BSC 2011, 2011L (3, 2) Biological Sciences II and Lab
PHY 2053C (4) College Physics A with Lab
PHY 2054C (4) College Physics B with Lab

Computer Skills Competency: 0 hours beyond major. CGS 2060 (3) or BSC 2010L (1).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. SPC 1017 suggested.

Electives to meet the graduation requirement of 120 hours; at least ten hours must be at the 3000-4000 level.

Minimum Program Requirements - Summary
Min. Hrs. Required 120
Liberal Studies 36*
Prerequisites 0 beyond LS and major coursework
Major Coursework 82*
Minor Coursework 0
Computer Skills 0 beyond the major
Oral Competency 0-3
Electives to bring total hours to 120

*NOTE: MAC 1105 (3), STA 2122 (3) and PSY 2012 (3) General Psychology should be taken as part of Liberal Studies. Other courses required for this major may also be used to satisfy requirements of Liberal Studies.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Exercise Leader, Fitness Instructor/Consultant, Corporate Fitness Manager, Exercise Testing Technician, Fitness Club Manager, Activities Director, Health & Fitness Advisor, Exercise Physiologist.
Representative Employers: Athletic Teams, Hospitals, Fitness Centers, Private Practice, Health Organizations, Spas/Resorts, Health Departments.

Updated: Summer 2013
**Description of Major**

The Family and Child Sciences program introduces students to applied developmental sciences, emphasizing human development and family life in different settings, such as neighborhoods and communities. It provides students with an introduction to working in applied settings, including human service agencies and organizations, education, childcare settings, government agencies. The program requires a 12-hour minor or area of concentration in one of a variety of other academic areas which is individually planned and designed to enhance each student’s breadth and/or marketability. With early planning, double majoring or double minoring is a possibility and is encouraged.

**Prerequisite Coursework: 12 hours**

The following may also be used to meet general education and/or major requirements. These should be completed with a grade of B- or higher.

- CHD X220 (3) Child Growth and Development
- FAD X230 (3) Family Relationships
- * FAD X220 (3) Individual and Family Life Span Development
- STA XXXX (3) Statistics. Students should select a 2000-level statistics course; STA 2122 is preferred.

* Available in the summer to accommodate transfer students.

**Note:** State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

In addition to the above

Students should complete the following course early in their program of study with a grade of B- or higher. Transfer students will be able to take it while at FSU or online.

- FAD 3271 (3) Ecological Contexts for Individual and Family Development

**Requirements for Progression to and Continuation in the Upper-Division Major**

Students must complete at least 52 hours of credit with an adjusted GPA of 2.0 on FSU coursework and at least half the required hours in Liberal Studies, including all English composition and mathematics, or an A.A. Degree. A grade of B- or higher must be earned in CHD 2220, FAD 2230, FAD 3220, FAD 3271, and STA 2XXX. Students are allowed only two attempts in one of these five courses to achieve the required B-. Students are classified as “Family and Child Sciences, Prerequisites Incomplete” until these courses are completed.

**Mapping**

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**Major Program of Studies:** Family and Child Science: 55 hours.

- Family and Child Science prerequisite courses (15 hours)
  - Each of the following must be completed with a grade of B- or better
  - CHD 2220 (3) Child Growth and Development
  - FAD 2230 (3) Family Relationships
  - FAD 3220 (3) Individual and Family Life Span Development
  - FAD 3271 (3) Ecological Contexts for Individual and Family Development
  - STA 2XXX (3) A 2000-level statistics course; STA 2122 preferred.

- Human Sciences Core (3 hours)
  - Select one course from the following list:
  - COA 4131 (3) Family Financial Analysis
FAD 4455 (3) Family Life Education
HUN 1201 (3) The Science of Nutrition

Family and Child Sciences majors complete all of the following (25 hours)

CHD 3472 (3) Child Guidance
CHD 4537 (3) Parenting
CHD 4615 (3) Public Policy: Child and Family Issues
CHD 4630 (3) Studying Families and Children (formerly Studying Children: Techniques and Issues)
FAD 3432 (3) Stress and Resilience in Individuals and Families
FAD 4265 (3) Family Diversity
FAD 4932 (1) Pre-Practicum Experience
FAD 4805 (6) Practicum in Family and Child Sciences (prerequisite FAD 4934; must achieve a grade of C or higher).

Minor or area of concentration (12 hours)
Minor/concentration must be approved by the department advisor

Other Coursework: Students are urged to speak with a departmental advisor regarding appropriate electives. Internships are available and encouraged for senior students with a minimum 3.0 GPA in the major.

Computer Skills Competency: 3 hours. CGS 2060 (3).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Educational Studies 36*
Prerequisites 12*
Major Coursework 55
Computer Skills 3
Oral Competency 0-3
Electives to bring total credits to 120

*Prerequisites may also be counted as part of Liberal Studies and/or the major.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information:
Representative Job Titles Related to this Major: Family Life Educator, Consultant to Child-Related Business and Industry, Mental Health, Youth Services Caseworker, Child Development Specialist, Parent Educator.

Updated: Summer, 2013
FINANCE
College: Business
Degree: B. S.
Limited Access: YES
Contact: College of Business Undergraduate Programs Office and Advising Center
Address: 328 Rovetta Business Building, FSU
PO Box 3061110
Tallahassee, FL 32306-1110
Phone: (850) 644-3892
E-Mail: ugprog@cob.fsu.edu
Fax: (850) 644-7332

Description of Major
Finance is considered one of the basic functions of our private enterprise system. Each of the many firms, businesses, institutions, and governmental agencies in our economic system has the problem of obtaining, administering, and managing its funds efficiently and wisely. Finance is designed as preparation for a variety of financial careers.

In the first two years at FSU, students should take courses to complete the following four requirements: Liberal Studies (general education) requirements, Gordon Rule Writing requirement, Multicultural Course requirements, and Prerequisite Coursework requirements. Some courses may fulfill requirements in multiple areas. Electives in the first two years should focus on gaining additional exposure to the social and behavioral sciences, and on improving communication and analytical reasoning skills.

Prerequisite Coursework: 21 hours.
The following courses must be completed with a C- or better:
ACG X021 (3) Introduction to Financial Accounting
ACG X071 (3) Introduction to Managerial Accounting
* CGS X518 (3) Spreadsheets for Business or CGS X100 (3) Microcomputer Applications for Business
ECO X013 (3) Principles of Macroeconomics
ECO X023 (3) Principles of Microeconomics
MAC X233 (3) Calculus for Business and Non-Physical Sciences
STA X023 (3) Business Statistics
* Students taking CGS X100 or other approved course will also need to take CGS 2518 at FSU.
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Upper-Division Major
Admission to the limited access business programs requires the following: 1) completion of at least 52 semester hours; 2) a cumulative grade point average on all college work attempted of at least 2.90; and 3) satisfactory completion of all required prerequisite coursework.

Mapping
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Major Program of Studies at FSU: 45-48 depending on whether CGS 2518 was taken as a prerequisite or not.
Courses taken at a community college may not be substituted for 3000/4000 level courses.
Non-Business Required Course (0-3 hours)
CGS 2518 (3) Spreadsheets for Business
Lower-Division Requirement (3 hours)
This course is a Term 4 milestone. Transfer students must complete it in their first term of enrollment at FSU.
RMI 2302 (3) Risk in Business and Society
General Business Core Requirements for Finance majors (15 hours):
A grade of C- or better in each of the following:
BUL 3310 (3) The Legal and Ethical Environment of Business
FIN 3403 (3) Financial Management of the Firm
GEB 3213 (3) Business Communications
MAN 3240 (3) Organizational Behavior
MAR 3023 (3) Basic Marketing Concepts

**General Business Breadth Requirements for Finance Majors (9 hours):**
Each course selected must be completed with a grade of C- or better.

*Both of the following:*
- FIN 3244 (3) Financial Markets, Institutions, and International Finance Systems
- QMB 3200 (3) Quantitative Methods for Business Decisions
- Plus one (1) elective from the following list of courses:
  - ISM 3003 (3) Foundations of Management Information Systems
  - MAN 3600 (3) Multinational Business Operations
  - MAN 4720 (3) Strategic Management and Business Policy
  - MAR 3400 (3) Professional Selling
  - RMI 3011 (3) Risk Management/Insurance
- MAR 3023 (3) Real Estate
- RMI 3011 (3) Risk Management/Insurance

**Major Area Requirements for Finance Majors** (18 hours):
Students must earn a B- or better in FIN 3403 and a C- or better in CGS 2518 to enroll in any 4000 level FIN course. 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 GPA of 2.0 must be earned in courses used to satisfy the finance major area requirements.

*All of the following (12 hrs):*
- FIN 4424 (3) Problems in Financial Management
- FIN 4504 (3) Investments
- *ACG 3171 (3) Analysis of Financial Statement Presentation
- *ACG 3331 (3) Cost Accounting & Analysis for Business Decisions
- Plus two (2) electives from the following list of courses (6 hrs):
  - FIN 4324 (3) Commercial Bank Administration
  - FIN 4329 (3) Current Issues in Banking
  - FIN 4412 (3) Short-term Financial Management
  - FIN 4453 (3) Financial Modeling and Forecasting
  - FIN 4514 (3) Security Analysis and Portfolio Management
  - FIN 4604 (3) Multinational Financial Management
  - FIN 4934r (3) Senior Seminar in Finance
  - GEB 4455 (3) Perspectives on Free Enterprise

Either REE 4204 (3) Real Estate Finance or REE 4313 (3) Real Estate Feasibility Investment

*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 3341 (Cost Accounting) may be substituted for ACG 3331.

**Computer Skills Competency.** 0 hours beyond prerequisites. CGS 2100 (3) or CGS 2518 (3).

**Oral Communication Competency:** 0 beyond other requirements. Business majors complete GEB 3213.

**Minimum Program Requirements - Summary**
Total Hours Required 120
- Liberal Studies* 36
- Prerequisite Coursework* 21
- Major Coursework 45-48
- Minor Coursework 0
- Computer Skills 0 beyond prerequisites
- Oral Competency 0 beyond major
Electives to bring total hours to 120 (must complete at least 60 hours outside of Business

*Some Prerequisite courses may also be counted as part of Liberal Studies.

**Remarks:**
1. Must complete at least 60 hours outside of business.
2. A minimum of 45 hours at the 3000 level or above, at least 30 of which must be taken at this University.
3. At least half of the major course semester hours must be completed in residence at this University. After enrolling at this University, all remaining major course requirements must be completed at this University.
4. The final 30 hours must be completed in residence at this University.

**Employment Information**

Representative Job Titles Related to this Major: Comptroller, Bank Examiner, Director of Internal Finance, Securities Broker, Financial Manager, Treasurer, Financial Planner, Staff Analyst, Bank Trust Officer, Financial Associate, Financial Analyst, Commercial Loan Officer, Bank Branch Manager, Consumer Loan Officer, Commercial Associate, Cash/Treasury Management.

Representative Employers: Banks, Governmental Agencies, Consulting Firms, Brokerage Houses, Corporations, Small Businesses, Credit Unions, Non-profit Organizations.

Updated: Summer, 2013
FOOD & NUTRITION SCIENCE
College: Human Sciences
Degree: B. S.
Limited Access: NO
Contact: College of Human Sciences Advising
Address: 410 Sandels Bldg.
College of Human Sciences, FSU
Tallahassee, FL 32306-1493
Phone: (850) 644-5279

Description of Major
The undergraduate student majoring in Food and Nutrition Science is usually preparing for an advanced degree with specialization in Food Science or Nutrition and a career in university teaching and/or research, medicine, the food industry, or government. With proper advising, this program can also serve as a pre-medical curriculum.

Prerequisite Coursework: 0 beyond other requirements
Prerequisite coursework may also be used to meet Liberal Studies and major course requirements.
MAC X105 (3) College Algebra
CGS X060 (3) Computer Literacy
PET 3322, 3322L (3, 1) Functional. Anat. and Phys. & lab or BSC X085, X086 with labs (4,4) or other approved course (C+ or higher) contact department about BSC X085/X086 and other approved courses.
MCB X004/X004L (3, 1) General Microbiology, Lab
CHM X045/ X045L (3, 1) General Chemistry I, Lab
CHM X046,/X046L (3, 1) General Chemistry II, Lab
CHM X210,/X210L (4) Organic Chemistry I (3 hrs. at FSU)
CHM X211/X211L (3, 1) Organic Chemistry II, Organic Chemistry II Lab (3, 3 hrs. at FSU)
ECO X013 (3) Macroeconomics or ECO X023 (3) Microeconomics or ECO X000 (3) Intro. Economics (ECO 2013 preferred)
HUN X201 (3) Science of Nutrition (“B-“or higher required)
PSY X012 (3) General Psychology

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Students are encouraged to also complete the following during their freshman/sophomore years.
MAC X114 (2) Analytic Trigonometry
MAC X140 (3) Precalculus Algebra
STA X122 or STA X023 (3) Statistics
BSC 2010, 2010L (3,1) Biological Science with Lab
PHY X053C (4) College Physics with Lab

Requirements for Progression to the Upper-Division Major
As a prerequisite for entry into each undergraduate major in the department, students must achieve a grade of B- or higher in HUN1201. Students must complete at least 52 hours of credit with a minimum grade point average of 2.0, at least half the required Liberal Studies hours, including all English composition and mathematics, or an A.A. Degree.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/

Major Program of Studies at FSU: 90 hours
A grade of C- or higher must be earned for all required courses (exceptions: B- in HUN 1201 and C+ in PET 3322, 3322L). A course may not be retaken more than twice (for a total of three attempts.) Students who earn more than 5 unsatisfactory grades in courses required for the major, at FSU or elsewhere, whether or not repeated, will not be permitted to continue in Food and Nutrition Science. Students must achieve a minimum GPA of 2.5 in order to graduate.
College of Human Sciences core (6 hours)
FAD 2230 (3) Family Relationships
XXX XXXX (3) One additional course from an area of Human Sciences outside the major

Department/Major requirements (27 hours)
FOS 3026, FOS 3026L (3,1) Foods, Lab
FOS 4114C (4) Food Science
FOS 4209 (3) Food Safety and Quality
HUN 1201 (3) Science of Nutrition (B- or higher required)
HUN 2125 (3) Food and Society
HUN 3224 (3) Intermediary Metabolism I
HUN 3226 (3) Intermediary Metabolism II
PET 3322, 3322L (3,1) Functional Anatomy & Physiology, Lab (C+ or higher required)

Requirements outside the College/Department (57 hours)
ECO 2013 (3) Macroeconomics
PSY 2012 (3) General Psychology
MAC 1105 (3) College Algebra (or placement at a higher level)
MAC 1114 (2) Trigonometry
MAC 1140 (3) Precalculus Algebra
MAC 2311 (4) Calculus w/Analytic Geometry
STA 2122 (3) Intro to Applied Statistics or STA 2023 (3) Business Statistics
BSC 2010, BSC 2010L (3,1) Biological Sciences I, Lab (BSC 2010L meets Computer Skills Competency)
MCB 2004, 2004L (3,1) Microbiology, Lab
CHM 1045, 1045L (3,1) General Chemistry I, Lab
CHM 1046, 1046L (3,1) General Chemistry II, Lab
CHM 2210 (3) Organic Chemistry I
CHM 2211, CHM 2211L (3, 3) Organic Chemistry II, Organic Chemistry II Lab
CHM 3120, 3120L (2, 2) Introduction to Analytical Chemistry, Lab
BCH 3023C (3) Introduction to Biochemistry (with Lab)
PHY 2053C (4) College Physics A (with Lab)

Optional Didactic Program in Dietetics
Students wishing to meet the requirements for the Didactic Program in Dietetics (DPD) should contact the departmental academic advisor.

Computer Skills Competency: 0 hours beyond major: CGS 2060 (3) or BSC 2010L (1). BSC 2010L preferred.

Oral Communication Competency: 0-3 hours.
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. SPC 1017 is suggested.

Minimum Program Requirements - Summary
Min. Hrs. Required 120
Liberal Studies 36*
Prerequisites 0 beyond requirements for LS and major
Major Coursework 89*
Minor Coursework 0
Computer Skills 0 beyond other requirements
Oral Competency 0 beyond other requirements
Electives to bring total hours to 120.

*NOTE: Required major coursework should be used to also satisfy Liberal Studies requirements where possible.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Food Scientist, Nutritionist, Food Editor, Product Development, Quality Control Analyst, or Researcher.
Representative Employers: Hospitals, Hotels and Restaurants, Colleges and Universities, State and Federal Food Laboratories, Social Service Agencies, Pharmaceutical Companies, Trade Associations, Food Companies.

Updated: Summer, 2013
GEOGRAPHY
College: Social Sciences
Degree: B. S. or B.A.
Limited Access: NO
Contact: Leslee Horner
Address: 323 Bellamy Building, FSU
       Tallahassee, FL 32306-2190
Phone: (850) 644-1706
E-Mail: lhorner@fsu.edu

Description of Major
Geography is the study of place and space, with the spatial organization of the earth’s surface. The interpretation and explanation of the occurrence, distribution and interrelationships of physical and social patterns are of primary interest. Geography provides a bridge between the physical and cultural worlds. The curriculum introduces students to basic concepts of spatial variation of human and natural phenomena. Methodology and techniques of problem solving in such areas as human spatial systems and natural resources are studied. An undergraduate major provides the basis for careers in teaching, business and public service and prepares students to undertake graduate studies in geography.

Prerequisite Coursework:
Two introductory courses in Geography with GEO prefix (6 hrs.). Interested students may contact the department for course recommendations.

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for Progression to the Upper-Division Major
To be admitted, students must complete at least 52 hours of coursework with a minimum FSU GPA of 2.0 and most of the Liberal Studies requirements met, including freshman English composition and mathematics, or an AA degree.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 34 hours
All coursework must be completed with a grade of “C-” or higher. In order to graduate, students must have a grade point average of 2.0 in all major courses.

All of the following core courses (19 hrs)
GEA 1000 (3) World Regional Geography
GEO 1400 (3) Human Geography
GEO 2200C (3) Physical Geography
GEO 4162C (3) Spatial Data Analysis
GIS 3015 (3) Map Analysis
GIS 4043, GIS 4043L (3, 1) Geographic Information Systems and lab Human Geography (3 hrs). Select one course from the following:
GEO 3502 (3) Economic Geography
GEO 4357 (3) Environmental Conflict and Economic Development
GEO 4421 (3) Cultural Geography
GEO 4450 (3) Medical Geography
GEO 4471 (3) Political Geography
GEO 4700 (3) Transport Geography
GEA XXXX (3) GEA courses numbered 2000 or higher

Physical Geography (3 to 4 hrs). Select one course from the following:
GEA 4213 (3) U.S. National Parks
GEO 4114 (3) Field Methods
GEO 4300 (3) Biogeography
GEO 4375 (3) Landscape Ecology
GIS 4035, GIS 4035L (3,1) Remote Sensing with lab

General Geography electives (8 to 9 hrs).

Students must select additional Geography courses (GEA/GEO/GIS) at the 3000/4000 level to bring the total credits in the major to 34; coursework may include GEO 4930 Special Topics. A maximum of 3 credit hours may be used from GEO 4905 DIS or GEO 4941 Internship.

**Minor Coursework:** at least 12 hours

Students are required to complete a minor in any departmental or interdisciplinary area of interest approved by the undergraduate advisor. A minor will normally range from 12 to 18 hours.

**Computer Skills Competency:** 0 hours beyond major. Both GIS 3015 (3) and GIS 4043/4043L (3/1).

**Oral Communication Competency:** 0-3 hours

Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

**Minimum Program Requirements - Summary**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Hrs. Required</td>
<td>120</td>
</tr>
<tr>
<td>Liberal Studies</td>
<td>36*</td>
</tr>
<tr>
<td>Major Coursework</td>
<td>34*</td>
</tr>
<tr>
<td>Minor Coursework</td>
<td>12</td>
</tr>
<tr>
<td>Computer Skills 0 hours beyond major coursework</td>
<td></td>
</tr>
<tr>
<td>Oral Competency 0-3</td>
<td></td>
</tr>
<tr>
<td>Electives to bring total hours to 120</td>
<td></td>
</tr>
</tbody>
</table>

*NOTE: Some Geography courses may also applied to both Liberal Studies and the major

**Remarks:**

1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. The Bachelor in Arts Degree requires completion of a foreign language through the intermediate (2220) level and 9 additional hours in the fields of history and humanities beyond Liberal Studies.
5. The master’s degree is the usual minimum requirement for employment as a professional geographer.

**Employment Information**


Updated: Summer, 2013
Description of Major
Geology is the study of the earth, its history, structure, composition and evolution to form the planet we know today. The processes at work in and within the earth and the principles governing these processes, as well as the history of animal and plant life as recorded in the rocks, are studied. The principles of geology are applied in the evaluation of environmental aspects of erosion, pollution and natural resources. Geological work consists of collecting data and measurements from field observations, from indirect sensing devices, from laboratory experiments and from systematic evaluations of these data and measurements. The curriculum also includes courses in chemistry, physics, and calculus. A 6 weeks summer field course is required. To allow optimal flexibility in planning upper-division programs, the mathematics and chemistry requirements should be started in the freshman year.

Prerequisite Coursework:
All of the prerequisite courses may also apply to general education and major requirements.
CHM X045, X045L (3,1) General Chemistry I and Lab
CHM X046, X046L (3,1) General Chemistry II and Lab
GLY X010C (4) Physical Geology
MAC X311 (4) Calculus with Analytic Geometry I
PHY X048C, X049C (5,5) Gen. Physics A and B with lab or PHY X053C, PHY X054C (4,4) (Contact department before choosing) Historical Geology strongly recommended (GLY 2100, 2100L at FSU)

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Admission to the Upper-Division Major, Grades and Continuation Requirements:
To be admitted, students must complete at least 52 hours of credit with an adjusted GPA of 2.0 on FSU coursework, with at least half the required hours in Liberal Studies, including freshman English and mathematics, or an AA degree. No geology course or collateral course with a grade below C- will apply toward the major. A student who has accumulated more than five grades below C- (U, D-, D, D+) in mathematics, natural science, and statistics courses taken for college credit at FSU or elsewhere, whether repeated or not, will not be allowed into or continuation as a geology major.

Mapping:
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 38 hours
Basic Geology courses (28 hours)
GLY 2010C (4) Physical Geology
GLY 2100 (3) Historical Geology
GLY 2100L (1) Historical Geology Lab
GLY 3200C (3) Mineralogy & Crystallography
GLY 3310C (3) Igneous & Metamorphic Petrography
GLY 3400C (4) Structural Geology
GLY 4544C (4) Sedimentation and Stratigraphy
GLY 4790 (6) Field Course
Geology Elective courses (10 hours)
Ten hours chose from the following. Additional electives may be selected from a list of GLY graduate courses with permission of the instructor.
GLY 3039 (3) Energy Resources and the Environment
GLY 3610C (4) Invertebrate Paleontology
GLY 4249 (2) Principles of Geochemistry
GLY 4739 (3) Marine Geology
GLY 4780 (4) Environmental Field Problems
GLY 4751C (3) Remote Sensing and GIS
GLY 4820 (3) Principles of Hydrology
GLY 4884 (3) Environmental Geology
GLY 4905 (3) Geohazards
OCB 4631 (3) Estuarine and Coastal Ecology
OCG 4050 (3) Geological Oceanography

Collateral courses: 23-26 hours
MAC 2311 (4) Calculus with Analytic Geometry I
MAC 2312 (4) Calculus with Analytic Geometry II or STA 2122 (3) Introduction to Applied Statistics
CHM 1045, 1045L (3, 1) General Chemistry I with Lab
CHM 1046, 1046L (3, 1) General Chemistry II with Lab
PHY 2048C (5) General Physics A or PHY 2053C (4) College Physics A
PHY 2049C (5) General Physics B or PHY 2054C (4) College Physics B

Minor Coursework: None required beyond collateral coursework.
The required coursework in math, chemistry, and physics will satisfy the requirement for the minor. However, a student may select another minor in consultation with an advisor.

Computer Skills Competency: 3 hours. CGS 2060 (3) or GIS 4043 (3).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36*
Prerequisite Coursework 0 beyond other requirements
Major Coursework 38
Collateral Coursework 23-26
Minor Coursework 0*
Computer Skills 3
Oral Competency 0-3
Foreign Language 0-12 (depending on placement)
Electives to bring total hours to 120
*NOTE: Science courses required for this major may be used to satisfy the Natural Science area Liberal Studies requirement. MAC 2311 (4) is required for this major and may be used to partially satisfy the Mathematics area Liberal Studies requirement for students who exempt prerequisites MAC 1140 and 1114. Collateral coursework may be used to satisfy minor requirements.

Remarks:
1. Must complete at least 60 hours outside of business.
2. A minimum of 45 hours at the 3000 level or above, at least 30 of which must be taken at this University.
3. At least half of the major course semester hours must be completed in residence at this University. After enrolling at this University, all remaining major course requirements must be completed at this University.
4. The final 30 hours must be completed in residence at this University.
Employment Information

Representative Job Titles Related to this Major: (Most require graduate work.) Geologist, Geochemist, Earth Scientist, Geophysicist, Marine Geologist, Hydrologist, Oceanographer, Environmental Administrator, Paleontologist.


Updated: Summer, 2013
**GEOSCIENCES, APPLIED / FSU-TEACH**

**Colleges:** Arts and Sciences  
**Education**

**Degree:** B.S.  
**Limited Access:** No

**Contacts:**  
Applied Geosciences  
Vinette Burns  
403 Love Bldg, FSU  
Tallahassee, FL 32306-4520  
(850) 644-8582 or (850) 644-6205  
vburns@fsu.edu

FSU-Teach  
Dr. Robin R. Smith  
209 Carothers Hall, FSU  
Tallahassee, FL 32306-4482  
(850) 645-8927  
rrsmith@fsu.edu

**Web Page:** [http://fsu-teach.fsu.edu/](http://fsu-teach.fsu.edu/)

**Description of Major**

FSU-Teach is an innovative approach to teacher education that involves collaboration between scientists, mathematicians and education faculty at Florida State University. In Applied Geosciences / FSU-Teach, students will develop deep earth science knowledge and the knowledge, skill, and experience needed to be an effective science teacher. Earth science coursework will include coursework in meteorology, geology, oceanography, hydrology, and astronomy. The program will pay for tuition for the first two Education/Teaching courses. Work study positions with scientists, mathematicians and local schools are available. For more information, see our Web site, [http://fsu-teach.fsu.edu/](http://fsu-teach.fsu.edu/).

This is a double-major only program. FSU-Teach majors are first admitted into their primary, discipline-specific major and must meet the state-wide common program prerequisites for that major, in this case Applied Geosciences. Later, students apply for admission into a secondary major within the College of Education called Science Teaching/FSU Teach. Upon graduation, students are awarded the B.S. degree with majors in Applied Geosciences and Science Teaching.

**Prerequisite Coursework:** 0 beyond other requirements.

Students must complete the following prerequisites required for admission in preparation for the upper division major. All of the following may also apply toward major and/or Liberal Studies requirements.

- MAC X311 (4) Calculus with Analytic Geometry I  
- MAC X312 (4) Calculus with Analytic Geometry II  
- PHY X048C (4-5) General Physics with lab (5 hours at FSU)  
- PHY X049C (4-5) General Physics B with lab (5 hours at FSU)  
- CHM X045, X045L (3,1) General Chemistry I, Lab  
- CHM X046, X046L (3,1) General Chemistry II, Lab  
- * SMT X043 (1) Step 1: Inquiry Approaches to Teaching  
- * SMT X053 (1) Step 2: Inquiry-Based Lesson Design  
- * Transfer students will be able to take SMT X043 and SMT X053 while enrolled at FSU.

**Note:** State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of [http://www.flvc.org](http://www.flvc.org).

**Requirements for graduation in the College of Arts and Sciences include:**

The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

**Progress in this major and formal admission to FSU-Teach and Teacher Education.**

FSU native and transfer students will progress to upper-division (junior) status in the College of Arts and Sciences in the same manner as other Interdisciplinary Physics majors: an AA degree or 52 earned credits (including at least half of the general education requirement to include the English composition and mathematics), at least a 2.5 GPA, and completion of appropriate milestones. To be recognized as “formally admitted” into this major, students must meet the following requirements: 1) certification to upper division (or transfer admission into Mathematics as a junior); 2) completion of Liberal Studies or an AA; 3) satisfactory completion of “Step 1” and “Step 2” courses; 4) a cumulative GPA of at least a 2.5; 5) completion of all of the common prerequisite courses for the Mathematics major; and 6) a passing score on all four parts of the FTCE General Knowledge Test. Once these are complete, the student must complete an “Undergraduate Application to Teacher Education” in 2301 Stone Building, at which time the second major in Education will be added.
Departmental Policy on Grades and Continuation in the Major
Students must earn a minimum GPA of 2.0 in all required courses numbered 2000 or higher. A student who has received more than five unsatisfactory grades (U, F, D-, D, D+) in courses required for the major (chemistry, physics, mathematics, geology, meteorology, and oceanography) at Florida State University or elsewhere, whether repeated or not, will not be permitted to graduate with a degree in Geosciences.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 93 hours.
Required courses for the Applied Geosciences Major: 64 hours
Geosciences Coursework (38 hours)
AST 1002 (3) Planets, Stars and Galaxies
GLY 2100 (3) Historical Geology
One lab selected from AST 1002L (1) Intro. Astronomy Lab or GLY 2100L (1) Historical Geology Lab
GLY 2010C (4) Physical Geology
GLY 4820 (3) Principles of Hydrology
GEO 2200C (3) Physical Geography
MET 1010L (1) Introduction to Atmosphere Lab
MET 2502C (2) Weather Analysis and Forecasting
MET 2700 (3) General Meteorology
MET 3300 (3) Introduction to Atmospheric Dynamics
MET 3103C (3) Climate Change Science
OCE 4008 (3) Principles of Oceanography
OCE 4017 (3) Current Issues in Environmental Studies
SCE 4835C (3) Teaching Earth and Space Science
Collateral Coursework (26 hours)
CHM 1045, 1045L (3,1) General Chemistry I and Lab
CHM 1046, 1046L (3,1) General Chemistry II and Lab
PHY 2048C (5) General Physics A (with lab)
PHY 2049C (5) General Physics B (with lab)
MAC 2311 (4) Calculus with Analytical Geometry I
MAC 2312 (4) Calculus with Analytical Geometry II
Required courses for the Education major: 29 hours
SMT 1043 (1) Step 1: Inquiry Approaches to Teaching
SMT 1053 (1) Step 2: Inquiry-Based Lesson Design
SMT 3100 (3) Knowing and Learning
SMT 4310 (3) Classroom Interactions
SMT 4664 (3) Project Based Instruction
SMT 4945 (6) Apprentice Teaching
HIS 3505 (3) Perspectives on Science and Mathematics
ISC 3523C (3) Research Methods
RED 4335 (3) Content Area Reading for Secondary School Teachers
TSL 4324 (3) ESOL Instruction in the Content Area

Computer Skills Competency: 0 beyond major credits. ISC 3523C.

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. SMT 4664 will satisfy this requirement.

Minimum Program Requirements -Summary
Total Hrs. Required 120
Liberal Studies 36*
Prerequisite Coursework 0 beyond other requirements*
Major Coursework 93 hours
Foreign Language 0-12 (depending on placement)
Computer Skills 0 credits beyond other requirements
Oral Competency 0-3
Electives to bring total hours to 120
*Prerequisite coursework may also be used to satisfy general education and major requirements.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. Students who plan to earn the B. A. degree must complete both a foreign language through the intermediate (2200 or equivalent) level and nine additional hours in the fields of history and humanities.

Employment Information
Representative Job Titles Related to this Major: Middle school or high school teacher. In addition, students may pursue careers appropriate for those with a strong background in science and math.

Representative Employers: Public and private schools, research facilities, government agencies; private industry.

Updated: Summer, 2013
Description of Major
The History major affords the student an opportunity to become familiar with the history of Western and World Civilization as well as the history of specialized regions, such as the United States, Europe, Latin America, the Mid-East, Asia and Africa. The large number of elective hours provided in this curriculum permits the student to concentrate on particular historical eras, themes, or regions. The Department of History also participates in several interdepartmental curricula and the Honors Program.

Prerequisite Coursework:
XXX XXXX (6) Two introductory courses in History with an AFH, AMH, ASH, EUH, HIS, LAH, or WOH prefix. Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Requirements for Progression to the Upper-Division Major
To be admitted, students must complete at least 52 hours of credit with an adjusted GPA of 2.0 on FSU coursework with at least half the required hours in Liberal Studies, including English composition and mathematics. In order to graduate, students must earn a minimum grade of C- or higher in major and minor coursework, with a minimum GPA of 2.0 within both the major and minor.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: * 39 hours
39 hours are required (including two World History courses if no European test credit has been earned). At least 21 of these hours must be earned at FSU. Students with history test credit (American or European AP, IB, or CLEP) should contact the departmental advisor before taking any of the courses below.

* Students entering FSU prior to Fall 2012 are required to complete 33 credits.

All of the following, or their equivalent (12 hours)
WOH 1023 (3) The Modern World to 1815 (community college equivalent EUH 1000 or WOH 1012)
WOH 1030 (3) The Modern World since 1815 (community college equivalent EUH 1001 or WOH1022)
AMH 2010 (3) A History of the United States to 1865
AMH 2020 (3) A History of the United States since 1865
27 additional hours in upper level history courses distributed as follows:
U. S. History: 6 hours
European History: 6 hours
Latin American or Asian or African or Russian History (in any combination): 6 hours
Two additional 3/4000-level history courses, any topic: 6 hours (Required of students entering Fall 2012 and after)
HIS 4935 (3) Senior Seminar. Topics vary.

Directed Individual Studies, Tutorials, and Honors work may not be counted toward the major.
Students must complete a foreign language through the intermediate (2220 or equivalent) level. A minor (or second major) is required.
Minor Coursework: 12 hours in an approved minor area, or 15 hours in an approved interdepartmental minor or requirements as stated by the minor area.

Computer Skills Competency: 3 hours. CGS 2060 (3), CGS 2100 (3), EME 2040 (3), or HIS 4164 (3).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36
Major Coursework 39
Minor Coursework 12
Computer Skills 3
Oral Competency 0-3
Foreign Language 0-12 (depending on placement)
Other Coursework 0
Electives 15-30

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Archivist, Researcher, Business Management Trainee, Biographer, Curator, Teacher (Secondary), Editor/Journalist, Peace Corps Worker, Writer, Information Specialist, Administrative Officer, Insurance Agent, Lawyer (w/legal training), Librarian, Legislative Aide, Public Relations Specialist, Museum Guide, Tour Guide, Sales Personnel, Travel Agent, Historian (with grad. training), Banker, Securities Broker, Market Research Analyst.


Updated: Summer, 2013
Description of Major
The program in hospitality management 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. This professional program is nationally and internationally known. Interested students should consult a faculty advisor for more information.

In the first two years at FSU, students should take courses to complete the following four requirements: Liberal Studies (general education) requirements, Gordon Rule Writing requirement, Multicultural Course requirements, and Prerequisite Coursework requirements. Some courses may fulfill requirements in multiple areas.

Prerequisite Coursework: 21 hours
The following courses must be completed with a C- or better:
- ACG X021 (3) Introduction to Financial Accounting
- ACG X071 (3) Introduction to Managerial Accounting
- CGS X100 (3) Microcomputer Applications for Business or CGS X518 (3) Spreadsheets for Business
- ECO X013 (3) Principles of Macroeconomics
- ECO X023 (3) Principles of Microeconomics
- MAC 1105 (3) College Algebra
- STA X023 (3) Business Statistics

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Upper-Division Major
Admission to the Hospitality Management major requires the following: 1) completion of at least 52 semester hours; 2) a cumulative grade point average based on all college work attempted of at least 2.50; and 3) satisfactory completion of required prerequisite coursework.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 54 hours
Students must earn a C- or better and a minimum GPA of 2.0 in courses used to satisfy the Hospitality Management major requirements.

All of the following (42 hours):
- HFT 1000 (3) Introduction to Hospitality & Tourism (C- or better required)
- GEB 3213 (3) Business Communications
- HFT 3424 (3) Hospitality Financial Analysis
- HFT 3603 (3) Law for Hospitality Operations
- HFT 3806 (3) Introduction to Food and Beverage Management
HFT 3941r (12) Management Internship(s)  
HFT 4224 (3) Hospitality Leadership and Ethics  
HFT 4253 (3) Lodging & Luxury Hotel Management  
HFT 4471 (3) Managing Revenues and Expenses  
HFT 4502 (3) Hospitality Services Marketing & Research  
HFT 4802 (3) Catering Management  
HFT 4941 (0) Field Study in Hospitality Administration  
Plus four (4) electives from the following list of courses (12 hours):  
HFT 2060 (3) Coffee, Tea & International Culture  
HFT 2061 (3) Ales, Lagers & International Culture (Multicultural X course)  
HFT 2062 (3) International Wine and Culture (Multicultural X course)  
HFT 2063 (3) Distilled Spirits & International Culture  
HFT 2080 (3) International Protocol (Multicultural Y course)  
HFT 2716 (3) International Travel & Culture (Multicultural X course)  
HFT 2890 (3) International Food & Culture (Multicultural X course)  
HFT 3221 (3) Human Resource Management in Hospitality Operations  
HFT 3240 (3) Managing Services Organizations  
HFT 3270 (3) Resort Operations  
HFT 3272 (3) Senior Services Management  
HFT 3275 (3) Resort Development  
HFT 3277 (3) Club Management  
HFT 3519 (3) Convention Services & Event Management  
HFT 3602 (3) Ethics and Service Leadership  
HFT 3700 (3) Tourism Management & the Environment  
HFT 4205 (3) Conversational Spanish for Hospitality Managers  
HFT 4803 (3) Advanced Food and Beverage Management  
HFT 4866 (3) Wine and Culture  
HFT 4930r (3) Special Topics in Hospitality  

Required Work Experience:  
Students enrolled in the Hospitality Management major must complete at least one thousand (1,000) hours of work experience in the hospitality industry. The work experience must be completed at the post-secondary level. Students must register for HFT 4941 Field Study in Hospitality Administration in their final semester to document this work experience. Students are required to complete 12 semester hours of Management Internship credit (HFT 3941r) as part of their work experience.

Computer Skills Competency: 0 hours beyond prerequisites. CGS 2100 (3) or CGS 2518 (3).

Oral Communication Competency: 0 hours beyond other requirements.
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. Business majors take GEB 3213.

Minimum Program Requirements - Summary  
Total Hours Required 120  
Liberal Studies 36*  
Prerequisite Coursework 21*  
Major Coursework 54  
Minor Coursework 0  
Computer Skills 0 beyond prerequisites  
Oral Competency 0 beyond major coursework  
Electives to bring total hours to 120  
*Some Prerequisite courses may also be counted as part of Liberal Studies.

Remarks:  
1. Courses taken at a Community College may not be substituted for 3000/4000 level courses.  
2. A minimum of 45 hours at the 3000 level or above, at least 30 of which must be taken at this University.  
3. At least half of the major course semester hours must be completed in residence at this University. After enrolling at this University, all remaining major course requirements must be completed at this University.  
4. The final 30 hours must be completed in residence at this University.
5. Summer program: European Summer Study in Switzerland.

**Employment Information**

**Representative Job Titles:** Lodging Manager, Management Trainee, Institutional Manager, Food/Beverage Sales Representative, Restaurant Manager/Owner, Food Service Equipment Director, Food and Beverage Manager, Sales Director, Club Manager.

**Representative Employers:** Hotels, Restaurants, Resorts, Tourism Facilities.

**Placement:** The Dedman School of Hospitality manages the placement service for their majors. About 35-40 companies visit campus each year, with a 90% placement rate.

Updated: Summer, 2013
HOSPITALITY MANAGEMENT
PROFESSIONAL GOLF MANAGEMENT
College: Business
Degree: B. S.
Limited Access: YES
Contact: Don Farr, Director, Professional Golf Management
Address: 2250 Potsdammer Street, FSU
PO Box 3062581
Tallahassee, FL 32306-2581
Phone: (850) 644-0213
E-Mail: dfarr@fsu.edu
Fax: (850) 644-1581

Description of Major
The Professional Golf Management (PGM) major prepares students who are excellent golfers for a career as a PGA professional at a golf course facility. The PGM curriculum is accredited by the Professional Golfers Association (PGA). Students need to start this major as freshmen since it contains numerous requirements in addition to academic coursework. For example, students are required to complete a playing-ability test, PGA sponsored workshops, and 16 months of internship at golf facilities.

In the first two years at FSU, students should take courses to complete the following four requirements: Liberal Studies (general education) requirements, Gordon Rule Writing requirement, Multicultural Course requirements, and Prerequisite Coursework requirements. Some courses may fulfill requirements in multiple areas.

Prerequisite Coursework: 21 hours
The following courses must be completed with a C- or better:
ACG X021 (3) Introduction to Financial Accounting
ACG X071 (3) Introduction to Managerial Accounting
CGS X100 (3) Microcomputer Applications for Business or CGS X518 (3) Spreadsheets for Business
ECO X013 (3) Principles of Macroeconomics
ECO X023 (3) Principles of Microeconomics
MAC 1105 (3) College Algebra
STA X023 (3) Business Statistics

Students applying for the FSU PGA golf major must also have a golf 12 handicap or better. Transfer students will take PGM course(s) in the first semester enrolled and must be committed to completing the 3 year PGA requirements.

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Upper-Division Major
Admission to the PGM major requires the following: 1) completion of at least 52 semester hours; 2) a cumulative grade point average based on all college level work attempted of at least 2.50; and 3) satisfactory completion of required prerequisite coursework.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 55 hours
Students must earn a minimum C- or better and earn GPA of 2.0 in the courses required in the PGM major. PGM majors must also satisfy a number of supplemental requirements, as described in the PGM policies and procedures handout available from the Dedman School of Hospitality. These supplemental requirements include a playing-ability test, PGA sponsored workshops, and 16 months of internships at golf facilities.
HFT 1000 (3) Introduction to Hospitality & Tourism (C- or better required)
HFT 1382 (1) Orientation to PGM (C- or better required)
HFT 2352 (1) Introduction to PGM (C- or better required)
GEB 3213 (3) Business Communications
HFT 3277 (3) Club Management
HFT 3353 (1) Intermediate PGM
HFT 3354 (3) Agronomy for Golf Course Management
HFT 3355 (1) Advanced PGM
HFT 3424 (3) Hospitality Financial Analysis
HFT 3603 (3) Law for Hospitality Operations
HFT 3806 (3) Introduction to Food and Beverage Management
HFT 3941r (12) Management Internship(s)
HFT 4224 (3) Hospitality Leadership and Ethics
HFT 4253 (3) Lodging & Luxury Hotel Management
HFT 4471 (3) Managing Revenues and Expenses
HFT 4502 (3) Hospitality Services Marketing & Research
HFT 4802 (3) Catering Management
HFT XXXX (3) One additional HFT course from the approved list

Computer Skills Competency: 0 hours beyond prerequisites. CGS 2100 (3) or CGS 2518 (3).

Oral Communication Competency: 0 hours beyond other requirements
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. Business majors take GEB 3213.

Minimum Program Requirements - Summary
Total Hours Required 120
Liberal Studies 36*
Prerequisite Coursework 21*
Major Coursework 55
Minor Coursework 0
Computer Skills 0 beyond prerequisites
Oral Competency 0 beyond major coursework
Electives to bring total hours to 120
*Some Prerequisite courses may also be counted as part of Liberal Studies.

Remarks:
1. Courses taken at a Community College may not be substituted for 3000/4000 level courses.
2. A minimum of 45 hours at the 3000 level or above, at least 30 of which must be taken at this University.
3. At least half of the major course semester hours must be completed in residence at this University. After enrolling at this University, all remaining major course requirements must be completed at this University.
4. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles: Golf Professional
Representative Employers: Resorts, Country Clubs, Golf Courses

Updated: Summer, 2013
HUMANITIES
College: Arts and Sciences
Degree: B. A.
Limited Access: NO
Contact: Dr. Kathryn Stoddard
Address: 432 Diffenbaugh, FSU
Tallahassee, FL 32306-1549
Phone: (850) 644-8292

Description of Major
The purpose of the Humanities major is to provide the opportunity for broad experience in the Humanities departments with enough study in one field to prepare for graduate work and to ensure against superficiality. Organization of knowledge along the lines of traditional departments is important, but great benefit may be derived from supplemental study in concentrations such as Classical Civilization, Contemporary Culture, Asian Studies, etc. The program not only gives the student a thorough Liberal Arts background, but also provides a valuable foundation for a variety of professional fields, such as teaching, journalism, law, librarianship, foreign service, the religious professions, music, arts administration, and government service.

Prerequisite Coursework: none.
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Requirements for Progression to the Upper-Division Major
To be admitted students must complete at least 52 hours of credit with an adjusted GPA of 2.0 on FSU coursework, and at least half the required hours in Liberal Studies, including freshman English composition and mathematics, or an AA.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 42 hours beyond Liberal Studies
42 hours beyond Liberal Studies, to be chosen from three approved Humanities departments/areas (listed below). A minimum of twenty-four (24) credit hours must be taken in the major at the 3000/4000 level. These hours will be distributed as follows:
Group I: Primary Department Requirement (18 hours).
Eighteen (18) hours selected from one of the following.
American Studies
Art History (including the sub-topic Interior Design)
Asian and Middle Eastern Studies
Classical Studies
Communication
English
Film Studies
History
History and Philosophy of Science
Human Rights
Music History
Philosophy
Religion
Theater
Group II: Secondary Concentration (12 hours)
Twelve (12) hours must be selected from one of the departments/areas listed above. The secondary department cannot be the same as the primary department.

Group III: Tertiary Concentration (12 hours)
Twelve (12) hours must be selected from one of the departments/areas listed above. The tertiary department cannot be the same as the primary or secondary departments.

Minor: A separate minor is not required.

Computer Skills Competency: 3 hours. CGS 2060 (3), CGS 2100 (3), or MUE 2360 (3).

Oral Communication Competency: 0-3 hours. Students must demonstrate the ability to orally transmit ideas and information clearly. The requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36
Major Coursework 42
Minor Coursework 0
Foreign Language 0-12 (depending on placement)
Computer Skills 3
Oral Competency 0-2
Electives to bring total credits to 120

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Teacher in High School (B.A.) or Junior College (M.A.), Museum Curator, Art Gallery Curator, and Journalist. After graduate study: Music Critic, Drama Critic, Art Librarian.


Updated: Summer, 2013
INFORMATION, COMMUNICATION AND TECHNOLOGY
College: Communication and Information
Degree: B.S.
Limited Access: NO
Contact: CCI Advising Center
Address: 4115 University Center C, FSU
Tallahassee, FL 32306-2651
Phone: (850) 644-7278
E-Mail: advising@cci.fsu.edu
Website: http://slis.fsu.edu/

Description of Major
Information, Communication and Technology is an interdisciplinary major for students interested in combining information technology with communication foundations. Students in the major will learn skills in cutting edge technology, web design and applications, communicating information effectively, delivering information in and through creative and intelligent approaches, and working in teams.

Prerequisite Coursework: 24 hours
Information, Communication and Technology majors must complete the following with a grade of C- or higher: Some prerequisite coursework may also be used to satisfy Liberal Studies/general education requirements.
PSY XXXX (3) Any Psychology course (PSY X012 preferred)
STA X023 (3) or STA X122 (3) Statistics
ECO X013 (3) Principles of Macroeconomics
MAC XXXX (3) Precalculus or Discrete Math
PHI XXXX (3) any general ethics course (FSU students take PHI 2630)
CGS XXXX (3) any database course (FSU students take LIS 2780)
COP XXXX (3) any programming course (FSU students take CGS 2835)
COP XXXX (3) any object-oriented programming course (FSU students take COP 2258)
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for Progression to the Upper-Division Major
Students must complete the prerequisite coursework to be considered for entrance into the major. Students must also complete at least 52 hours of credit with a minimum grade point average of 2.0, at least half the required Liberal Studies, including freshman English composition and both mathematics courses, or an A.A. Degree.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu.

Major Program of Studies at FSU: 42 hours
No grade below a C- will be accepted for any course in the major.
Program Introduction (9 hours),
MMC 2000 (3) Introduction to Mass Media
LIS 3353 (3) Technologies for Information Professionals
LIS 3103 (3) Information and Society
Technology Techniques and Research (9 hours). Choose three:
LIS 3201 (3) Research and Data Analysis for Information Professionals
LIS 3267 (3) Information Science
ADV 4500 (3) Advertising Research
RTV 3001 (3) Media Techniques
Organizational Communication and Culture (9 hours). Choose three:
ADV 3352 (3) Mass Media Law
SPC 3210 (3) Contemporary Human Communication
SPC 4710 (3) Intercultural Communication
COM 3332 (3) New Communication Technologies and Contemporary Society
LIS 3793 (3) Information Architecture
LIS 4380 (3) Social Media Management

Writing, Presentation, and Promotion (9 hours). Choose three:
PUR 3000 (3) Introduction to Public Relations
SPC 2608 (3) Public Speaking or COM 3110 (3) Communications for Business Professionals
ADV 3008 (3) Principles of Advertising
ADV 3410 (3) Hispanic Marketing
LIS 3021 (3) Technical Communication
LIS 4480 (3) Information Technology Leadership

Major Electives (3 hours required). Select at least one (3 hrs. required) or more:
COM 4470 (3) Desktop Multimedia
LIS 4368 (3) Web Development with PHP
LIS 4301 (3) Electronic Media Production
LIS 4940 (1-6) Internship
LIS 4941 (3) IT Practicum
Special Topics, DIS, Honors, others as approved by the advisor

Capstone (3 hours):
LIS 4910 (3) Information Technology Project

Minor Coursework:
A minor is not required for this degree but is strongly recommended. A minor consists of 12 hours in an approved minor area, 15 hours in an approved interdisciplinary minor, or requirements as stated by the minor area.

Computer Skills Competency: 0-3 hours beyond the major. CGS 2060 (3), CGS 2100 (3), or COM 4470 (3). COM 4470 is a course option for this major and also be used to satisfy this requirement.

Oral Communication Competency: 0-3 hours.
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. SPC 2608 is a course option for this major and also satisfies this requirement.

Minimum Programs Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36*
Prerequisite Coursework 24*
Major Coursework 42
Minor Coursework 0
Computer Skills 0-3
Oral Competency 0-3
Electives to bring total credits to 120

*Note: Some prerequisite coursework may also be applied to Liberal Studies requirements.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Employers: IT Businesses, Business and Professional Associations, Public Relations Firms, Communication Firms, Research Organizations, Universities and Colleges, Consulting Firms, Information Industry (Publishers and other media outlets), Planning Agencies, Government Agencies.

Updated: Summer, 2013
INFORMATION TECHNOLOGY

College: Communication and Information
Degree: B. S.
Limited Access: NO
Contact: CCI Advising Center
Address: 4115 University Center, Bldg. C
Tallahassee, FL 32306-2651
Phone: (850) 644-7278
E-Mail: advising@cci.fsu.edu
Website: http://slis.cci.fsu.edu/

Description of Major
In the emerging connected society, information and information technology are ubiquitous and influence almost all forms of human activity. Modern IT professionals use information and technology to support the goals and cultures of the people and organizations they serve. The College of Communication and Information’s Bachelor of Science in information technology (IT) program prepares graduates who can apply technology innovatively, manage information purposefully, communicate effectively, and work ethically and productively with people. Successful information technology professionals determine an organization’s information needs and then design, create, and manage information systems to meet those needs. In the IT program students participate in hands-on learning experiences designed to develop and hone leadership skills in communication, technology, teamwork, information management, critical thinking, and problem solving.

The BS in IT program is a forty-two (42) semester hour program, offering multiple concentrations. The program requires six (6) foundation courses, two (2) capstone courses, and six (6) elective courses. Students can focus on topics such as networking and security, databases and interaction design, health informatics, and web site design.

The demand for IT professionals continues to grow. The Bachelor of Science in IT offered by the College of Communication and Information draws upon the service tradition of the early information fields to educate IT professionals to make a difference in the organizations for which they work and create value through the appropriate and judicious use of information technology.

Technology Requirement
All students in the Information Technology major are required to provide their own laptop computer and appropriate software. Specific information may be found online: http://slis.cci.fsu.edu/Students/.

Prerequisite Coursework: 24 hours
Information Technology majors must complete the following with a grade of C- or higher: Some prerequisite coursework may also be used to satisfy Liberal Studies/general education requirements.

PSY XXXX (3) Any Psychology course (PSY X012 preferred)
STA X023 (3) or STA X122 (3) Statistics
ECO X013 (3) Principles of Macroeconomics
MAC XXXX (3) Precalculus or Discrete Math
PHI XXXX (3) any general ethics course (FSU students take PHI 2630)
CGS XXXX (3) any database course (FSU students take LIS 2780)
COP XXXX (3) any any programming course (FSU students take CGS 2835)
COP XXXX (3) any object-oriented programming course (FSU students take COP 2258)

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for Progression to the Upper-Division Major
Students must complete the prerequisite coursework to be considered for the major. Students must also complete at least 52 hours of credit with a minimum grade point average of 2.0, at least half the required Liberal Studies, including freshman English composition and both mathematics courses, or an A.A. Degree.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.
Major Program of Studies at FSU: 42 hours
Majors must complete all of the following (24 hours):
LIS 3021 (3) Technical Communication for Information Professionals
LIS 3201 (3) Research and Data Analysis
LIS 3267 (3) Information Science
LIS 3353 (3) Technologies for Information Professionals
LIS 3706 (3) Information Systems and Services
LIS 3784 (3) Information Organization and Communication
LIS 4910 (3) Information Technology Project
LIS 4708 (3) Perspectives on Information Technology

Required elective coursework within the major (18):
Elective coursework within the major is to be chosen in consultation with an advisor.

Minor Coursework:
A minor is not required for this degree but is strongly recommended. A minor consists of 12 hours in an approved minor area, 15 hours in an approved interdisciplinary minor, or requirements as stated by the minor area.

Computer Skills Competency: 3 hours. CGS 2060 (3) or CGS 2100 (3).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
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<th>Total Hrs. Required</th>
<th>120</th>
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<td>Liberal Studies</td>
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<td>Computer Skills</td>
<td>3</td>
</tr>
<tr>
<td>Oral Competency</td>
<td>0-3</td>
</tr>
<tr>
<td>Electives to bring total credits to 120</td>
<td></td>
</tr>
</tbody>
</table>

*Note: Some prerequisite coursework may also be applied to Liberal Studies requirements.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Information Architect, Network Administrator, Technical Editor/Writer, Usability Analyst, Content Manager, Systems Analyst, Technology Coordinator, Web Developer/Administrator.

Representative Employers: IT Businesses, Business and Professional Associations, Public Relations Firms, Communication Firms, Research Organizations, Universities and Colleges, Consulting Firms, Information Industry (Publishers and other media outlets), Planning Agencies, Government Agencies.

Updated: Summer, 2013
INTERIOR DESIGN
College: Visual Arts, Theatre and Dance
Degree: B. S. or B. A.
Limited Access: Yes
Contact: Lisa Waxman. Tony Purvis
Address: 1038 William Johnston Bldg., FSU
Tallahassee, FL 32306-1231
Phone: (850) 644-1436
E-Mail: lwaxman@fsu.edu; tpurvis@fsu.edu

Description of Major
Interior Design is concerned with the design of all interior spaces, both residential and commercial, and the total field of environmental design. Students are prepared to meet professional requirements and criteria. A professional designer is defined by the national accrediting body of the Council for Interior Design Accreditation (CIDA) as one who is "qualified by education and experience to identify, research and creatively solve problems relative to the function and quality of man's proximate environment." The competencies taught include principles and elements of design, design analysis, space planning and programming, drafting and technical drawing, and graphic presentation of design solutions. Interior Design is studied in close relationship to art and architecture. There is an active student chapter of the American Society of Interior Designers (ASID), and the International Interior Design Association (IIDA) which is open to all majors in the program.

Prerequisite Coursework:
All of the following also apply to the major:
IND X203 (3) Design Fundamentals I
IND X204 (3) Design Fundamentals II
IND X206 (3) Introduction to Interior Design (FSU students take IND 2002 Survey of Interior Design)
IND X406 (3) Technical Drawing
* ARH X057 (3) or ARH X051 (3) History and Criticism of Art, Renaissance through Contemporary
* May also be used to meet a general education/Liberal Studies humanities requirement.
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Special note to transfer students: There is a special summer program for transfer students through which they may complete the prerequisite/diagnostic courses. Contact the department for more information about the summer program.

Requirements for Admission to the Major
The interior design program is limited access based on available faculty and space. The 4-year program of study incorporates a series of diagnostic/prerequisite courses in the first two terms of study. At the end of the spring term, a First Year Review will be held, and the top 40 students (essentially two studios of 20 each) will be allowed to progress into the second year and above courses. Transfer students may take all of the diagnostic/prerequisite courses during the summer term and compete equally for the fall enrollment available.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 76 hours
In order to graduate, students must successfully complete all program requirements. The program is accredited by CIDA and the National Association of Schools of Art and Design (NASAD).

Required courses, 70 hours.
IND 1203 (3) Design Fundamentals I
IND 1204 (3) Design Fundamentals II
IND 2002 (3) Survey of Interior Design
IND 2300 (3) Graphic Techniques I
IND 2310 (3) Graphic Techniques II
IND 3217 (3) Interior Design Studio I
IND 4218 (3) Interior Design Studio II
IND 4242 (3) Interior Design Studio III
IND 4243 (3) Interior Design Studio IV
IND 4XXX (3) Interior Design Studio V
IND 3465 (3) Computer-Aided Design I
IND 3469 (3) Computer-Aided Design II
IND 4101 (3) History of Interiors I
IND 4131 (3) History of Interiors II
IND 4161 (3) History of Interiors III
IND 3430 (3) Lighting Fundamentals
IND 3440 (3) Furniture Design
IND 3470 (3) Construction Systems
IND 3474 (3) Construction Documents
IND 3480 (3) Materials and Methods
IND 3529 (1) Portfolio Preparation
IND 3627 (3) Sustainable Design
IND 4506 (3) Business Practices
CTE 1401, 1401L (3,1) Textiles and Lab
Electives: 6 hours. Choose from the courses below:
IND 4156 (3) Historical Restoration & Research
IND 3930 (1-3) Special Topics in Interior Design
IND 4949r (1-3) Internship
IND 4905 (1-3) Directed Individual Study
Other courses in related areas may be selected in consultation with the Interior Design department.

Computer Skills Competency: 3 hours. IND 3469 (3).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36
Major Coursework 76
Minor Coursework 0
Computer Skills 0 beyond required major coursework
Oral Competency 0-3
Other Coursework 0
Electives to bring total number of credit hours to 120

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. Students who plan to earn the B. A. degree must complete a foreign language through the intermediate (2200 or equivalent) level and nine additional hours in the fields of history and humanities.

Employment Information
Representative Job Titles Related to this Major: Interior Designer, Commercial Designer, Contract Designer, Space Planner, Residential Designer, Preservationist, Product Consultant, Design Contractor, Interior Architect, Design Specifier, Interior Space Coordinator, Facilities Manager, Exhibit Designer.
Representative Employers: Interior Design Studios, Architectural Firms, Property Management Firms, Fabric, Carpet and Furniture Companies, Realtors, Retailers of Interior Products, Division of Parks and Recreation (Historic Preservation).

Updated: Summer, 2013.
INTERNATIONAL AFFAIRS
College: Social Sciences and Public Policy
Degree: B. A. or B. S.
Limited Access: NO
Contact: Dr. Lee Metcalf; Dr. Joanna Hunt
Address: 211 Bellamy Building, FSU
Tallahassee, FL 32306-2161
Phone: (850) 644-4418
E-Mail: jchunt@fsu.edu

Description of Major
The participating departments (Anthropology, Economics, Geography, Modern Languages, Political Science, History, Philosophy, Public Administration, Religion, Sociology, and Urban and Regional Planning) cooperate to offer an interdepartmental major and minor combination, at the undergraduate and graduate levels, which is designed: 1) to equip students with a fundamental orientation in the field of international relations, 2) to provide basic methods of approach to the study, and 3) to provide intelligent observation of international affairs. Students are advised to coordinate their major coursework with foreign language study, focusing on a regional concentration. For the broader view of international affairs, students should include courses in economic organizations, and international relations. Each student majoring in International Affairs is encouraged to devote one semester to study abroad. Students are also encouraged to take advantage of the internship opportunities in Tallahassee and/or Washington, D.C.

Prerequisite Coursework: None.
There is no prerequisite coursework for the major, but students are encouraged to take lower level introductory courses in some of the participating disciplines. Such courses serve as background for the major and may meet prerequisites for more advanced courses in the major. CPO 2002 is prerequisite for higher level courses in Comparative Politics; INR 2002 is prerequisite for higher level courses in International Relations; ECO 2013 and 2023 are prerequisite for some higher level courses in economics.
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for Progression to the Upper-Division Major
To be admitted, students must complete at least 52 hours of coursework with a minimum FSU GPA of 2.0 and most of the hours Liberal Studies requirements met, including freshman English composition and mathematics, or an A.A. degree.

Mapping
Mapping is FSU's academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 39 hours beyond Liberal Studies or an AA Degree.
39 hours required beyond Liberal Studies or an AA Degree with a grade of C- or higher in each course and a minimum cumulative grade point average of 2.0. All coursework must be selected from the approved list of courses in participating departments; to see the list; go to http://www.coss.fsu.edu/inaprog/students/ucourselist.html. Selected coursework must meet the following criteria:
1. INR 3003 (3) Introduction to International Affairs
2. A minimum of 12 hours, maximum of 18 hours, in one department or concentration area.
3. At least 18 hours must be above 2999.
4. A minimum of 27 classroom hours.
In addition, majors must complete a modern foreign language through the intermediate level (2220 or equivalent).

Computer Skills Competency: 3 hours. CGS 2060 (3) or CGS 2100 (3).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.
Minimum Program Requirements - Summary

Total Hrs. Required 120
Liberal Studies 36
Major Coursework 39*
Minor Coursework 0
Foreign Language 0-12 (depending on placement)
Computer Skills 3
Oral Competency 0-3
Electives to bring total credits to 120

NOTE: Hours taken to meet Liberal Studies requirements cannot be used to fulfill the 39 required hours in International Affairs.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. Students who plan to earn the B. A. degree must complete a foreign language through the intermediate (2200 or equivalent) level and nine additional hours in the fields of history and humanities.

Employment Information

Representative Job Titles Related to this Major: Foreign Service Officer, Foreign Affairs Analyst, Foreign Service Specialist, Research & Education Assistant, Intelligence Analyst, Political Risk Analyst, Teacher, Journalist.


Updated: Summer, 2013
Latin America and Caribbean Studies

College: Social Sciences and Public Affairs
Degree: B.A. or B.S.
Limited Access: NO
Contact: Dr. Lee Metcalf; Dr. Joanna Hunt
Address: 211 Bellamy Building, FSU
Tallahassee, FL 32306-2161
Phone: (850) 644-4418
E-Mail: jchunt@fsu.edu

Description of Major
The undergraduate program in Latin American Caribbean Studies is designated for: (1) general liberal arts students who wish to learn more about the peoples and civilizations of this vital area; (2) students who wish to pursue graduate work in this field; and (3) students who seek employment in or relating to Latin American and the Caribbean. As this program is interdivisional in nature, students take courses in history, humanities, political science, economics, sociology, anthropology, art, geography, religion, philosophy and languages. An LAC Studies major with an emphasis in Business has been developed. It is designed to provide undergraduate students with a unique opportunity to acquire knowledge in Latin American Caribbean Studies and receive a degree with a business emphasis.

Prerequisite Coursework: None.
There is no prerequisite coursework for the major, but students are encouraged to take lower level introductory courses in some of the related disciplines. Such courses serve as background for the major and may meet prerequisites for more advanced courses in the major. Students are encouraged to begin study in a relevant area language and to take any culture and history courses that relate to Latin America and the Caribbean.

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for Progression to the Upper-Division Major
Students must complete at least 52 hours of credit with a minimum FSU GPA of 2.0 and most of the Liberal Studies requirements met, including freshman English composition and mathematics, or an A.A. Degree.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu.

Major Program of Studies at FSU: 36 hours
Students majoring in the program are to construct their study program around three components, in consultation with an advisor. The components are:
1) Area Specific Courses (24 hours)
Students select a minimum of 24 hours from the approved list of area-specific courses.
2) Comparative Concepts and Theories (6 hours)
Students select a minimum of 6 hours from the approved list of concepts and theories courses. These should be selected in consultation with their adviser.
3) Additional LAC Studies courses (6 hours)
Students select six (6) additional hours in consultation with their advisor from the approved “Area Specific” and “Comparative Concept and Theories” lists.
Students may view the approved lists on the LAC Studies website: http://www.fsu.edu/lacs/.

Foreign Language Requirement: 0-12 hours
In addition to the 36 hour in the major, a relevant foreign language through the intermediate level (2000 level) is required (Spanish, Portuguese, French, or other approved Latin American Caribbean 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
coursework on the FSU campus or by participating in a semester or summer abroad program in their relevant cultural area as such programs become available. To encourage the achievement of language proficiency, language coursework hours taken beyond the intermediate-level hour foreign language requirement may be counted towards the required 36 hours for the major.

Latin American Caribbean Studies Major with an Emphasis in Business:
This degree program combines the regular LAC Studies major with a planned series of business courses. The requirements include in an approved language (Spanish, Portuguese, French or other LAC language) through the intermediate (2000) level, 21 hours in LAC Studies area specific coursework, and fifteen hours in either the International Marketing or the International Finance tracks. Prerequisites for both tracks are ECO 2013 and ECO 2023, which may be included as part of the Liberal Studies requirements. In addition, students selecting the international finance track must complete ACG 2021 as a prerequisite.

Computer Skills Competency: 3 hours. CGS 2060 (3) or CGS 2100 (3).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36*
Major Coursework 36*
Minor Coursework 0
Foreign Language 0-12 (depending on placement)
Computer Skills 3
Oral Communication Competency 0-3
Electives to bring total hours to 120
* Hours taken to meet Liberal Studies or AA requirements cannot be used to fulfill the 36 hours required in LAC Studies. However, students selecting the Latin American Caribbean Studies with an Emphasis in Business option should choose ECO 2013 and 2023 as part of their Liberal Studies/AA/general education program, as these are not counted in the total hours required for the LAC Studies major.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Foreign Service Specialist, Intelligence Specialist, Teacher, Journalist, Import/Export Trade Specialist. Graduates of the Latin American & Caribbean Studies program are prepared for work similar to those in the broad field of International Affairs, but obviously in a specialized area. Government, Teaching and Business are the primary employers.

Updated: Summer, 2013
MANAGEMENT
GENERAL MANAGEMENT
College: Business
Degree: B. S.
Limited Access: YES
Contact: College of Business Undergraduate Programs Office and Advising Center
Address: 328 Rovetta Business Building, FSU
Tallahassee, FL 32306-1110
Phone: 850) 644-3892
E-Mail: ugprog@cob.fsu.edu
Fax: (8550) 644-7332

Description of Major
Management is concerned broadly with human, physical, and information resources and how to acquire, use, and maintain an optimal resource mix in an organizational setting. The essence of management’s responsibility is decision making about these resources. The Management program provides the student with a foundation in the various areas of management and with specialization in one or more areas.

In the first two years at FSU, students should take courses to complete the following four requirements: Liberal Studies (general education) requirements, Gordon Rule Writing requirement, Multicultural Course requirements, and Prerequisite Coursework requirements. Some courses may fulfill requirements in multiple areas. Electives in the first two years should focus on gaining additional exposure to the social and behavioral sciences, and on improving communication and analytical reasoning skills.

Prerequisite Coursework: 21 hours.
The following courses must be completed with a C- or better:
ACG X021 (3) Introduction to Financial Accounting
ACG X071 (3) Introduction to Managerial Accounting
CGS X100 (3) Microcomputer Applications for Business or CGS X518 (3) Spreadsheets for Business
ECO X013 (3) Principles of Macroeconomics
ECO X023 (3) Principles of Microeconomics
MAC X233 (3) Calculus for Business and Non-Physical Sciences
STA X023 (3) Business Statistics
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Upper-Division Major
Admission to the limited access business programs requires the following: 1) completion of at least 52 semester hours; 2) a cumulative grade point average on all college work attempted of at least 2.90; and 3) satisfactory completion of all required prerequisite coursework.

Mapping. Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 45 hours.
Courses taken at a Community College may not be substituted for 3000/4000 level courses.

Lower-Division Requirement (3 hours)
This course is a Term 4 milestone. Transfer students must complete it in their first term of enrollment at FSU.
RMI 2302 (3) Risk in Business and Society

General Business Core Requirements for General Management majors (15 hours):
A grade of C- or better must be earned in each course.
BUL 3310 (3) The Legal and Ethical Environment of Business
FIN 3403 (3) Financial Management of the Firm
GEB 3213 (3) Business Communications
MAN 3240 (3) Organizational Behavior
MAR 3023 (3) Basic Marketing Concepts
General Business Breadth Requirements for General Management Majors (9 hours):
Each course selected must be completed with a grade of C-or better.
Must complete the following:
MAN 4720 (3) Strategic Management and Business Policy
Plus two (2) electives from the following list of courses:
FIN 3244 (3) Financial Markets, Institutions, and International Finance Systems
ISM 3003 (3) Foundations of Management Information Systems
MAN 3600 (3) Multinational Business Operations
MAR 3400 (3) Professional Selling
QMB 3200 (3) Quantitative Methods for Business Decisions
REE 3043 (3) Real Estate
RMI 3011 (3) Risk Management/Insurance

Major Area Requirements for General Management Majors (18 hours):
A grade of C- or better must be earned in each course used to satisfy the general management major area requirements. A minimum grade point average (GPA) of 2.0 must be earned in the courses used to satisfy the Management major.
The following three (3) courses:
MAN 4301 (3) Human Resource Management
MAN 4701 (3) Business and Society
MAN 4752 (3) Competitive Dynamics
Plus three (3) electives from the following list of courses:
MAN 4143 (3) Contemporary Leadership Challenges
MAN 4401 (3) Management of Labor and Industrial Relations
MAN 4441 (3) Negotiation and Conflict Management
MAN 4605 (3) Cross Cultural Management
MAN 4930r (3) Special Topics in Management
MAN 4941 (3) Management Internship

Computer Skills Competency: 0 hours beyond prerequisites. CGS 2100 (3) or CGS 2518 (3).

Oral Communication Competency: 0 beyond major coursework.
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. Business majors take GEB 3213.

Minimum Program Requirements - Summary
Total Hours Required 120
Liberal Studies 36*
Prerequisite Coursework 21*
Major Coursework 45
Minor Coursework 0
Computer Skills 0 beyond prerequisites
Oral Competency 0 beyond major coursework
Electives to bring total credits to 120 (must complete at least 60 hours outside of business)
*Some prerequisite courses may also be counted as part of Liberal Studies.

Remarks:
1. Must complete at least 60 hours outside of business.
2. A minimum of 45 hours at the 3000 level or above, at least 30 of which must be taken at this University.
3. At least half of the major course semester hours must be completed in residence at this University. After enrolling at this University, all remaining major course requirements must be completed at this University.
4. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Management Trainee, Supervisor, Budget Officer, Department Manager, General Manager, Forms & Management Analyst, Planning Analyst, Sales Manager, Operations Director.
Representative Employers: Manufacturers, Insurance Companies, Retailers, Investment Firms, Government Agencies, Banks.

Updated: Summer 2013
HUMAN RESOURCE MANAGEMENT

Description of Major
The Human Resource Management major is designed to provide students with the knowledge and skills required to effectively staff and maintain the workforce of organizations. Beginning with a discussion of human behavior, the HRM major emphasizes the impact of such practices as staffing, compensation, training, and benefits on organizational effectiveness. Special emphasis is placed on analysis and development of change strategies designed to improve individual and organizational performance. Legal and ethical concerns in the treatment of employees are also thoroughly reviewed.

In the first two years at FSU, students should take courses to complete the following four requirements: Liberal Studies (general education) requirements, Gordon Rule Writing requirement, Multicultural Course requirements, and Prerequisite Coursework requirements. Some courses may fulfill requirements in multiple areas. Electives in the first two years should focus on gaining additional exposure to the social and behavioral sciences, and on improving communication and analytical reasoning skills.

Prerequisite Coursework: 21 hours
The following courses must be completed with a C- or better:
- ACG X021 (3) Introduction to Financial Accounting
- ACG X071 (3) Introduction to Managerial Accounting
- CGS X100 (3) Microcomputer Applications for Business or CGS X518 (3) Spreadsheets for Business
- ECO X013 (3) Principles of Macroeconomics
- ECO X023 (3) Principles of Microeconomics
- MAC X233 (3) Calculus for Business and Non-Physical Sciences
- STA X023 (3) Business Statistics

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Upper-Division Major
Admission to the limited access business programs requires the following: 1) completion of at least 52 semester hours; 2) a cumulative grade point average on all college work attempted of at least 2.90; and 3) satisfactory completion of all required prerequisite coursework.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 42 hours
Courses taken at a Community College may not be substituted for 3000/4000 level courses.

Lower-Division Requirement (3 hours)
This course is a Term 4 milestone. Transfer students must complete it in their first term of enrollment at FSU.
- RMI 2302 (3) Risk in Business and Society

General Business Core Requirements for Human Resource Management majors (15 hours):
- A grade of C- or better must be earned in each course.
- BUL 3310 (3) The Legal and Ethical Environment of Business
- FIN 3403 (3) Financial Management of the Firm
GEB 3213 (3) Business Communications
MAN 3240 (3) Organizational Behavior
MAR 3023 (3) Basic Marketing Concepts

**General Business Breadth Requirements for Human Resource Management Majors** (9 hours):
Each course selected must be completed with a grade of C- or better.

**Must complete the following course:**
MAN 4720 (3) Strategic Management and Business Policy

**Plus two (2) electives from the following list of courses:**
- FIN 3244 (3) Financial Markets, Institutions, and International Finance Systems
- ISM 3003 (3) Foundations of Management Information Systems
- MAN 3600 (3) Multinational Business Operations
- MAR 3400 (3) Professional Selling
- QMB 3200 (3) Quantitative Methods for Business Decisions
- RMI 3011 (3) Risk Management/Insurance

**Major Area Requirements for Human Resource Management Majors** (15 hours):
A grade of C- or better must be earned in each course used to satisfy the human resource management major area requirements.
A minimum grade point average (GPA) of 2.0 must be earned in the courses used to satisfy this major.

**All of the following courses:**
- MAN 4301 (3) Human Resource Management
- MAN 4320 (3) Staffing
- MAN 4390 (3) Current Issues in Human Resource Management

**Plus two (2) electives from the following:**
- MAN 4350 (3) Training and Development
- MAN 4401 (3) Management of Labor and Industrial Relations
- MAN 4441 (3) Negotiation and Conflict Management
- MAN 4605 (3) Cross Cultural Management
- MAN 4941 (3) Field Study in Management
- RMI 4135 (3) Employee Benefit Plans

**Computer Skills Competency:** 0 hours beyond prerequisites. CGS 2100 (3) or CGS 2518 (3).

**Oral Communication Competency:** 0 hours beyond major coursework.
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. Business majors take GEB 3213.

**Minimum Program Requirements - Summary**
- Total Hours Required 120
- Liberal Studies 36*
- Prerequisite Coursework 21*
- Major Coursework 42
- Minor Coursework 0
- Computer Skills 0 beyond prerequisites.
- Oral Competency 0 beyond major coursework
- Electives to bring total credits to 120 (must complete at least 60 hours outside of business)

*Some Prerequisite courses may also be counted as part of Liberal Studies.

**Remarks:**
1. Must complete at least 60 hours outside of business.
2. A minimum of 45 hours at the 3000 level or above, at least 30 of which must be taken at this University.
3. At least half of the major course semester hours must be completed in residence at this University. After enrolling at this University, all remaining major course requirements must be completed at this University.
4. The final 30 hours must be completed in residence at this University.
Employment Information

Representative Job Titles Related to this Major: Personnel Technician/Manager, Employee Benefits Manager, Trainer/Training Director, Labor Relations Manager, Wage and Salary Analyst, Job Analyst, Employment Interviewer, Mediator/Arbitrator, Human Resource Specialist, Recruiter.

Representative Employers: Manufacturers, Governmental Agencies: local, state, federal, Retailers, Any Large Organization, private or public.

Updated: Summer, 2013
Description of Major
Management of information and technology is critical to the success of all organizations. The structure of information systems, management of the functions, and control of the information resources is necessary. The MIS major focuses on developing technical and managerial competency and specifically deals with effectively utilizing information for operations and organizational decision making. It includes work information requirements analysis, data base management, networks, and telecommunications. A special focus on understanding communications and network structure is provided. The support of workgroups and teams, and improving their productivity is a key goal as is the transmission and use of information in society.

In the first two years at FSU, students should take courses to complete the following four requirements: Liberal Studies (general education) requirements, Gordon Rule Writing requirement, Multicultural Course requirements, and Prerequisite Coursework requirements. Some courses may fulfill requirements in multiple areas. Electives in the first two years should focus on gaining additional exposure to the social and behavioral sciences, and on improving communication and analytical reasoning skills.

Prerequisite Coursework: 21 hours
The following courses must be completed with a C- or better:
- ACG X021 (3) Introduction to Financial Accounting
- ACG X071 (3) Introduction to Managerial Accounting
- CGS X100 (3) Microcomputer Applications for Business or CGS X518 (3) Spreadsheets for Business
- ECO X013 (3) Principles of Macroeconomics
- ECO X023 (3) Principles of Microeconomics
- MAC X233 (3) Calculus for Business and Non-Physical Sciences
- STA X023 (3) Business Statistics

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Upper-Division Major
Admission to the limited access business programs requires the following: 1) completion of at least 52 semester hours; 2) a cumulative grade point average on all college work attempted of at least 2.90; and 3) satisfactory completion of all required prerequisite coursework.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 45 hours
Courses taken at a Community College may not be substituted for 3000/4000 level courses.

Lower-Division Requirement (3 hours)
This course is a Term 4 milestone. Transfer students must complete it in their first term of enrollment at FSU.
- RMI 2302 (3) Risk in Business and Society

General Business Core Requirements for Management Information Systems majors (15 hours):
- A grade of C- or better must be earned in each course.
- BUL 3310 (3) The Legal and Ethical Environment of Business
- FIN 3403 (3) Financial Management of the Firm
GEB 3213 (3) Business Communications
MAN 3240 (3) Organizational Behavior
MAR 3023 (3) Basic Marketing Concepts

**General Business Breadth Requirements for Management Information Systems Majors** (9 hours):
Each course selected must be completed with a grade of C- or better.
Complete the following course:
MAN 4720 (3) Strategic Management and Business Policy
Plus two (2) electives from the following list of courses:
FIN 3244 (3) Financial Markets, Institutions, and International Finance Systems
MAN 3600 (3) Multinational Business Operations
MAN 4720 (3) Strategic Management and Business Policy
MAR 3400 (3) Professional Selling
QMB 3200 (3) Quantitative Methods for Business Decisions
REE 3043 (3) Real Estate
RMI 3011 (3) Risk Management/Insurance

**Major Area Requirements for Management Information Systems Majors** (18 hours):
A grade of C- or better must be earned in each course.
Complete the following three (3) courses
ISM 4113 (3) Management Information Systems Analysis and Design
ISM 4212 (3) Information for Operating Control and Data Management
ISM 4220 (3) Information and Communications Systems Management
Plus three electives from the following list, including at least one (1) programming course indicated with an * below:
*CGS 3406 (3) Object-Oriented Programming in C++
*CGS 3408 (3) Introduction to Programming with the C Language
* CGS 3416 (3) Java for Non-Majors
*CGS 4404 (3) Advanced Application Development
*COP 3014 (3) Programming I
ISM 4117 (3) Decision Support and Expert Systems Management
ISM 4300 (3) Technology Management
ISM 4314 (3) Project Management
ISM 4482 (3) Project Management
* ISM 4930r (3) Special Topics in MIS
ISM 4941 (3) Field Studies in MIS

**Computer Skills Competency:** 0 hours beyond prerequisites.  CGS 2100 (3) or CGS 2518 (3).

**Oral Communication Competency:** 0 hours beyond major coursework
Students must demonstrate the ability to orally transmit ideas and information clearly.  Business majors complete GEB 3213.

**Minimum Program Requirements - Summary**
Total Hours Required 120
Liberal Studies 36*
Prerequisite Coursework 21*
Major Coursework 45
Minor Coursework 0
Computer Skills 0 beyond prerequisites
Oral Competency 0 beyond major coursework
Electives to bring total hours to 120 (must complete 60 hours outside of business)
*Some Prerequisite courses may also be counted as part of Liberal Studies.

**Remarks:**
1. Must complete at least 60 hours outside of business.
2. A minimum of 45 hours at the 3000 level or above, at least 30 of which must be taken at this University.
3. At least half of the major course semester hours must be completed in residence at this University.  After enrolling at this University, all remaining major course requirements must be completed at this University.
4. The final 30 hours must be completed in residence at this University.
Employment Information

Representative Job Titles Related to this Major: MIS Director/Specialist, Information Manager, Production Manager, Systems Analyst, EDP Director, Data Processing Supervisor, Computer Programmer/Analyst, Operations Manager, Consultant.

Representative Employers: Manufacturers, Insurance Companies, Banks, Governmental Agencies: local, state, federal, Retailers, Consulting Firms.

Updated: Summer, 2013
MARKETING
College: Business
Degree: B. S.
Limited Access: YES
Contact: College of Business Undergraduate Programs Office and Advising Center
Address: 328 Rovetta Business Building, FSU
PO Box 3061110
Tallahassee, FL 32306-1110
Phone: (850) 644-3892
E-Mail: ugprog@cob.fsu.edu
Fax: (850) 644-7332

Description of Major
Marketing is one of the three basic functions of business and involves the study of successful products, including new product development, promotion, pricing and distribution of products that satisfy the needs and wants of customers. The methods, policies, costs and problems of the producer, middle man, consumer, and industrial user are also studied. The purpose of the major in marketing is to acquaint the student with the basic character and scope of marketing and its critical role in successful businesses. Courses provide experiences in problem solving and management decision making.

In the first two years at FSU, students should take courses to complete the following four requirements: Liberal Studies (general education) requirements, Gordon Rule Writing requirement, Multicultural Course requirements, and Prerequisite Coursework requirements. Some courses may fulfill requirements in multiple areas. Electives in the first two years should focus on gaining additional exposure to the social and behavioral sciences, and on improving communication and analytical reasoning skills.

Prerequisite Coursework: 21 hours
The following courses must be completed with a C- or better:
ACG X021 (3) Introduction to Financial Accounting
ACG X071 (3) Introduction to Managerial Accounting
* CGS X518 (3) Spreadsheets for Business or CGS X100 (3) Microcomputer Apps. for Business
ECO X013 (3) Principles of Macroeconomics
ECO X023 (3) Principles of Microeconomics
MAC X233 (3) Calculus for Business & Non-Physical Sciences
STA X023 (3) Business Statistics
* Students taking CGS X100 or other approved course will also need to take CGS 2518 at FSU.
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Upper-Division Major
Admission to the limited access business programs requires the following: 1) completion of at least 52 semester hours; 2) a cumulative grade point average on all college work attempted of at least 2.90; and 3) satisfactory completion of all required prerequisite coursework.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 45-48 hours depending on if CGS 2518 was taken as a prerequisite or not.
Courses taken at a Community College may not be substituted for 3000/4000 level courses.
Non-Business Required Course (0-3 hours)
CGS 2518 (3) Spreadsheets for Business
Lower-Division Requirement (3 hours)
This course is a Term 4 milestone. Transfer students must complete it in their first term of enrollment at FSU.
RMI 2302 (3) Risk in Business and Society
General Business Core Requirements for Marketing Majors (15 hours):
A grade of C- or better must be earned in each course.
BUL 3310 (3) The Legal and Ethical Environment of Business
FIN 3403 (3) Financial Management of the Firm
GEB 3213 (3) Business Communications
MAN 3240 (3) Organizational Behavior
MAR 3023 (3) Basic Marketing Concepts

**General Business Breadth Requirements for Marketing Majors** (9 hours):
Each course selected must be completed with a grade of C- or better.

Complete the following two (2) courses:
MAN 3600 (3) Multinational Business Operations or MAR 3400 (3) Professional Selling
QMB 3200 (3) Quantitative Methods for Business Decisions

Plus one (1) elective from the following list of courses:
FIN 3244 (3) Financial Markets, Institutions, and International Finance Systems
ISM 3003 (3) Foundations of Management Information Systems
MAN 3600 (3) Multinational Business Operations
MAN 4720 (3) Strategic Management and Business Policy
MAR 3400 (3) Professional Selling
REE 3043 (3) Real Estate
RMI 3011 (3) Risk Management/Insurance

**Major Area Requirements for Marketing Majors** (18 hours):
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. Students choosing to double major in marketing and professional sales must meet major required courses separately. In other words, major courses cannot be double counted.

Complete the following three (3) courses:
MAN 3504 (3) Services Operations Management
MAR 3503 (3) Consumer Behavior
MAR 4613 (3) Marketing Research

Plus three (3) electives from the following list of courses:
* MAN 3600 (3) Multinational Business Operations
MAR 3231 (3) Retailing Management
MAR 3323 (3) Promotional Management
* MAR 3400 (3) Professional Selling
MAR 3461 (3) Principles of Purchasing
MAR 3711 (3) Sports, Recreation, and Entertainment Marketing
MAR 4156 (3) Multinational Marketing
MAR 4203 (3) Logistics and Supply Chain Management
MAR 4403 (3) Sales Management
MAR 4415 (3) Advanced Sales Techniques
MAR 4462 (3) Seminar in Purchasing/Materials Management
MAR 4614 (3) Advanced Marketing Research
MAR 4717 (3) Strategic Sports Marketing
MAR 4721 (3) Electronic Marketing
MAR 4841 (3) Services Marketing
MAR 4939r (3) Marketing Seminar
MAR 4941 (3) Marketing Internship
* Cannot satisfy both the Marketing major and the Business Breadth requirement.

**Computer Skills Competency:** 0 hours beyond prerequisites. CGS 2100 (3) or CGS 2518 (3).

**Oral Communication Competency:** 0 hours beyond other requirements
Students must demonstrate the ability to orally transmit ideas and information clearly. Business majors complete GEB 3213.

**Minimum Program Requirements - Summary**
Total Hours Required 120
Liberal Studies 36*
Prerequisite Coursework 21*
Major Coursework 45-48
Minor Coursework 0
Computer Skills 0 beyond prerequisites
Oral Competency 0 beyond other requirements
Electives to bring total hours to 120 (must complete at least 60 hours outside of business)
*Some Prerequisite courses may also be counted as part of Liberal Studies.

Remarks:
1. Must complete at least 60 hours outside of business.
2. A minimum of 45 hours at the 3000 level or above, at least 30 of which must be taken at this University.
3. At least half of the major course semester hours must be completed in residence at this University. After enrolling at this University, all remaining major course requirements must be completed at this University.
4. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Sales Representative, Purchasing Agent, Warehouse Manager, Marketing Research Analyst, Wholesaler, Brand Management, Sales Manager, Consumer & Industrial Advertising Manager, Consumer Research Analyst, Manufacturer’s Representative, Store Manager, Public Relations Manager, Inventory Control Agent, Buyer


Updated: Summer, 2013
Description of Major
The Professional Sales major is a specialized curriculum in the Marketing degree program. It is designed for students who want to start their careers in professional positions in a selling environment. Through course work, role-playing, and internships, professional sales majors are prepared for sales and sales management positions in all types of organizations and industries.

In the first two years at FSU, students should take courses to complete the following four requirements: Liberal Studies (general education) requirements, Gordon Rule Writing requirement, Multicultural Course requirements, and Prerequisite Coursework requirements. Some courses may fulfill requirements in multiple areas. Electives in the first two years should focus on gaining additional exposure to the social and behavioral sciences, and on improving communication and analytical reasoning skills.

Prerequisite Coursework: 21 hours
The following courses must be completed with a C- or better:
ACG X021 (3) Introduction to Financial Accounting
ACG X071 (3) Introduction to Managerial Accounting
* CGS X518 (3) Spreadsheets for Business or CGS X100 (3) Microcomputer Apps. for Business
ECO X013 (3) Principles of Macroeconomics
ECO X023 (3) Principles of Microeconomics
MAC X233 (3) Calculus for Business & Non-Physical Sciences
STA X023 (3) Business Statistics
* Students taking CGS X100 or other approved course will also need to take CGS 2518 at FSU.
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “College Students” section of http://FACTS.org/.

Admission Requirements to the Upper-Division Major
Admission to the limited access business programs requires the following: 1) completion of at least 52 semester hours; 2) a cumulative grade point average on all college work attempted of at least 2.90; and 3) satisfactory completion of all required prerequisite coursework.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 45-48 hours depending on if CGS 2518 was taken as a prerequisite or not.
Courses taken at a Community College may not be substituted for 3000/4000 level courses.

Non-Business Required Course (0-3 hours)
CGS 2518 (3) Spreadsheets for Business

Lower-Division Requirement (3 hours)
This course is a Term 4 milestone. Transfer students must complete it in their first term of enrollment at FSU.
RMI 2302 (3) Risk in Business and Society

General Business Core Requirements for Professional Sales majors (15 hours):
A grade of C- or better must be earned in each course.
BUL 3310 (3) The Legal and Ethical Environment of Business
FIN 3403 (3) Financial Management of the Firm
GEB 3213 (3) Business Communications
MAN 3240 (3) Organizational Behavior
MAR 3023 (3) Basic Marketing Concepts

**General Business Breadth Requirements for Professional Sales Majors** (9 hours):
Each course selected must be completed with a grade of C- or better.
Complete the following two (2) courses:
MAR 3400 (3) Professional Selling
QMB 3200 (3) Quantitative Methods for Business Decisions
Plus one (1) elective from the following list of courses:
FIN 3244 (3) Financial Markets, Institutions, and International Finance Systems
ISM 3003 (3) Foundations of Management Information Systems
MAN 3600 (3) Multinational Business Operations
MAR 4720 (3) Strategic Management and Business Policy
REE 3043 (3) Real Estate
RMI 3011 (3) Risk Management/Insurance

**Major Area Requirements for Professional Sales Majors** (18 hours):
A grade of C- or better must be earned in each course used to satisfy the Professional Sales major area requirements. No course may be used to satisfy part of the major area requirements and part of the general business breadth requirements. Students choosing to double major in marketing and professional sales must meet major required courses separately. In other words, major courses cannot be double counted.
Complete the following four (4) courses:
MAR 4403 (3) Sales Management
MAR 4415 (3) Advanced Sales Techniques
MAR 4613 (3) Marketing Research
MAR 4946 (3) Professional Sales Practicum
Plus two (2) electives from the following list of courses:
MAN 3504 (3) Service Operations Management
* MAN 3600 (3) Multinational Business Operations *
MAR 3231 (3) Retailing Management
MAR 3323 (3) Promotional Management
MAR 3503 (3) Consumer Behavior
MAR 3461 (3) Principles of Purchasing
MAR 3711 (3) Sports, Recreation, and Entertainment Marketing
MAR 4156 (3) Multinational Marketing
MAR 4203 (3) Logistics and Supply Chain Management
MAR 4462 (3) Seminar in Purchasing/Materials Management
MAR 4614 (3) Advanced Marketing Research
MAR 4717 (3) Strategic Sports Marketing
MAR 4721 (3) Electronic Marketing
MAR 4841 (3) Services Marketing
MAR 4939r (3) Marketing Seminar
MAR 4941 (3) Marketing Internship
* Course may not be used to satisfy both the Professional Sales major and the Business Breadth requirement.

**Computer Skills Competency:** 0 hours beyond prerequisites. CGS 2100 (3) and CGS 2518 (3).

**Oral Communication Competency:** 0 hours beyond other requirements
Students must demonstrate the ability to orally transmit ideas and information clearly. Business majors complete GEB 3213.

**Minimum Program Requirements - Summary**
Total Hours Required 120
Liberal Studies 36*
Prerequisite Coursework 21*
Major Coursework 45-48
Minor Coursework 0
Computer Skills 0 beyond prerequisites
Oral Competency 0 beyond other requirements
Electives to bring total hours to 120 (must complete at least 60 hours outside of business)
*Some Prerequisite courses may also be counted as part of Liberal Studies.

Remarks:
1. Must complete at least 60 hours outside of business.
2. A minimum of 45 hours at the 3000 level or above, at least 30 of which must be taken at this University.
3. At least half of the major course semester hours must be completed in residence at this University. After enrolling at this University, all remaining major course requirements must be completed at this University.
4. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Sales Representative, Sales Manager

Representative Employers: Consumer Products Companies, Manufacturers, Food Distributors, Technology Suppliers, Industrial Marketers, Banks, Brokerage Firms, Insurance Companies.

Updated: Summer, 2013
MATHMATICS  
(Mathematics, Applied Mathematics, Biomathematics)  
College: Arts and Sciences  
Degree: B. A. or B. S.  
Limited Access: NO  
Contact: Dr. Steve Bellenot, Mr. Josh Bowen  
Address: 208 Love Building, FSU 
1017 Academic Way  
Tallahassee, FL 32306-4510  
Phone: (850) 644-2202  
E-Mail: bellenot@math.fsu.edu; advisor@math.fsu.edu  

Description of Major  
Mathematics is a vital foundation for science, social science and technology. A student in mathematics can look forward professionally to employment in an industrial or financial firm, a governmental agency, or teaching in secondary, college or university institutions. Alternatively, a degree in the department 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. Biomathematics is designed to prepare the student for admission to medical school.  

Prerequisite Coursework: 23 hours  
Students should complete the following prerequisites if possible during the first two years.  
*COP XXXX (3) A scientific programming course designed for computer science majors (COP X014 preferred)  
MAC X311 (4) Calculus with Analytic Geometry I  
MAC X312 (4) Calculus with Analytic Geometry II  
MAC X313 (4) Calculus with Analytic Geometry III (5 credits @ FSU)  
MAP X302 (4) Ordinary Differential Equations (3 credits @ FSU)  
*XXX XXXX (4) One laboratory based science courses designed for science majors, prefix BSC, CHM, PHY, or GLY  
(PHY X048C or X048 & X048L suggested as it is required for the major)  
*See major requirements before selecting courses to meet these prerequisites.  
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.  

Requirements for graduation in the College of Arts and Sciences include:  
The College of Arts requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.  

Mapping  
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.  

Requirement for Progression to and Continuation in the Upper-Division Major  
A grade of C– or better is required in all courses to be counted toward this degree. A student who has accumulated more than one grade below C– (including grades of U) in the calculus sequence MAC2311, MAC2312, MAC2313 at Florida State University or elsewhere, whether repeated or not, will not be permitted to continue as a major in the department. A student who has accumulated more than five grades below C- (including grades of U) in any mathematics or collateral course required for the degree taken for college credit at Florida State University or elsewhere, whether repeated or not, will not be permitted to continue as a major in the department. The collateral courses include COP3014 or ISC3313, PHY2048C, STA4321 for all options. For Biomath, it concludes the collateral Biology, Chemistry and Physics courses.  

Major Program of Studies at FSU: 30 to 48 hours beyond prerequisites.  
Courses at the 4000 level applied toward the degree must be taken at FSU unless specifically exempted by the Chair on written request. A C- or higher is required in all courses taken for the major.  

The following courses are required of all mathematics majors: 7-10 hours.  
MAS 3105 (4) Applied Linear Algebra
STA 4321 (3) Introduction to Mathematical Statistics
COP 3014 (3) Programming I or ISC 3313 (3) Introduction to Scientific Computing. (Either will satisfy the computer skills competency requirement. COP 3014 may also be used to satisfy one of the prerequisite requirements).

Mathematics majors must complete one of the following options: 23 to 38 hours
A. Mathematics: 23 hours
   All of the following (11 hours)
   MAS 4302 (3) Introduction to Abstract Algebra I
   MAA 4224 (3) Introduction to Analysis or MAA 4226 (3) Advanced Calculus I
   PHY 2048C (5) General Physics with Laboratory or an approved calculus based natural or social science course. This may also apply as prerequisite science.
   Four additional courses (12 hours)
   These are to be selected from a list of approved courses. At least two must be at the 4000 level and least one of the following sequences, or an approved substitution, must be completed: MAA 4226-4227 or MAD 3703-4704 or MAP 4341-4342 or MAS 4302-4303 or MTG 4302 and MAA 4402. Contact the department for a list of approved courses or consult the University Bulletin.

B. Applied Mathematics: 23 hours
   All of the following (14 hours)
   MAD 3703 (3) Numerical Analysis I
   MAP 4103 (3) Mathematical Modeling
   MAP 4341 (3) Elementary Partial Differential Equations I
   PHY 2048C (5) General Physics A with Laboratory. PHY 2049C (5) Gen. Physics B with Lab. is highly recommended. (These may also apply to prerequisite science courses.)
   Three additional courses (9 hours)
   These are to be selected from a list of approved courses. Contact the department for the list of approved courses or consult the University Bulletin.

B. Biomathematics: 37-38 hours
   Required mathematics courses (4 hours)
   MAP 2480 (1) Biocalculus Lab
   MAP 4481 (3) Math modeling in Biology
   All of the following collateral courses (18-19 hours)
   BSC 2010 and 2010L (3, 1) Biological Science I and Lab
   BSC 2011 (3) Biological Science II
   CHM 1045C (4) General Chemistry I and Lab
   PHY 2048C (5) General Physics A with lab or PHY 2053C (4) College Physics A with lab (also applies to prerequisite science)
   PCB 3063 (3) General Genetics or BSC 4933 (4) Bioinformatics
   Additional coursework (15 hours)
   Math/bio/chem. electives selected from an approved list, including at least 6 hours of mathematics from two different areas at the 4000 level.

Minor Coursework: (Mathematics and Applied Mathematics Options):
12 hours in an approved minor department or 15 hours in an approved interdepartmental minor beyond Liberal Studies and the language requirement. Consult the department regarding acceptable minors. A minor is not required for Biomedical Mathematics.

Computer Skills Competency: 0-3 hours. COP 3014 (3) Programming I (should be taken as part of prerequisites) or ISC 3313 (3) Introduction to Scientific Computing.

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36*
Prerequisite Coursework 24*
Major Coursework 30 to 48 beyond prerequisites
Minor Coursework 12-15 for Mathematics and Applied Mathematics; Biomedical Mathematics does not require a minor.
Computer Skills 0 beyond prerequisites
Oral Competency 0-3
Foreign Language 0-12 (depending on placement)
Electives to bring total hours to 120
*NOTE: Prerequisite courses may be used to fulfill the mathematics and science requirements for Liberal Studies.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. Students who plan to earn the B. A. degree must complete both a foreign language through the intermediate (2200 or equivalent) level and nine additional hours in the fields of history and humanities.

Employment Information
Representative Job Titles Related to this Major: Mathematician; teacher: high school, college, university; statistician, econometrist; operations research analyst; systems analyst; technical writer.

Representative Employers: Engineering and financial firms, high schools, governmental agencies, colleges and universities, research/development firms.

Updated: Summer, 2013
Description of Major

FSU-Teach is an innovative approach to teacher education that involves collaboration between scientists, mathematicians and education faculty at Florida State University. In FSU-Teach: Mathematics, students will develop deep mathematics knowledge and the knowledge, skill, and experience needed to be an effective math teacher. The program will pay for tuition for the first two Education/Teaching courses. Work study positions with scientists, mathematicians and local schools are available. For more information, see our Web site, http://fsu-teach.fsu.edu/.

This is a double-major only program. FSU-Teach majors are first admitted into their primary, discipline-specific major and must meet the state-wide common program prerequisites for that major, in this case Mathematics. Later, students apply for admission into a secondary major within the College of Education called Mathematics Teaching/FSU Teach. Upon graduation, students are awarded the B.S. degree with majors in Mathematics and Mathematics Teaching.

Prerequisite Coursework: 0 hours beyond other requirements.

All of the following credits may also be used to meet either general education or major requirements.

* COP XXXX (3) A scientific programming course designed for computer science majors
MAC X311 (4) Calculus with Analytic Geometry I
MAC X312 (4) Calculus with Analytic Geometry II
MAC X313 (4) Calculus with Analytic Geometry III (5 credits @ FSU)
MAP X302 (4) Ordinary Differential Equations (3 credits @ FSU)
*XXX XXXX (4-5) One laboratory based science courses designed for science majors, prefix BSC, CHM, PHY, or GLY

(PHY X048C or X048 & X048L suggested as it is required for the major)
SMT X043 (1) Step 1: Inquiry Approaches to Teaching
SMT X053 (1) Step 2: Inquiry-Based Lesson Design

*See major requirements before selecting courses to meet these prerequisites.

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:

The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Progress in this major and formal admission to FSU-Teach and Teacher Education.

FSU native and transfer students will progress to upper-division (junior) status in the College of Arts and Sciences in the same manner as other mathematics majors: an AA degree; or 52 earned credits (including at least half of the general education requirement, to include English composition and mathematics), at least a 2.5 GPA and completion of appropriate milestones. To be recognized as “formally admitted” into this major, students must meet the following requirements: 1) certification to upper division (or transfer admission into Mathematics as a junior); 2) completion of Liberal Studies or an AA; 3) satisfactory completion of “Step 1” and “Step 2” courses; 4) a cumulative GPA of at least a 2.5; 5) completion of all of the common prerequisite courses for the Mathematics major; and 6) a passing score on all four parts of the FTCE General Knowledge Test. Once these are complete, the student must complete an “Undergraduate Application to Teacher Education” in 2301 Stone Building, at which time the second major in Education will be added.
Continuation requirements.
A grade of C– or better is required in all courses to be counted toward this degree. A student who has accumulated more than one grade below a C– (including grades of U) in the calculus sequence MAC2311, MAC2312, MAC2313 at Florida State University or elsewhere, whether repeated or not, will not be permitted to continue as a major in the department. A student who has accumulated more than five grades below C– (including grades of U) in any mathematics or collateral course required for the degree taken for college credit at Florida State University or elsewhere, whether repeated or not, will not be permitted to continue as a major in the department. The collateral courses include COP3014 or ISC3313, PHY2048C, STA4321 and includes the collateral coursework with prefixes BSC, HIS, MAT, RED, SMT or TSL.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 81 to 82 hours.
Required courses for the Mathematics Major: 44-45 hours

Core requirements (28 hours)
MAC 2311 (4) Calculus with Analytical Geometry I
MAC 2312 (4) Calculus with Analytical Geometry II
MAC 2313 (5) Calculus with Analytical Geometry III
MAP 2302 (3) Ordinary Differential Equations
MAS 3105 (4) Applied Linear Algebra I
STA 4321 (3) Introduction to Mathematical Statistics
PHY 2088C (5) General Physics A with Lab
One of the following (3 hours)
COP 3014 (3) Programming I
ISC 3313 (3) Introduction to Scientific Computing
Choose at least one course from each group (12-13 hours)
Algebra
MAS 3301 (3) Introduction to Modern Algebra
MAS 4302 (3) Introduction to Abstract Algebra
MAS 4203 (3) Theory of Numbers
Analysis
MAA 4402 (3) Complex Variables
MAA 4224 (3) Introduction to Analysis or MAA 4226 (3) Advanced Calculus I
Geometry
MTG 4212 (3) College Geometry
Modeling
MAP 4103 (3) Mathematical Modeling (S/U grade only)
MAP 4176 (4) Actuarial Models
MAP 4180 (3) Game Theory and Applications
MAP 4481 (3) Mathematical Modeling in Biology
At least two electives from the following (6 hours)
At least one elective must be at the 3000-level or higher
MAA 4227 (3) Advanced Calculus II
MAD 2104 (3) Discrete Mathematics I
MAD 3105 (3) Discrete Mathematics II
MAP 4153 (3) Vector Calculus with Intr. to Tensors
MAP 4170 (3) Introduction to Actuarial Science
MAP 4202 (3) Optimization
MAP 4216 (3) Calculus of Variations
MAP 4341 (3) Elementary Partial Differential Equations I
MAS 4106 (3) Applied Linear Algebra II
MGF 3301 (3) Introduction to Advanced Mathematics
MHF 4302 (3) Mathematical Logic
MTG 4302 (3) Elementary Topology I
Or an additional course from the Algebra, Analysis, or Modeling groups.

**Required courses for the Education major:** 32 hours
SMT 1043 (1) Step 1: Inquiry Approaches to Teaching
SMT 1053 (1) Step 2: Inquiry-Based Lesson Design
SMT 3100 (3) Knowing and Learning
SMT 4664 (3) Project Based Instruction
SMT 4945 (6) Apprentice Teaching
SMT 4301 (3) Classroom Interactions
HIS 3505 (3) Perspectives on Science and Mathematics
ISC 3523C (3) Research Methods
MAT 3503 (3) Functions and Modeling
RED 4335 (3) Content Area Reading for Secondary School Teachers
TSL 4324 (3) ESOL Instruction in the Content Area

**Computer Skills Competency:** 0 hours beyond other requirements. COP 3014 (3) Programming I or ISC 3313 (3) Introduction to Scientific Computing.

**Oral Communication Competency:** 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. SMT 4664 will satisfy this requirement.

**Minimum Program Requirements -Summary**
Total Hrs. Required 120
Liberal Studies 36*
Prerequisite Coursework 0 beyond other requirements*
Major Coursework 81-82
Foreign Language 0-12 (depending on placement)
Computer Skills 0 beyond prerequisites/majo4
Oral Competency 0-3
Electives to bring total hours to 120
*The 22 hours of prerequisite coursework may also be used to satisfy general education and major requirements.

**Remarks:**
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. Students who plan to earn the B. A. degree must complete both a foreign language through the intermediate (2200 or equivalent) level and nine additional hours in the fields of history and humanities.

**Employment Information**
**Representative Job Titles Related to this Major:** Middle school or high school teacher of mathematics, mathematician, research analyst.

**Representative Employers:** Public and private schools, research and engineering firms, government agency.

Updated: Summer, 2013
Description of Major
Meteorology is divided into four branches: physical, dynamical, synoptic, and applied meteorology. Physical meteorologists deal with such areas as the physics of rain formation, atmospheric electricity, and atmospheric optics; dynamical meteorologists work in such areas as the mathematical representation of atmospheric flow patterns and the numerical prediction of these patterns; synoptic meteorologists are involved with the description of atmospheric disturbances and with weather forecasting; and applied meteorologists deal with the application of meteorological and climatological knowledge to such areas as agriculture, architecture, ecology, and air pollution. The undergraduate program provides a broad overview of these branches of meteorology plus climatology, while graduate students are encouraged to specialize in one of them. Meteorologists are needed in research, forecasting, and operational positions to study, interpret and predict weather and climate processes and patterns and to relate these to human activities. Severe storms, floods, droughts and air pollution are examples of atmospheric phenomena, which influence health, safety, transportation, agriculture, and business activities.

Prerequisite Coursework:
All of the prerequisites are also part of the required collateral coursework.
MAC X311 (4) Calculus w/Analytic Geometry I
MAC X312 (4) Calculus w/Analytic Geometry II
CHM X045, X045L (3,1) General Chemistry I, Lab
PHY X048C (4-5) General Physics A or PHY X048/X048L (5 credits @ FSU)
PHY X049C (4-5) General Physics B or PHY X049/X049L (5 credits @ FSU)
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

To prevent a delay in graduation, students should also complete the following during their freshman/sophomore years:
MAC X313 (5) Calculus w/Analytic Geometry III
And either MAP 2302 (3) Ordinary Differential Equations or MAP 3305 (3) Engineering Mathematics

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Requirements for Progression to the Upper-Division Major
Students interested in majoring in Meteorology should declare it as their major upon admission to the University and work with the departmental advisor to assure appropriate course selection. To be certified into the upper-division of this major (move into the College of Arts and Sciences), students must either have an AA degree from a Florida college or complete at least 52 hours of credit with an adjusted GPA of 2.0 on FSU coursework to include at least half of the required hours in Liberal Studies including the freshman English Composition and mathematics requirements. Meteorology students beginning their college coursework at FSU should complete the English Composition, mathematics, and science portions of Liberal Studies during their freshman and sophomore years; the balance of the Liberal Studies requirements should be completed prior to graduation.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.
Major Program of Studies at FSU: 68 hours

Students must earn a minimum GPA of 2.0 in all Meteorology courses numbered 2000 or higher. All 2000 and 3000 level meteorology courses must be completed with a grade of C (2.0) or better to continue to the 4000 level major coursework. All other required mathematics, chemistry, physics, statistics, and meteorology courses must be passed with a grade of C- or better. If not, the course must be retaken until a C- or better is earned. A student who has received more than five unsatisfactory grades (U, F, D-, D, D+) in courses required for the major (chemistry, physics, mathematics, statistics, or meteorology) at FSU or elsewhere, whether repeated or not, will not be permitted to graduate with a degree in Meteorology.

Major Coursework (35 hours):
- MET 2700 (3) General Meteorology
- MET 2101 (3) Physical Climatology
- MET 3220C (3) Meteorological Computations
- MET 3300 (3) Introduction to Atmospheric Dynamics
- MET 2507C (2) Weather Analysis and Forecasting
- MET 4301 (4) Atmospheric Dynamics I
- MET 4302 (4) Atmospheric Dynamics II
- MET 4420 (3) Atmospheric Physics I
- MET 4450 (3) Atmospheric Physics II
- MET 4500C (3) Synoptic Lecture/Lab I
- MET 4501C (4) Synoptic Lecture/Lab II

Collateral Coursework (33 hours):
- CHM 1045, 1045L (3,1) General Chemistry I
- PHY 2048C (5) General Physics A
- PHY 2049C (5) General Physics B
- MAC 2311 (4) Calculus w/Analytic Geometry I
- MAC 2312 (4) Calculus w/Analytic Geometry II
- MAC 2313 (5) Calculus w/Analytic Geometry III
- MAP 2302 (3) Ordinary Differential Equations or MAP 3305 (3) Engineering Math I
- STA 3032 (3) Applied Statistics for Engineers and Scientists

Computer Skills Competency: 0 beyond major. MET 3220C (3).

Oral Communication Competency: 0-3 hours

Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course, such as MET 3940 (1) Weathercasting.

Minimum Program Requirements - Summary
- Total Hrs. Required 120
- Liberal Studies 36*
- Major and Collateral Coursework 68*
- Minor Coursework 0*
- Foreign Language 0-12 (depending on placement)
- Computer Skills 0 beyond major
- Oral Competency 0-3
- Electives to bring total hours to 120

*NOTE: MAC 1105 (3), 1114 (2), and 1140 (3) are prerequisite courses to required major and collateral courses and may be used to partially satisfy the requirements of Liberal Studies. Students may also use required science and math coursework to meet Liberal Studies requirements in those areas. The required minor is satisfied with collateral coursework in Mathematics.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. Students who plan to earn the B. A. degree must complete both a foreign language through the intermediate (2200 or equivalent) level and nine additional hours in the fields of history and humanities.
Employment Information

Representative Job Titles Related to this Major: Synoptic Meteorologist, Weather Forecaster, Dynamical Meteorologist, Air Pollution Meteorologist, Physical Meteorologist, Broadcast Meteorologist, Climatologist, Industrial Meteorologist, Meteorological Technician, Assistant Oceanographers, Science Teacher.


Updated: Summer, 2013
MIDDLE EASTERN STUDIES
College: Arts and Sciences
Degree: B.A.
Limited Access: No
Contact: Dr. Peter Garretson (History)
Address: 442 Bellamy
Tallahassee, FL 32306-2200
Phone: 644-9516
E-Mail: pgarretson@fsu.edu

Description of Major
The participating departments (Art History, Classics, Economics, English, Geography, History, Humanities, Modern Languages, Music, Political Science, Religion and Urban and Regional Planning) offer an interdisciplinary undergraduate program in Middle Eastern Studies designated for: (1) general liberal arts students who wish to learn more about the Middle East; (2) students who wish to pursue graduate work in this field; and (3) students who seek employment in or relating to the Middle East. The major is administered by Florida State University’s Middle East Center. A BA degree in Middle Eastern Studies responds directly to a national as well as a regional demand for resources and information to educate students, professionals, and the surrounding community about this important region of the world. A grade of C- or better is required in all major courses for Middle Eastern Studies.

Prerequisite Coursework: None.
There is no prerequisite coursework, but students are encouraged to take lower-level introductory courses in some of the related disciplines. Such courses serve as background for the major and may meet prerequisites for more advanced courses in the major. Students are encouraged to begin the study of Arabic or Hebrew early, and to take any culture and history courses that relate to the Middle East.

Requirements for Progression to the Upper-Division Major:
Students must complete at least 52 hours of credit with a minimum grade point average of 2.0, at least half the required Liberal Studies hours, including English composition and mathematics, or an A.A. Degree. Students are encouraged to take ASH 1044 (3) Middle Eastern Civilization to meet the history requirement in Liberal Studies.

Major Program of Studies at FSU: 39 hours in major + 15 hours in Arabic or Hebrew.
Students majoring in the program are to construct their study program in consultation with an advisor. A total of 54 hours beyond Liberal Studies is required. A list of approved courses is available at http://www.fsu.edu/~mec/mescourses.html or from the advisors.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Foreign language requirement: 15 hours
Fifteen hours of coursework is required in a relevant area language (Arabic, Hebrew, Turkish or any other Middle East language that might be offered on campus in the future). The 15 hours must come from one 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 coursework on the FSU campus or by participating in a semester or summer abroad program in their relevant
cultural area as such programs are available. To encourage the achievement of language proficiency, language coursework
hours taken beyond the 15 hour foreign language requirement may be counted towards the required 36 hours for the major.

**Computer Skills Competency:** 3 hours. CGS 2060 (3), CGS 2100(3), or EME 2040 (3).

**Oral Communication Competency:** 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through
appropriate high school speech training or with an approved college-level course.

**Minimum Program Requirements - Summary**
Total Hrs. Required 120
Liberal Studies 36
Major Coursework 39
Foreign Language 15
Computer Skills 3
Oral Competency 0-3
Electives to bring total hours to 120
* Middle Eastern Studies majors are encouraged to begin their language study no later than their sophomore year and are
couraged to start the learning process as early as their freshman year.

**Remarks:**
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. Students who plan to earn the B. A. degree must complete both a foreign language through the intermediate (2200 or
equivalent) level and nine additional hours in the fields of history and humanities.

**Employment Information:**
An increasing number of jobs are available throughout Florida and nationally for those with expertise in the Middle East and its
languages.

**Representative Job Titles Related to this Major:** Foreign Service Officer, teacher, linguist, translator, and government employee.

**Representative Employers:** U. S. Government (including the State Department, Defense Department, Defense Intelligence
Agency, Central Intelligence Agency, National Security Agency, International Communications Agency and Homeland
Security), Federal Bureau of Investigation, State Government, Multinational Corporations, Educational Institutions, U.S.
Military and Non-profit Organizations.

Updated: Summer, 2013
MODERN LANGUAGES
(Chinese, French, German, Italian, Japanese, Russian, Spanish;
Co-Majors: Modern Languages & Linguistics; Chinese & Japanese; Language with a Concentration in Business)
College: Arts and Sciences
Degree: B. A.
Limited Access: NO
Contact: Dr. William Cloonan: Ms. Ashlee Shafer
Address: 364 Diffenbaugh Building, FSU
Tallahassee, FL 32306-1020
Phone: (850) 644-3728; (850) 644-2606
E-Mail: bcloonan@fsu.edu; apoppell@fsu.edu

Description of Major
Majors in Chinese, French, French and Francophone Studies, German, Italian, Japanese, Russian, and Spanish introduce the student to the language, literature and culture of the subject area. A second language may be elected to fulfill the departmental minor requirements. Other languages offered within the department include, Arabic, Hebrew, and Portuguese. Linguistics courses are also available. Students may also choose a concentration in Business. These options are designed to provide more flexibility and increase employment opportunities. FSU’s computer labs and language laboratories provide state-of-the art electronic language learning systems, hi-tech, yet extremely user friendly. The free computer and audio-visual labs offer extensive hours of operation for at-your-convenience individual study.

Prerequisite Coursework:
Students must complete the following prerequisites required for the bachelor’s degree.
Chinese, French, German, Italian, Japanese, Russian, Spanish:
XXX XXXX (6-12). Must demonstrate proficiency in the major language by testing or course completion at the intermediate level.
At FSU the intermediate level is X220 or X211.

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Requirements for Progression to the Upper-Division Major
Students must complete at least 52 hours of credit with a minimum grade point average of 2.0, at least half the required Liberal Studies hours, including English composition and mathematics, or an A.A. Degree.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for these majors at www.academic-guide.fsu.edu/

Major Programs of Studies at FSU: 30-36 hours
Major in one foreign language (30-36 hours)
The program requirements in the chosen language will include 30-36 hours of coursework at the 3000 level or higher (Spanish 2240 or higher). Requirements may include coursework in literature, grammar, composition, and language skills. A grade of C- or higher must be earned in each course applied toward any major or minor in Modern Languages. This option requires a minimum of 12-15 hours in an approved minor area. Coursework taken to satisfy the Arts and Sciences foreign language requirement may not be applied toward the major or minor. See advisor and http://www.fsu.edu/~modlang/ for details.
Chinese—30 hours
French—30 hours
German—30 hours
Italian—30 hours
Japanese—30 hours
Russian—30 hours
Spanish—36 hours (2240 and higher)

Co-major Programs: 41 to 48 hours. None of the following require a minor.

Co-major in Modern Languages and Linguistics (42 hours)
The department offers French, German, Italian, Russian, and Spanish in combination with each other. Co-majors require 21 hours in each discipline numbered above 1999. No minor is required. One second year language course must be used to satisfy the College of Arts and Sciences language requirement and cannot be applied to the co-major.

Co-major in Chinese and Japanese (41 hours)
A co-major is offered in Chinese and Japanese, requiring 16 hours of both Chinese and Japanese language above the 2220-level, and 9 hours in Chinese and/or Japanese literature and culture. Of the combined 32 hours of Chinese and Japanese language courses, at least 3 hours must be taken at the 4000-level in one language and 6 hours taken at the 4000-level in the other.

Language with a Concentration in Business (48 hours)
The Concentration in Business requires a minimum of 21 hours of language above the 2220 level in French, German, Italian, Russian, or Spanish; 18 hours of language above the 2220 level are required in Chinese or Japanese. The student must also complete 27 hours in designated business courses. No minor is required.

Minor:
Chinese, French, German, Italian, Japanese, Russian, and Spanish majors are required to complete 12-15 hours in an approved minor (more if required by minor department). Grades of C- or higher required.

Co-majors in Modern Language and Linguistics and Chinese/Japanese, and Language with a Concentration in Business majors are not required to complete a minor.

Computer Skills Competency: 3 hours. CGS 2060 (3), CGS 2100 (3), or ISC 3313 (3).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36
Major Coursework 30-36 (if co-major, 42 to 48)  
Minor Coursework 12-15 (0 if co-major)
Arts and Science Foreign Language requirement 0-12, depending on placement
Computer Skills 3
Oral Competency 0-3
Electives to bring total hours to 120

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. Students who plan to earn the B. A. degree must complete both a foreign language through the intermediate (2200 or equivalent) level and nine additional hours in the fields of history and humanities.

Employment Information
Representative Job Titles Related to this Major: Teacher in high school or junior college, College Professor, Translator, Intelligence Specialist, Diplomat, Travel Agent, Interpreter, International Flight Attendant, Foreign Travel Escort Officer, International Relations Specialist, Linguist, Customs Official, Business Representative.


Updated: Summer 2013
Description of Major
The program of study leading to a bachelor of fine arts degree (BFA) in Animation and Digital Arts combines schooling in digital motion picture production 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 digital motion picture production by making short films, culminating with a senior thesis film. Curriculum is centered on digital motion picture production, with an emphasis on story development, filmmaking, visual effects, and computer animation. The goal of the program is to produce educated, literate, creative digital filmmakers; the focus of the program is on storytelling and how to utilize animation and digital arts to convey a story. The BFA program will provide the curricular leadership in developing student's expertise in the art and craft of digital motion picture storytelling, as well as offer training in the specialized technical skills needed to operate industry-standard computer animation and visual effects platforms. Students entering as freshmen will spend the first year working on general education requirements and then are immersed, sophomore through senior years, in Animation and Digital Arts courses. Transfer students will enter the program as sophomores and complete their degree in eight semesters, which include two summers.

Prerequisite Coursework: None
There are no common prerequisites to the FSU program in Animation and Digital Arts.

Admission Requirements to Major:
The Animation and Digital Arts program in the College of Motion Picture Arts is a limited access program. Admission is highly selective. Separate applications must be made to The Florida State University Office of Admissions and to The College of Motion Picture Arts. All program applicants must apply to FSU by the fall early admission deadline. An applicant seeking to enter the College of Motion Picture Arts must meet the grade point average and test score requirements described by the University’s Office of Admissions, see http://admissions.fsu.edu/. The Motion Picture Arts application package consists of the following items: the on-line application, résumé, three letters of recommendation on letterhead, copies of high school and college transcripts, and a statement of purpose (a 500 to 1,000 word essay describing your background, artistic experiences, creative influences, personal objectives, and future career goals). You may find more information and the online application at http://film.fsu.edu/Apply-to-FSU-Film/BFA-in-Animation-Digital-Arts. The College of Motion Picture Arts accepts on-line applications from August 1 through the same October early admission deadline set by the University’s Office of Admissions; transfer applications are accepted until the October early admissions deadline for freshmen. The College of Motion Picture Arts accepts all students into the program beginning in the fall semester. Students must maintain a “B” average in all major requirements. Continuation in the major will depend on the development of each student’s talents, skills, professional discipline and academic record. A student’s work and commitment are under continuous review, and any candidate who fails to maintain high standards will be dismissed from the program. Also, students must pass FIL 3963 (BFA Qualifying Exam) in their first year; this exam consists of faculty review of students’ professionalism in class and on set.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each fall and spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 87 hours
This information is subject to change; contact department.
Program Core Requirements – 69 hours:
FIL2110 - Story I (3)
FIL2423 - Filmmaking I (3)
FIL2552 - Editing (3)
FIL2710 - Visualization I (3)
FIL2533 - Motion Picture Sound (3)
FIL2090 - Professional Communication (1)
FIL2xxx - Designing Story Worlds (3)
FIL2xxx - Intro to 3D Computer Graphics (3)
FIL2xxx - Intro to Node Based Compositing (3)
FIL3132 - Story II (3)
FIL3433 - Filmmaking II (3)
FIL3711 - Visualization II (3)
FIL3516 - Camera & Lighting (3)
FIL3803 - Contemporary Cinema: Theory & Practice (3)
FIL3932 - Special Topics: Introduction to Computer Graphics (3)
FIL3963 - BFA Qualifying Exam (0)
FIL4135 - Story III (3)
FIL4434r - Filmmaking III (3, 1)
FIL4613 - Motion Picture Marketing & Distribution (3)
FIL4872 - Motion Picture Aesthetics (3)
FIL4972 - Thesis Production Management (3)
FIL4973r - Thesis Production (1, 4, 5)
Choice between the following – 3 hours:
FIL4945 - Professional Internship (3)
FIL4973r - Thesis Production (3)
Additional Course Requirements — 15 hours:
Completion of the program should be planned with an academic advisor, with regard to the student’s background and goals.

Computer Skills Competency: 0 hours beyond major. FIL 4972 (3) Thesis Production Management

Oral Communication Competency: 0 hours beyond major. FIL 2090 (1) Professional Communication.

Minimum Program Requirements - Summary
Total Hours Required 120
Liberal Studies 36
Major Coursework 87
Minor Coursework 0
Computer Skills 0 beyond major
Oral Competency 0-3
Other Required Coursework 0
Electives to bring total number of credit hours to 120

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
5. Students must complete a minimum of 30 credit hours of Liberal Studies (general education) before beginning major coursework.

Employment Information
Representative Job Titles Related to this Major: producer, director, writer, animator, visual effects artist, and all jobs leading to these positions (e.g. production manager).

Updated: Summer, 2013
MOTION PICTURE ARTS: PRODUCTION

College: Motion Picture Arts
Degree: Bachelor of Fine Arts
Limited Access: YES
Contact: Emily Burgess
Address: A3100 University Center, FSU
Tallahassee, FL 32306-2350
Phone: (850) 644-4927 or toll free (888) 644-7728
E-Mail: eburgess@film.fsu.edu
Website: film.fsu.edu

Description of Major
The program of study leading to a bachelor of fine arts degree (BFA) in production combines schooling in filmmaking with a 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 films, culminating with a senior thesis film. The College of Motion Picture Arts funds virtually all production expenses, including those of the thesis films. 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. The major courses include producing, directing, screenwriting, editing, camera and lighting, sound, production management, film history, film theory and film aesthetics. Students entering the program as freshmen will complete their degree in nine or ten semesters, including two summers. Transfer students will complete their degree in seven or eight semesters, which include two summers.

Prerequisite Coursework: None
There are no common prerequisites to the FSU program.
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to Major
The Motion Picture Arts: Production major is a limited access program. Admission is highly selective. Each class comprises no more than 30 students. Separate applications must be made to The Florida State University Office of Admissions and to The College of Motion Picture Arts. All Motion Picture Arts applicants must apply to FSU by the fall early admission deadline. An applicant seeking to enter the Motion Picture Arts must meet the grade point average and test score requirements described by the University’s Office of Admissions, http://film.fsu.edu/Apply-to-FSU-Film/BFA-in-Production. The College of Motion Picture Arts application package consists of the following items: the on-line application, résumé, three letters of recommendation on letterhead, copies of high school and college transcripts, and a statement of purpose (a 500 to 1,000 word essay describing your background, artistic experiences, creative influences, personal objectives, and future career goals). The College accepts on-line applications from August 1 through the same October early admission deadline set by the University’s Office of Admissions. All students are accepted into the program beginning in the fall semester only. Once admitted into the Production Major, students must maintain a “B” average in all major requirements. Continuation as a major will depend on the development of each student’s talents, skills, professional discipline and academic record, including a cumulative GPA of 3.0 or above. 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.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 70 hours
70 hours selected from the following in consultation with the advisor. This information is subject to change; contact department.
FIL 2110 (3) Screenwriting I
FIL 2423 (3) Filmmaking I
FIL 2533 (3) Film Sound
FIL 2552 (3) Film Editing
FIL 3132 (3) Screenwriting II
FIL 3363r (1-6) Documentary Filmmaking
FIL 3433 (3) Filmmaking II
FIL 3516 (3) Film Camera and Lighting
FIL 3833r (3-6) Film Styles
FIL 3922r (1) Film Genres and Film Making
FIL 3932r (3-12) Special Topics
FIL 3963 (0) BFA Qualifying Exam
FIL 3971r (2-12) Thesis Film Support
FIL 4135 (3) Screenwriting III
FIL 4160 (3) Feature Screenwriting
FIL 4164 (3) Feature Screenwriting Development
FIL 4434r (3-9) Advanced Filmmaking
FIL 4474 (3) Advanced Cinematography
FIL 4539 (3) Advanced Sound
FIL 4567 (3) Advanced Editing
FIL 4602 (3) Film Business Planning
FIL 4613 (3) Film Exhibition and Advertising
FIL 4653 (3) Film Law
FIL 4654 (3) Film Producing and Finance
FIL 4872 (3) Film Aesthetics
FIL 4905r (1-3) Directed Individual Study
FIL 4910r (1-3) Application of Research and Creative Methods
FIL 4923r (1-6) Film Seminar
FIL 4933 (3) Professional Development
FIL 4940r (1-3) Application of Instruction Methods
FIL 4945r (3-12) Professional Internship
FIL 4970r (0) Thesis Defense
FIL 4972r (3-6) Thesis Film Production Management
FIL 4973r (1-15) Thesis Film
FIL 4975 (1-6) Undergraduate Honors Thesis
FIL 4976 (3) Thesis Script Rewrite

**Computer Skills Competency:** 0 hours beyond major: FIL 4972r Production Management.

**Oral Communication Competency:** 0-3 hours.
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

**Minimum Program Requirements - Summary**
Total Hrs. Required 120
Liberal Studies 36
Major Coursework 70
Minor Coursework 0
Computer Skills 0 beyond major
Oral Competency 0-3
Other Required Coursework 0
Electives to bring total number of credit hours to 120

**Remarks:**
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

**Employment Information**
Representative Job Titles Related to this Major: producer, director, writer, cinematographer, editor, sound designer and all jobs leading to these positions (e.g. production manager).

Updated: Summer, 2013
MUSIC
B. A. PROGRAM (General, Sacred, Commercial, Jazz)

College: Music
Degree: B. A.
Limited Access: YES
Contact: Dr. Ted Stanley
Address: 204D Housewright Music Building, FSU
Tallahassee, FL 32306-1180
Phone: (850) 644-4833
E-Mail: tstanley@fsu.edu

Description of Major
Course requirements for this degree program are quite flexible with room for optional major emphases such as jazz studies, sacred music, or commercial music. Graduates of this program receive the Bachelor of Arts (B.A.) degree. Placement auditions for all undergraduate students are given prior to registration. Jury examinations are given at the end of each Applied Music series.

Prerequisite Coursework:
MUT X111, X112 (3, 3) Basic Theory I, II
MUT X116, X117 (3, 3) Basic Theory III, IV
MUT X241, X242 (1, 1) Sight singing and Ear Training I, II
MUT X246, X247 (1, 1) Sight singing and Ear Training III, IV
MUN XXXX (4) Courses in Ensemble
MVX XXIX (2-4) Applied Music
MVX XX2X (2-4) Applied Music
Secondary Piano—proficiency by examination
(or MVK X111 & MVK X112 & MVK X121 & MVK X122 as needed to achieve piano proficiency)
Additional courses may be required. Contact department for details.

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Students in this program must complete: a modern or classical foreign language through the 2200 or equivalent level. This requirement may be satisfied through coursework or examination.

Admission Requirements to the Major
All entering students must meet appropriate minimum standards through a placement audition (heard by a faculty jury) in applied music before being granted admission to the College of Music.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 50 hours
Applied Music Principal (MV_ = MVK, MVV, MVW, MVB, MVS, MVP, MVJ): 8 hours
MV_ 1311-1316 (2, 2) Applied Music Principal
MV_ 2321-2326 (2, 2) Applied Music Principal
B. A. majors must pursue study of a principal instrument through (and complete by jury) the MV_2321-2326 series.
All of the following: 26 hours
MUT 1111, 1112 (3, 3) Basic Theory I, II
MUT 2116, 2117 (3, 3) Basic Theory III, IV
MUT 1241, 1242 (1, 1) Sight singing I, II
MUT 2246, 2247 (1, 1) Sight singing III, IV
MUL 2110 (2) Survey of Music Literature
MUH 2512 (3) Music Cultures of the World I
MUH 3211 (3) Survey of Music History I
MUH 3212 (3) Survey of Music History II

Ensemble: 4 hours

Two hours of accompanying (MUN 2510/4513) are required of all piano principals in partial fulfillment of the requirements in ensemble. All woodwind and brass freshmen and freshmen transfers must register for MUN 2460 (Chamber Music) during the first Spring and second Fall Terms. (String freshmen and freshmen transfers must register during the first two Fall terms.) Other transfers in these areas must register for MUN 2460 or 4463 during the first fall semester of residence. A minimum of 2 hours of ensemble credit must be earned at the upper division level.

Upper Division Music Electives or Area Specific Courses (Jazz, Commercial, Sacred): 12 hours

MU_/MV_ 3000-4000

Student Recital Attendance: 0 hours

MUS 1010, 0 hours. Entering freshmen must register for this course for six semesters. Transfer students must consult advisor regarding completion of this requirement.

Electives/Minor Requirement: 30 hours or more within the area of Electives.

Students may complete a minor in the academic department of his/her choice. Elective credits may include courses offered by the College of Music; however, at least 26 of these hours must be taken outside the College of Music. Students are alerted to the University policy which requires a minimum of 45 hours at the upper division level. Additional upper division elective hours may be necessary to meet this stipulation.

Foreign Language: 0-12 hours. Completion of a foreign language through the intermediate (2220) level or proficiency equivalent is required.

Computer Skills Competency: 1 to 3 hours. One of: CGS 2060 (3), CGS 2100 (3), CGS 3406 (3), EME 2040 (3), MUE 4690 (3), MUS 2360 (1), ISC 3313 (3).

Oral Communication Competency: 0-3 hours

Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary

Min. Hrs. Required 120
Liberal Studies 36*
Major Coursework 50
Computer Skills 1-3
Oral Competency 0-3
Foreign Language 0-12 (depending on placement)
Electives to bring total credits to 120

*NOTE: Up to eight hours of credit from the required Music History and Music Literature courses may also be used to partially fulfill requirements of Liberal Studies in the Area IV Humanities/Fine Arts.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. For the BA in Music, at least 66 hours must be earned in non-music coursework.

Employment Information

Representative Job Titles Related to this Major: Teacher, Performer/Artist, Author, Music Business Executive, Publication Editor, Music Law/Copyright Lawyer, Music Engineer/Recorder, Conductor, Researcher, Composer, Freelancer, Music Administrator.

Representative Employers: Junior Colleges, Conservatories, Colleges, Entertainment Centers, Universities, Recording Studios, Publishers, Record/Music Companies, Law Practice, Private Clubs.

Updated: Summer, 2013
MUSIC COMPOSITION
College: Music
Degree: Bachelor of Music
Limited Access: YES
Contact: Dr. Ted Stanley
Address: 204D Housewright Music Building, FSU
         Tallahassee, FL 32306-1180
Phone: (850) 644-4833
E-Mail: tstanley@fsu.edu

Description of Major
The program in Music Composition prepares students to become professional composers, performers, and scholars. Entering students audition to determine placement in applied music classes. Students choose as a principal instrument the piano, organ, voice, harp, guitar, a string, woodwind, brass, or percussion instrument. A complete recital of original works during the senior year (MUS 4970) is required to assess competency. Graduates receive the Bachelor of Music (B.M.).

Prerequisite Coursework:
MUT X111, X112 (3, 3) Basic Theory I, II
MUT X116, X117 (3, 3) Basic Theory III, IV
MUT X241, X242 (1, 1) Sight singing I, II
MUT X246, X247 (1, 1) Sight singing III, IV
MUN XXXX (4) Courses in Ensemble
MVX XX1X (2-4) Applied Music
MVX XX2X (2-4) Applied Music
Secondary Piano--proficiency by examination
(or MVK X111 & MVK X121 & MVK X122 as needed to achieve piano proficiency)
Additional recommended courses: M/UH 2512, MUL 2110, MUS 1010, MUC 1211, 2221, and MUL 2111
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Major
All entering students must meet appropriate minimum standards through a placement audition (heard by a faculty jury) in applied music before being granted admission to the College of Music.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu.

Major Program of Studies: 89-91 hours required
Applied Music: 16 hours
MV_ 1311-1316 (2, 2) Applied Music Principal
MV_ 2321-2326 (2, 2) Applied Music Principal
MV_ 3331-3336 (2, 2) Applied Music Principal
MV_ 4341-4346 (2, 2) Applied Music Principal
Composition majors must pursue study of a principal instrument through (and complete by jury) the MV_ 4341-4346 series.
Applied Secondary: 6 hours
Non-keyboard principals complete the following courses:
MVK 1111, 1111 (1, 1) Class Piano
MVK 2121, 2121 (1, 1) Class Piano
MVK 3131, 3131 (1, 1) Class Piano
Keyboard principals complete 6 hours in music electives instead of these Class Piano credits.
Basic Music Theory: 16 hours
MUT 1111, 1112 (3, 3) Basic Theory I, II
MUT 1241, 1242 (1, 1) Sight singing I, II
MUT 2116, 2117 (3, 3) Basic Theory III, IV
MUT 2246, 2247 (1, 1) Sight singing III, IV
Advanced Music Theory: 14-16 hours
MUT 3280 (2) Post Tonal Aural Skills
MUT 3421 (2) Eighteenth Century Counterpoint
MUT 3422 (2) Eighteenth Century Counterpoint OR MUT 4411 (3) 16th Century Counterpoint
MUT 3541 (3) Form and Style: Classic OR MUT 3551 (3) 19th Century Styles
MUT 3571 (3) Twentieth Century Styles OR MUT 4572 (3) Music Since WWII
MUT 4311 (2) Orchestration OR MUT 4321 (3) Wind Band Arranging
Composition: 19 hours
(Student must successfully complete MUT 1111, Music Theory, and 1241, Sight singing, prior to enrolling in Composition).
MUC 2221 (2, 2) Composition
MUC 3231 (3, 3) Composition
MUS 3541 (3) Digital Music Synthesis
MUC 4241 (3, 3) Composition
Ensemble: 6 hours
Woodwind and brass freshmen and freshmen transfers register for MUN 2460 (Chamber Music) during the first Spring and second Fall terms. (String freshmen and freshmen transfers must register during the first two Fall terms.) Woodwind, brass, or orchestral string sophomores and other transfers register for MUN 2460 or 4463 during the Fall semester of the first year of residence. At least 3 hours of ensemble credit must be earned at the 3000-4000 level.
Student Recital Attendance: 0 hours
MUS 1010 (0) Entering freshmen must register for this course for six semesters. Transfer students, consult advisor.
Senior Composition Recital: 0 hours
MUS 4970 (0) A recital of compositions by the composition major is required during the senior year.
Music History/Lit.: 10 hours
MUL 2110 (2) Survey of Music Literature
MUH 2512 (2) Music Cultures of the World
MUH 3211 (3) Survey of Music History I
MUH 3212 (3) Survey of Music History II
Other Music: 2 hours
MUS 2360 (1) Introduction to Technology in Music
MUG 3104 (1) Conducting

Computer Skills Competency: 1 hour. MUS 2360 (1)

Oral Communication Competency: 0-3 hours. Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36*
Major Coursework 89-91
Minor Coursework 0
Computer Skills 0 beyond major
Oral Competency 0-3
Other Coursework 0
Electives to bring total hours to 120.
*NOTE: Up to eight hours from Music History and Music Lit. may be used Liberal Studies Area IV Humanities/Fine Arts.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Composer, Conductor, Performer, Choir or Choral Director, Instructor.
Representative Employers: Junior Colleges, Conservatories, Colleges, Entertainment Centers, Universities, Recording Studios, Publishers, Record/Music Companies, Private Clubs.

Updated: Summer, 2013
MUSIC EDUCATION
(CHORAL, INSTRUMENTAL, GENERAL)
College:   Music
Degree:   Bachelor of Music Education
Limited Access:  YES
Contact:   Dr. Ted Stanley
Address:  204D Housewright Music Building, FSU
          Tallahassee, FL 32306-1180
Phone:   (850) 644-4833
E-Mail:   tstanley@fsu.edu

Description of Major
The program in Music Education prepares students to become professional Music Educators. Entering students have auditions to determine placement in appropriate applied music classes. Students choose as their principal instrument: voice, piano, harpsichord, harp, guitar, organ or a band or orchestral instrument. Students must complete a teaching internship. Students choose a program in Choral, Instrumental, or General Music Education. Upon completion of this program, students receive the Bachelor of Music Education (B.M. E.) degree and qualify for Florida Teacher Certification in Music Education K-12.

Prerequisite Coursework:
Pre-education Core (9 hours)
(FSU native students should consult with the departmental advisor regarding these courses)
EDF X005 (3) Introduction to Education
* EDF X085 (3) Teaching Diverse Populations
EME X040 (3) Introduction to Educational Technology
* In addition to EDG X085, the student must take 6 hours with an international or diversity focus. Eligible courses will be determined by the institution where the student is earning his/her associate in arts (AA) or baccalaureate degree.
Music Education Program Prerequisites (24-28 hours; 0 beyond major coursework)
MUT X111, X112 (3, 3) Basic Theory I, II
MUT X116, X117 (3, 3) Basic Theory III, IV
MUT X241, X242 (1, 1) Sight singing I, II
MUT X246, X247 (1, 1) Sight singing III, IV
MUN XXXX (4) Courses in Ensemble
MVX X1X1 (2-4) Applied Music
MVX X2X2 (2-4) Applied Music
Secondary Piano—proficiency by examination
(or MVK X111 & MVK X112 & MVK X121& MVK X122 as needed to achieve piano proficiency)
Additional courses may be required; contact the department.
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Major
All entering students must meet appropriate minimum standards through a placement audition (heard by a faculty jury) in applied music before being granted admission to the College of Music. Students seeking admission to teacher education must meet the following requirements:
1. meet the general criteria for transfer into an FSU degree-granting program (see Bulletin),
2. complete Liberal Studies requirements or an A.A. degree with a grade of C- or higher in each freshman English and each basic mathematics course
3. complete the Pre-education core listed above
4. achieve a passing score on the general knowledge portion of the FTCE
5. achieve an overall 2.5 GPA
6. Students are required to be fingerprinted and pass a security clearance prior to admission to the major program of studies.

Music Education students must maintain satisfactory academic standing (2.5 overall GPA, 3.0 cumulative music GPA). Students must apply for admission to the Professional Sequence upon completion of 45 hours and must contact the Music Education faculty for current criteria and procedures early in the sophomore year.
Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu.

Major Program of Studies at FSU: 98 hours
Consult resource personnel for specific requirements of program selected. NOTE: Program completion includes passing the basic skills, professional knowledge, and subject area tests that are required for teacher certification in the state of Florida. Certification to teach in Florida requires a minimum 2.5 GPA in the field of specialization.

Applied Music (12 hours)
MV_1311-1316 (2, 2) Applied Music Principal
MV_2321-2326 (2, 2) Applied Music Principal
MV_3331-3336 (2, 2) Applied Music Principal - Successful completion (by jury) of MV_3331-3336 required for BME majors.

Applied Music Secondary (3-86 hours depending on program selected)
MVK 1111-1111 (1-1) Class Piano
MVK 2121-2121 (1-1) Class Piano
MVK 3131-3131 (1-1) Class Piano (Choral and General Education majors only)
MVS 1116 (1) Class Guitar

Music Education majors are required to satisfy competency required in Class Piano, and Class Guitar.

Basic Music Theory (16 hours)
MUT 1111-1112 (3-3) Basic Theory I, II
MUT 1241-1242 (1-1) Sight singing I, II
MUT 2116-2117 (3-3) Basic Theory III, IV
MUT 2246-2247 (1-1) Sight singing III, IV

Music History/Lit (10 hours)
MUH 2110 (2) Survey of Music Literature
MUH 2512 (2) Music Cultures of the World I
MUH 3211 (3) Survey of Music History I
MUH 3212 (3) Survey of Music History II

Senior Project/Recital (2 hours)
MUS 4970 (2) Senior Project/Recital

Student Recital Attendance (0 hours)
MUS 1010 (0) Recital Attendance. Entering Freshmen must register for this course for six semesters. Transfer students must consult advisor regarding the completion of this requirement.

Ensembles (4-6 hours)
BME majors must enroll in ensemble during each term of residence. Contact resource personnel for details.
All woodwind and brass freshmen and freshmen transfers must register for MUN 2460 (Chamber Music) during the first Spring and second Fall Terms. (String freshmen and freshmen transfers must register during the first two Fall terms.) Other transfers in these areas must register for MUN 2460 or 4463 during the first fall semester.

Music Education/Professional Sequence (53-57 hours, depending on program selected)
MUE 2040 (3) Introduction to Teaching Music
MUE 3311 (3) Teaching of General Music in the Elementary School
MUE 3334 (3) Assessment and Teaching of General Music in the Secondary School
MUE 4940 (12) Internship in Music
MUE 4690 (3) Technology in Teaching Music
MUE 4044 (3) Music Education in American Society
DEP 3103 (3) Child Psychology or DEP 3305 (3) Psychology of Adolescent Development
Other courses to complete this requirement will depend on program selected. Contact resource personnel.

Computer Skills Competency: 0 hours beyond major. MUE 4690 (3).

Oral Communication Competency: 0 hours beyond major coursework.

Minimum Program Requirements - Summary
Total Hrs. Required 134
Liberal Studies 36*
Pre-education Core 9
Major Coursework 98
Minor Coursework 0
Computer Skills 0 beyond major
Oral Competency 0-3
Other Coursework 3
Electives 5

*NOTE: Up to eight hours of credit from the required Music History and Music Literature courses may also be used to partially fulfill requirements of Liberal Studies.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Choir or Choral Director, Teacher: High School, Middle School, Elementary School.

Representative Employers: Public Schools, Private Schools, Entertainment Centers, Churches.

Updated: Summer, 2013
MUSIC PERFORMANCE
College: Music
Degree: Bachelor of Music
Limited Access: YES
Contact: Dr. Ted Stanley
Address: 204D Housewright Music Building, FSU
          Tallahassee, FL 32306-1180
Phone: (850) 644-4833
E-Mail: tstanley@fsu.edu

Description of Major
The program in Music Performance prepares students to become professional performers and scholars. Entering students have to audition to determine placement in appropriate applied music classes. A joint recital during the junior year (MV_3970) and a complete recital during the senior year (MV_4971) are required to assess competency. Graduates of the program receive the Bachelor of Music degree (B.M.). Performance major options are guitar, harp, organ, piano, strings, voice, and woodwinds, brass, percussion.

Prerequisite Coursework:
- MUT X111, X112 (3, 3) Basic Theory I, II
- MUT X116, X117 (3, 3) Basic Theory III, IV
- MUT X241, X242 (1, 1) Sight singing I, II
- MUT X246, X247 (1, 1) Sight singing III, IV
- MUN XXXX (4) Courses in Ensemble
- MVX XX1X (2-4) Applied Music
- MVX XX2X (2-4) Applied Music
Secondary Piano–proficiency by examination
(or MVK X111 & MVK X112 & MVK X121 & MVK X122 as needed to achieve piano proficiency)
Additional courses may be required: contact department.
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Foreign language requirements vary by major:
For woodwind, brass, percussion, harp, piano, and orchestral strings: no requirement. For classical guitar: any language through the elementary (1121) level. For organ: any language through the intermediate (2XXX) level. For voice: French, German, and Italian through the first elementary (1120), with additional diction courses.

Admission Requirements to the Major
All entering students must meet appropriate minimum standards through a placement audition (heard by a faculty jury) in applied music before being granted admission to the College of Music.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 80-93 hours
Placement auditions for all undergraduate majors are given at the end of each applied music series. Some Performance majors are required to demonstrate proficiency in playing piano accompaniments of medium difficulty (MVK 2121B - Class Piano). This requirement must be met before the end of the junior year. Specific requirements for these programs will depend on the principal instrument selected, but all include coursework in Applied Music (principal and secondary instruments), Ensemble, Music History and Literature, Music Theory and Advanced Theory. The following is representative of minimum requirements. Contact the College of Music for more information.

Applied Music: 28 to 36 hours depending on instrument
- MV_141_ (3-4, 3-4) Applied Music Major
- MV_242_ (3-4, 3-4) Applied Music Major
- MV_343_ (3-5, 3-5) Applied Music Major
MV_ 444_ (3-5, 3-5) Applied Music Major

Music Theory: 16 hours
MUT 1111, 1112 (3, 3) Music Theory I and II
MUT 1241, 1242 (1, 1) Sight singing I and II
MUT 2116, 2117 (3, 3) Music Theory III and IV
MUT 2246, 2247 (1, 1) Sight singing III and IV
Advanced Theory: 6 to 9 hours depending on instrument, to be chosen from the following
MUT 3421, 3422 (2, 2) 18th Century Counterpoint
MUT 3541 (3) Form and Style: Classic
MUT 3551, 35571 (3, 3) 19th and 20th Century Styles
MUT 4411 (3) 16th Century Counterpoint
MUC 4103r (2, 2) Composition
MUL 4572 (3) Music Since WWII
MUT 4321 (3) Wind Band Arranging
MUT 4311 (2) Orchestration
Music History/Literature: 10 hours
MUL 2110 (2) Survey of Music Literature
MUH 2512 (2) Music Cultures of the World I
MUH 3211 (3) Survey of Music History I
MUH 3212 (3) Survey of Music History II
Ensemble: 4-12 hours.
A minimum of two hours must be taken at the upper division level. Piano majors take two hours of accompanying in partial fulfillment of the ensemble requirement. All woodwind and brass freshmen and freshmen transfers must register for MUN 2460 (Chamber Music) during the first Spring and second Fall Terms. (String freshmen and freshmen transfers must register during the first two Fall terms.)

Student Recital Attendance:
MUS 1010 (0). Entering freshmen must register for this course for six semesters. Transfer students must consult advisor regarding completion of this requirement.
Recital:
MV_ 3970 (0) Junior Recital
MV_ 4971 (0) Senior Recital
Other Music: 2 to 4 hours depending on instrument
MUS 2360 (1) Introduction to Music Technology
MUG 3104 (1) Conducting. Voice majors take MUE 3491 (2) and MUE 3495 (1) Choral Lit. & Conducting and Music Ed. Lab
Additional Requirements and/or variations to these requirements will depend on the specific major instrument chosen. Contact the College of Music as soon as possible for specific requirements.

Computer Skills Competency: 0 hours beyond major. MUS 2360 (1).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Requirements vary by principal instrument
Total Hrs. Required 120-133
Liberal Studies 36*
Major Coursework 80-93
Minor Coursework 0
Computer Skills 0 beyond major
Computer Competency 0-3
Other Coursework 0-15
Electives to bring total credits to 120-133
*NOTE: Up to eight hours of credit from the required Music History and Music Literature courses may also be used to partially fulfill requirements of Liberal Studies in Area IV Humanities/Fine Arts.
Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Composer, Performer or Artist, Conductor, Instructor.

Representative Employers: Junior Colleges, Conservatories, Colleges, Entertainment Centers, Universities, Recording Studios, Publishers, Record/Music Companies, Private Clubs.

Updated: Summer, 2013
MUSIC THEATRE
College: Music
Degree: Bachelor of Music
Limited Access: YES
Contact: Dr. Ted Stanley
Address: 204D Housewright Music Building, FSU
Tallahassee, FL 32306-1180
Phone: (850) 644-4833
E-mail: tstanley@fsu.edu

Description of Major
The program in Music Theatre prepares students to become professional performers and scholars. Entering students audition to determine placement in appropriate Applied Music classes. Students choose voice as their principal instrument. A junior recital equivalency (MVV 3970) is required prior to graduation. Graduates of the program receive the Bachelor of Music degree (BM).

Prerequisite Coursework:
MUT X111, X112 (3, 3) Basic Theory I, II
MUT X116, X117 (3, 3) Basic Theory III, IV
MUT X241, X242 (1, 1) Sight singing I, II
MUT X246, X247 (1, 1) Sight singing III, IV
MUN XXXX (4) Courses in Ensemble
MVX XX1X (2-4) Applied Music
MVX XX2X (3) Applied Music
Secondary Piano—proficiency by examination.
(or MVK X111 & MVK X112 & MVK X121 & MVK X122 as needed to achieve piano proficiency)
Additional courses may be required; contact the department.

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Major
All entering students must meet appropriate minimum standards through a placement audition (heard by a faculty jury) in applied music before being granted admission to the College of Music. Candidates for the degree are required to demonstrate proficiency in Theatre, Dance and Music.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 63 hours
Placement auditions for all entering students are given prior to registration. Jury examinations are given at the end of each applied music series. Proficiency examinations for acting, dance and music are given annually.

Applied Music: 16 hours
MVV 1312 (2, 2) Applied Principal Voice
MVV 2322 (2, 2) Applied Principal Voice
MVV 3332 (2, 2) Applied Principal Voice
MVV 4342 (2, 2) Applied Principal Voice
Music Theatre majors must register for Voice study each term of residence. Students will be required to complete a successful “exit” jury (voice, dance, and theatre) prior to graduation.

Applied Secondary: 4 hours
MVK 1111 A-B, 2121 A-B, or MVK 1211 (2-2)
If the student exempts (without credit) the Class Piano proficiency of MVK 2121, the student will be required to enroll in MVK 1211. All students must have a minimum of 4 hours of Applied Music Secondary Piano study.

Music Theatre Repertoire: 4 hours
MVV 3532 (1, 1) Musical Theatre Repertoire
MVV 4542 (1, 1) Musical Theatre Repertoire
Music Theatre Workshop: 8 hours  
MUO 4006 (2, 2, 2, 2) Music Theatre Workshop  
Basic Music Theory: 16 hours  
MUT 1111-1112 (3, 3) Basic Theory I, II  
MUT 1241-1242 (1, 1) Sight singing I, II  
MUT 2116-2117 (3, 3) Basic Theory III, IV  
MUT 2246-2247 (1, 1) Sight singing III, IV  
Ensembles: 2 hours required  
Major Performance Role: 1 hour  
MUO 4451 (1) Major Performance Role  
Music History/Lit: 10 hours  
MUL 2110 (2) Survey of Music Literature  
MUH 2512 (2) Music Cultures of the World I  
MUH 3211 (3) Survey of Music History I  
MUH 3212 (3) Survey of Music History II  
Student Recital Attendance: 0 hours  
MUS 1010, 0 hours. Entering freshmen must register for this course for six semesters. Transfer students must consult advisor regarding completion of this requirement  
Junior Recital Equivalency: 0 hours.  
MVV 3970 (0) Junior Recital Equivalency  
Other Music: 2 hours  
MUS 2360 (1) Introduction to Music Technology  
MUG 3104 (1) Conducting  
Other Required Coursework: 29 hours  
TPA 2248 (2) Stage Make-up  
TPP 2110 (3) Acting Techniques I  
TPP 2111 (3) Acting Techniques II  
THE 4244 (3) Music Theatre History I or  
THE 4245 (3) Music Theatre History II  
TPP 3510 (3) Movement Techniques I  
TPP 3511 (3) Movement Techniques II  
TPP 4512 (3) Advanced Movement for the Theatre  
Dance: (6) to be selected in consultation with advisor  

Computer Skills Competency: 0 hours beyond major. MUS 2360 (1).  

Oral Communication Competency: 0-3 hours  
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.  

Minimum Program Requirements - Summary  
Total Hrs. Required 120  
Liberal Studies 36*  
Major Coursework 63  
Minor Coursework 0  
Computer Skills 0 beyond major  
Oral Competency 0-3  
Other Coursework/Electives to bring total hours to 120  
*NOTE: The required Music History and Music Lit. courses may also be used to partially fulfill requirements of Liberal Studies in Area IV Humanities/Fine Arts.  

Remarks:  
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.  
2. Half of the major course semester hours must be completed in residence at this University.  
3. The final 30 hours must be completed in residence at this University.
Employment Information

Representative Job Titles Related to this Major: Performer or Artist, Instructor, Arranger/Choreographer.

Representative Employers: Theatre Companies, Television Stations, Entertainment Centers.

Updated: Summer, 2013
MUSIC THEORY
College: Music
Degree: Bachelor of Music
Limited Access: YES
Contact: Dr. Ted Stanley
Address: 204D Housewright Music Building, FSU
Tallahassee, FL 32306-1180
Phone: (850) 644-4833
E-Mail: tstanley@fsu.edu

Description of Major
The program in Music Theory prepares students to become music scholars, authors and teachers of Music Theory. Entering students have auditions to determine placement in appropriate applied music classes. Graduates of this program receive the Bachelor of Music (BM) degree.

Prerequisite Coursework:
MUT X111, X112 (3, 3) Basic Theory I, II
MUT X116, X117 (3, 3) Basic Theory III, IV
MUT X241, X242 (1, 1) Sight singing I, II
MUT X246, X247 (1, 1) Sight singing III, IV
MUN XXXX (4) Courses in Ensemble
MVX XX1X (2-4) Applied Music
MVX XX2X (2-4) Applied Music
Secondary Piano Proficiency by placement
(or MVK X111 & MVK X112 & MVK X121 & MVK X122 to achieve piano proficiency)
Additional recommended courses: MUH 2512; MUL 2110; MUS 1010; MUL 2111; foreign language proficiency through the intermediate (2XXX) level.
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Major
All entering students must meet appropriate minimum standards through a placement audition (heard by a faculty jury) in applied music before being granted admission to the College of Music. Students may enter this program as freshmen. Approval by the Music Theory faculty is required for admission.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/

Major Program of Studies at FSU: 75-78 hours.
All music majors are required to register for and attend Student Recital (MUS 1010) for six semesters. Jury examinations are given at the end of each applied music series.
Applied Music: 16 hours
MV_ 1311-1316r (2, 2) Applied Music Principal
MV_ 2321-2326r (2, 2) Applied Music Principal
MV_ 3331-3336r (2, 2) Applied Music Principal
MV_ 4341-4346r (2, 2) Applied Music Principal
Theory majors must study a principal instrument through (and complete by jury) the MV_ 4341-4346 series.
Applied Secondary: 6 hours
MVK 1111r (1, 1) Class Piano
MVK 2121r (1, 1) Class Piano
MVK 3131r (1, 1) Class Piano
(Required of non-keyboard principals only). Keyboard principals will choose 6 credits of music electives to satisfy the minimum requirement for the major.
Basic Music Theory: 16 hours
MUT 1111-1112 (3, 3) Basic Theory I, II
MUT 1241-1242 (1, 1) Sight singing I, II
MUT 2116-2117 (3, 3) Basic Theory III, IV
MUT 2246-2247 (1, 1) Sight singing III, IV
Advanced Theory: 14-16 hours
MUT 3421 (2) 18th Century Counterpoint
MUT 3422 (2) 18th Century Counterpoint OR MUT 4411 (3) 16th Century Counterpoint
MUT 3541 (3) Form and Style: Classic OR MUT 3551 (3) 19th Century Styles
MUT 3280 (2) Post Tonal Aural Skills
MUT 4311 (2) Orchestration OR MUT 4221 (3) Wind Band Arranging
MUT 3571 (3) 20th Century Styles OR MUL 4572 (3) Music Since WW II
Composition: 2-3 hours
MUC 4103r (2) Composition OR MUS 3541 (3) Digital Synthesis
Music History/Literature: 10 hours
MUL 2110 (2) Survey of Music Literature
MUH 2512 (2) Music Cultures of the World I
MUH 3211, 3212 (3, 3) Survey of Music History I and II
Other Music: 2 hours
MUS 2360 (1) Introduction to Technology in Music
MUG 3104 (1) Conducting
Ensemble: 6 hours
2 hours of accompanying (MUN 2510/4513) are suggested of all piano principals in partial fulfillment of this requirement. All
woodwind and brass freshmen and freshmen transfers must register for MUN 2460 (Chamber Music) during the first Spring
and second Fall Terms. (String freshmen and freshmen transfers must register during the first two Fall terms.) All woodwind,
brass, or orchestral string sophomores and other transfers must register for MUN 2460 or 4463-01 during the Fall semester of
the first year of residence. At least 3 hours of ensemble credit must be earned at the upper division level.
Student Recital Attendance: 0 hours
MUS 1010 (0) Transfer students must consult advisor regarding completion of this requirement.
Senior Thesis: 2 hours
MUS 4970r (2) Senior Thesis (Music Theory)

Academic Collateral: 12 hours (or proficiency)
Foreign Language 1120, 1121 (4, 4) Elementary level
Foreign Language 2XXX (4) Intermediate level

Computer Skills Competency: 0 hours beyond major. MUS 2360 (1).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through
appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Min. Hrs. Required 120
Liberal Studies 36*
Major Coursework 75-78
Academic Collateral 12
Minor Coursework 0
Computer Skills 0 beyond major
Oral Competency 0-3
Electives to bring total hours to 120

*NOTE: Up to 8 hours from the required Music History and Music Literature courses may apply to Liberal Studies in Area IV.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. Music Theory majors must pursue a study of a principal instrument through the senior level series. If piano or organ is not chosen as the principal instrument, the candidate must complete the requirements of 6 hours of Class Piano.

**Employment Information:**
Representative Job Titles Related to this Major: Researcher, Scholarly Author, Teacher of Music Theory.

Representative Employers: Junior Colleges, Some Historical Societies, Colleges, Universities, Conservatories.

Updated: Summer, 2013
**MUSIC THERAPY**

College: Music  
Degree: Bachelor of Music  
Limited Access: YES  
Contact: Dr. Ted Stanley  
Address: 204D Housewright Music Building, FSU  
Tallahassee, FL 32306-1180  
Phone: (850) 644-4833  
E-Mail: tstanley@fsu.edu

**Description of Major**

Entering students have auditions to determine placement in appropriate applied classes. Students choose as a principal instrument: piano, organ, harpsichord, voice, harp, guitar, a string, woodwind, brass or percussion instrument.

**Prerequisite Coursework:**
- MUT X111, X112 (3, 3) Basic Theory I, II  
- MUT X116, X117 (3, 3) Basic Theory III, IV  
- MUT X241, X242 (1, 1) Sight singing I, II  
- MUT X246, X247 (1, 1) Sight singing III, IV  
- * MVK X111, X112 (1,1) Applied Secondary Piano  
- * MVK X121, X122 (1,1) Applied Secondary Piano  
- MUN XXXX (4) Courses in Ensemble  
- MVX XX1X (2-4) Applied Music  
- MVX XX2X (2-4) Applied Music  
- * or Secondary Piano Proficiency by placement  
Additional courses may be recommended: contact department.

*Note:* State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of [http://www.flvc.org](http://www.flvc.org).

**Admission Requirements to the Major**

All entering students must meet appropriate minimum standards through a placement audition (heard by a faculty jury) in applied music before being granted admission to the College of Music.

**Mapping**

Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at [www.academic-guide.fsu.edu/](http://www.academic-guide.fsu.edu/).

**Major Program of Studies at FSU:** 86 hours required Music; 15 hours required Behavioral/Natural Science  
The Bachelor of Music curriculum and degree in Music Therapy are approved by the National Association for Music Therapy and National Association of Schools of Music. In order to register for MUY 4940, a six-month internship at an approved and affiliated clinical center, a music therapy major must have completed all music therapy courses with a grade of C- or better (B- or better for MUY 3601, MUY 4401, MUY 4402) and be recommended by the department.

**A. Required music courses:** 86 hours  
Applied Music: 12 hours  
MV_ 1311-1316 (2, 2) Applied Music Principal  
MV_ 2321-2326 (2, 2) Applied Music Principal  
MV_ 3331-3336 (2, 2) Applied Music Principal  

Music Therapy majors who complete by jury the MV_ 2321-2326 level in applied principal, may continue principal instrument study or may elect to study in two or three secondary areas. Dance may be used as one of the secondary performance areas.

**Applied competencies:** 7 hours  
MVK 1111-1111 (1, 1) Class Piano  
MVK 2121-2121 (1, 1) Class Piano  
MVV 1111 (1) Class Voice  
MVS 1116 (1) Class Guitar  

All Music Therapy majors are required to satisfy the competency required in Class Piano, Class Voice, and Class Guitar.
Basic Music Theory: 16 hours
MUT 1111-1112 (3, 3) Basic Theory I, II
MUT 1241-1242 (1, 1) Sight singing I, II
MUT 2116-2117 (3, 3) Basic Theory III, IV
MUT 2246-2247 (1, 1) Sight singing III, IV
Music History/Lit: 10 hours
MUL 2110 (2) Survey of Music Literature
MUH 2512 (3) Music Cultures of the World I
MUH 3211 (3) Survey of Music History I
MUH 3212 (3) Survey of Music History II
Music Therapy: 29 hours
MUE 3091 (1) Orientation to Therapy
MUS 4092 (1) Arts in Medicine
MUS 4611-4612 (3, 3) Psychology of Music I, II
MUS 4651 (2) Non-Verbal Communication
MUY 3601 (3) Music Recreation Techniques
MUY 4401-4402 (3, 3) Music Therapy I, II
MUY 4940 (10) Clinical Internship in Music Therapy
Senior Project/Recital: 2 hours
MUS 4970 (2) Senior Project/Recital
Other Music: 4 hours
MUE 3491 (2) Choral Literature and Conducting
MUS 2360 (1) Introduction to Technology in Music
MUS 3934 (1) Drumming for Music Therapy
Ensemble: 6 hours
2 hours of accompanying (MUN 2510/4513) are required of all piano principals in partial fulfillment of the requirements in ensemble. All woodwind, brass and orchestral string freshmen and freshman transfers must register for MUN 2460 during the Fall semester of the freshman and sophomore years. All woodwind, brass, and string orchestral sophomores and other transfers must register for MUN 2460 or 4463 during the Fall semester of the first year of residence. A minimum of 3 hours of ensemble credit must be earned at the upper level.
Student Recital Attendance: 0 hours
MUS 1010 (0). Entering freshmen must register for this course for six semesters. Transfer students must consult with advisor regarding completion of this requirement.
B. Required Behavioral/Natural Sciences: 15 hours
PET 2303C (3) Anatomy & Physiology
PSY 2012 (3) General Psychology
CLP 4143 (3) Abnormal Psychology
EEX 4770 (3) Human Exceptionality or MUE 4391 (3) or course selection in consultation with advisor (3).
Behavioral/Health/Natural Science Electives: 3 hours selected in consultation with an advisor.

Computer Skills Competency: 0 hours beyond major. MUS 2360 (1).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 129
Liberal Studies 36*
Music Coursework 86
Other Behavioral/Natural Science 15
Minor Coursework 0
Computer Skills 0 beyond major
Oral Competency 0-3
Electives to bring total credits to 129
*NOTE: Up to 8 hours of the required Music History & Music Literature may be used to towards Liberal Studies requirements in Area IV Humanities/Fine Arts.
Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Music Therapist, Teacher.

Representative Employers: Clinics, Hospitals, Rehabilitation Centers, School Systems.

Updated: Summer, 2013
Description of Major

Nurses with a baccalaureate degree in nursing are in high demand for a variety of positions within hospitals and other health care agencies in communities. These nurses advance rapidly into positions of increasing responsibility and leadership in nursing. The nursing 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 principal goal of nursing is to provide essential personal and social services to humans through the conscious selection of activities designed to assist in meeting client needs, while protecting legal rights and human dignity. For the professional nurse, this goal is accomplished through the application of the nursing process and facilitated through the use of research. Through utilization of the nursing process, enhanced by interdisciplinary collaboration, the professional nurse guides the individual, family and/or group toward achievement and maintenance of a state of optimal physical and psychosocial health. The graduate is committed to personal, intellectual and professional development and has the foundation for graduate study. Graduates qualify to take the licensing examination for professional nursing.

The College of Nursing admits freshman students directly into the Nursing major. The College will continue to admit a limited number of upper-division and transfer students who have successfully completed the program prerequisites and have competitive GPAs. Upper-division and transfer applicants should note that in addition to the regular University application, they must also complete an online application for the College of Nursing, http://nursing.fsu.edu/Apply-to-FSU-Nursing. Please see “Admissions Requirements” below.

Prerequisite Coursework:
The following courses or their equivalent must be completed prior to beginning major coursework in the junior year. 15 hours of these should be used to satisfy Liberal Studies/General Education (6 hours Natural Sciences, 6 hours Social Sciences, 3 hours for the second mathematics course).

- BSC X085, X085L (3,1) Anatomy & Physiology I with lab, or acceptable alternative
- BSC X086, X085L (3,1) Anatomy & Physiology II with lab, or acceptable alternative
- CHM XXXX (3) Chemistry or acceptable alternative (CHM X045 General Chemistry preferred)
- DEP X004 (3) Developmental Psychology or acceptable alternative
- HUN X201 (3) Science of Nutrition or NUR X192
- MCB X010C (4) Microbiology with lab or acceptable alternative
- * PSY XXXX (3) Psychology or SOP XXXX (3) Social Psychology or SYG XXXX (3) Sociology
- STA X023 (3) Statistics or acceptable alternative
- * The Nursing program strongly recommends that applicants have both a psychology and a sociology course.

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org. Students with questions about prerequisites should email the Nursing advisor at info@nursing.fsu.edu.

Freshman Admission Requirements to the Major

Entering freshmen apply to the Nursing major through the regular FSU application process. The freshman deadlines for admission to the Nursing program are the same as the application deadlines for FSU. Freshman admission to the major will be based on high school weighted GPA and SAT/ACT scores.
Transfer Admission Requirements to Major
The Florida State University College of Nursing admits students for the Fall semester only and requires a special application with a deadline of February 1 available online at http://nursing.fsu.edu/Apply-to-FSU-Nursing/BSN-Transfer-Application . Transfer students must also complete the University transfer application. Prior to submitting an application, half (6) of the prerequisite courses must be completed, including three (3) of the science courses. All prerequisites must be completed with a C or higher prior to enrollment. The College of Nursing admits students based on the quality of the applicant’s previous academic achievement and the number of students who can be accommodated in the program. Students will be admitted only during the fall semester. Students will be selected based on the following criteria: 1) Completion of liberal studies and attainment of junior standing or completion of an AA degree from a Florida public community college or state university with minimum acceptable cumulative GPA of 3.0; and 2) completion of required prerequisites with a minimum 3.0 average in prerequisite science courses, and minimum of 2.0 in each prerequisite, but the average for those accepted into the program is above a 3.8 in both areas. Availability of clinical resources and attrition from the freshman admitted students will determine the number of students to be admitted. Students not accepted at the time of initial application may apply for the following fall. If admitted to the upper-level major, Nursing students are required to submit results of a health examination, immunization record, proof of health insurance, a two-year certification in CPR, criminal background check, and drug screening. For more information please visit: http://nursing.fsu.edu/Apply-to-FSU-Nursing.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU for the traditional program in Nursing (BSN): 60 hours
Expenses (subject to change): uniforms, lab coat, shoes, stethoscope and other accessories - $250; standardized testing program - $400; textbooks - $700 per semester average; clinical laboratory fee per credit hour - $100. Nursing majors are responsible for transportation expenses related to clinical experiences. They are also required to carry University health and accident insurance. Students may have scheduled clinical experiences outside the Tallahassee area, either during the week or on weekends. If the agency is located far enough away to require overnight accommodations, the cost of these arrangements is the responsibility of the student, as is the travel to and from the agency.

Term I: Fall (15 hours)
NUR 3056 (3) Foundations of Nursing Practice
NUR 3056L (2) Foundations of Nursing Practice Lab
NUR 3065 (3) Health Assessment, Wellness and Prevention across the Lifespan
NUR 3065L (1) Health Assessment, Wellness and Prevention across the Lifespan Lab
NUR 3125 (4) Pathophysiological Concepts in Nursing
NUR 3145 (2) Pharmacological Concepts in Nursing

Term II: Spring (15 hours)
NUR 3225 (3) Nursing Care of Adults with Acute/Chronic Health Disorders
NUR 3225L (3) Nursing Care of Adults with Acute/Chronic Health Disorders Lab
NUR 3678 (4) Nursing Care of Vulnerable Populations
NUR 3678 (3) Nursing Care of Vulnerable Populations Lab
NUR 3816 (2) Professional Perspectives in Nursing

Term III: Fall (15 hours)
NUR 4555 (4) Nursing Care of Women, Children, and Families
NUR 4555L (2) Nursing Care of Women, Children, and Families Lab
NUR 4766 (4) Nursing Care of Adults and Populations with Complex Health Disorders
NUR 4766L (3) Nursing Care of Adults and Populations with Complex Health Disorders Lab
NUR 4169 (2) Evidence Based Nursing

Term IV: Spring (15 hours)
NUR 4828 (2) Transition to Nursing Practice
NUR 4888 (2) Nursing Leadership in Systems of Care
NUR 4888L (2) Nursing Leadership in Systems of Care Lab
NUR 4945 (6) Professional Nursing Internship
NUR/NSP XXXX (3) Nursing Elective

Computer Skills Competency: NUR 4169.
Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary (Traditional Program)
Total Hrs. Required 120 (Generic Program)
Liberal Studies 36
Prerequisite Coursework 15 (beyond what may be counted toward Liberal Studies)
Major Coursework 60
Computer Skills 0 beyond major courses
Oral Competency 0-3
Electives to bring total hours to 120

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. All major coursework in Nursing must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Staff Nurse, Team Leader, School Nurse, Head Nurse, Office Nurse, Private Duty Nurse. Public Health Nurse, Clinic Nurse, Emergency Room Nurse, Occupational Health Nurse, Community Mental Health Nurse.

Representative Employers: Medical Centers, Community Hospitals, Specialty Hospital, Nursing and Convalescent Homes, Armed Services, Extended Care Facilities, VISTA/Peace Corps, Visiting Nurse Associations, Public School Systems, Drug/Alcohol Rehabilitation.

Updated: Summer, 2013
NURSING, ACCELERATED BSN (ABSN)
College: Nursing
Degree: B.S.N.
Limited Access: YES
Contact: Melinda Batton
Address: 103B Duxbury Hall, FSU
         98 Varsity Way
         Tallahassee, FL 32306-4310
Phone: (850) 644-5107
Fax: (850) 645-7249
E-Mail info@nursing.fsu.edu

Description of Major
Nurses with a baccalaureate degree in nursing are in high demand for a variety of positions within hospitals and other health care agencies in communities. These nurses advance rapidly into positions of increasing responsibility and leadership in nursing. Courses in the nursing curriculum are based on concepts and principles from liberal studies, the supporting biological and behavioral science and nursing theory. This theoretical base is used with the nursing process to provide nursing care to individuals and groups in a variety of health care setting. The College of Nursing offers an Accelerated BSN (ABSN) curriculum for qualified and highly motivated students who have already earned a bachelor’s degree in another field. The full-time campus-based 12-month ABSN program incorporates all of the components of a traditional Bachelor of Science in Nursing Program. The rapid pace of the BSN curriculum demands a full-time commitment to academics. Graduates from accelerated nursing programs are highly valued by employers who recognize the additional skills and education these graduates bring to the workplace.

Prerequisite Coursework:
The required prerequisite must be completed prior to starting the ABSN program.
BSC X085, X085L (3,1) Anatomy & Physiology I with lab, or acceptable alternative
BSC X086, X085L (3,1) Anatomy & Physiology II with lab, or acceptable alternative
CHM XXXX (3) Chemistry or acceptable alternative (CHM X045 General Chemistry preferred)
DEP X004 (3) Developmental Psychology or acceptable alternative
HUN X201 (3) Science of Nutrition or NUR X192
MCB X010C (4) Microbiology with lab or acceptable alternative
* PSY XXXX (3) Psychology or SOP XXXX (3) Social Psychology or SYG XXXX (3) Sociology
STA X023 (3) Statistics or acceptable alternative
* The Nursing program strongly recommends that applicants complete both a psychology and a sociology course.

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

NUR 3125, a special note: The following course must be completed before beginning the “Semester I” block courses. Applicants may take it as a special student prior to their first regular enrollment. It is offered every semester.
NUR 3125 (4) Pathophysiological Concepts in Nursing

Admission Requirements to Major:
The Florida State University College of Nursing admits students to the ABSN program for the fall semester only and requires a special application with a deadline of April 1st. All prerequisites must be completed with a C or higher prior to enrollment. The College of Nursing admits students based on the quality of the applicant’s previous academic achievement and the number of students who can be accommodated in the program. Students will be selected based on the following criteria: (1) Completion of a baccalaureate degree (or higher) from a regionally accredited college or university. (2) Achieve at least a 3.2 (on a 4.0 scale) cumulative GPA on all college work attempted (at every institution). (3) Achieve at least a 3.2 (on a 4.0 scale) cumulative GPA on all college work attempted at the last institution. (4) Meet the Florida State University admission requirements for second degree seeking students. (5) Achieve at least a 3.0 (on a 4.0 scale) cumulative GPA on all science prerequisite courses. Availability of faculty and clinical resources will determine the number of students to be admitted. If admitted to the ABSN program, Nursing students are required to submit results of a health examination, immunization record, a two-year certification in CPR, criminal background check, and drug screening. For more information please visit: http://nursing.fsu.edu/Apply-to-FSU-Nursing.
Mapping
Mapping is FSU’s academic advising and monitoring system. However, because this is a second baccalaureate degree it is not mapped. Students should register for coursework as outlined in the program description and work closely with the College of Nursing in monitoring their progress.

Major Program of Studies for the Accelerated Nursing (ABSN) program: 4 + 53 hours
Expenses (subject to change): uniforms, lab coat, shoes, stethoscope and other accessories - $250; standardized testing program - $400; textbooks - $700 per semester average; clinical laboratory fee per credit hour - $100. Nursing majors are responsible for transportation expenses related to clinical experiences. They are also required to carry University health and accident insurance. Students may have scheduled clinical experiences outside the Tallahassee area, either during the week or on weekends. If the agency is located far enough away to require overnight accommodations, the cost of these arrangements is the responsibility of the student, as is the travel to and from the agency.

Pathophysiological Concepts in Nursing: (4 hours)
In addition to the state-wide common prerequisites, students must complete this course prior to enrolling in Semester I of this program. It is offered every semester.
NUR 3125 (4) Pathophysiological Concepts in Nursing
Semester I: Fall (18 hours)
NUR 3056 (3) Foundations of Nursing Practice
NUR 3056L (2) Foundations of Nursing Practice Lab
NUR 3065 (3) Health Assessment, Wellness and Prevention Across the Lifespan
NUR 3065L (1) Health Assessment, Wellness and Prevention Across the Lifespan Lab
NUR 3145(2) Pharmacological Concepts in Nursing
NUR 3678 (4) Nursing Care of Vulnerable Populations
NUR 3678L (3) Nursing Care of Vulnerable Populations Lab
Semester II: Spring (18 hours)
NUR 3225 (3) Nursing Care of Adults with Acute and Chronic Health Disorders
NUR 3225L (3) Nursing Care of Adults with Acute and Chronic Health Disorders Lab
NUR 4445 (4) Nursing Care of Women, Children and Families
NUR 4445L (2) Nursing Care of Women, Children and Families Lab
NUR 3816 (2) Professional Perspectives in Nursing
NUR 4169 (2) Evidence Based Nursing
NUR 4828 (2) Transition to Nursing Practice
Semester III: Summer (17 hours)
NUR 4766 (4) Nursing Care of Adults and Populations with Complex Health Disorders
NUR 4766L (3) Nursing Care of Adults and Populations with Complex Health Disorders Lab
NUR 4888 (2) Nursing Leadership in Systems of Care
NUR 4888L (2) Nursing Leadership in Systems of Care
NUR 4945 (6) Professional Nursing

Computer Skills Competency: 0 hours.
As a second baccalaureate degree, this is not required. NUR 4169 is an approved computer skills competency course.

Oral Communication Competency: 0 hours
As a second baccalaureate degree, this is not required.

Minimum Program Requirements - Summary (Accelerated Program)
Total Hrs. Required 60 beyond first baccalaureate degree
Liberal Studies N/A
Prerequisite Coursework 27-30
Major Coursework 57
Computer Skills N/A
Oral Competency N/A
Electives 0

Remarks:
1. This is a second baccalaureate degree.
2. At least 30 hours must be completed in residence at FSU after completion of the first baccalaureate degree.
3. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
Employment Information

Representative Job Titles Related to this Major: Staff Nurse, Team Leader, School Nurse, Head Nurse, Office Nurse, Private Duty Nurse. Public Health Nurse, Clinic Nurse, Emergency Room Nurse, Occupational Health Nurse, Community Mental Health Nurse.

Representative Employers: Medical Centers, Community Hospitals, Specialty Hospital, Nursing and Convalescent Homes, Armed Services, Extended Care Facilities, VISTA/Peace Corps, Visiting Nurse Associations, Public School Systems, Drug/Alcohol Rehabilitation.

Updated: Summer, 2013
PHILOSOPHY
College: Arts and Sciences
Degree: B.A.
Limited Access: NO
Contact: Dr. Piers Rawling
Address: 151 Dodd Hall, FSU
Tallahassee, FL 32306-1500
Phone: (850) 644-1483
E-Mail: prawling@fsu.edu
Website: www.fsu.edu/~philo

Description of Major
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, and to develop their abilities to engage in critical examination and evaluation. The program serves as a basis for professional training in other fields, such as education, law, politics, religion or journalism; or as preparation for future professional training in philosophy. The department participates in the Honors Program as well as in the undergraduate and graduate programs in American Studies, Asian Studies, Humanities, Political Science, International Affairs, and Religion. The student’s program is planned in consultation with the department’s Director of Undergraduate Studies, taking into account the student’s academic and career interests and goals.

Prerequisite Coursework: none
Although not required for admission into this program, students are encouraged to take several philosophy courses with PHH, PHI, PHM, or PHP prefixes during their freshman and sophomore years.

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Requirements for Progression to the Upper-Division Major
To be admitted to the program students must complete at least 52 hours of credit with a minimum grade point average of 2.0, at least half the required Liberal Studies hours, including English composition and mathematics, or an A.A. Degree. In order to graduate, students must earn a minimum grade of C- in major coursework, with a minimum GPA of 2.0 within the major.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 30 hours
Grades below C- will not be accepted for major or minor credit. To graduate, students must have a minimum GPA of 2.0 within the major. Required coursework includes:

1. Logic (3 hours) One of:
PHI 2100 (3) Reasoning and Critical Thinking
PHI 3130 (3) Introduction to Symbolic Logic

2. History of Philosophy (6 hours)
PHH 3400 (3) Modern Philosophy
PHH 3130 (3) Plato and His Predecessors or PHH 3140 (3) Aristotle to Augustine

3. Ethics (3 hours)
PHI 3670 (3) Ethical Theory

4. Contemporary Metaphysics and Epistemology (3 hours) One of:
PHI 3220 (3) Introduction to Philosophy of Language
PHI 3300 (3) Knowledge and Belief
PHI 3320 (3) Philosophy of Mind
PHI 4500 (3) Metaphysics
PHH 4600 (3) Contemporary Philosophy
5. Seminar for Majors (3 hours)
PHI 4938 (3) Seminar for Majors
6. Elective courses in Philosophy (12 hours)

Additional requirements:
1) At least 21 hours in the major must be at the 3000 level or above.
2) At least 15 hours must be completed in the Philosophy Department at Florida State University.

Minor Coursework: At least 12 hours in an approved minor. Specific requirements are determined by the minor area.

Computer Skills Competency: CGS 2060 (3) or CGS 2100 (3).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36*
Major Coursework 30
Minor Coursework 12
Foreign Language 0-12 (depending on placement)
Computer Skills 3
Oral Competency 0-3
Electives to bring total credit to 120
*NOTE: Three hours of major coursework may also be used to satisfy Liberal Studies (Humanities) requirements.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Policy Analyst, Community College Instructor, Teacher: High School, College Instructor (M.A. or Ph.D.), Curriculum Specialist (Secondary School), Writer, Researcher, Administrative Assistant, Editorial Assistant/Editor, Information Specialist, Management Trainee/Manager, Lawyer (with professional school).


Updated: Summer, 2013
PHYSICAL SCIENCE
College: Arts and Sciences
Degree: B.A. or B.S.
Limited Access: No
Contact: Melissa Wolff
Address: 307 Keen Building, FSU
          Tallahassee, FL 32306-4350
Phone: (850) 644-3245
E-Mail: ugrad@physics.fsu.edu

Description of Major
The physical sciences play a central role in our understanding of nature and the technologies that serve our society. The
Physical Science degree program provides students with opportunities to explore the natural and technological worlds broadly,
from the Earth and space sciences to modern physics to computer science and mathematics. The Physical Science degree
provides a strong preparation in quantitative skills, which in turn prepares a student for employment in entry-level scientific
and technical jobs, and postgraduate work in a variety of fields.

The FSU Physics Department also offers majors in “Physics,” “Physics and Astrophysics,” and “Physical Science/FSU-Teach.

Prerequisite Coursework: 0 beyond other requirements.
Students must complete the following prerequisites required for admission in preparation for the upper division major. All of
the following may also apply toward major and/or Liberal Studies requirements.
MAC X311 (4) Calculus with Analytic Geometry I
MAC X312 (4) Calculus with Analytic Geometry II
MAC X313 (4) Calculus with Analytic Geometry III
CHM X045, X045L (3,1) General Chemistry I, Lab (or equivalent)
CHM X046, X046L (3,1) General Chemistry II, Lab
PHY X048C (5) General Physics A
PHY X049C (5) General Physics B

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable
alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or
sign language through the advanced (2614 or equivalent) level.

Requirements for Progression to the Upper-Division Major
To be admitted, students must complete at least 52 hours of credit with an adjusted GPA of 2.0 on FSU coursework and at least
half the hours required in Liberal Studies, including English composition and mathematics. Students must earn a minimum
grade of C- or higher in each required physics, chemistry, and mathematics course.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to
ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to
be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu.

Departmental Policy on Grades and Continuation in the Major
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 Physics at Florida State University or elsewhere, whether or not repeated, will not be permitted to graduate with
a degree in that major. No physics, chemistry, computer science, geology, meteorology, or math course with a grade below C-
may be used to satisfy the requirements for this major.

Major Program of Studies at FSU: at least 43 hours
1. All of the following Physics courses (13 hours)
   PHY 2048C (5) General Physics A
   PHY 2049C (5) General Physics B
PHY 3101 (3) Intermediate Modern Physics

2. At least one computer skills competency course selected from the following (3 hours)
   PHZ 4151C (3) Computational Physics Laboratory
   COP 3014(3) Programming I
   ISC 3313 (3) Introduction to Scientific Computing

3. Additional required courses; select nine (9) courses from the following list (at least 27 hours)
   MAC 2313 (5) Calculus III
   MAP 2302 (3) Ordinary Differential Equations or MAP 3305 (3) Engineering Math I
   MAS 3105 (3) Applied Linear Algebra I
   AST 4211 (3) Introduction to Astrophysics
   PHY 3045 (3) Physics Problem Solving
   PHY 3221 (3) Intermediate Mechanics
   PHY 3424 (3) Optics
   PHY 3802L (2) Intermediate Laboratory A
   PHZ 3113 (3) Mathematical Physics
   PHZ 3400 (3) Condensed Matter Physics
   PHZ 4390 (3) Particle and Nuclear Physics
   CHM 2200 and 2200L (3,1) Survey of Organic Chemistry and Lab
     or CHM 2210 (3) Organic Chemistry I
   CHM 3120 and 3120L (3,1) Introduction to Analytical Chemistry and Lab
   CHM 3400 (4) General Physical Chemistry
   COP 3014 (3) Programming I (unless already used to satisfy the computer skills competency requirement)
   COP 3330 (3) Object Oriented Programming
   COP 3353 (1) Introduction to Unix
   GLY 2010C (4) Physical Geology
   GLY 2100 and 2100L (3,1) Historical Geology and Lab
   GLY 3200C (3) Mineralogy and Crystallography
   MET 2101 (3) Physical Climatology
   MET 2700 (3) General Meteorology
   MET 3300 (3) Introduction to Atmospheric Dynamics

Collateral coursework: 16 hours
Majors must complete the courses listed below. As collateral courses, these may be used to satisfy Liberal Studies or minor requirements. If not, they must be taken in addition to other requirements.
   MAC 2311 (4) Calculus with Analytic Geometry I
   MAC 2312 (4) Calculus with Analytic Geometry II
   CHM 1045, 1045L (3,1) General Chemistry I, Lab or CHM 1050, 1050L Honors General Chemistry I, Lab
   CHM 1046, 1046L (3,1) General Chemistry II, Lab or CHM 1051, 1051L Honors General Chemistry II, Lab

Minor Coursework: The required collateral courses may constitute a minor if not also used to meet Liberal Studies or other requirements. However, a student may select another minor in consultation with the departmental advisor.

Computer Skills Competency: 0 hours beyond major requirements. PHZ 4151C (3), COP 3014 (3), or ISC 3313 (3).

Oral Communication Competency: 0-3 hours.
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required: 120
Liberal Studies: 36*
Prerequisite courses: 0 beyond other requirements
Major coursework: at least 43
Collateral coursework: 16
Computer Skills: 0 beyond major
Oral Competency: 0 beyond major
Foreign Language: 0-12 (depending on placement)
Electives to bring total hours to 120

*NOTE: Required coursework may often apply toward more than one area (for instance, collateral and major courses may also apply toward Liberal Studies). Students who begin college prepared to start with calculus will have a greater number of hours available for electives.

**Remarks:**
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. Students who plan to earn the B. A. degree must complete both a foreign language through the intermediate (2200 or equivalent) level and nine additional hours in the fields of history and humanities.

**Employment Information**

**Representative Job Titles Related to this Major:** Health Physicist, Chemical Physicist, Radiation Safety Officer, Community College Teacher, Biophysicist, High School Teacher, Geophysicist, Scientific Sales Representative, Environmental Scientist, Computer Systems Analyst, Consultant, Petroleum Companies, Technical Writer, Nuclear Technician.

**Representative Employers:** Hospitals, Community Colleges, Manufacturers, School Boards, Utility Companies, Research and Development Firms, Electronic Firms, Governmental Agencies, Petroleum Companies, Engineering Firms.

Updated: Summer, 2013
**PHYSICAL SCIENCE / FSU-TEACH**

**Colleges:** Arts and Sciences  
**Education**

**Degree:** B.S.  
**Limited Access:** No

**Contacts:**  
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307 Keen Bldg, FSU  
Tallahassee, FL 32306-4350  
(850) 644-3245  
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FSU-Teach: Dr. Robin R. Smith  
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Tallahassee, FL 32306-4482  
(850) 645-8927  
rrsmith@fsu.edu

**Web Page:** http://fsu-teach.fsu.edu/

**Description of Major**

FSU-Teach is an innovative approach to teacher education that involves collaboration between scientists, mathematicians, and education faculty at Florida State University. In Physical Science/FSU-Teach, students will develop both knowledge of physics and the knowledge, skill, and experience needed to be an effective science teacher. The program will pay for tuition for the first two Education/Teaching courses. Work study positions with scientists, mathematicians, and local schools are available. For more information, see our Web site, http://fsu-teach.fsu.edu/.

This is a double-major only program. FSU-Teach majors are first admitted into their primary, discipline-specific major and must meet the state-wide common program prerequisites for that major, in this case Physical Science/FSU-Teach. Later, students apply for admission into a secondary major within the College of Education called Science Teaching/FSU-Teach. Upon graduation, students are awarded the B.S. degree with majors in Physical Science/FSU-Teach and Science Teaching.

The FSU Physics Department also offers majors in “Physical Science,” “Physics,” and “Physics and Astrophysics.”

**Prerequisite Coursework: 0 beyond other requirements.**

Students must complete the following prerequisites required for admission in preparation for the upper division major. All of the following may also apply toward major and/or Liberal Studies requirements.

- MAC X311 (4) Calculus with Analytic Geometry I
- MAC X312 (4) Calculus with Analytic Geometry II
- MAC X313 (4) Calculus with Analytic Geometry III
- CHM X045, X045L (3,1) General Chemistry I, Lab (or equivalent)
- CHM X046, X046L (3,1) General Chemistry II, Lab
- PHY X048C (5) General Physics A
- PHY X049C (5) General Physics B
- SMT X043 (1) Step 1: Inquiry Approaches to Teaching
- SMT X053 (1) Step 2: Inquiry-Based Lesson Design

**Note 1:** Transfer students will be able to take SMT X043 and SMT X053 when enrolled at FSU.

**Note 2:** State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

**Requirements for graduation in the College of Arts and Sciences include:**

The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

**Progress in this major and formal admission to FSU-Teach and Teacher Education**

To be recognized as “formally admitted” into this major, students must meet the following requirements: 1) certification to upper division (or transfer admission into Physical Science/FSU-Teach as a junior); 2) completion of Liberal Studies or an AA; 3) satisfactory completion of “Step 1” and “Step 2” courses; 4) a cumulative GPA of at least a 2.5; and 5) a passing score on all four parts of the FTCE General Knowledge Test. Once these are complete, the student must complete an “Undergraduate Application to Teacher Education” in 2301 Stone Building, at which time the second major in Science Teaching will be added.
Departmental Policy on Grades and Continuation in the Major
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 Physics at Florida State University or elsewhere, whether or not repeated, will not be permitted to graduate with a degree in this major.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 79-82 hours
Required courses for the Physical Science/FSU-Teach major: 50 hours
1. All of the following Physics courses (19 hours)
   PHY 2048C (5) General Physics A
   PHY 2049C (5) General Physics B
   PHY 3091 (2) Communication in Physics (satisfies oral communication requirement)
   PHY 3101 (3) Intermediate Modern Physics
   PHY 3012 (2) Learning Assistantship in Physics
   PHY 3802L (2) Intermediate Laboratory
2. Four of the following five courses (12 hours)
   AST 4211 (3) Introduction to Astrophysics
   PHY 3045 (3) Physics Problem Solving
   PHY 3424 (3) Optics
   PHZ 3400 (3) Phenomena in Condensed Matter Physics
   PHZ 4390 (3) Particle and Nuclear Physics
3. At least one computer skills competency course selected from the following (3 hours)
   COP 3014 (3) Programming I
   ISC 3313 (3) Introduction to Scientific Computing
   PHZ 4151C (3) Computational Physics Laboratory
Collateral Coursework: 16 hours
   Majors must satisfy complete the courses listed below. As collateral courses, these may be used to satisfy Liberal Studies or minor requirements. If not, they must be taken in addition to other requirements.
   MAC 2311 (4) Calculus with Analytic Geometry I
   MAC 2312 (4) Calculus with Analytic Geometry II
   CHM 1045, 1045L (3,1) General Chemistry I, Lab or CHM 1050, 1050L Honors General Chemistry I, Lab
   CHM 1046, 1046L (3,1) General Chemistry II, Lab or CHM 1051, 1051L Honors General Chemistry II, Lab

Required courses for the Science Teaching major: 29-32 hours
SMT 1043 (1) Step 1: Inquiry Approaches to Teaching
SMT 1053 (1) Step 2: Inquiry-Based Lesson Design
SMT 3100 (3) Knowing and Learning
SMT 4301 (3) Classroom Interactions
SMT 4664 (3) Project Based Instruction
SMT 4830 (1-4) Apprentice Teaching Seminar
SMT 4945 (5) Apprentice Teaching
HIS 3505 (3) Perspectives on Science and Mathematics
ISC 3523C (3) Research Methods
RED 4335 (3) Content Area Reading for Secondary School Teachers
TSL 4324 (3) ESOL Instruction in the Content Area

Computer Skills Competency: 0 hours beyond other requirements. PHZ 4151C (3), COP 3014 (3), or ISC 3313 (3).

Oral Communication Competency: 0 hours beyond major. PHY 3091 or SMT 4664 will satisfy this requirement.

Minimum Program Requirements -Summary
Total Hrs. Required 120
Liberal Studies 36*
Prerequisite Coursework 0 beyond other requirements*
Major Coursework 79-82
Foreign Language 0-12 (depending on placement)
Computer Skills 0 beyond major
Oral Competency 0 beyond major
Electives to bring total hours to 120
*Prerequisite coursework may also be used to satisfy general education and major requirements.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. Students who plan to earn the B. A. degree must complete both a foreign language through the intermediate (2200 or equivalent) level and nine additional hours in the fields of history and humanities.

Employment Information
Representative Job Titles Related to this Major: Middle school or high school teacher of physics. In addition, students may pursue careers appropriate for students with a major in Physical Science.

Representative Employers: Public and private schools, research facilities, private industry.

Updated: Summer, 2013
PHYSICS
College: Arts and Sciences
Degree: B. A. or B. S.
Limited Access: No
Contact: Melissa Wolff
Address: 307 Keen Building, FSU
Tallahassee, FL 32306-4350
Phone: (850) 644-3245
E-Mail: ugrad@physics.fsu.edu

Description of Major
The FSU Physics Department has consistently been rated as one of the best in the southeastern United States. With internationally prominent faculty in astrophysics, atomic physics, biophysics, condensed matter physics, high energy physics, and nuclear physics, and undergraduate research opportunities in all these fields, the FSU Physics Department is a great place to learn and achieve.

Undergraduates participate in all the activities of the Physics Department. The FSU chapter of the Society of Physics Students provides an opportunity for physics majors to build a community outside the classroom.

A bachelor’s degree in physics opens a wide range of career opportunities. One is to pursue graduate study in physics, astronomy or a related field, and many FSU B.S. graduates succeed in strong graduate programs and continue on to outstanding scientific careers. However, the American Institute of Physics reports that there are many excellent career opportunities for students without any degree past a B.S. in physics. Three-fourths of these physics B.S. graduates work in science-related jobs, including software, engineering, high school teachers, and managers in technical fields. The largest group—about one-fourth—are employed in software jobs.

The FSU Physics Department also offers majors in: Physics and Astrophysics, Physical Science, and Physical Science/FSU-Teach.

Prerequisite Coursework: 0 beyond other requirements.
Students must complete the following prerequisites required for admission in preparation for the upper division Physics major. The following may also apply toward the major and/or Liberal Studies.
MAC X311 (4) Calculus with Analytic Geometry I
MAC X312 (4) Calculus with Analytic Geometry II
MAC X313 (5) Calculus with Analytic Geometry III
CHM X045, X045L (3,1) General Chemistry I with Lab (or equivalent)
CHM X046, X046L (3,1) General Chemistry II with Lab
PHY X048C (5) General Physics A or PHY X048/X048L
PHY X049C (5) General Physics B or PHY X049/X049L
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Students interested in this major should also take:
MAP 2302 (3) Ordinary Differential Equations or MAP 3305 (3) Engineering Mathematics I

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Requirements for Progression to the Upper-Division Major
In order to be admitted, students must complete at least 52 hours of credit with an adjusted GPA of 2.0 on FSU coursework, and at least half the required hours in Liberal Studies, including English composition and mathematics. Students must earn a minimum grade of C- or higher in each required physics and math course.
Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be admitted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Departmental Policy on Grades and Continuation in the Major
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 Physics at Florida State University or elsewhere, whether or not repeated, will not be permitted to graduate with a degree in that major.

Major Program of Studies at FSU: 53 hours
Required courses in Physics (38 hours)
PHY 1090 (1) Discovering Physics
PHY 2048C (5) General Physics A
PHY 2049C (5) General Physics B
PHY 3045 (3) Physics Problem Solving
PHY 3091 (2) Communication in Physics (meets oral communication competency requirement)
PHY 3101 (3) Intermediate Modern Physics
PHY 3221 (3) Intermediate Mechanics
PHY 3802L (2) Intermediate Laboratory
PHY 4323 (3) Intermediate Electricity and Magnetism
PHY 4513 (3) Thermal and Statistical Physics
PHY 4604 (3) Quantum Theory of Matter A
PHY 4822L (2) Advanced Laboratory
PHZ 3113 (3) Mathematical Physics
At least four courses selected from the following (12 hours):
AST 4211 (3) Introduction to Astrophysics
PHY 3424 (3) Optics
PHY 4222 (3) Mechanics II
PHY 4324 (3) Electricity and Magnetism II
PHY 4605 (3) Quantum Theory of Matter B
PHZ 3400 (3) Phenomena in Condensed Matter Physics
PHZ 4390 (3) Particle and Nuclear Physics
PHZ 4601 (3) Special and General Relativity
Students who are planning to conduct graduate work in physics are strongly advised to include PHY 4222 Mechanics II, PHY 4324 (3) Electricity and Magnetism, and PHY 4605 Quantum Theory of Matter B in their programs.
Computer skills competency requirement (3 hours):
PHZ 4151C (3) Computational Physics Laboratory

Note: Six to 9 credit hours of Honors Thesis or Senior Thesis may be substituted for advanced lab if this work culminates in a successfully defended and approved thesis.

Collateral Coursework: 20 hours
Physics majors must satisfy all of the courses listed below. As collateral courses, these may also be used to satisfy prerequisite, Liberal Studies, and minor requirements. Coursework not used for Liberal Studies or the minor must still be taken and will raise the total hours of required coursework.
MAC 2311 (4) Calculus with Analytic Geometry I
MAC 2312 (4) Calculus with Analytic Geometry II
MAC 2313 (5) Calculus with Analytic Geometry III
MAP 2302 (3) Ordinary Differential Equations or MAP 3305 (3) Engineering Math I
CHM 1045, 1045L (3, 1) General Chemistry I and Laboratory or CHM 1050, 1050L (3, 1) Honors General Chemistry I, Lab

Minor Coursework: At least 12 hours from an approved minor area or 15 hours from an approved interdepartmental minor or requirements as stated by the minor area. The required mathematics courses constitute a minor.

Computer Skills Competency: 0 hours beyond major. PHZ 4151C (3)
Oral Communication Competency: 0 hours beyond major.  PHY 3091 (2)

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36*
Major Coursework 53
Collateral Coursework 20*
Minor Coursework 0 beyond collateral coursework
Computer Skills 0 beyond major
Oral Competency 0 beyond major
Foreign Language 0-12 (depending on placement)
Electives to bring total credits to 120

*NOTE: Collateral coursework may also be applied to Liberal Studies or the minor. Students who begin college prepared to start mathematics with calculus will have the greater number of hours available for electives.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. Students who plan to earn the B. A. degree must complete both a foreign language through the intermediate (2220 or equivalent) level and nine additional hours in the fields of history and humanities.

Employment Information

Representative Employers: School Boards, Community Colleges, Manufacturers, Chemical Companies, College and Universities, Engineering Firms, Electronics Firms, Governmental Agencies, Laboratories, Research/Development Firms.

Updated: Summer, 2013
PHYSICS AND ASTROPHYSICS
College: Arts and Sciences
Degree: B. A. or B.S.
Limited Access: No
Contact: Melissa Wolff
Address: 307 Keen Building, FSU
Tallahassee, FL 32306-4350
Phone: (850) 644-3245
E-Mail: ugrad@physics.fsu.edu

Description of Major
The FSU Physics Department has consistently been rated as one of the best in the southeastern United States. With internationally prominent faculty in astrophysics, atomic physics, biophysics, condensed matter physics, high energy physics and nuclear physics, and undergraduate research opportunities in all these fields, the FSU Physics Department is a great place to learn and achieve.

Undergraduates participate in all the activities of the Physics Department. The FSU chapter of the Society of Physics Students provides an opportunity for physics majors to build a community outside the classroom.

A bachelor’s degree in Physics and Astrophysics opens a wide range of career opportunities. One is to pursue graduate study in physics, astrophysics, astronomy or a related field, and many FSU B.S. graduates succeed in strong graduate programs and continue on to outstanding scientific careers. However, the American Institute of Physics reports that there are many excellent career opportunities for students without any degree past a B.S. Three-fourths of these B.S. graduates work in science-related jobs, including software, engineering, high school teachers, and managers in technical fields. The largest group—about one-fourth—are employed in software jobs.

The FSU Physics Department also offers majors in: Physics, Physical Science, and Physical Science/FSU-Teach.

Prerequisite Coursework: 0 beyond other requirements.
Students must complete the following prerequisites required for admission in preparation for the upper division Physics and Astrophysics major. The following may also apply toward the major and/or Liberal Studies.
MAC X311 (4) Calculus with Analytic Geometry I
MAC X312 (4) Calculus with Analytic Geometry II
MAC X313 (5) Calculus with Analytic Geometry III
CHM X045, X045L (3,1) General Chemistry I with Lab (or equivalent)
CHM X046, X046L (3,1) General Chemistry II with Lab
PHY X048C (5) General Physics A or PHY X048/X048L
PHY X049C (5) General Physics B or PHY X049/X049L

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flyc.org.

Students interested in this major should also take:
MAP 2302 (3) Ordinary Differential Equations or MAP 3305 (3) Engineering Mathematics I

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Requirements for Progression to the Upper-Division Major
In order to be admitted, students must complete at least 52 hours of credit with an adjusted GPA of 2.0 on FSU coursework, and at least half the required hours in Liberal Studies, including freshman English composition and mathematics. Students must earn a minimum grade of C- or higher in each required physics and math course.
Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored fall and spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be admitted into their majors. You may view the map for this major at [www.academic-guide.fsu.edu/](http://www.academic-guide.fsu.edu/).

Departmental Policy on Grades and Continuation in the Major
A student who has received more than five unsatisfactory grades (U, F, D–, D, D+, IE) in courses required for a major offered by the Department of Physics at Florida State University or elsewhere, whether or not repeated, will not be permitted to graduate with a degree in that major.

**Major Program of Studies at FSU:** 53-54 hours
*Required courses in Physics (41-42 hours)*
- AST 3721L (1) Astrophysics Laboratory or PHY 3802L (2) Intermediate Laboratory
- AST 4211 (3) Introduction to Astrophysics
- AST 4419 (3) Extragalactic Astronomy or AST 4722 (3) Observational Techniques in Astrophysics
- PHY 1090 (1) Discovering Physics
- PHY 2048C (5) General Physics A
- PHY 2049C (5) General Physics B
- PHY 3045 (3) Physics Problem Solving
- PHY 3091 (2) Communication in Physics (meets oral communication competency requirement)
- PHY 3101 (3) Intermediate Modern Physics
- PHY 3221 (3) Intermediate Mechanics
- PHY 4321 (3) Intermediate Electricity and Magnetism
- PHY 4513 (3) Thermal and Statistical Physics
- PHY 4604 (3) Quantum Theory of Matter A
- PHZ 3113 (3) Mathematical Physics

At least three courses selected from the following (9 hours):
- AST 4217 (3) Physics of Stars
- AST 4414 (3) Cosmology and Structure Formation
- PHZ 4316 (3) Nuclear Astrophysics
- PHZ 4390 (3) Particle and Nuclear Physics
- PHZ 4601 (3) Special and General Relativity

**Computer skills competency requirement (3 hours):**
- PHZ 4151C (3) Computational Physics Laboratory

**Note:** Students planning to conduct graduate work in astrophysics are strongly advised to include GLY 1042 Planetary Geology, PHY 4222 Mechanics II, PHY 4324 Electricity and Magnetism, and PHY 4605 Quantum Theory of Matter B in their programs.

**Collateral Coursework:** 20 hours
Physics majors must satisfy all of the courses listed below. As collateral courses, these may also be used to satisfy prerequisite, Liberal Studies, and minor requirements. Coursework not used for Liberal Studies or the minor must still be taken and will raise the total hours of required coursework.
- MAC 2311 (4) Calculus with Analytic Geometry I
- MAC 2312 (4) Calculus with Analytic Geometry II
- MAC 2313 (5) Calculus with Analytic Geometry III
- MAP 2302 (3) Ordinary Differential Equations or MAP 3305 (3) Engineering Math I
- CHM 1045, 1045L (3,1) General Chemistry I and Laboratory or CHM 1050, 1050L (3,1) Honors General Chemistry I, Lab

**Minor Coursework:** At least 12 hours from an approved minor area or 15 hours from an approved interdisciplinary minor or requirements as stated by the minor area. The required mathematics courses constitute a minor.

**Computer Skills Competency:** 0 hours beyond major. PHZ 4151C (3)

**Oral Communication Competency:** 0 hours beyond major. PHY 3091 (2)
**Minimum Program Requirements - Summary**

Total Hrs. Required 120
Liberal Studies 36*
Major Coursework 53-54
Collateral Coursework 20*
Minor Coursework 0 beyond collateral coursework
Computer Skills 0 beyond major
Oral Competency 0 beyond major
Foreign Language 0-12 (depending on placement)
Electives to bring total credits to 120

*NOTE: Collateral coursework may also be applied to Liberal Studies or the minor. Students who begin college prepared to start mathematics with calculus will have the greater number of hours available for electives.

**Remarks:**
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. Students who plan to earn the B. A. degree must complete a foreign language through the intermediate (2220 or equivalent) level and nine additional hours in the fields of history and humanities.

**Employment Information**


Representative Employers: School Boards, Community Colleges, Manufacturers, Chemical Companies, College and Universities, Engineering Firms, Electronics Firms, Governmental Agencies, Laboratories, Research/Development Firms.

Updated: Summer, 2013
POLITICAL SCIENCE
College: Social Sciences and Public Policy
Degree: B. S. or B.A.
Limited Access: No
Contact: Jeremiah Fisher
Address: 535 Bellamy Building, FSU
Tallahassee, FL 32306-2230
Phone: 850) 644-7305
E-mail: jfisher@admin.fsu.edu

Description of Major
The major in Political Science is designed to educate citizens and promote their active interest in public affairs; prepare students
teaching and research in political science; provide a broad background for careers in public administration and other forms
of government service and for careers in politics; offer pre-professional curriculum in foreign affairs and international relations;
and provide a pre-law curriculum. The Political Science major offers coursework in the general areas of comparative political
science, international relations, American government and politics, public policy, and public administration. Students are
required to take at least two courses (or 6 credit hours) from each of three of these areas.

Prerequisite Coursework: 6 hours
POS X041 (3) American Government
POS XXXX or INR XXXX or CPO XXXX (3)

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable
alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of

Requirements for Progression to the Upper-Division Major
To be admitted, students must complete at least 52 hours with a minimum FSU GPA of 2.0 and most of the Liberal Studies
requirements met, including freshman English composition and mathematics, or an AA degree.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to
ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to
be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 30 hours
30 hours in Political Science with grades of C- or higher, 21 of which must be numbered above 2999. At least 21 hours must be
in regular classroom courses; no more than 9 credits may be in any combination of DIS, honors, or internship. A minimum of 15
semester hours must be completed at FSU. No student who has accumulated three (3) or more grades below C- (D+, D, D-, F, or
U) in political science courses, at Florida State University or elsewhere, will be permitted to continue toward a degree with a
major in political science.

Three introductory courses. Select from the following:
CPO 2002 (3) Introduction to Comparative Government and Politics
INR 2002 (3) Introduction to International Relations
PAD 3003 (3) Introduction to Public Administration
* POS 1041 (3) Introduction to American Government (required for the major)
PUP 3002 (3) Introduction to Public Policy

Two courses in at least three of the following subfields (six courses). The three introductory courses may also “count” here.
Comparative Political Science (CPO)
International Relations (INR)
Public Administration (PAD)
American Government and Politics (POS)
Public Policy (PUP)

One research course. This should be completed by the first semester of the junior year.
* POS 3713 (3) Understanding Political Science Research (required)

Additional Political Science courses to bring total hours in the major to 30

Additional credits may include regular classes, DIS, honors credit, or internship.
* POS 1041 and POS 3713 are required courses for this major.
Minor Coursework: 12 hours minimum
Political Science majors must complete, with a C- grade or better in each course, a minor in an approved department or interdisciplinary program, meeting the requirements set forth by that department. A minor will normally range from 12-18 hours. Public Administration courses may apply toward the 30 hours required in Political Science but cannot constitute a minor for Political Science majors. Completion of a second major may be substituted for this requirement.

Computer Skills Competency: CGS 2060 (3), CGS 2100 (3), or BSC 2010L (1).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36*
Major Coursework 30*
Minor Coursework 12
Computer Skills 1-3
Oral Competency 0-3
Electives to bring total hours to 120

*NOTE: Some Political Science courses may be applied to both Liberal Studies and the major.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. Students who plan to earn the B. A. degree must complete a foreign language through the intermediate (2200 or equivalent) level and nine additional hours in the fields of history and humanities.

Employment Information
Representative Job Titles Related to this Major: Teacher: Secondary, College, Archivist: Political History, Researcher: Public and Private, City Planning Aide, Urban Planner, Analyst: Legislative, Executive, Customs Worker: Agent, Inspector, Staff Assistants: State, Local, or Federal Government, Labor-Relations Specialist, Manager: City, World Trade, Lawyer: (Professional School), Veterans’ Claims Representative, Foreign Service Officer, Journalist, Special Agent (F.B.I., C.I.A.), Campaign Assistant, Lobbyist.

Representative Employers: Government: Federal, State, or Local, Colleges and Universities, Local School Boards, Corporations, Media (print, electronic), Political Action Committees, Civic & Taxpayers’ Associations, Chambers of Commerce, Regional Planning Councils, Political Party Headquarters, Political consultants, Political Candidates, Public interest groups (Common Cause, PIIRG, etc.).

Updated: Summer, 2013.
PROFESSIONAL COMMUNICATION (Panama City campus only)
College: Applied Studies
Degree: B.A. or B.S.
Limited Access: No
Contact: Angie Sexton, Academic Coordinator
Address: 218 Barron Bldg.; Panama City Campus
        Panama City, FL 32405-1099
Phone: 850-770-2175
E-Mail asexton@pc.fsu.edu
Website: http://appliedstudies.pc.fsu.edu/Academics

Description of Major
Students in the Professional Communication major at the Panama City campus will receive a broad understanding of
fundamental communication processes. The overall program combines courses that are theoretically based with those that are
professionally oriented. Courses include interviewing, persuasion, communication research methods, principles of advertising,
introduction to public relations, writing of public relations, communication for organizing and a communication internship.
Students in professional communication may pursue careers in information and media, as well as prepare for graduate study.

Prerequisite Coursework:
18 hours outside major coursework and beyond Liberal Studies.
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable
alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of

Requirements for Progression to the Upper-Division Major
To become a degree seeking student in communication with a major in Professional Communication, the following requirement
must be met:
• Completion of an AA degree from a Florida public institution or completion of the FSU Liberal Studies/general
  education requirements.
Under certain circumstances students who have not completed the requirements for entry into this major may be permitted to
take communication courses while completing certain course requirements. These requirements are:
• Completion of FSU’s liberal studies math requirement (two acceptable courses)
• Completion of FSU’s Freshman Composition liberal studies courses (two acceptable courses)
• Completion of all but 6 hours of the FSU liberal studies requirement.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to
ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to
be accepted into their majors. View the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 36 hours
No grade below a C- will be accepted for any course in the major. Maintenance of a 2.0 cumulative GPA is required. The College
of Applied Studies reserves the right to refuse admission or discontinue enrollment of any student at any time, if, in the
judgment of the faculty, the student does not meet departmental or major standards.
Eight core courses (24 hours)
ADV 3008 (3) Principles of Advertising
COM 3120 (3) Communication for Organizing
COM 3310 (3) Communication Research Methods
COM 4945r (3) Communication Internship
PUR 3000 (3) Introduction to Public Relations
PUR 3100 (3) Writing for Public Relations
SPC 4360 (3) Interviewing
SPC 4540 (3) Persuasion
Advanced courses (12 hours)
Students select four (4) courses from the list of approved courses. Students who are admitted into the combined BS/MS degree
in Communication may be permitted to dually count up to twelve (12) credit hours of graduate communication coursework
towards both the BS and the MS degree. Interested students should consult with their faculty advisor for more information about the combined program.

**Language Requirement.**
All students must meet the foreign language admission requirement. Students do not have an additional language requirement for the B.S. degree. The B.A. degree requires proficiency in a foreign language through the collegiate intermediate (22XX) level.

**Minor Coursework:** 12 hours or more.
Professional Communication majors must fulfill minor requirements outside the Communication major. Students should check with minor department for specific requirements. Minors must be approved by an advisor. A fifteen (15) hour interdepartmental minor is also possible, providing that the coursework is outside the Communication major and approved in advance.

**Computer Skills Competency:** 0-3 hours beyond major requirements. CGS 2060 (3), CGS 2100 (3) or COM 4470 (3).

**Oral Communication Competency:** 0-3 beyond major requirements.
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. COM 3110 Communication for Business and the Professions will satisfy this requirement.

**Minimum Program Requirements - Summary**
Total Hrs. Required 120
Liberal Studies 36
Major Coursework 36
Minor Coursework 12
Language Requirement 0-12
Computer Skills 0-3
Oral Communication Competency 0-3
Electives to bring total credits to 120

**Remarks:**
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. The B. A. degree requires a foreign language through the intermediate (2XXX) level or equivalent.

**Employment Information**
Representative Job Titles Related to this Major: Information specialist, radio/TV executive, media manager, public opinion researcher, speech writer, online content manager and many others.

Representative Employers: Advertising/PR agencies, government organizations, production Companies, radio/TV, Universities, Video Production Companies, Radio.

Updated: Summer, 2013
Description of Major
Psychology uses scientific methods to attempt to understand, describe, predict and control behavior. The study of human behavior and animal behavior are two broad categories of specialization. Within each category further areas of specialized study are possible and can be matched to career aspirations. The undergraduate program in Psychology at FSU offers students a broad background in many areas of Psychology and is flexible enough to allow the advanced student to specialize in an area of his/her greatest interest. The student may participate in a variety of formal programs which offer educational opportunities in Psychology such as the Honors Program, the Work-Study program, the Psychology summer program offered at the London Study Center, and the Psi Chi Organization. Students are strongly encouraged to work in the department’s human and animal research laboratories and to participate in the department’s research on school and clinical problems in applied settings. These research opportunities allow students to get to know faculty and help prepare them for graduate school.

Prerequisite Coursework: 0 beyond other requirements.
Students must complete the following prerequisites required for admission to the upper-division major. The following, which should be taken as part of Liberal Studies/general education, are required as preparatory courses for the major, and must be completed with a minimum grade of C-. All may also apply toward Liberal Studies and/or major requirements.

* BSC X0XX (3) one course in any level general biology (or BSC X20X or ZOO X010)
* PSY X012 (3) General Psychology
* STA XXXX (3) Statistics. STA 2122 (3) preferred.
* XXX XXXX (3) any other lower level psychology

*Students are encouraged to ask a Psychology advisor about selecting courses to meet these prerequisites.

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Admission Requirements to the Upper-Division Major
Due to the limitations in the number of faculty and physical resources, admission to the upper-division major will be based on the following admission requirements: 1) a minimum GPA of 2.8 in all courses attempted, 2) completion of a statistics course (STA 2122 preferred), 3) completion of General Psychology, and 4) completion of a biology course (contact the Psychology Advising Office for which courses are accepted), and 5) completion of at least 52 academic credits or an A.A. Degree.
Prerequisite coursework must be completed with a grade of C- or higher in each course.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 36 hours (not including General Psychology)
Grades below C- will not be accepted for major or minor credit. Students who have more than four grades below C- (D+, D, D-, or F) in psychology courses or its prerequisite courses, at Florida State or elsewhere, will not be permitted to continue toward a degree with a major in Psychology. If a student receives a fifth grade below C-, he or she will be required to change majors.
Students must complete the following requirements:
Group 1. Research Methods (4 hours)
PSY 3213C (4) Research Methods in Psychology with Lab (pre-req or co-req: STA 2122 or STA 2171, or equivalent)
Group 2. Neuroscience (3-4 hours)
One course from the following:
PSB 2000 (3) Brain and Behavior (may not be used for admission into the major and to meet Group 2 requirement)
PSB 4461 (3) Hormones and Behavior
EXP 3203C (4) Animal Sensory Processes with Lab (pre-req: PSY 3213C)
PSB 3004C (4) Physiological Psychology with Lab (pre-req: PSY 3213C)
EXP 3202C (4) Sensation and Perception with Lab (pre-req: PSY 3213C)

Group 3, Social, Cognitive, Developmental (6-7 hours)
Two courses from the following, only one of which may have the DEP prefix:
SOP 3004 (3) Social Psychology
EXP 2020 (3) Mind and Cognition
EXP 3604C (4) Cognitive Psychology with Lab (pre-req: PSY 3213C)
EXP 4404 (3) Human Memory and Learning
EXP 4640 (3) Psychology of Language

Group 4, Lecture/Laboratory Combinations (0-8 hours)
Two lecture/lab combinations from the following list.

If one or more of the following courses is used to meet Group 2 and/or Group 3 requirements, it/they may also be used to meet Group 4 requirements. Note, “double counting” courses will not reduce the number of hours required in the major; the student will simply increase the number of Group 5 (Psychology Electives) hours required to bring the total hours in psychology to 36.

PSB 3004C (4) Physiological Psychology with Lab (pre-req: PSY 3213C)
EXP 3202C (4) Sensation and Perception with Lab (pre-req: PSY 3213C)
EXP 3422C (4) Conditioning and Learning with Lab (pre-req: PSY 3213C)
EXP 3604C (4) Cognitive Psychology with Lab (pre-req: PSY 3213C)

Group 5, Psychology Electives (14-21 hours)
Students must take enough additional psychology elective courses to bring the total psychology hours to 36 (not including General Psychology). Though students are encouraged to take Directed Individual Study, Research Topics, and Honors Thesis hours, there are limitations on how many of these may apply toward meeting this requirement for the major. In addition, courses with a WST prefix will not count toward this major, even if listed on the psychology “course look up.” For students who have not taken any 4000-level psychology courses at Florida State University to fulfill Psychology requirements, at least three (3) hours of psychology electives must be taken at the 4000-level at Florida State University. This cannot include PSY 4911-15, PSY 4920, or PSY 4039. Students should consult with their advisor in selecting elective courses to ensure that they meet departmental guidelines and their own academic goals.

Minor Coursework: 12-18 hours as stated by the minor area. Work used to meet Liberal Studies and language requirements may not be used for the minor.

Computer Skills Competency: 1-3 hours
The following courses satisfy the computer literacy requirement: BSC 2010L (1), CGS 2060 (3), CGS 2100 (3), CGS 3406 (3), COP 3014 (3), or ISC 3313 (3).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36*
Major Coursework 36
Minor Coursework 12-18
Foreign Language 0-12 (depending on placement)
Computer Skills 1-3
Oral Competency 0-3
Electives to bring total hours to 120
*NOTE: Students are encouraged to take the prerequisite courses listed above as part of their Liberal Studies/general education requirements.
Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours (18 hrs. of Psychology) must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. Students who plan to earn a B. A. degree must complete nine additional hours in the fields of history and/or humanities in addition to the foreign language requirement (through the intermediate -2200 or equivalent-level).

Employment Information
Representative Job Titles Related to this Major: NOTE: Most require graduate training. Psychologist: Clinical, Counseling, School, Educational, Social, Developmental, Child, Industrial/Organizational; Applied Behavior Analyst; Neuroscientist; Social Worker; Human Resource Specialist; Career Counselor; Rehabilitation Counselor; Corrections Officer; Mental Health Counselor, Job Analyst; Genetics Counselor, Salesperson; Manager..

Representative Employers: Universities, Colleges and Community Colleges, Business/Industry, Hospitals, Prison Systems, Primary and Secondary Schools, Testing Companies, Rehabilitation Agencies, Veterans Administration, Mental Health Agencies, Financial Institutions, Consulting Firms.

Updated: Summer, 2013.
PUBLIC SAFETY AND SECURITY (Panama City Campus)

Majors: Law Enforcement Operations, Police Science, and Law Enforcement Intelligence

College: Applied Studies
Degree: B.S.
Limited Access: No
Contacts: Dr. Tom Kelley
Dr. Dale Nute
Address: 4750 Collegiate Drive (Panama City Campus)
Suites A-111 Holley Academic Center
Panama City, FL 32405-1099
Phone: 850-770-2202 (Kelly) or 850-770-2204 (Nute)
E-mail: tkelley@pc.fsu.edu or dnute@pc.fsu.edu
Web: http://appliedstudies.pc.fsu.edu/Academics/Public-Safety-and-Security

Description of Major
Public Safety and Security combines disciplines within both social science and physical science to address problems presented by criminal behavior. The degree integrates practical exercises, both analytic and hands-on, with theoretical principles to provide students with the knowledge, skills, and abilities required by the competencies for law enforcement, security, intelligence, and investigations. The guiding perspective is of public safety as an operational spectrum from prevention to response to investigation, underlaid with intelligence, connected by a management information system, all facilitated by an overarching management system. The core and required courses are designed to provide students an overview of this entire spectrum and also the opportunity to focus on operating within a portion of the system. An undergraduate degree in public safety and security offers broad preparation for positions in law enforcement, public and private security, Department of Homeland Security agencies, the intelligence services, community and residential corrections, court services, probation and parole, and may serve as a foundation for law school or graduate school.

There are currently three majors offered within this degree program. Police Science is an articulated AS to BS program. Law Enforcement Operations is a BS degree program. Law Enforcement Intelligence is also a BS degree program. These majors emphasize the application of theory to the practice of law enforcement. Students in the Police Science major will have already acquired a degree of proficiency via the professional courses in their AS degree which will be enhanced with the more theoretical upper-level courses and by completing the liberal studies requirements. The Law Enforcement Operations major will take a very similar set of required courses as the Police Science students but, since they will have completed the liberal studies requirements, they will be able to enhance their degree with a minor, an internship, or directed research projects. The Law Enforcement Intelligence major also requires students to have completed their general education requirements prior to admission. It shares many courses with the other majors, but has additional course requirements specifically suited to that area.

All majors are accessible via on-campus hybrid style courses or via fully online delivery.

Prerequisite Coursework: None

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for Progression to the Upper-Division Major
These majors are offered at the Panama City campus. All students must meet the foreign language admission requirement. In addition, applicants must meet one of the following:

A. AS from a program with an officially articulated AS-BS agreement with this institution. The three articulated AS to BS degrees are Criminal Justice Technology, Crime Scene Technology and Emergency Management and Administration from a Florida public college. The AS degree shall include 46 hours in professional core requirements and 18 semester hours of transferable coursework that meets Florida’s general education requirements (including English composition and mathematics) for a total of 64 semester hours with a minimum cumulative grade point average of 2.0 on a 4.0 scale.

B. AA from a Florida public college. This will satisfy the Liberal Studies/general education requirement and must be completed with a minimum grade point average of 2.0 on a 4.0 scale.

C. Transfer students from a regionally accredited postsecondary institution. These students must have sixty or more semester hours of transferable credit, to include six hours of freshman English composition and six hours of mathematics/statistics.
Transfer students must have a minimum of a 2.5 GPA. These students must complete the Florida State University general education requirements while enrolled in this program.

D. Current students at FSU (either campus). These students must have fifty-two or more semester hours of credit, to include six hours of freshman English composition and six hours of mathematics/statistics. Students must have a minimum of a 2.0 GPA. These students must complete the general education requirements while enrolled in this program.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Programs of Studies at FSU:
A. Law Enforcement Operations and Police Science. 48 hours
The following are required of both the Law Enforcement Operations and the Police Science majors. All courses must be completed with a grade of C- or better.
Core courses (12 hours)
- CCJ 3024 (3) The Criminal Justice System
- CCJ 3075 (3) Computer Applications in Criminal Justice
- CCJ 3484 (3) Ethics in Policing and Intelligence
- CCJ 4710 (3) Applied Probability for Research & Investigation
Additional required courses (33 hours)
- CCJ 3032 (3) Crime in Media
- CCJ 3651 (3) Drugs and Crime
- CCJ 3678 (3) Policing Diversity: Race, Gender, Religion and Crime
- CCJ 4744 (3) Evidential Reasoning for Research & Investigation
- CJC 3311 (3) Corrections: Practices and Perspectives
- CJE 3612 (3) Interview and Interrogation
- CJE 4410 (3) Community Oriented Policing
- CJE 4611 (3) Criminal Investigation: Theory and Practice
- CJE 4615 (3) Conduct of Investigation
- CJJ 3013 (3) Youth Culture and Crime
- DSC 3013 (3) Homeland Security & Criminal Justice
One capstone course (3 hours)
- CCJ 4710 (3) Applied Probability for Research and Investigation

Law Enforcement Operations additional requirement: 12 hours
In addition to the above, LEO majors must complete 12 hours of electives approved by the College of Applied Studies. These may be unrestricted electives or they may be used for an internship, a certificate in Public Safety and Security, a minor (outside of Public Safety and Security) or as hours applied towards a double major.

Police Science additional requirements: 18 hours
In addition to the above, PS majors must complete the remaining 18 hours of Liberal Studies (general education) requirements as outlined in the General Bulletin.

B. Law Enforcement Intelligence. 48 hours
All courses must be completed with a grade of C- or better.
Core courses (12 hours)
- CCJ 3024 (3) The Criminal Justice System
- CCJ 3075 (3) Computer Applications in Criminal Justice
- CCJ 3484 (3) Ethics in Policing and Intelligence
- CCJ 4710 (3) Applied Probability for Research & Investigation
Additional required courses (33 hours)
- CCJ 3678 (3) Policing Diversity: Race, Gender, Religion and Crime
- CCJ 4072 (3) Crime Mapping and Analysis
- CCJ 4612 (3) Behavioral Science in Criminal Justice
- CCJ 4744 (3) Evidential Reasoning for Research & Investigation
- CJE 3612 (3) Interview and Interrogation
CJE 3732 (3) Criminal Intelligence
CJE 4611 (3) Criminal Investigation: Theory and Practice
CJE 4615 (3) Conduct of Investigation
CJE 4733 (3) The Intelligence Process
CJE 4734 (3) Intelligence Collection Strategies
CJL 3113 (3) Evidence and Criminal Procedure
One capstone course (3 hours)
CCJ 4710 (3) Applied Probability for Research and Investigation

Law Enforcement Intelligence additional requirements: 12 hours.
In addition to the above, LEI majors must complete 12 hours of electives approved by the College of Applied Studies. These may be unrestricted electives or they may be used for an internship, a certificate in Public Safety and Security, a minor (outside of Public Safety and Security) or as hours applied towards a double major.

Computer Skills Competency: 3 hours.
Prior to graduation, students must demonstrate basic computer skills competency. Currently approved courses are CGS 2060 (3) or CGS 2100 (3). Look for courses to be approved that include discipline-specific computer skills.

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course, like SPC 1017 or SPC 2608.

Minimum Program Requirements - Summary
Total Hrs. Required for Law Enforcement Operations: 120
Hours at admission: 60 (to include AA and/or 36 hours of Liberal Studies)
Major Coursework: 48
Electives: 12 electives
Minor Coursework: 0
* Computer Skills: 3
* Oral Competency: 0-3
Electives to bring total hours to 120

Total Hrs. Required for Police Science (AS to BS program): 130
Hours at Admission: 64 (to include 18 credits of Liberal Studies)
Liberal Studies: 18 to complete requirement
Major Coursework: 48
Minor Coursework: 0
* Computer Skills: 3
* Oral Competency: 0-3
Electives to bring total hours to 130

Total Hrs. Required for Law Enforcement Intelligence: 120
Hours at admission: 60 (to include AA and/or 36 hours of Liberal Studies)
Major Coursework: 48
Electives: 12 electives
Minor Coursework: 0
* Computer Skills: 3
* Oral Competency: 0-3
Electives to bring total hours to 120
* Students are encouraged to complete these requirements before entering the degree program.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. All students in this program are required to obtain certification in First Aid and CPR prior to internship.
**Employment Information**

**Representative Job Titles Related to this major:** Local, State, and Federal Law Enforcement Officers and Special Agents including such diverse specialties as: Air Marshall, Alcohol/Tobacco/Firearms Agent, FBI Special Agent, US Marshall, Border Patrol Agent, Conservation Officer, Criminal Investigator, Crime Scene Investigator, Intelligence Analyst, Secret Service Agent, Fish and Game Warden, Immigration Inspector, Medical Examiner Investigator, and Postal Inspector. Civilian opportunities include: Private Investigator, Private Security Agent, and Insurance Claims Adjuster.


Updated: Summer, 2013
REAL ESTATE
College: Business
Degree: B. S.
Limited Access: YES
Contact: College of Business Undergraduate Programs Office and Advising Center
Address: 328 Rovetta Business Building, FSU
Tallahassee, FL 32306-1110
Phone: (850) 644-3892
E-Mail: ugprog@cob.fsu.edu
Fax: (850) 644-7332

Description of Major
The Real Estate program involves a multidisciplinary approach to the production, financing, marketing, and consumption of the real estate product. Students are exposed to theoretical concepts from urban land economics, economics, consumer behavior, appraisal, investment analysis, and risk theory. Based on this background, the real estate process is analyzed. In addition, the Real Estate program develops a systematic methodology for investment and appraisal analysis within a framework that acknowledges the impacts of taxation, risk, financing structure, governmental constraints, and market context. This framework provides the basis for examining decisions involving real property investment from the developer, lender, and consumer perspectives. Computer applications are used within the curriculum to analyze actual cases.

In the first two years at FSU, students should take courses to complete the following four requirements: Liberal Studies (general education) requirements, Gordon Rule Writing requirement, Multicultural Course requirements, and Prerequisite Coursework requirements. Some courses may fulfill requirements in multiple areas. Electives in the first two years should focus on gaining additional exposure to the social and behavioral sciences, and on improving communication and analytical reasoning skills.

Prerequisite Coursework: 21 hours
The following courses must be completed with a C- or better:
ACG X021 (3) Introduction to Financial Accounting
ACG X071 (3) Introduction to Managerial Accounting
* CGS X518 (3) Spreadsheets for Business or CGS X100 (3) Microcomputer Apps. for Business
ECO X013 (3) Principles of Macroeconomics
ECO X023 (3) Principles of Microeconomics
MAC X233 (3) Calculus for Business & Non-Physical Sciences
STA X023 (3) Business Statistics
* Students taking CGS X100 or other approved course will also need to take CGS 2518 at FSU.
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Upper-Division Major
Admission to the limited access business programs requires the following: 1) completion of at least 52 semester hours; 2) a cumulative grade point average on all college work attempted of at least 2.90; and 3) satisfactory completion of all required prerequisite coursework.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 42-45 hours depending on whether CGS 2518 was taken as a prerequisite or not.
Courses taken at a Community College may not be substituted for 3000/4000 level courses.
Non-Business Required Course (0-3 hours)
CGS 2518 (3) Spreadsheets for Business
Lower-Division Requirement (3 hours)
This course is a Term 4 milestone. Transfer students must complete it in their first term of enrollment at FSU.
RMI 2302 (3) Risk in Business and Society
General Business Core Requirements for Real Estate majors (15 hours)
A grade of C- or better must be earned in each course.

BUL 3310 (3) The Legal and Ethical Environment of Business
FIN 3403 (3) Financial Management of the Firm
GEB 3213 (3) Business Communications
MAN 3240 (3) Organizational Behavior
MAR 3023 (3) Basic Marketing Concepts

**General Business Breadth Requirements for Real Estate Majors** (9 hours):
Each course selected must be completed with a grade of C- or better.
Complete the following two (2) courses:
REE 3043 (3) Real Estate
RMI 3011 (3) Risk Management/Insurance
Plus one (1) elective from the following list of courses:
FIN 3244 (3) Financial Markets, Institutions, and International Finance Systems
ISM 3003 (3) Foundations of Management Information Systems
MAN 3600 (3) Multinational Business Operations
MAN 4720 (3) Strategic Management and Business Policy
MAR 3400 (3) Professional Selling
QMB 3200 (3) Quantitative Methods for Business Decisions

**Major Area Requirements for Real Estate Majors** (15 hours):
Majors must complete the five courses listed below with a grade of C- or better to satisfy the major area requirements.
REE 4103 (3) Real Estate Valuation
REE 4143 (3) Real Estate Market Analysis
REE 4204 (3) Real Estate Finance
REE 4313 (3) Real Estate Investment
REE 4433 (3) Legal Environment of Real Estate

**Computer Skills Competency:** 0 hours beyond prerequisites. CGS 2100 (3) or CGS 2518 (3).

**Oral Communication Competency:** 0 hours beyond other requirements
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. Business majors take GEB 3213.

**Minimum Program Requirements - Summary**
Total Hours Required 120
Liberal Studies 36*
Prerequisite Coursework 21*
Major Coursework 42-45
Minor Coursework 0
Computer Skills 0 beyond prerequisites
Oral Competency 0 beyond other requirements
Electives to bring total hours to 120 (must complete at least 60 hours outside of business)
*Some Prerequisite courses may also be counted as part of Liberal Studies.

**Remarks:**
1. Must complete at least 60 hours outside of business.
2. A minimum of 45 hours at the 3000 level or above, at least 30 of which must be taken at this University.
3. At least half of the major course semester hours must be completed in residence at this University. After enrolling at this University, all remaining major course requirements must be completed at this University.
4. The final 30 hours must be completed in residence at this University.

**Employment Information**
**Representative Job Titles Related to this Major:** Financial Counselor, Marketing Research Director, Investment Analyst, Property Manager, Mortgage Loan Officer, Syndicator, Mortgage Broker, Appraiser, Subdivider, Mortgage Banker, Portfolio Manager, Developer, Real Estate Salesperson, Real Estate Counselor, Real Estate Broker.

**Representative Employers:** Real Estate Developers, Accounting Firms, Credit Unions, Financial Institutions, Government Agencies, Commercial Banks, Savings & Loans, Property Management Firms, Mortgage Brokers, Real Estate Brokers, Real
Estate Research Corporations, Life Insurance Companies, Self Employment, Real Estate Investment Trusts, Appraisal Firms, Mutual Savings Banks, Pension Fund Trusts.

Updated: Summer, 2013
RECREATION, TOURISM AND EVENTS (Panama City Campus)
College: Applied Studies
Degree: B. S.
Limited Access: No
Contact: Dr. John Crossley, Program Coordinator
Address: 4750 Collegiate Drive (Panama City Campus)
          Panama City, FL 32405-1099
Phone:   (850) 770-2239
E-mail:  jcrosluy@pc.fsue.edu

Description of Major
The Recreation, Tourism and Events program offers courses leading to the Bachelor of Science degree. Professionals in this field manage facilities, programs, and services that enrich people’s lives though high quality and memorable leisure time experiences. Leisure activities are an integral part of people’s lifestyles and billions of dollars are spent annually on recreation programs and facilities in public, private, and nonprofit recreation agencies and businesses. Consequently there is a need for qualified professionals to manage programs, facilities, and services in various agencies and businesses. This is a service oriented career in which professionals work with people of all ages, backgrounds, and those with special needs. To succeed in this field one should value recreation and leisure services, have organization skills, initiative and energy, and enjoy working with people.

Prerequisite Coursework: 3 hours
The following course must be completed in preparation for the upper-division major.
CGS X060 or CGS X100 (3) Computer literacy
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for Progression to the Upper-Division Major
To be admitted to this program, students must have completed an Associate of Arts (AA) degree from a Florida public institution or have completed at least 52 hours of coursework, including six (6) hours of Freshman English Composition, six (6) hours of college-level math, and no more than six (6) hours remaining of the Liberal Studies (general education) requirements. Students must also have completed CGS X060 or CGS X100.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 60 hours
All students in this program are required to earn a C- or better in required coursework, and obtain certification in First Aid and CPR prior to internship.
Professional Course Requirements (28 hours)
LEI 3004 (3) Introduction to Recreation
LEI 3312 (3) Introduction to Special Events
LEI 3420 (3) Recreation Activities Leadership
LEI 3435 (3) Recreation Program Design
LEI 3843 (3) Commercial Recreation and Tourism
LEI 4551 (3) Administration of Leisure Systems
LEI 4524 (3) Leadership and Supervision in Leisure Systems
LEI 4602 (3) Planning and Maintenance of Facilities
LEI 4881 (3) Assessment, Research and Evaluation
LEI 4930 (1) Senior Seminar
Experiential Courses (17 hours)
LEI 4921A/4921B (1, 1) Field Work in Leisure
LEI 4940 (15) Internship in Leisure Services
Major Specialization Courses (15)
15 hours of major specialization courses must be taken from the approved list provided to students upon program admission.

Computer Skills Competency: CGS 2060 (3) or CGS 2100 (3)

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course, like SPC 1017 or SPC 2608.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36
Major Coursework 60
Gen. Program Prerequisite 3-4
Minor Coursework 0
Computer Skills 0 beyond prerequisite courses
Oral Competency 0-3
Electives to bring total hours to 120

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. All students in this program are required to obtain certification in First Aid and CPR prior to internship.

Employment Information
Representative Job Titles Related to this Major: Recreation Director, Special Events Manager, Guest Services Director, Sports Supervisor, Cultural Arts Supervisor, Recreation Program Director, Recreation Supervisor, Campus Recreation Director, Facility Manager, Executive Director, Aquatic Supervisor, Tour Director.

Representative Employers: public recreation and park agencies, nonprofit community organizations, event management companies, commercial recreation businesses, employee recreation programs, armed forces recreation, private clubs, destination resorts and hotels, colleges and universities, sports management organizations, tourism agencies, resort and retirement communities.

Updated: Summer, 2013
RELIGION
(RELIGION and RELIGION-CLASSICS)
College: Arts and Sciences
Degree: B. A.
Limited Access: NO
Contact: Dr. Joseph Hellweg
Address: M04a Dodd Hall
         Tallahassee, FL 32306-1520
Phone: (850) 644-1020

Description of Major
The Florida State University Department of Religion is one of the largest university departments of religion in the southeast and has the most extensive graduate program in religious studies in Florida. It is committed to the scholarly investigation of religious phenomena and traditions within the context of a pluralistic culture. The Religion curriculum is divided into four areas of study: Religions of Western Antiquity, Asian Religions, American Religious History, and Religion, Ethics, and Philosophy. The department offers a program of honors work in the junior and senior years for both religion and non-religion majors. There is a joint major option available in Religion and Classics and the department participates in the interdepartmental programs in American Studies, Asian Studies, Humanities, and Women’s Studies.

Prerequisite Coursework: None.
However, students are encouraged to complete several courses with the REL prefix during their freshman/sophomore years.
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Requirements for Progression to the Upper-Division Major
To be admitted, students must complete at least 52 hours of credit with an adjusted GPA of 2.0 on FSU coursework, and at least half the required hours in Liberal Studies, including freshman English composition and mathematics, or an AA.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Programs of Studies at FSU
Religion Major: 30 hours
The major in Religion requires a minimum of 30 hours in religion courses. For purposes of the major, Religion courses are divided into the following three distribution areas: Western; Asian or African; and Issues and Approaches. Majors must take at least one course in each of the areas. In addition, at least six courses must be at the 3000/4000 level. Finally, majors must take REL 4044 (Majors Colloquium: “What is Religion”), in addition to one course with a seminar-style format. Courses in which the student receives a grade below C- will not be counted toward the major. Majors must also complete a minor in another department.

Religion - Classics Joint Major: 45 hours
A student interested in studying both Religion and Classics may elect the Religion-Classics joint major. A minimum of 18 hours is required in each department. A minor is not required. See Dr. David Levenson (314 Dodd Hall; 644-0212) for specific requirements.

Minor Coursework: Required for Religion but not Religion-Classics. 12 hours from one minor department, 15 hours for an interdisciplinary minor, or requirements as stated by the minor area.

Computer Skills Competency: CGS 2060 (3) or CGS 2100 (3).
Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36*
Major Coursework 30 (Religion) or 45 (Religion-Classics)
Minor Coursework 12 (Religion), 0 (Religion-Classics)
Foreign Language 0-12 (depending on placement)
Computer Competency 3
Oral Competency 0-3
Electives to bring total hours to 120
*NOTE: 3 hours (one course) of major coursework may also be used to partially satisfy Liberal Studies (Humanities) requirements.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: High School Teacher, Protestant Minister, Social Worker, Roman Catholic Priest, Lawyer, Brother or Nun, Youth and Children’s Worker, Military Chaplain, Rabbi, Pastoral Counselor, Religious Education Director, Salesperson, Manager, Management Trainee, Minister of Education, Public Administrator, Administrator of Church or Synagogue, Campus Minister, Boards and agencies.


Updated: Summer, 2013
Description of Major
The Retail Merchandising and Product Development major (RMPD) prepares men and women for executive training programs and other entry-level positions in retail merchandising and product development within a diverse range of retail and retail-related businesses. The industry-savvy RMPD curriculum produces highly marketable graduates able to contribute immediately to the successful management and operations of retail and retail-related companies whether through corporate operations, the product development function, or store operations. The curriculum places a strong emphasis on industry-relevant technology, including product development and merchandising software, and professional experience through a required internship.

Courses in the Retail Merchandising and Product Development curriculum include content related to merchandising strategy, consumer behavior, design principles, forecasting, buying, sourcing, planning, allocating, distribution, inventory management, store organization, visual merchandising, and sales. Emphasis is placed on soft goods and fashion-driven products.

Prerequisite Coursework:
Students must complete the following prerequisites required in preparation for the upper division major. All prerequisite courses must be completed with C or higher. Students are encouraged to contact the department with questions about completing these requirements.

ACG X021 (3) Introduction to Financial Accounting
CGS X060 (3) Computer Literacy or CGS X100 (3)
* CTE X401 (3) Introductory Textile Science
ECO X013 (3) Principles of Macroeconomics
ECO X023 (3) Principles of Microeconomics
* FAD X230 (3) Family Relations
PSY X012 (3) General Psychology or SYG X00 (3) Intro. to Sociology or SYG X010 (3) Social Problems
MAC X105 (3) College Algebra or MGF 1106 (3) Math for Liberal Arts I or MGF 1107 (3) Math for Liberal Arts II
* Transfer students may complete these courses after they have enrolled at FSU.

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for Progression to the Upper-Division Major
Students must complete at least 52 hours of coursework with an adjusted FSU GPA of 2.0 and at least half the hours required in Liberal Studies, including freshman English composition and mathematics, or an A.A. degree. Students must also have completed Liberal Studies coursework specifically required for the major and ACG 2021 with grades of C or better.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. The map for this major may be found at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 59 hours
Students must complete requirements in place at the time they enter the major. As advising is critical to successful program completion students should consult with a departmental advisor as early as possible. All required coursework listed below, including electives, must be completed with a grade of C or higher. An internship is required to complete this program (please see “INTERNSHIP BLOCK” below for details on the internship and internship application requirements). An FSU cumulative GPA of 2.0 is required for graduation.

College Core (6 hours)
FAD 2230 (3) Family Relationships, and
Select one course (3 hrs.) from the following:
CTE 3808 (3) Consumers in a complex Marketplace  
CTE 3512 (3) History of Dress  
COA 4131 (3) Family Financial Analysis  
HME 4221 (3) Family Resource Management  
All of the following major courses (50 hours)  
CTE 1401C (4) Introductory Textile Science, Lab  
CTE 2800 (3) Textile, Apparel, and Retail Industry Analysis  
CTE 3201 (3) Visual Design  
CTE 3431 (3) Textile Product Development  
CTE 3763 (3) Product Analysis and Costing  
CTE 3806 (3) Merchandising Principles  
CTE 3809 (3) Trend Analysis and Forecasting  
CTE 3835 (3) Merchandise Presentation and Inventory Analysis  
CTE 4433 (4) Quality Assurance for Textiles and Apparel  
CTE 4822 (3) Quantitative Merchandising Management  
CTE 4829 (3) Global Sourcing  
* CTE 4811 (3) Retail Merchandising Planning Strategies (Intern Block)  
* CTE 4826 (3) Merchandising Buying (Intern Block)  
* CTE 4866 (3) Executive Perspectives on Retail Management (Intern Block)  
* CTE 4882 (6) Professional Internship (Intern Block)  
Other Requirements (3 hours)  
MAR 3023 (3) Principles of Marketing  
* INTERNSHIP BLOCK- In order to intern, students must complete a valid online application for the internship, have 90 hours of coursework, have all specified Liberal Studies courses, ACG 2021, MAR 3023, and achieve a C or higher in all specified major courses. Students submit the online application to intern a year in advance and must have a 2.5 overall GPA to apply. An overall GPA of 2.5 is required to take CTE 4822 and the internship block courses.

**Computer Skills Competency:** CGS 2060 (3) or CGS 2100 (3).

**Oral Communication Competency:** 0-3 hours  
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

**Minimum Program Requirements - Summary**  
Total Hrs. Required 120  
Liberal Studies 36*  
Prerequisites 0-6 beyond Liberal Studies or major coursework  
Major Coursework 59  
Minor Coursework 0  
Computer Skills 3  
Oral Competency 0-3  
Electives to bring total hours to 120  
*Note: RMPD majors should select ECO 2013, ECO 2023, and one of PSY 2012/SYG 1000/SYG 2010 to fulfill the Social Science area, and two of the following to fulfill the requirement for Mathematics: MAC 1105, MGF 1106, MGF 1107, STA 1013, or STA 2023 (MAC 1105 and STA 2023 are strongly preferred).

**Remarks:**  
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.  
2. Half of the major course semester hours must be completed in residence at this University.  
3. The final 30 hours must be completed in residence at this University.

**Employment Information**  
Representative Job Titles: Executive, Trainee or entry-level Manager leading to a variety of positions including: Department Manager, Asst. Store Manager, District or Regional Manager, Assistant Buyer, Buyer, Quality Assurance Assistant, Quality Assurance Manager, Product Development Assistant, Product Development Manager, General Merchandise Manager, Divisional Merchandise Manager, Assistant Planner, Planner, Assistant Allocator, Allocator, Vendor Representative,
Salesperson, Visual Merchandising Manager, Advertising Manager, Sales Promotion Manager, Distribution Center Manager, Recruiter, Trainer, Human Resource Manager, College Relations Manager.


Updated: Summer, 2013
RISK MANAGEMENT AND INSURANCE
College: Business
Degree: B. S.
Limited Access: YES
Contact: College of Business Undergraduate Programs Office and Advising Center
Address: 328 Rovetta Business Building, FSU
P.O. Box 3061110
Tallahassee, FL 32306-1110
Phone: (850) 644-3892
E-Mail: ugprog@cob.fsu.edu
Fax: (850) 644-7332

Description of Major
The program in Risk Management/Insurance permits the student to specialize in insurance-related studies. The field of insurance offers the student challenging work and diverse opportunities for non-sales careers of many types as well as providing protection to individuals, groups and industry. The program emphasizes corporate insurance and related products. The Risk Management/Insurance degree program is designed to meet the academic needs of the professional insurance and risk management practitioner. The objective of the curriculum in risk and 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 are placed in proper perspective as parts of a broad business management curriculum.

In the first two years at FSU, students should take courses to complete the following four requirements: Liberal Studies (general education) requirements, Gordon Rule Writing requirement, Multicultural Course requirements, and Prerequisite Coursework requirements. Some courses may fulfill requirements in multiple areas. Electives in the first two years should focus on gaining additional exposure to the social and behavioral sciences, and on improving communication and analytical reasoning skills.

Prerequisite Coursework: 21 hours.
The following courses must be completed with a C- or better:
ACG X021 (3) Introduction to Financial Accounting
ACG X071 (3) Introduction to Managerial Accounting
* CGS X518 (3) Spreadsheets for Business or CGS X100 (3) Microcomputer Apps. for Business
ECO X013 (3) Principles of Macroeconomics
ECO X023 (3) Principles of Microeconomics
MAC X233 (3) Calculus for Business & Non-Physical Sciences
STA X023 (3) Business Statistics
* Students taking CGS X100 or other approved course will also need to take CGS 2518 at FSU.
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Upper-Division Major
Admission to the limited access business programs requires the following: 1) completion of at least 52 semester hours; 2) a cumulative grade point average on all college work attempted of at least 2.90; and 3) satisfactory completion of all required prerequisite coursework.

Mapping. Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/

Major Program of Studies at FSU: 45-48 hours depending on if CGS 2518 was taken as a prerequisite course or not.
Courses taken at a Community College may not be substituted for 3000/4000 level courses.
Non-Business Required Course (0-3 hours)
CGS 2518 (3) Spreadsheets for Business
Lower-Division Requirement (3 hours)
This course is a Term 4 milestone. Transfer students must complete it in their first term of enrollment at FSU.
RMI 2302 (3) Risk in Business and Society
General Business Core Requirements for Risk Management/Insurance majors (15 hours):
A grade of C- or better must be earned in each course.
BUL 3310 (3) The Legal and Ethical Environment of Business
FIN 3403 (3) Financial Management of the Firm
GEB 3213 (3) Business Communications
MAN 3240 (3) Organizational Behavior
MAR 3023 (3) Basic Marketing Concepts

General Business Breadth Requirements for Risk Management/Insurance Majors (9 hours):
Each course selected must be completed with a grade of C- or better.
Complete the following two (2) courses:
REE 3043 (3) Real Estate
RMI 3011 (3) Risk Management/Insurance
Plus one (1) elective from the following list of courses:
FIN 3244 (3) Financial Markets, Institutions, and International Finance Systems
ISM 3003 (3) Foundations of Management Information Systems
MAN 3600 (3) Multinational Business Operations
MAN 4720 (3) Strategic Management and Business Policy
MAR 3400 (3) Professional Selling
QMB 3200 (3) Quantitative Methods for Business Decisions

Major Area Requirements for Risk Management/Insurance Majors (18 hours):
All risk management/insurance majors must complete the six courses listed below. A grade of C- or better must be earned in each course used to satisfy the risk management/insurance major area requirements.
Complete all of the following:
RMI 4115 (3) Life and Health Insurance Products
RMI 4224 (3) Property and Casualty Insurance Products
RMI 4292 (3) Property and Casualty Insurance Operations
RMI 4347 (3) Commercial Risk Management
Plus two (2) electives from the following list of courses:
RMI 4135 (3) Employee Benefit Plans
RMI 4295 (3) Advanced Property and Liability Insurance
RMI 4308 (3) Wealth Management
RMI 4420 (3) Legal Aspects of Insurance
RMI 4941 (3) Risk Management/Insurance Internship
Students should consult with their advisor when selecting major area electives.

Computer Skills Competency: 0 hours beyond prerequisites. CGS 2100 (3) or CGS 2518 (3).

Oral Communication Competency: 0 beyond major requirements.
Students must demonstrate the ability to orally transmit ideas and information clearly. Business majors complete GEB 3213.

Minimum Program Requirements - Summary
Total Hours Required 120
Liberal Studies 36*
Prerequisite Coursework 21*
Major Coursework 45-48
Minor Coursework 0
Computer Skills 0 beyond prerequisites
Oral Competency 0 beyond major
Electives to bring total credits to 120 (must complete at least 60 hours outside of business)
*Some Prerequisite courses may also be counted as part of Liberal Studies.

Remarks:
1. Must complete at least 60 hours outside of business.
2. A minimum of 45 hours at the 3000 level or above, at least 30 of which must be taken at this University.
3. At least half of the major course semester hours must be completed in residence at this University. After enrolling at this University, all remaining major course requirements must be completed at this University.
4. The final 30 hours must be completed in residence at this University.
Employment Information

Representative Job Titles Related to this Major: Insurance Adjuster, Marine Insurance Specialist, Underwriter, Claims Representative, Loss Prevention Engineer, Risk Manager, Insurance Agent or Broker, Attorney Claims, Actuary, Financial Counselor, Field Representative, Appraiser.

Representative Employers: Insurance Companies or Agencies, State Regulatory Agencies, Risk Management and Employee Benefits Firms, Consulting Actuarial Firms.

Updated: Summer, 2013
RUSSIAN AND EAST EUROPEAN STUDIES
College: Social Sciences and Public Policy
Degree: B. A. or B.S.
Limited Access: NO
Contact: Dr. Lee Metcalf; Dr. Joanna Hunt
Address: 211 Bellamy Building, FSU
Tallahassee, FL 32306-2161
Phone: (850) 644-4418
E-Mail: jchunt@fsu.edu

Description of Major
The undergraduate program in Russian and East European Studies is designed for: 1) general liberal arts students who wish to learn more about the language, history, culture and the contemporary political and economic setting of a particular country or cultural region within the area of Russia and Eastern Europe; 2) students who wish to pursue graduate work in this field; and 3) students who seek employment in or relating to Russia and Eastern Europe. Instead of specializing in one academic discipline, Russian and East European majors become acquainted with different disciplines and apply themselves to one area. As this program is interdepartmental in nature, students take courses in anthropology, art, economics, geography, history, humanities, philosophy, political science, religion, sociology and languages.

Prerequisite Coursework: None.
There is no prerequisite coursework for the major, but students are encouraged to take lower level introductory courses in some of the related disciplines. Such courses serve as background for the major and may meet prerequisites for more advanced courses in the major. Students are encouraged to begin study in a relevant area language and to take any culture or history courses that relate to Russia and Eastern Europe.

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for Progression to the Upper-Division Major
To be admitted, students complete at least 52 hours of credit with a minimum FSU GPA of 2.0 and most of the Liberal Studies requirements met, including freshman English composition and mathematics, or an A.A. Degree.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 36 hours
In consultation with a program advisor, students majoring in Russian and East European Studies construct their programs of study around three components. The three components are:
1) Area Specific Courses (24 hours)
Students select a minimum of 24 hours of coursework from the approved list of area specific courses.
2) Comparative Concepts and Theories Courses (6 hours)
Students select a minimum of 6 hours from the approved list of concepts and theories courses. These should be selected in consultation with their advisor.
3) Additional Russian and East European Studies Courses (6 hours)
Students select 6 additional hours of courses, in consultation with their advisor, from the approved “Area Specific” and “Comparative Concepts and Theories” lists.
(The approved lists may be found at http://www.coss.fsu.edu/russia/content/approved-course-list.)

Foreign language requirement: 0-12 hours
All students are required show proficiency or complete coursework through the intermediate level in a relevant area language (Russian, German, Czech, Serbo-Croatian or other approved East European language). Students are encouraged to bring their chosen language up to an effective level of proficiency in both reading and speaking by either taking additional coursework on the Florida State campus or by participating in a semester or summer abroad program that is administered by, affiliated with, or approved by Florida State in their relevant cultural area as such programs become available. To encourage language proficiency,
language coursework taken beyond the 12 hour minimum intermediate level may be counted towards the required 36 hours for the major.

**Minor:** A minor is not required.

**Computer Skills Competency:** CGS 2060 (3) or CGS 2100 (3).

**Oral Communication Competency:** 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

**Minimum Program Requirements - Summary**
- Total Hrs. Required: 120
- Liberal Studies: 36*
- Major Coursework: 36*
- Minor Coursework: 0
- Foreign Language: 0-12 (depending on placement)
- Computer Skills Competency: 3
- Oral Competency: 0-3
- Electives to bring total hours to 120

*Courses/hours taken to meet Liberal Studies or AA requirements may not also be used to fulfill the 36 hours of major coursework required in Russian and East European Studies.

**Remarks:**
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. Students who plan to earn the B.A. degree must complete a foreign language through the intermediate (2200 or equivalent) level and nine additional hours in the fields of history and humanities.

**Employment Information**

- **Representative Job Titles Related to this Major:** Foreign Service Specialist, Intelligence Specialist, Teacher, Journalist, Import/Export Trade Specialist. Graduates of the Russian and East European Studies program are prepared for work similar to those in the broad field of International Affairs, but obviously in a specialized area. Government, Teaching, and Business are the primary employers.


**Updated:** Summer, 2013
SOCIAL SCIENCE, INTERDISCIPLINARY PROGRAM IN
College: Social Sciences and Public Policy
Degree: B. A. or B. S.
Limited Access: NO
Contact: Dr. Robert Crew
Address: 211 Bellamy Building, FSU
Tallahassee, FL 32306-2161
Phone: (850) 644-4418
E-Mail: bcrew@coss.fsu.edu

Description of Major
The Interdisciplinary Program in Social Science is designed to provide a broad background for understanding public affairs and an education for useful citizenship in the American democracy. It is flexible so that students may pursue their own individual specialized and pre-professional interests. Special interdisciplinary concentrations in urban studies, public service, law and society, and environmental studies are offered.

Internet Supported Distance Learning
A bachelor’s degree program is available that enables students with an A.A. Degree to earn an FSU degree without moving to Tallahassee. To be admitted, students must also have completed the University’s Oral Communication Competency requirement and the Computer Skills Competency requirement. Due to limited course availability, it is strongly suggested that students complete 9 semester hours in one of the participating Social Science disciplines, other than Sociology, prior to admission. Instruction is delivered via the web and textbooks. FSU provides an assigned mentor to serve as a learning guide. Students interact with each other, their mentors, and their instructors via e-mail and Web-based discussion groups. For more information, visit http://online.fsu.edu/ or contact Online Degree Programs, (850) FLSTATE.

Prerequisite Coursework:
XXX XXXX (6) Two introductory courses in a social science discipline. (Examples: Anthropology, Economics, Geography, History, Political Science, Public Administration, Sociology, and Urban and Regional Planning.)
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for Progression to the Upper-Division Major
Students must complete at least 52 hours of credit with a minimum FSU GPA of 2.0 and most of the Liberal Studies requirements met, including freshman English composition and mathematics, or an A.A. Degree.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 42 hours
Participating departments include: Anthropology, Economics, Geography, History, Political Science, Public Administration, Sociology, and Urban and Regional Planning. Up to 9 of the required 42 hours may also apply to Liberal Studies. Work must be taken in at least 3 departments, and 21 hours must be taken in courses numbered above 2999. A minimum cumulative GPA of 2.0 on all coursework applied to the major must be maintained.

Interdisciplinary Social Science, General Option (42 hours)
Students must have:
1. a primary concentration of 18 hours in one department
2. a secondary concentration of 12 hours in another department, and
3. the remaining 12 hours distributed among any of the remaining departments.
Alternatively, students may complete the requirements of special interdisciplinary concentrations in Law and Society, Public Service, Urban Studies, or Environmental Studies. For further details, speak with an advisor.

Law and Society Concentration (42 hours)
POS 3691 (3) Introduction to Law and Society
ECP 3451 (3) Economics and the Law OR SYP 3540 (3) Sociology of Law
Four additional courses (12 hours) selected from an approved list.
Two twelve-hour secondary concentrations, one of which must be economics, political science, or sociology.

Urban Studies Concentration (42 hours)
This concentration entails a required set of six courses as the primary concentration and two twelve-hour concentrations chosen from a list of four.

Public Service Concentration (42 hours)
Six courses will be chosen from an approved list of political science and public administration courses. The concentration also requires a secondary concentration of four approved courses in sociology; the remaining courses will be chosen from another approved list including courses from at least two departments.

Environmental Studies Concentration (42 hours)
This concentration requires six courses selected from the approved Environmental Studies list and a secondary concentration of six courses selected from one of the participating departments. The remaining two courses may be selected from any of the participating departments other than the one used for the secondary concentration. Contact an advisor for more information.

Minor: Neither a minor nor additional coursework is required, although a minor or second major is strongly encouraged. A maximum of 12 hours used for the ISS major may also apply toward a second social science major.

Computer Skills Competency: CGS 2060 (3) or CGS 2100 (3).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36*
Major Coursework 42*
Minor Coursework 0
Computer Skills 3
Oral Competency 0-3
Electives to bring total hours to 120

*NOTE: 9 hours of courses may be used to satisfy both the major and Liberal Studies requirements in History and Social Science, provided courses are selected from participating departments.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. Students who plan to earn the B. A. degree must complete both a foreign language through the intermediate (2200 or equivalent) level and nine additional hours in the fields of history and humanities.

Employment Information
Representative Job Titles Related to this Major: Social Studies Teacher, Management Trainee, Legislative Aid/Analyst, Research Analyst, Probation Officer, Public Administrator, Assistant Planner, Federal Service Worker, Agencies and government.

Representative Employers: Public School Systems, Federal Agencies, City Planning Departments, Large Corporations, County Planning Departments, State Agencies (examples: Division of Youth Services, Div. of Family Services, Dept. of Natural Resources).

Updated: Summer, 2013
SOCIAL SCIENCE EDUCATION
College: Education
Degree: B. S.
Limited Access: YES
Contact: Advisor
Address: 2301 Stone Bldg., FSU
Tallahassee, FL 32306-4459
Phone: (850) 644-3760
E-Mail: rbirken@fsu.edu or dfunk@fsu.edu

Description of Major
Social Science Education is a teacher preparation program designed to prepare personnel to teach history and social science in grades 6-12. The program includes coursework in various social science and humanities areas, as well as coursework in teaching methodology. The capstone of the program is the student teaching experience (internship) during the final semester.

Prerequisite Coursework: 21 hours
Pre-education Core (9)
All are also included in major coursework.
EDF X005 (3) Introduction to Education
* EDF X085 (3) Teaching Diverse Populations
EME X040 (3) Introduction to Educational Technology
*In addition to EDF X085, the student must take 6 hours with an international or diversity focus. Eligible courses will be determined by the institution where the student is earning his/her associate in arts (AA) or baccalaureate degree. Foreign language courses may be used to meet this requirement.
Social Science Ed. Program Prerequisites (12 hours).
Courses may also satisfy the general education (Liberal Studies) requirement.
AMH X010 (3) History of the United States through the Civil War
AMH X020 (3) History of the United States since the Civil War
POS X041 (3) American Government
One Course (3) with the one of the following prefixes: ECO or SOC or ANT or PSY or GEA.

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Upper-Division Major
Students seeking admission to teacher education must meet the following requirements:
1. Meet the general criteria for transfer into an FSU degree-granting program (see Bulletin),
2. Complete General Ed/Liberal Studies requirements or an A.A. degree with a grade of C- or higher in each freshman English and each basic mathematics course
3. Complete the Social Science Ed. Program Prerequisites listed above with grades of C- or higher
4. Complete the Pre-education core listed above with grades of C- or higher
5. Achieve a passing score on each section of the General Knowledge portion of the FTCE, and
6. Achieve an overall 2.5 GPA minimum.
7. Students are required to be fingerprinted and pass a security clearance prior to admission to the major program of studies.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 69 hours beyond prerequisites
An overall GPA of 2.5 is required for all courses in this area and for admission to the teaching methods courses. Program completion includes passing the basic skills, professional knowledge, and subject area tests that are required for teacher certification in the state of Florida. Certification to teach in Florida requires a minimum 2.5 GPA in the field of specialization.
NOTES:
• 12 hrs. of the following courses meet the Program Prerequisites and are not included in Major Coursework total hrs.
• Students should work closely with a program advisor in planning their programs of study.
• A minimum grade of C or better must be earned in all Social Science core courses.

Social Science Core (39 hours)
1. Economics: 6 hours (ECO 2013, ECO 2023)
2. Geography: 3 hours
3. American Government: 3 hours
4. American History: 9 hours (AMH 2010, AMH 2020 and one course at the 3000/4000 level)
5. World/European History: 9 hours (WOH 1023, WOH 1030 and one World or European history course at the 3000/4000 level)
6. Three (3) hours of a non-American & non-European history at the 3000/4000 level.
7. Six (6) hours of history courses at the 3000/4000 level

Teaching methods and student teaching (30 hours)
EDG 4301 (3) Foundations of Teaching
SSE 4194 (3) Developing a Global Perspective
SSE 4362 (3) Fundamentals in Teaching Social Studies
SSE 4664 (3) Inquiry in Teaching Social Studies
SSE 4940 (3) Field Study in Social Education
SSE 4944 (15) Student Teaching in Secondary School Social Studies

Other required coursework: (12 hours)
EDF 4210 (3) Educational Psychology for Developmental Learners.
EDF 4430 (3) Classroom Assessment
RED 4335 (3) Teaching Reading in the Content Area
TSL 4324 (3) ESOL Instruction in the content area

The Methods Block should be taken during Fall Term prior to the internship (student teaching) in the Spring Term. To successfully complete student teaching, students must present evidence of satisfactory performance on the State of Florida certification tests. Limited placements for student teaching are available outside of Area I (Leon County) and adjacent counties. Students will be placed in areas in Florida in clusters to ensure supervision consistent with available resources.

Computer Skills Competency: EME 2040 (3).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. SPC 1017 or SPC 2608 are preferred.

Minimum Program Requirements - Summary

Total Hrs. Required 120
Liberal Studies 36*
Pre-education Core 9
Program Prerequisite Coursework 12*
Major Coursework 69
Computer Skills 0 beyond Pre-education Core
Oral Competency 0-3
Electives to bring total hours to 120

NOTE: Up to 12 hours of Social Science Ed. Program Prerequisite coursework may also be applied to Liberal Studies (general education). Though listed with Major Coursework, Program Prerequisite coursework does not count toward the Major Coursework total hours. Students must work closely with a program advisor in planning their program. One natural science course must include laboratory.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. 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.
Employment Information

Representative Job Titles Related to this Major: Teacher of Social Science - Junior/Middle High or High School, Overseas Teacher, Reporter, Law Enforcement Officer.


Updated: Summer, 2013
Description of Major
The primary mission of the social work profession is to enhance the quality of life for people in a wide variety of circumstances. The majority of social workers work directly with individuals, groups, and families, providing counseling services and case management. Social workers also can serve as advocates, community organizers, social planners, and policymakers in helping to bring about social change and social justice. Career options include the field of family services, mental health care, child welfare, aging, health care, women’s services, chemical dependency, corrections, community organizing, advocacy, and social policy. The undergraduate curriculum is designed to prepare students for beginning professional practice and for graduate study in social work and other helping professions. Social work is also an excellent major for students interested in being a therapist or going to law school. The undergraduate social work program includes human behavior, interviewing skills, assessment, social policy, research, and group work.

Prerequisite Coursework: 15 hours
Prerequisite courses may also apply toward meeting Liberal Studies/General Education requirements. In addition, students should complete their computer literacy requirement prior to admission (CGS 2060 or 2100). Students must complete one course in each of the following groups with a grade of B- or higher in two attempts or fewer.
- POS X041 (3) American National Government (preferred) or POS X042 (3) or PUP X099 (3)
- BSC X005 (3) General Biology for non-majors (preferred) or BSC X010 (3) or BSC X085 (3) or PCB X099 (3)
- ECO X000 (3) Introduction to Economics or ECO X023 (3)
- PSY X012 (3) General Psychology (preferred) or PSY X020 (3)
- SYG X000 (3) Introductory Sociology or SYG X010 (3)
If you have any questions about prerequisite courses, please contact the BSW office, 850.644.5713.

Admission Requirements to the Upper-Division Major
This is a limited access major. The following requirements apply to students entering FSU spring 2013 and after:
1) an application, an updated resume, and a personal statement, 2) an overall GPA of 2.5 or higher, 3) at least 60 credits earned by the time of entry into the program to include all FSU Liberal Studies or an AA from a Florida public college, and 4) all five of the common perquisite courses with a B- or higher. Prospective students will find the BSW application online at http://csw.fsu.edu/academics/bachelor-of-social-work/admissions-information/. Applications are considered on a rolling admission basis with the following deadlines: Fall Term—July 1 and Spring Term—November 1.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 50 hours
In order to graduate, students must have a 3.0 GPA in all social work courses and successfully complete Field Instruction.
- SOW 1054 (1) Human Service Experience
- SOW 3203 (3) Introduction to Social Work and Social Welfare
- SOW 3350 (3) Interviewing and Recording
- SOW 4104 (3) Human Behavior in the Social Environment
- SOW 4232 (3) Policies and Programs in Social Welfare
- SOW 4323 (3) Theory and Practice in Group Work
SOW 4341 (4) Social Work Practice I
SOW 4360 (3) Social Work Practice II
SOW 4403 (3) Introduction to Social Work Research
SOW 4414 (3) Statistics for Social Workers
SOW 4620 (3) Diversity in Social Work Practice
SOW XXX (3) Social Work Elective
SOW 4522 (3) Integrative Seminar
SOW 4510 (12) Field Instruction (Internship)

Computer Skills Competency: CGS 2060 (3), CGS 2100 (3), or BSC 2010L (1).

Oral Communication Competency: 0 beyond major coursework
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. Social Work students take SOW 3350.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36*
Prerequisite Courses 15*
Major Coursework 50
Minor Coursework 0
Computer Skills 3
Oral Competency 0 beyond major coursework
Electives to bring total credits to 120

*NOTE: The Liberal Studies requirements must be completed prior to admission into the Social Work program. Students may use required prerequisite/cognate courses to satisfy up to 12 hours of Liberal Studies requirements.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Counselor, Social Worker, Medical Social Worker, Youth Services Worker, Geriatric Case Manager, Substance Abuse Counselor, Community Organizer, Policy Analyst, Social Services Coordinator, Rehabilitation Counselor.

Representative Employers: Mental health centers, schools, hospitals, rehabilitation centers, domestic violence shelters, adolescent programs, psychiatric facilities, children’s agencies, correctional facilities, and public and private agencies.

Updated: Summer, 2013.
**SOCILOGY**

College: Social Sciences and Public Policy  
Degree: B. S. or B.A.  
Limited Access: No  
Contact: Dr. Annette Schwabe  
Address: 526 Bellamy Building, FSU  
Tallahassee, FL 32306-2270  
Phone: (850) 644-4456  
E-Mail: aschwabe@fsu.edu

**Description of Major**

Simply stated, Sociology may be defined as the study of human groups and social life, ranging from the nuclear family to different types of society, from crime to religion, from the division of race and class to the integrating symbols of culture, from the sociology of occupations to the sociology of sport. At Florida State courses are offered and research is carried out in diverse areas such as gender, race relations, social change, addiction, family interaction, and the political system. Few fields, in fact, have such broad scope, interest, and relevance.

**Prerequisite Coursework:** 6 hours  
Sociology majors should complete two lower-level courses (6 hrs) with the prefixes SYA, SYD, SYG, SYO, or SYP. These courses should be completed in the freshman/sophomore years and may also apply toward Liberal Studies and/or major coursework.  
**Note:** State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the "Common Prerequisites Manual." This is available from the “Student Services” section of http://www.flvc.org.

**Requirements for Progression to the Upper-Division Major**

Students must complete at least 52 hours of credit with a minimum FSU GPA of 2.0 and most of the Liberal Studies requirements, including freshman English composition and mathematics, or have an A.A. Degree.

**Mapping**

Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

**Major Program of Studies at FSU:** 30 hours  
SYG 1000, General Sociology, is recommended before taking other Sociology courses. Transfer students must earn a minimum of 15 hours in Sociology at FSU; transfer of required upper-level courses (SYA 4300, 4010, 4400) is subject to approval of the chairperson. A grade of C- or higher must be earned in each course.  
**Required coursework (9 hours)  
SYA 4010 (3) Sociological Theory  
SYA 4300 (3) Methods of Social Research  
SYA 4400 (3) Social Statistics  
**Additional Sociology coursework (21 hours)  
Additional coursework should be selected in consultation with an advisor.

**Minor Coursework:** 12 hours minimum  
Sociology majors must complete a minor in an approved department or interdisciplinary program, meeting the requirements set forth by that department. A minor will normally range from 12-18 credit hours. Completing a second major may be substituted for this requirement.

**Computer Skills Competency:** CGS 2060 (3) or CGS 2100 (3).

**Oral Communication Competency:** 0-3 hours  
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

**Minimum Program Requirements - Summary**
Min. Hrs. Required 120
Liberal Studies 36*
Major Coursework 30*
Minor Coursework 12
Computer Skills 3
Oral Competency 0-3
Electives to bring total hours to 120

*Some Sociology courses may be applied to both Liberal Studies (or the AA) and the major.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. Students who plan to earn the B. A. degree must complete both a foreign language through the intermediate (2200 or equivalent) level and nine additional hours in the fields of history and humanities.

Employment Information

Representative Employers: Colleges & Universities, Governmental Agencies, Mental Health Agencies, Court Systems, Welfare Agencies, Large Corporations, Community organizations, Financial Institutions.

Updated: Summer, 2013
Description of Major
The objective of the Exceptional Student Education specialization in Special Education is to prepare teachers for the public schools. This competency-based teacher education major is designed to develop the knowledge and skills of observation, assessment, intervention and evaluation. Graduates of this combined bachelors and masters program qualify for certification in teaching areas of education of students with exceptionalities (ESE) and ESOL endorsement. The Master’s degree is required to complete the program. Students must meet all graduation requirements established by the University, the College of Education and the curriculum. There are no degree options if the student does not complete the entire curriculum. The graduate portion of this program should be planned by the individual student in consultation with his/her advisor.

Prerequisite Coursework: 9 hours.
Pre-education Core (9 hours)
All are also included in major coursework.
EDF X005 (3) Introduction to Education
* EDF X085 (3) Teaching Diverse Populations
EME X040 (3) Introduction to Educational Technology
*In addition to EDF X085, the student must take 6 hours with an international or diversity focus. Eligible courses will be determined by the institution where the student is earning his/her associate in arts (AA) or baccalaureate degree. Foreign language courses may be used to meet this requirement.

Special Notes:
• Volunteer experience with individuals with disabilities is strongly suggested.
• Interested students are strongly encouraged to complete a course in development (CHD 2220 or similar) during their first two years of college.
• State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Upper-Division Major
This program is a Limited Access Teacher Education program. Students seeking admission to teacher education must meet the following requirements:
1. Meet the general criteria for transfer into an FSU degree-granting program (see Bulletin),
2. Complete General Ed/Liberal Studies requirements or an A.A. degree with a grade of C- or higher in each freshman English and each basic mathematics course,
3. Complete the Pre-education core courses listed above with grades of C- or better
4. Achieve a passing score on each section of the General Knowledge portion of the FTCE, and
5. Achieve an overall 2.5 GPA minimum.
6. Students also are required to be fingerprinted and pass a security clearance prior to admission to the major program of studies.

In addition, students must
1. Submit a formal application to the department by March 1st of the sophomore year. You may download the application from “Special Education” website available from http://www.coe.fsu.edu/Academic-Programs/Undergraduate-Programs .
2. Be fully admitted into teacher education (consult the staff in 2301 Stone Building for current requirements), and
3. Take the GRE exam during the senior year and attain admission to the graduate program.
Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 93-96 hours, including graduate coursework.
This is a combined bachelors/masters program. All of the following courses are required to complete the program. Both the bachelors and masters degrees are awarded at the same time. Program completion includes passing the Professional Knowledge and Specialized Knowledge (i.e., ESE) sections of the FTCE prior to graduation. Certification to teach in Florida requires a minimum 2.5 GPA in the field of specialization.
EEX 3601 (3) Applied Behavior Analysis for Special Educators
EEX 3831 (2) Practicum in Direct Observation
EEX 4212 (3) Educational Assessment for Students with Disabilities
EEX 4223 (3) Individualized Educational Planning
EEX 4250 (3) Individualized Reading Instruction for Students with Disabilities
EEX 4251 (3) Teaching Math to Learners with Disabilities
EEX 4253 (3) Functional Reading and Life Skills for Individuals with Disabilities
EEX 4751 (3) Collaboration with Families, Schools, and the Community
EEX 4834 (2) Introductory Practicum in Special Education
EEX 4842 (2) Practicum with Students with Low Incidence Disabilities
EEX 4930 (3) Foundations of Special Education
EEX 4930 (3) General Education Curriculum for Special Education
EEX 4941 (2) Practicum with Students with High Incidence Disabilities
EEX 4605 (3) Classroom Management/PBS
EEX 4486 (3) Differentiated Instruction
EEX 4930 (3) Positive Behavior Support
RED 4510 (3) Teaching Reading in the Elementary School
TSL 4080 (3) Language Principles for Teachers
TSL 4081 (3) Teaching English Language Learners
EEX 5237 (3) Methods for Teaching Students with Low Incidence Disabilities
EEX 5258 (3) Advanced Reading Instruction for Students with Disabilities
EEX 5765 (3) Introduction to Special Education Technology
EEX 5774 (3) Transition for Individuals with Severe/Profound Disabilities
EEX 5841 (12) Field Laboratory Internship
EEX 5920 (1) Pre-Student Teaching Seminar
EEX 8966 (0) Masters Comprehensive Exam
EEX 4939 (3) Nature of Autism and Severe Communication Disorders
The balance of the program (9-12 hours) is planned individually by the student and a faculty advisor. The program should be designed to meet the student’s interests and to further the student’s professional development in one of several specialization areas. For more about specialization options, visit the “Special Education” available from http://www.coe.fsu.edu/Academic-Programs/Undergraduate-Programs.

Computer Skills Competency: EME 2040 (3).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required: Combined BS/MS 153-156
Liberal Studies: 36
Major Coursework: 93-96 combined bachelors and masters program
Pre-education Core: 9
Computer Skills: 0 beyond Pre-education core
Oral Competency: 0-3
Electives to bring undergraduate total credits to 120
Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Teacher of students with exceptionalities, resource room teacher, and teacher of students with disabilities, and special education teachers

Representative Employers: School Boards, local agencies which serve individuals with disabilities, private schools.

Updated: Summer, 2013
SPECIAL EDUCATION

VISUAL DISABILITIES: Teacher Certification; Visual Disability Studies (non certification)

College: Education
Degree: B. S.
Limited Access: YES
Contact: Dr. Sandra Lewis
Address: 2205L Stone Building, FSU
         Tallahassee, FL 32306-4459
Phone: (850) 644-8409
E-Mail: slewis@fsu.edu

Description of Major
The objective of the Visual Disabilities program is to prepare individuals to work with children who are blind or have low vision. Following graduation, the teacher may be employed in a variety of settings, such as a resource room or as an itinerant teacher in a public school, at a school for the blind, or at an agency serving children who have visual impairments. Most graduates find immediate employment in this field and lead satisfying professional lives facilitating the development of skills of children with visual impairments. A non-certification track, Visual Disability Studies, is also available to individuals who are not interested in a teaching career.

Prerequisite Coursework: 9 hours beyond other requirements.
Pre-education Core (9 hours)
EDF X005 (3) Introduction to Education
* EDF X085 (3) Teaching Diverse Populations
EME X040 (3) Introduction to Educational Technology
*In addition to EDG X085, a minimum of 6 hrs. with an international or diversity focus is required. Eligible courses will be determined by the community college or university where the student currently is earning the AA or baccalaureate degree. Foreign language courses may be used to meet this requirement.

Note 1: Interested students are strongly encouraged to complete a course in development (FAD X230 and/or CHD X220) during their first two years in college. Experience with individuals with visual disabilities is strongly suggested.
Note 2: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Upper-Division Major
This program is a Limited Access Teacher Education program and admits a limited number of students. Students seeking admission to teacher education must meet the following requirements:
1. Meet the general criteria for transfer into an FSU degree-granting program (see Bulletin),
2. Complete General Ed/Liberal Studies requirements or an A.A. degree with a grade of C- or higher in each freshman English and each basic mathematics course
3. Complete the Pre-education core listed above with grades of C- or better
4. Achieve a passing score on each section of the General Knowledge portion of the FTCE, and
5. Achieve an overall 2.5 GPA minimum.
6. Students are required to be fingerprinted and pass a security clearance prior to admission to the major program of studies.

This program admits students year round, though Summer/Fall admissions are preferred. In addition to the above, students must:
2. Complete an interview with the faculty to determine interest and commitment to the program.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.
Major Coursework Undergraduate Program: 60-63 hours

Program completion includes passing the basic skills, professional knowledge, and subject area tests that are required for teacher certification in the state of Florida. Certification to teach in Florida requires a minimum 2.5 GPA in the field of specialization. Students must earn a grade of C or better (not C-) in all EVI courses in order to progress toward graduation in the Visual Disabilities major.

Required for both Teacher Certification and Visual Disability Studies (45 hrs.)

EEX 3601 (3) Applied Behavior Analysis for Special Educators
EEX 4770 (3) Human Exceptionality
EVI 4011 (3) Introduction to Visual Impairment
EVI 4121 (3) Functions of the Eye and Implications of Low Vision
EVI 4211 (3) Literary Braille
EVI 4212 (3) Nemeth Code & Supporting Math Instruction for Students with Visual Impairments
EVI 4220 (3) Introduction to Orientation and Mobility
EVI 4311 (3) Teaching Reading and Writing to Visually Impaired Learners
EVI 4312 (3) Academic Modifications in the Public School Class
EVI 4324 (3) Assistive Technology for Students with Visual Impairments
EVI 4330 (3) Teaching Students with Visual Impairments and Other Disabilities
EVI 4314 (3) Low Vision
EVI 4230 (3) Educational Management of Students with Visual Impairments
EVI 4250 (3) Teaching Social & Career Skills to Visually Impaired Learners
EVI 4254 (3) Teaching Independent Living Skills to Students with Visual Impairments

In addition, students must complete one of the following options:

Teacher Certification Option (18 hrs.)
RED 4335 (3) Reading in the Content Area
TSL 4324 (3) ESOL Instruction in the Content Area
EVI 4940 (12) Student Teaching Internship

Visual Disability Studies (15 hrs.)
15 hrs. of specialization courses selected in consultation with the program advisor.

Computer Skills Competency: EME 2040 (3).

Oral Communication Competency: 0-3 hours

Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary

Total Hrs. Required 120
Liberal Studies 36
Pre-education Core 9
Major Coursework 60-63
Computer Skills 0 beyond Pre-education core
Oral Competency 0-3
Electives to bring total hours to 120

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information

Representative Job Titles Related to this Major: Resource Room Teacher of Students with Visual Impairments, Orientation and Mobility Specialist, Itinerant Teacher of Students with Visual Impairments, Teacher of Students with Visual Impairments, Special Education Director.

Representative Employers: School Boards, Rehabilitation Centers, Community Agencies, Governmental Agency Schools, Division of Blind Services, Private Residential School.

(Updated: Summer, 2013)
SPORT MANAGEMENT
College: Education
Degree: B. S.
Limited Access: YES
Contact: Dr. Jeffrey James
Address: 1002 Tully Gymnasium
Tallahassee, FL 32306-4280
Phone: (850) 644-4813
E-Mail: jdjames@fsu.edu

Description of Major
The sport management major prepares individuals to pursue advanced degrees in sports administration or to seek employment in some aspect of the sports industry.

Prerequisite Coursework: 9 hours
Students are encouraged to select prerequisite coursework in consultation with the program advisor.
1. Take one 3 hour course with any of the following prefixes: FIN, MAR, GEB
2. Take one 3 hour course with any of the following prefixes: MAN, BUL, CGS, STA, ACG, REE
3. Take one 3 hour course with any of the following prefixes: HFT, RMI, ECO, SDS, COM
Students are encouraged to contact the program advisor regarding selection of prerequisite courses.

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Upper-Division Major
Admission to the program is for fall semester only. Students must apply for admission to the program by March 1 each year.
Applications are available from the department in 1002 Tully Gym or http://www.coe.fsu.edu/sm (select “Degrees > Bachelors”).
Contact the department for more information. Students seeking admission must meet the following minimum requirements:
1. Meet the general criteria for transfer into an FSU degree-granting program (see Bulletin),
2. Complete Liberal Studies requirements or an A.A. degree with a grade of C- or higher in each freshman English and each basic mathematics course
3. Complete required prerequisite courses, and
4. Achieve a minimum overall 2.75 GPA.

Note: Meeting minimum admission requirements does not guarantee admission to the program.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 60 hours
All students are expected to maintain a minimum GPA of 2.75 and achieve a grade of C- or higher in each prerequisite course taken within the department in order to move on to the next course in the program sequence. At any point when a student has three D or F grades, the student may be dismissed from the program.

All of the following courses (30 hours)
SPM 4004 (3) Issues in Sport Management
SPM 4025 (3) Diversity in Sport
SPM 4104 (3) Facilities/Event Management
SPM 4124 (3) Human Resource Management
SPM 4154 (3) Introduction to Sport Management
SPM 4204 (3) Ethics in Sports
SPM 4304 (3) Sport Marketing
SPM 4505 (3) Sport Finance
SPM 4723 (3) Sport Law
SPM 4604 (3) Sport Governance
Department electives (15 hours).
Select from list of department electives at the 3000/4000. Consult advisor.
Outside department electives (15 hours)
All electives outside the department must be 3000 level or higher; at least 9 elective hours must be 4000 level or higher. Only 4 credits can be Theory and Practice courses.

Computer Skills Competency: CGS 2060 (3), CGS 2100 (3), or EME 2040 (3).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36
Prerequisites Coursework 16
Major Coursework 60
Computer Skills 3
Oral Competency 0-3
Electives to bring total hours to 120

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Physical Education Teacher, Coach, Director of YMCA, YWCA, Boys’ or Girls’ Clubs, Camp Director, Pre School Director, Physical Culture Center Director, Supervisor of Physical Activities, Intramural Director, Gymnastics/Tumbling Director, Fitness Director in Business/Industry, Recreation Supervisor, Sports Announcer, Sales Representative, Marketing Representative, Facility Personnel, Front Office Personnel.

Representative Employers: YMCA, YWCA, YMHA, YWHA, Armed Forces, Preschools/centers, Red Cross, Camps, Health Clubs/Private Clubs, Corporations (e.g. IBM, Xerox, GE), School Boards, Colleges/Jr. Colleges, Large Churches, Retirement Communities, Camp Fire, Inc., Resort Hotels, Boy/Girl Scouts/Guides, Recreation Leagues, City Recreation Programs, Major/Minor League Sport Franchises.

Updated: Summer, 2013
Description of Major
For undergraduates, the department offers programs of study in statistics and probability. These are disciplines treating situations which involve uncertainty, such as deciding whether a new drug is better than an old one, analyzing errors of measurement in scientific experiments, determining public attitudes in an opinion poll, and designing an express-way to minimize traffic congestion. 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 application of these models, the analysis of data, and the design of experiments. In the study of statistics, students use and enrich their mathematical expertise and orient their study of the mathematical sciences toward use in society. Flexible, individually planned programs of study for majors or minors are available.

Prerequisite Coursework:
Students must complete the following prerequisites required for admission in preparation for the upper division major. All of the following may also apply toward Liberal Studies, major or minor coursework.
COP XXXX (3) A scientific programming course designed for computer science majors
MAC X311 (4) Calculus with Analytic Geometry I
MAC X312 (4) Calculus with Analytic Geometry II
MAC X313 (4) Calculus with Analytic Geometry III (5 hours @ FSU)
XXX XXXX (8) Two laboratory based science courses designed for science majors (BSC, CHM, PHY or GLY)
STA 2XXX (3) A 2000-level statistics course

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Requirements for Progression to the Upper-Division Major
To be admitted students must complete at least 52 hours of credit with an adjusted GPA of 2.0 on FSU coursework, and at least half the required hours in Liberal Studies, including freshman English composition and mathematics, or an A. A. degree.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: at least 33 hours
Mathematics courses should be carefully coordinated with the Statistics requirements. Specifically, students should complete MAC 2311 (Calculus with Analytic Geometry I) prior to the junior year. Students are encouraged to try to satisfy MAC 1105, 1114, and 1140 by examination (CLEP, ACT, SAT, etc.). A minimum of nine (9) hours of statistics courses counted toward the major must be taken in the Department of Statistics at FSU. Other statistics courses must be approved by the department. Grades below C- in major and collateral coursework (including statistics, mathematics, and computer science) are not counted toward the major.

Statistics courses: at least 21 hours numbered 3000 or higher, including the following:
STA 3024 (3) SAS for Data and Statistical Analysis
STA 4321 (3) Mathematical Statistics I or STA 4442 (3) Introductory Probability
Fifteen (15) additional hours of statistics courses at the 3000 level or above. Students may choose to complete an emphasis in statistical methodology, statistical theory or probability theory.

Collateral Coursework: at least 12 hours
MAC 2311 (4) Calculus with Analytic Geometry I
MAC 2312 (4) Calculus with Analytic Geometry II
MAS 3105 (4) Applied Linear Algebra I

Students anticipating graduate study in statistics are encouraged to take additional (optional) mathematics and statistics courses such as:
MAC 2313 (5) Calculus with Analytic Geometry III
MGF 3301 (3) Introduction to Advanced Mathematics
STA 4322 (3) Mathematical Statistics II

Minor Coursework: Twelve hours from an approved minor area, 15 hours from an approved interdepartmental minor or requirements as stated by the minor area. Statistics majors may use MAC 2311 plus the required collateral mathematics courses to satisfy a minor in mathematics.

Computer Skills Competency: STA 3024 (3).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Min. Hrs. Required 120
Liberal Studies 36*
Prerequisite Coursework 0 beyond other requirements
Major Coursework 33
Minor Coursework 12*
Computer Skills 0 beyond major requirements
Oral Competency 0-3
Foreign Language 0-12 (depending on placement)
Electives to bring total hours to 120

*NOTE: The student may use MAC 2311 plus required mathematics collateral courses to complete the minor. MAC 1105, 1114, and 1140 may be used to satisfy the mathematics requirement of Liberal Studies and are prerequisite to required calculus courses.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. Students who plan to earn the B. A. degree must complete both a foreign language through the intermediate (2200 or equivalent) level and nine additional hours in the fields of history and humanities.

Employment Information

Representative Employers: Insurance Companies, Banks, Financial Institutions, Communications Companies, Research Foundations, Governmental Agencies, Medical Research Centers, Industrial Firms, Pharmaceutical & Chemical Companies, Marketing Research Firms.

Updated: Summer, 2013
THEATRE
B. A. DEGREE
College: Visual Arts, Theatre and Dance
Degree: B. A.
Limited Access: YES
Contact: Michele Diamonti
Address: 329 Fine Arts Building, FSU
Tallahassee, FL 32306-1160
Phone: (850) 644-7253
E-Mail: mdiamonti@admin.fsu.edu

Description of Major
The Bachelor of Arts program at FSU’s School of Theatre creates a foundation of intellectual and artistic excellence through a diversified, demanding study that fosters appreciation and respect for the art form and builds on a strong liberal arts foundation to develop expressive skills essential to success in the theatre and related professions.

Prerequisite Coursework:
Students should complete the following prerequisites in preparation for placement in upper-division status.
THE X000 (3) Introduction to Theatre OR any introductory 1000 or 2000 level course from THE X001-X035
THE X305 (3) Dramatic Literature or THE X300 (3)
THE X925 (1) Performance Production
TPA X290 (1) Technical Theatre Lab
TPA X200 (3) Introduction to Stagecraft or TPA X210 (3)
TPP X190 (1) Theatre Rehearsal and Performance or TPP X110 (3)
Nine additional hours of THE, TPA and/or TPP courses
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for Progression to the Upper-Division Major
To be admitted, students must complete at least 52 hours of credit with an adjusted GPA of 3.0 and successful completion of at least half of the required hours in the Liberal Studies program, including all of Areas I and II, or an A.A. An audition is not needed for the B. A. Program.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/

Major Program of Studies at FSU: 36 hours
Prerequisites to advanced courses must be passed with a grade of C- or better. A grade of C- or higher is required in all courses to be counted toward the major. 3.0 GPA must be maintained in major requirements. Overall 3.0 must be maintained.

Level One (21 hours) All of the following:
THE 2020 (3) Introduction to Theatre for Majors (grade of B- or higher required)
TPA 2000 (3) Creative Design for Theatre
TPA 2322 (3) Technical Theatre Practices I
TPA 2323 (3) Technical Theatre Practices II
TPP 2100 (2) Performance I
TPP 2190L (1) Theatre Rehearsal and Performance
THE 3213 (3) World Theatre History I
The 3214 (3) World Theatre History II (should be taken as part of Liberal Studies)
THE 4990 (0) All School Events ( Fall and Spring Semesters)

Level Two (6 hours)
THE 4303 (3) Play Analysis, and
Select one of the following:
THE 4236 (3) American Theatre History
THE 4733 (3) Gender, Race, and Performance
THE 4260 (3) History of Costume
THE 4285 (3) History of Architecture and Décor

Level Three (6 hours)
Select one from two different groups.
Group A – Page to Stage
TPP 4310 (3) Directing I
THE 4923 (3) Theatre Encounters Workshop
THE 4481 (3) Dramaturgy

Group B – Performance
TPP 3103 (3) Performance II
TPP 4600 (3) Fundamentals of Playwriting

Group C – Production and Management
TPA 3208 (3) Drafting
TPA 3230 (3) Costume I
TPA 3533 (3) Light and Sound Technology
TPA 4400 (3) Theatre Management
TPA 4601 (3) Stage Management

Culminations (3 hours)
THE 4954 (3) Culminations

Foreign Language Requirement: A modern or classical foreign language through the 2220 (or equivalent) level (up to 12 hours) is required; may be satisfied through coursework or examination.

Computer Skills Competency: 1-3 hours
ART 1602C (3), CGS 2060 (3), CGS 2100 (3), EME 2040 (3), ISC 3313 (3), or MUS 2360 (1).

Oral Communication Competency: 0 hours beyond major requirements.
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. Theatre majors take THE 2020.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36*
Major Coursework 36*
Foreign Language 0-12 (depending on placement)
Computer Skills 1-3
Oral Competency 0 beyond major coursework
Electives to bring total hours to 120 (at least 24 electives must be non-Theatre)
*NOTE: The required THE 3214 may be used to fulfill requirements of both Liberal Studies and the major. 24 hours of electives (including foreign language) must be in non-theatre courses.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Actor/Actress, Stage Hand, Managing Director, Director, Make-up Artist, Property Manager, Producer, Wardrobe Mistress, Public Relations Manager, Playwright-Writer, Stage Manager, Teacher, Light Designer/Technician Scenery Painter, Drama Critic, Scene Designer, Box Office Manager, Artistic Director, Sound Technician, House Manager
Representative Employers: Theatre Companies, Regional Theatres, Stock Companies, Dinner Theatres, Opera Companies, Movie Producers, Television Studios, Theme Parks, Universities, Community Colleges, High Schools, Newspapers.

Updated: Summer, 2013
THEATRE
B.F.A. - ACTING
College: Visual Arts, Theatre and Dance
Degree: B.F.A.
Limited Access: YES
Contact: Michele Diamonti
Address: 329 Fine Arts Building, FSU
Tallahassee, FL 32306-1160
Phone: (850) 644-5548
E-Mail: mdiamonti@admin.fsu.edu

Description of Major
The BFA in Acting is a highly competitive program that prepares graduates for rewarding careers in the theatre and related fields. It will provide the foundation necessary and essential for continued specialization in acting at the graduate level or in the professional theatre. Concentrated coursework includes acting, voice, movement, stage, and directing.

Prerequisite Coursework:
Students should complete the following prerequisites in preparation for placement in upper division status.
THE X000 (3) Introduction to Theatre OR any introductory 1000 or 2000 level course from THE X001-X035
THE X305 (3) Dramatic Literature or THE X300 (3)
THE X925 (1) Performance Production
TPA X290 (1) Technical Theatre Lab
TPA X200 (3) Introduction to Stagecraft or TPA X210 (3)
TPP X190 (1) Theatre Rehearsal and Performance or TPP X110 (3)
Nine additional hours of THE, TPA and/or TPP courses

Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to the Major
Admission is by audition. Auditions are held every January and February for fall admission. Auditions are open to incoming freshmen, transfers and current students. The audition must be accompanied by an acceptable academic record and up-to-date transcripts and resume. Contact the School of Theatre for details. Students applying to the BFA program need to apply to both the School of Theatre and University Admissions.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 88 hours
The B.F.A. student is assessed each semester to review competencies and must maintain a 3.0 GPA in major requirements and a 2.5 or better in all coursework.
Technical Theatre (4 hours)
TPA 2201 (3) Introduction to Technical Theatre
TPA 2291 (1) Technical Theatre Laboratory
Performance (52 hours)
TPP 2110r (3, 3) Acting Techniques I
TPP 2111r (3, 3) Acting Techniques II
TPP 4113 (3) Acting Techniques III
TPP 3265 (3) Acting for the Camera
TPP 3510r (3) Movement Techniques I
TPP 3511r (3) Movement Techniques II
TPP 4512r (3) Advanced Movement
TPP 3710r (3) Voice Techniques I
TPP 3711r (3) Voice Techniques II
TPP 4712r (3) Voice Techniques III
TPP 4713 (3) Voice Techniques IV
TPP 2190 (2) Theatre Rehearsal and Performance
TPP 4310 (3) Directing I
TPP 4922r (8) Performance Workshop

Other Theatre Requirements (32 hours)
THE 2020 (3) Introduction to the School of Theatre (Grade of B- or higher required)
TPA 2248 (2) Stage Makeup
THE 3213 (3) World Theatre History I
THE 3214 (3) World Theatre History II (counts for Liberal Studies-Humanities)
THE 4260 (3) Historic Costume
THE 4303 (3) Play Analysis
THE 4990r (0) All School Events (Fall and Spring Semesters)

Theatre Electives: 15 hours
Electives are theatre courses, which the student and his/her advisor agree will best satisfy individual student needs. Electives may include special topics courses, theatre history, credit for acting in a production (TPP 4191, 4192) and the repetition of acting classes (all acting classes may be taken three times for full credit each time).

Computer Skills Competency: 1-3 hours
ART 1602C (3), CGS 2060 (3), CGS 2100 (3), EME 2040 (3), ISC 3313 (3) or MUS 2360 (1).

Oral Communication Competency: 0 hours beyond the major
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. Theatre majors take THE 2020.

Minimum Program Requirements - Summary
Total Hrs. Required 127*
Liberal Studies 36*
Major Coursework 88*
Minor Coursework 0
Computer Skills 1-3
Oral Competency 0 beyond major
Electives 0

*NOTE: The required THE 3214 may be used for both Liberal Studies and the major, thus reducing the total to 124.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Actor/Actress, Producer, Playwright-Writer, Director, Drama Critic, Artistic Director, Teacher, Coach.

Representative Employers: Theatre Companies, Regional Theatres, Movie Producers, Television Studios, Park Districts, Stock Companies, Dinner Theatres, Opera Companies, Theme Parks, Children’s Theatre, Community Theatre, Universities, Community Colleges.

Updated: Summer, 2013
THEATRE
B.F.A. - MUSIC THEATRE
College: Visual Arts, Theatre and Dance
Degree: B. F.A.
Limited Access: YES
Contact: Michele Diamonti
Address: 329 Fine Arts Building, FSU
          Tallahassee, FL 32306-2008
Phone: (850) 644-5548
E-Mail: mdiamonti@admin.fsu.edu

Description of Major
The BFA in Music Theatre is a highly competitive program that prepares graduates for rewarding careers in the theatre and related fields. This interdisciplinary course of study includes extensive coursework in theatre, music, and dance.

Prerequisite Coursework:
Students should complete the following prerequisites in preparation for placement in upper division status.
THE X000 (3) Introduction to Theatre OR any introductory 1000 or 2000 level course from THE X001-X035
THE X305 (3) Dramatic Literature or THE X300 (3)
THE X925 (1) Performance Production
TPA X290 (1) Technical Theatre Lab
THE X200 (3) Introduction to Stagecraft or TPA X210 (3)
TPP X190 (1) Theatre Rehearsal and Performance or TPP X110 (3)
Nine additional hours of THE, TPA and/or TPP courses
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Admission Requirements to Major
Admission is by audition. Auditions are held every January and February for fall admission. Auditions are open to incoming freshmen, transfers and current students. The audition must be accompanied by an acceptable academic record and up-to-date transcripts and resume. Contact the School of Theatre for details. Students applying to the BFA program need to apply to both the School of Theatre and University Admissions.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 101 hours
The B.F.A. student is assessed each semester to review competencies; a 3.0 GPA must be maintained in all major requirements, with a 2.5 or better in all coursework.
Program Core Requirements (60 hours)
THE 4990 (0) All School Events (every Fall and Spring Semester)
THE 2020 (3) Introduction to the School of Theatre (grade must be B- or higher
THE 3214 (3) World Theatre History II (should be taken as part of Liberal Studies)
THE 4244 (3) Musical Theatre History I
THE 4245 (3) Musical Theatre History II
THE 4303 (3) Play Analysis
TPP 4310 (3) Directing I
TPP 4257 (3) Music Theatre Voice
TPP 2110r (3,3) Acting Technique I (must be taken twice)
TPP 2111r (3,3) Acting Technique II (must be taken twice)
TPP 4112 (3) Acting Technique III
TPP 3510 (3) Movement Techniques I
TPP 3511 (3) Movement Techniques II
TPP 4512 (2) Advanced Movement
TPP 4923r (2,2,2,2) Music Theatre Workshop (must be taken four times)
TPA 2248 (2) Stage Make-up
TPA 2201 (3) Introduction to Technical Theatre
TPA 2291 (1) Technical Theatre Laboratory
MVV 3532 (1) Musical Theatre Repertoire (Vocal Coaching)
MVV 4542 (1) Musical Theatre Repertoire (Vocal Coaching)

Core Competency Courses (33 hours)
MVV XXXX (16 maximum) Private Voice (All semesters while in residence)
MVK 1111 (1) Keyboard or Demonstrated Proficiency
DAA XXXX (16 minimum) Dance until proficiency attained

Additional Requirements (8 hours)
MUT 1111, MUT 1112 (3, 3) Music Theory
MUT 1241, MUT 1242 (1, 1) Sightsinging

Computer Skills Competency: 1-3 hours
ART 1602C (3), CGS 2060 (3), CGS 2100 (3), EME 2040 (3), ISC 3313 (3), or MUS 2360 (1).

Oral Communication Competency: 0 hours beyond the major
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. Theatre majors take THE 2020.

Minimum Program Requirements - Summary
Total Hrs. Required 139*
Liberal Studies 36*
Major Coursework 101*
Minor Coursework 0
Computer Skills 1-3
Oral Competency 0 beyond major
Electives 0

*NOTE: The required THE 3214 may be used for both Liberal Studies and the major, thus reducing hours to 136.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.

Employment Information
Representative Job Titles Related to this Major: Actor/Actress, Choreographer, Public Relations Manager, Producer, Musical Director, Drama Critic, Playwright-Writer, Artistic Director.

Representative Employers: Theatre Companies, Private Studios, Opera Companies, Professional Regional Theatres, Television Studios, Community Theatres, Dinner Theatres, Stock Companies, Children’s Theatre, Movie Producers.

Updated: Summer, 2013
WOMEN'S STUDIES
College: Arts and Sciences
Degree: B. A. or B. S.
Limited Access: NO
Contact: Dr. Joyce Carbonell
Address: 208A PDB
Tallahassee, FL 32306-4302
Phone: (850) 644-9514
E-Mail: carbonel@psy.fsu.edu

Description of Major
Women's Studies 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. The courses offer students new perspectives on human history and the human condition. Using gender as a category of analysis, these classes help students 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.

Prerequisite Coursework: None.
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “Student Services” section of http://www.flvc.org.

Requirements for graduation in the College of Arts and Sciences include:
The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Requirements for Progression to the Upper-Division Major
To be admitted students must complete at least 52 hours of coursework with an adjusted FSU GPA of 2.0 and at least half the hours required in Liberal Studies, including all freshman English composition and mathematics, or an A.A. degree.

Mapping
Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu/.

Major Program of Studies at FSU: 33 hours
Students who wish to declare a major in women’s studies should apply for admission with the Women’s Studies office and complete an advising form. Majors will receive an interdisciplinary BA degree in Humanities with a major in women’s studies. Majors must maintain a 2.0 average for graduation. To be eligible for graduation, each student must complete an exit interview and survey.

WST Interdisciplinary courses (12 hours)
WST 3015 (3) Introduction to Women’s Studies
WST 3251 (3) Women in Western Culture
The remainder of this 12 hour requirement may be met by taking any combination of the following courses, but at least one course must be either WST 4930 or WST 4931.
WST 4930r (3) Topics in Women’s Studies
WST 4931 (3) Seminar in Women’s Studies
WST 4940r (3-9) Women’s Studies Internship (approved by Director)
Cross-listed core courses (12 hours):
Select one course from each of the following groups. To the best of our knowledge, these are the current course numbers of the cross-listed core courses that are accepted. If you have questions about these or other courses, contact the advisor for this major.
Group A:
AMH 4561 (3) Women in 19th Century America
AMH 4562 (3) Women in Modern America
CLA 3501 (3) Gender and Society in Ancient Greece
CLA 3502 (3) Women, Children and Slaves in Ancient Rome: The Roman Family
REL 3145 (3) Gender and Religion
REL 3337 (3) Goddesses, Women and Power in Hinduism
Group B:
ANT 4302 (3) Sex Roles in Cross Cultural Perspective
LIT 4554 (3) Feminist Theory
PHM 3123 (3) Philosophy of Feminism
PUP 3323 (3) Women and Politics
SOP 3742 (3) Psychology of Women
SYD 3800 (3) Sociology of Sex and Gender
SYO 4374 (3) Gender and Work
Group C:
FOW 3240 (3) Literature and Sexuality
FRT 3561 (3) French Women Writers
LIT 3383 (3) Women in Literature
LIT 4385 (3) Major Women Writers
SPW 4481 (3) Contemporary Spanish Women Writers (in Spanish)
SPW 4491 (3) Spanish-American Women Writers (in Spanish)
THE 4433 (3) Gender, Race, and Performance
Group D:
CCJ 4663 (3) Women, Crime and Justice
NSP 3425 (3) Women's Health Issues: Concerns through the Life Cycle
SOW 4108 (3) Women’s Issues and Social Work
SOW 4615 (3) Family Violence
SOW 4627 (3) Mental Health of Diverse Populations
SPC 4711 (3) Gender and Communication
Women's Studies Electives (9 hours)
Nine (9) credit hours selected from among the following: courses listed in Groups A, B, C, and D; WST courses; approved related courses; and approved special topics courses, seminars, and workshops. Three (3) credit hours of the major elective requirement may be satisfied with a 2000-level course including, but not limited to, AMH 2096 and PHM 2121; however, the course must be taken at FSU and only one of the listed classes may be counted towards credit in the major.

Minor Coursework: Twelve hours from an approved minor area, 15 hours from an approved interdepartmental minor or requirements as stated by the minor area. Women’s Studies majors are encouraged to complete a minor in a single discipline.

Computer Skills Competency: 3 hours. CGS 2060 (3) or CGS 2100 (3).

Oral Communication Competency: 0-3 hours
Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course.

Minimum Program Requirements - Summary
Total Hrs. Required 120
Liberal Studies 36*
Major Coursework 33
Minor Coursework 12
Foreign Language 0-12 (depending on placement)
Computer Skills 3
Oral Competency 0-3
Electives to bring total hours to 120
*Note: One course from the list of approved Women’s Studies courses that is used to satisfy the requirement for liberal studies may also be counted toward fulfillment of the major.

Remarks:
1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
**Employment Information**

*Representative Job Titles Related to this Major:* Community Service Agency Worker, Lobbyist, Congressional Aide, Peace Corps/VISTA Worker, Consumer Advocate, Campaign Organizer/Manager, EEO Coordinator/Representative, Program Specialist, Fund Raiser, Public Policy Analyst, Grant Writer, Sociologist, Human Resources Program Assistant, Victim Advocate, Legislative Analyst, Women’s Resource Center Director.

*Representative Employers:* State, Federal, or Local Governments, Public Interest Groups, Action Committees, Political Candidates, Colleges or Universities, Corporations.

Updated: Summer, 2013
MINORS

NOTE: In many cases, the courses used to satisfy Liberal Studies Requirements may not be used to satisfy requirements of a minor. Consult your Academic Dean’s Office for specific policies.

AEROSPACE STUDIES
Program Office: 212 Harpe-Johnson Hall, 644-3461
A minor in aerospace studies is offered and may be selected by the student with the approval of the major department and the Department of Aerospace Studies. Requirement for a minor is twelve semester hours in aerospace studies courses.

AFRICAN-AMERICAN STUDIES
Program Office: 211 Bellamy, 644-4418
The minor requires the completion of 18 hours of courses approved for the major, including 9 hours of core courses, 3 hours of African or African-American History, and at least 6 hours of additional coursework approved for the major. Students must have 2.0 or higher GPA in minor coursework, with no grade below C-. Contact the program office for more information.

ANTHROPOLOGY
Program Office: College of Arts and Sciences, 010 Longmire, 644-1081
Twelve semester hours in anthropology, including either ANT 2410 or ANT 2511, are required. Courses in which a student receives a grade below C– will not be counted toward the minor.

ARABIC STUDIES
Program Office: Modern Languages, 364 Diffenbaugh, 644-2606
This minor requires 18 hours, 15 of which must be from Arabic language courses. The additional 3 hours may be selected 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 9 of the 18 credits must be earned at FSU. Grades must be C- or higher. Directed Individual Study (DIS) hours may not apply to the minor.

ART HISTORY
Program Office: 1019 WJB, 644-1250
The minor will require five courses (15 hours) in Art History. Students pursuing a minor may enroll in upper-level (4000 level) courses only upon completing at least one of the two survey courses (ARH 3056 and ARH 3057). Grades below C will not apply toward the minor.

ASIAN STUDIES
Program Office: 211 Bellamy, 644-4418
Students minoring in Asian Studies must complete 18 hours of Asian Studies coursework beyond the Liberal Studies requirement (or courses used to satisfy general education requirements for an A.A. degree). None of the broader comparative concepts and theories courses will count towards the 18 hour minimum. Students may select freely from all area-specific courses. Visit http://www.coss.fsu.edu/asian/.

BIOLOGICAL SCIENCE
Program Office: 1067 King Life Sciences, 644-309
The minor requires a minimum of 12 hours in courses approved for major credit, including BSC 2010/2010L (3/1) Biological Science I and lab, BSC 2011/2011L (3/1) Biological Science II and lab, and at least one additional course approved for the major (PCB 3063 recommended). At least 4 hours of minor coursework must be earned at FSU. Grades below C- will not be accepted for minor credit.

BIOMEDICAL PHYSICS
Program Office: 306-307 Keen, 644-3245
The Biomedical Physics minor requires at least 14 credits. Required courses include PHY 2053C and PHY 2054C or PHY 2048C and PHY 2049C and both PHZ 4702 and PHZ 4703 (Biomedical Physics I and II). Courses must be completed with a grade of C- or higher to apply toward the minor.

BRITISH STUDIES LONDON CENTER MINOR
Program Office: International Programs, A5500 University Center, 644-3272
This interdisciplinary minor requires the completion of 15 hours in courses approved by the British Studies London Center Coordinating Committee. At least 9 hours must be taken in residence at the London Study Center and a maximum of 9 hours may be from any one discipline. Grades below C- will not apply; a minor GPA of 2.0 is required. Students who intend to minor in British Studies should declare this intention with International Programs at the end of their semester in London.

BUSINESS
Program Office: 328 Rovetta Business Building, 644-3892
The College of Business offers a minor in General Business on a space available basis only. The minor consists of 18 hours, unless a greater number is required by the major program. For the minor, the student must complete one year of Economics (ECO 2013 and ECO 2023). Additionally, the student must complete 12 hours of business courses selected from the following: ACG 2021, ACG 2071, BUL 3310, FIN 3140, FIN 3244, FIN 3403, MAN 3025, MAR 3023, REE 3043 or RMI 3011. At least two of the
four business courses must be taken at FSU. Grades below C- will not apply toward the minor. Upon completion of the required courses, students may apply for certification of completion of the minor in person in the College of Business Undergraduate Office, Room 328 Rovetta Business Building.

CHEMISTRY
Program Office: 310 DLC, 644-6004
The requirements for a minor in Chemistry include the two-semester sequence in general chemistry (CHM 1045/1045L, 1046/1046L or CHM 1050/1050L, 1051/1051L) plus one of the following course sequences: CHM 2210 and 2211; CHM 3120 and 3120L; or CHM 4410 and 4411. A minimum of 12 hours is required. Grades below C- will not be accepted for minor credit.

CHILD DEVELOPMENT
Program Office: 225 Sandels, 644-3217
The minor requires the following four courses (12 hours) with a grade of C- or better: CHD 2220, FAD 2230, FAD 3220, and FAD 3271. At least 9 hours of minor coursework must be completed at FSU. Students must declare the minor in 225 Sandels.

CHINESE
Program Office: 364 Diffenbaugh, 644-2606
The minor consists of 12 hours in Chinese above the 1999 level. Credit used in meeting the foreign language requirement for graduation may not be used to satisfying the minor.

CLASSICAL LANGUAGES, LITERATURE AND CIVILIZATION
Program Office: 205A Dodd Hall, 644-4259
The minor requires a minimum of 12 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.

COMMUNICATION
Program Office: UCC 4115, 644-5034
The School of Communication offers a minor in communication on a space-available basis only. The minor consists of twelve (12) hours selected from the following courses: ADV 3008, ADV 3352, ADV 3410, COM 3332, COM 3420, COM 3483, COM 3930, MMC 2000, PUR 3000, RTV 3001, or SPC 3210. Only coursework with a grade of C- or above in four of these courses will count toward the minor. Credit earned in meeting the Oral Communication Competency Requirement may not be used to satisfy the minor. At least six (6) hours of the communication minor must be taken within the FSU School of Communication. Courses taken to meet the minor are not applicable to any other requirement. Please view, http://www.comm.cci.fsu.edu/ for additional details concerning the minor.

COMPUTATIONAL SCIENCE
Program Office: 400 Dirac; 644-1010
A minor in computational science requires a minimum of 14 hours of coursework, including ISC3222 (3) and ISC4304 (4). The student must take at least one Computational Science Algorithms course (ISC4220 or ISC4221 (4)) as well as a Computational Science course from approved list. Students must also satisfy stated prerequisites before enrolling in each course accepted for minor credit. Grades below C- will not be accepted for minor credit. http://www.sc.fsu.edu/undergraduate/minor.

COMPUTER SCIENCE
Program Office: 203 Love, 644-8700
Students pursuing a minor in Computer Science may choose one of two sets of computer science courses preapproved by the department: the General Track (12 hours) or the Science Track (13 hours). Courses outside of the preapproved tracks must be approved in advance (in writing) by the department. Students must also satisfy stated prerequisites before enrolling in any computer science course. A grade of C- or higher must be earned in each course counted toward the minor. For more information on the minor, including preapproved courses, see http://www.cs.fsu.edu/current/undergrad/minor.php.

CRIMINOLOGY AND CRIMINAL JUSTICE
Program Office: The Hecht House, 634 W. Call St., 644-4050
A minor requires four courses (12 hours) including CCJ 2020. CCJ 2020 may be completed at community college but the remaining 9 hours must be taken at FSU. Students may not use special topics, seminar, or directed individual study courses for the minor. Grades of C- or higher are required.

ECONOMICS
Program Office: 253 Bellamy, 644-3835
The minor requires 15 hours in Economics, including both ECO 2013 and 2023 with grades of C or higher. In addition, 9 hours in Economics electives must be completed, with at least one course selected from the following: ECO 3104, 3223, 4101, 4203, 4421, or 4431. A 2.0 overall average in Economics coursework is required and no course with a grade below C- may apply toward the minor. ECO 2000 will not count toward the minor and no more than 6 hours of transfer credit may be applied.
EDUCATION
Program Office: 2301 Stone Building, 850-644-3760
The College of Education offers a FDOE-approved Professional Training Option (PTO) that is designed to assist candidates in meeting professional preparation coursework requirements for a Florida Professional Educator’s Certificate. Please note—these courses meet only one component of the requirements for a Florida Professional Educator’s Certificate. Completion of coursework does not ensure that an individual will be eligible for a professional certificate. The COE faculty has approved the PTO to be used as a minor for those undergraduate students seeking to fulfill their minor requirement for their respective major. The courses required are: RED 4335 (Literacy Across the Content Areas), TSL 4324 (English to Speakers of Other Languages), EDF 4430 (Classroom Assessment), EDF 4210 (Educational Psychology), EDG 4321 (Foundations in Teaching). Please note that each of the courses required for completion of the PTO are limited in the number of seats and sections that may be offered each semester to non-COE majors. Courses must be completed with a grade of C- or higher to apply toward the minor. No other course(s) may substitute for the courses given above. Upon completion of the PTO, students must notify the Office of Academic Services and Intern Support to request that the candidate’s FSU transcripts will be stamped with the statement, “Completion of DOE-approved Professional Training Option.” For more information, please contact the office listed above or visit www.coe.fsu.edu/oasis/pto-minor.

ENGLISH
Program Office: 405 Williams, 644-4230 (main office)
The minor requires at least 12 hours beyond the Liberal Studies requirement in English courses (prefix AML, ENL, LIT, ENC, CRW, ENG) at the 2000 level and above. Students must have at least a C- average in each course towards the minor. Beginning Fall 2012 at least 6 hours of English coursework must be completed at FSU.

ENTREPRENEURSHIP FOR BUSINESS MAJORS AND NON-BUSINESS MAJORS
Program Office: Jim Moran Institute, 213 Rovetta Business Building B, 644-3372
Students interested in starting their own business may be interested in completing this minor in Entrepreneurship. Two tracks are available: Business Majors and Non-Business Majors. The Business Majors track requires satisfactory completion of 15 credits including ENT 3003, ENT 3613, ENT 4013 and two courses selected from a list of approved ENT electives. The Non-Business Majors track requires satisfactory completion of 18 credits, including MAN 3025, ENT 3003, ENT 3423, ENT 4013, ENT 3613 and one course selected from the list of approved ENT electives. There is no approval process; to start, simply register for ENT 3003. For more information, see http://jmi.fsu.edu/Students/Academic-Programs.

ENVIRONMENTAL ENGINEERING SCIENCE
Program Office: 2525 Pottsdammer St., Suite A129; 410-6140
A minor in environmental engineering science requires a minimum of 12 hours of coursework, including EES 3040 and ENV 4001. The student must complete 6 additional hours in courses with prefixes EES or ENV at the 3000 level or above, with no more than one (1) of the following courses counting toward the minor: ENV 4341 or ENV 4611. Students must consult with the department and obtain written approval before taking courses toward the minor. Students must also satisfy stated prerequisites before enrolling in each course accepted for minor credit. If an environmental engineering science minor is combined with a civil engineering major, EES 3040 and one other course, up to 6 hours total, may count toward the major and the minor.

ENVIRONMENTAL SCIENCE
Contact: Timothy McGann, 405 Love, 644-8580
A minimum of fifteen semester hours of Environmental Science courses approved for major credit as follows: two of the following; MET 1010 (or MET 2700), GLY 2010C or OCE 4008, AND any three courses from the Geoscience Elective courses (List 1), see http://www.academic-guide.fsu.edu/environmental_science_BS.html.

ENVIRONMENTAL SCIENCE AND POLICY
Contact: Vinette Burns, 404 Love, 644 7443
A minimum of fifteen semester hours which must include two of the following; MET 1010 (or MET 2700), GLY 2010C or OCE 4008, AND any two courses from the Environmental Science and Policy electives AND one class from the Required Policy Courses list, see http://www.academic-guide.fsu.edu/environmental_science_BA.html.

ENVIRONMENTAL STUDIES
Program Office: 323 Bellamy, 644-1706
A minor in Environmental Studies consists of 15 hours, including GEO 1330 (3) Environmental Science and GEO 2200C (3) Physical Geography, and one course each from Groups II Natural Science Electives, III Social Science Electives, and IV Methods Electives (total 9 credit hours). All courses must be completed with grades of "C-" or better. If an environmental studies minor is combined with a geography major, GEO 2200C and one other course (up to six credits total) may be applied to both the major and the minor. For more information and approved courses, see www.coss.fsu.edu/geography/Students/environmental_study.html.

FILM STUDIES
Program Office: A3100 University Center, 644-4927
This interdisciplinary minor requires the completion of 15 hours in courses approved for Film Studies. All students are required
to complete either FIL 2001 Introduction to Film or FIL 2030 History of Motion Picture and 12 additional hours selected from the list of approved courses. For a current list of approved courses contact the department or visit the website at http://film.fsu.edu/Undergraduate-Programs/Minor-in-Film-Studies.

FREE ENTERPRISE AND ETHICS
Program Office: Dept. of Finance, 311 Rovetta Business Building A, 644-3892
This minor is open only to majors in the COB who have a 3.2 GPA or higher. Students must apply for the minor in person in 311RBA. The minor is 12 credits and includes satisfactory completion (C- or higher) of BUL 3310 and GEB 4455. In addition, two courses must be satisfactorily completed outside of the COB from a list of approved courses. For more information on the minor and to view the list of approved courses, visit http://www.cob.fsu.edu/Academic-Programs/Departments/Finance/Academic-Programs/Minor-in-Free-Enterprise-and-Ethics/More-Information.

FRENCH
Program Office: 364 Diffenbaugh, 644-2606
Twelve (12) semester hours in French courses numbered above 1999 are required for the minor. However, if FRE 2211 is used to meet the foreign language requirement, it may not be counted toward the minor. A minimum grade of C- must be earned for all courses taken for the minor. Upon request, an official certificate will be issued by the departmental Undergraduate Office, Room 364 Diffenbaugh, certifying completion of the minor requirement.

GEOGRAPHY
Program Office: 323 Bellamy, 644-1706
The Geography minor consists of 15 semester hours of course work in the department, including: GEA 1000 World Geography; GEO 1400 Human Geography; GEO2200c Physical Geography or GEO1330 Environmental Science; GIS3015 Map Analysis or GEO4162c Spatial Data Analysis; and one additional GEO/GEA/GIS course at the 3000 or 4000 level. All courses must be completed with a grade of C- or better. A total of 6 hours may overlap between the environmental studies major and the geography minor.

GEOLOGICAL SCIENCES
Program Office: Dr. William Parker, 207 Carraway, 644-1568
The minor requires a minimum of 12 hours in geology, including GLY 2010C and GLY 2100/2100L. At least 4 hours must be at the 3000 level or higher.

GERMAN
Program Office: 364 Diffenbaugh, 644-2606
The minor consists of 12 hours in German above the 1999 level. Credit extended in meeting the foreign language requirement or for any other major, may not be used in satisfying the minor. Upon request, the department will issue a certificate of completion.

HEBREW
Program Offices: 364 Diffenbaugh, 644-2606 or 314 Dodd Hall, 644-1020
A Hebrew minor will consist of 18 hours, at least 15 of which must be Biblical and Modern Hebrew language courses. The other 3 hours may be in any other Semitic language (Arabic, Aramaic and Syriac are currently offered at FSU). Note that courses counting toward any University language requirement cannot be counted toward the minor. For more information, contact David Levenson in the Religion Department, dlevenson@fsu.edu.

HISPANIC MARKETING COMMUNICATION
Program Office: UCC 4129; 644-8766
The Hispanic Marketing Communication minor gives students an interdisciplinary approach to the study of the Hispanic market. The minor consists of 12 semester hours to include ADV 3410 Hispanic Marketing Communications and three credits in each of three core areas: modern literature or practical language application, business and marketing strategies/behavioral theory, and Hispanic history and cultural studies. A formal application is required. For more information and to see the complete requirements, please visit http://hmc.comm.fsu.edu/Courses-Programs/Programs/HMC-Undergraduate-Minor or contact Dr. Felipe Korzenny at 644-8766.

HISTORY
Program Office: 421A Bellamy, 644-4494
A minor in History consists of 12 hours beyond the Liberal Studies requirement in history courses numbered above the 2999 level. A grade of C- or higher must be earned in each course counted toward the minor. At least 6 of these hours must be earned at FSU. Directed individual studies, tutorials, and test credit may not be counted toward the minor.

HISTORY AND PHILOSOPHY OF SCIENCE
Program Office: 001 Diffenbaugh; 644-7248
This interdisciplinary minor is 12 hours and must include one Philosophy of Science and one History of Science course. Coursework used for this minor may not also be used to satisfy Liberal Studies or a major. A grade of C- or higher must be earned in each course. For more information, see http://hps.fsu.edu/Students/Undergraduate-Minor.

HOSPITALITY MANAGEMENT
Program Office: 4100 University Center B; 644-4787
The Hospitality Management minor consists of 12 hours, including both HFT 1000 (3) Introduction to Hospitality and Tourism and HFT 3240 (3) Managing Service Organizations. The remaining two courses (6 hours) must be selected from: HFT 2060, HFT 2061, HFT 2062, HFT 2061, HFT 2716, HFT 2890, HFT 3519, HFT 3602, HFT 3700, HFT 4604, or HFT 4930. All courses must be completed at FSU and students must earn a minimum grade of C- in all courses used to satisfy the minor. Upon completion of the required courses, students should contact the Dedman School of Hospitality, 4107 UCB, to have a memorandum confirming completion of the minor sent to their major departments/colleges.

HUMANITIES
Program Office: 432 Diffenbaugh; 644-9121
Courses taken to satisfy the Humanities minor may not also be used to meet any other requirement. There are two options. The first is twelve (12) hours of coursework with an HUM prefix. The second option is fifteen (15) hours, nine (9) of which must be taken in one of the Humanities departments listed below and six (6) from one other listed Humanities department; six (6) of the fifteen (15) hours must be numbered above 2999. The Humanities departments/areas that may be used for the minor are: American Studies, Art History, Asian and Middle Eastern Studies, Classical Studies, Communication, English, Film Studies, History, History and Philosophy of Science, Human Rights, Humanities, Music History, Philosophy, Religion, Theater.

IBERIAN STUDIES VALENCIA CENTER MINOR
Program Office: International Programs, A5500 University Center, 644-3272
This interdisciplinary minor requires the completion of 15 hours (to include at least two disciplines) in courses approved by the coordinating committee. At least nine hours of approved courses must be taken while the student is in residence at the FSU Valencia Study Center. A maximum of nine hours may be counted in a single academic discipline. A minimum grade of C- must be earned in all courses taken for the minor. In addition, a minimum cumulative GPA of 2.0 must be maintained in all courses counted toward the minor. Students who plan to minor in Iberian Studies should declare their intention in the International Programs Office at the end of their semester in Valencia.

INFORMATION TECHNOLOGY
Program Office: 4115 UCC, 644-7278
The minor requires completion of twelve (12) credit hours: LIS2780, LIS3353, and any two of the following: LIS3021, LIS3201, LIS3267, LIS4410 or LIS4480. Only course work with a grade of “C-” or above in these courses will count toward the minor. At least six (6) hours of the minor must be taken with the School of Library and Information Studies at the Florida State University. Courses taken at another institution must be evaluated by the School of Library and Information Studies to determine equivalency. Courses taken to meet the minor are not applicable to any other requirement.

INTERNATIONAL AFFAIRS
Program Office: 211 Bellamy, 644-4418
A minor consists of 18 hours of course work beyond Liberal Studies (or courses used to satisfy general education requirements for an A.A. degree), with a grade of C- or higher in each course. Work must be taken in at least three of the participating departments; all courses must be from the approved list (see http://www.coss.fsu.edu/inaprogr/content/undergraduate-course-list). Modern language courses numbered above 2999 may count toward the minor and a maximum of six semester hours of directed individual studies or internship credits may apply to the minor. Nine of the 18 hours must be numbered above 2999.

ITALIAN
Program Office: Modern Languages, 364 Diffenbaugh, 644-2606
The minor requires 12 hours in Italian above the 1999 level. Credit extended in meeting the foreign language requirement for graduation may not be used in satisfying the minor.

ITALIAN STUDIES FLORENCE CENTER MINOR
Program Office: International Programs, A5500 University Center, 644-3272
This interdisciplinary minor requires the completion of 15 hours in courses approved by the Italian Studies Florence Center Minor Coordinating Committee. At least 9 hours of approved courses must be taken in residence at the Florence Study Center. A maximum of 9 hours may be counted in a single academic discipline. A minimum grade of C- must be earned in all courses taken for the minor and a minimum cumulative GPA of 2.0 must be maintained in all courses counted toward the minor. Students who plan to minor in Italian Studies should declare their intention in the International Programs office at the end of their semester in Florence.

JAPANESE
Program Office: Modern Languages, 364 Diffenbaugh, 644-2606
The minor requires 12 hours in Japanese above JPN 1121. Credit extended in meeting the foreign language requirement for graduation may not be used in satisfying the minor.

LATIN AMERICAN AND CARIBBEAN STUDIES
Program Office: 211 Bellamy, 644-4418
Students minoring in Latin and Caribbean Studies must complete 18 hours of Latin and Caribbean Studies coursework beyond the Liberal Studies requirement (or courses used to satisfy general education requirements for an A.A. degree). None of the
broader comparative concepts and theories courses will count towards the 18 hour minimum. Students may select freely from all area-specific courses. Contact the department for additional information, [http://www.coss.fsu.edu/lacs/](http://www.coss.fsu.edu/lacs/).

**LAW AND PHILOSOPHY**  
Program Office: 151 Dodd Hall (644-1483)  
The minor consists of 12 credit hours, including Philosophy of Law (PHM 3400), one course in logic (PHI 2100, PHI 3130 or PHI 3162), and six hours from: PHI 2620, PHI 2635, PHI 3670, PHM 3351. At least 6 hours must be at the 3000 level or higher. Grades below C- will not apply for minor credit.

**LAW AND SOCIETY**  
Program Office: 101 Bellamy, 644-5470  
The minor in Law and Society consists of at least five courses (15 hours) from the designated Law and Society curriculum, including: POS 3691 Introduction to Law and Society and either SYP 3540 Sociology of Law or ECP 3451 Economics and the Law. The remaining three courses must come from the list of approved courses (available in 101 Bellamy or online at [http://www.coss.fsu.edu/iss/content/undergraduate-major-social-sciences-emphasis-law-and-society](http://www.coss.fsu.edu/iss/content/undergraduate-major-social-sciences-emphasis-law-and-society)).

**LAW ENFORCEMENT INTELLIGENCE**  
Panama City Campus: 215 Barron Building, 850-770-2178  
Intelligence applies a problem-solving approach to a discipline. The three primary disciplines that apply Intelligence are: National Security, Law Enforcement, and Business. Our curriculum focuses on law enforcement, however, students with a major in Business or a major applicable to National Security (such as modern languages, history, political science, international studies, etc.) may wish to enhance their degree with an Intelligence minor. The four courses (12 credits) required for an Intelligence minor are: CCJ 4744, Evidential Reasoning for Research & Investigation; CJE 3732, Criminal Intelligence; CJE 4733, The Intelligence Process; and CJE 4734 Intelligence Collection Strategies. This minor is available to students on both the main campus (online) and the Panama City campus.

**LINGUISTICS**  
Program Office: Modern Languages, 364 Diffenbaugh, 644-2606  
Linguistics is the study of the nature of language. There are linguistic applications in many disciplines. Interested students should speak with the linguistics adviser who will help them design minor programs to meet their personal and professional needs. The minor requires at least 12 hours from the following Linguistics courses. Two of these must be core courses: LIN 3041, LIN 4030, LIN 4040, LIN 4512 or LIN 4905. Other courses include: ANT 4640, LIN 3010, LIN 3710, LIN 4930, LIN 5772, EXP 4640, PHI 3220.

**MATHEMATICS**  
Program Office: 222 Love Building, 644-5868  
The minor requires 12 hours in courses with prefixes MAA, MAC, MAD, MAP, MAS, MAT, MGF, MHF, MTG, but may not include MAC 2233 or any course numbered 1XXX. A grade of C- or higher must be earned in each course counted towards the minor.

**MEDIEVAL STUDIES**  
Program Office: 364 Diffenbaugh, 644-2606  
This undergraduate interdisciplinary minor focuses on the culture of the pre-modern era in Europe (both East and West) and the Middle East. In consultation with the program advisor, the student is able to create his/her own curriculum, consisting of 15 hours of approved coursework beyond the Liberal Studies and major requirements. The minor must include two courses in one field of concentration (medieval art history, medieval history, or medieval texts and cultures) and three additional courses from an approved list.

**METEOROLOGY**  
Program Office: 404 Love Building, 644-6205  
The minor in Meteorology requires a minimum of 12 hours. 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 need to be matched to the student’s academic background. A minor in Meteorology usually begins with: MET 1010/1010L, MET 2700, and MET 2101. Note: MAC 2311 and CHM 1045/1045L are prerequisites to MET 2700 and PHY 2048C is a co-requisite. Prerequisite and co-requisite courses may not apply toward the minor.

**MIDDLE EASTERN STUDIES**  
Program Office: 401 Bellamy, 644-9516  
The minor consists of 15 semester hours and must include intermediate level (2200 level) competence in Hebrew (Biblical or Modern), Arabic, or another Middle Eastern language approved by the committee. The remaining hours must come either from the courses listed in the FSU Bulletin or be approved by an adviser. No more than eight (8) semester hours of language courses may be counted toward the minor, and no course taken for the minor may be used to fulfill any university language requirement.

**MILITARY SCIENCE**  
Program Office: 201 Harpe-Johnson Hall, 644-1016
A Military Science minor is offered and may be selected by a student with the approval of the major department and the Department of Military Science. The minor requires a minimum of 12 hours of upper-division coursework.

**MUSEUM STUDIES**

Program Office: 1019 WJB, 644-1250

A minor in Museum Studies is offered through the Art History Department and requires 15 hours. Of these, 6 hours are in museum studies courses, 3 hours are in a related elective, and the remaining 6 hours are taken in supervised internship. Students wishing to minor in Museum studies should download, complete and submit the declaration form, available online at [http://arthistory.fsu.edu/Undergraduate/Programs/Minors](http://arthistory.fsu.edu/Undergraduate/Programs/Minors).

**MUSIC**

Program Office: 204D Housewright Music Bldg., 644-4833

Admission to the program is (a) by approval of the College of Music and (b) by a placement audition at the principal level in an acceptable instrument or voice. Students must complete a minimum of 25 hours of specified coursework in the following areas: Applied Music, Music Theory, Music History/Literature, Ensemble, and Student Recital Attendance.

**NAVAL SCIENCE**

Program Office: Perry Paige Building, Florida A & M University; 599-3980

The Naval ROTC Program serving TCC, FAMU, and FSU students is located on the FAMU campus. Participating FSU students register for coursework through the FAMU-FSU Cooperative Program. Interested students should obtain further information and an application from the program office. The minor is 12 hours of upper-division coursework.

**PHILOSOPHY and POLITICAL PHILOSOPHY**

Program Office: 151 Dodd Hall, 644-1483

A minor in philosophy requires 12 hours in philosophy, including at least one course in logic (PHI 2100 or PHI 3130) and one of history (PHH 3061, PHH 3130, PHH 3140, PHH 3400, PHH 3500). At least 6 hours must be at the 3000 level or higher. Grades below C- will not apply for minor credit.

A political philosophy minor requires 12 hours, including a logic course (PHI 2100 or PHI 3130) and 9 hours from: PHM 2121, PHM 2300, PHM 3123, PHM 3331r, PHP 3510, PHM 3400, PHM 4340. At least 6 hours must be at the 3000 level or higher. Grades below C- will not apply for minor credit.

**PHYSICS**

Program Office: 306-307 Keen, 644-3245

The minor in physics consists of PHY 2048C and 2049C (General Physics A & B) plus PHY 3101. Grades below C- will not be accepted for minor credit.

**POLITICAL SCIENCE**

Program Office: 535 Bellamy, 644-7305

A minor in political science requires 15 hours of political science with grades of C- or higher. A maximum of 6 hours of PAD and/or PHM prefixes combined is allowed. At least 9 hours must be at the 3000 level or above, and at least 6 of those must be earned at Florida State University.

**PORTUGUESE**

Program Office: Modern Languages, 364 Diffenbaugh, 644-2606

The minor consists of 12 hours in Portuguese above 1999. Credit extended in meeting the foreign language requirement may not be used in satisfying the minor. Consult the department for more information.

**PSYCHOLOGY**

Program Office: A209 PDB, 644-4260

Twelve (12) hours of psychology, including PSY 2012, are required for a minor in psychology. A minimum of six (6) of the required hours must be completed at FSU. Grades below C- will not be accepted for credit toward the minor. Courses taken S/U cannot count for the minor and courses with a WST prefix cannot count for the minor. Courses taken at another university or community college must be evaluated by the Psychology Department Advising Office. No courses used to satisfy Liberal Studies requirements may also count toward the minor. Thus, if a student has taken PSY 2012 for Liberal Studies, s/he must take another approved social science course to replace it.

**PUBLIC ADMINISTRATION**

Program Office: 627 Bellamy, 644-3525

The minor in Public Administration consists of four courses (12 hours) that are passed with a grade of C (not C-) or higher. This minor is not available to Political Science majors. The School of Public Administration and Policy recognizes successful completion of the minor with a certificate.

**PUBLIC SAFETY AND SECURITY**

Panama City Campus Office: 215 Barron Building, 850-770-2178

Complement your major and career skills with education in public safety and security. This minor is available to undergraduate students on both the main campus (online) and the Panama City campus. The minor requires four courses (12 credits) including CCJ 3024 The Criminal Justice System plus three of the core or major requirements in a particular Public Safety major.
RECREATION, TOURISM AND EVENTS
Main Campus Office: 308 Kellogg, 850-645-9774
Panama City Campus Office: A111-I Holley Academic Center, 850-770-2239
Compliment your major and career skills with education in leadership, special events, and recreation programming. This minor is available to undergraduate students on both the main campus and Panama City campus. Registration for the minor is required. The minor requires four courses (12 credits) including LEI 3004 Intro. to Recreation plus any three of the following courses: LEI 3312 Intro. to Special Events, LEI 3420 Recreation Activity Leadership, LEI 3435 Recreation Program Design, LEI 3843 Commercial Recreation and Tourism, or LEI 4524 Leadership and Supervision in Leisure Systems.

RELIGION
Program Office: M05 Dodd Hall, 644-1020
The minor requires 12 hours of coursework in the department, completed with a C- or higher. Six hours must be at the 3000 level or higher. Coursework used to satisfy Liberal Studies or major requirements may not also be used for the minor.

RUSSIAN (SLAVIC)
Program Office: Modern Languages, 364 Diffenbaugh, 644-2606
The minor requires 12 hours of coursework above the 1999 level. Credit extended in meeting the foreign language requirement for graduation may not be used in satisfying the minor.

RUSSIAN AND EAST EUROPEAN STUDIES
Program Office: 211 Bellamy, 644-4418
Students minoring in the program must complete 18 hours of Russian and East European coursework beyond the Liberal Studies requirement (or courses used to satisfy general education requirements for an A.A. degree). None of the broader comparative concepts and theories courses will count towards the 18 hour minimum. Students may select freely from all area-specific courses. Contact the department for additional information, http://www.coss.fsu.edu/russia/

SOCIAL WELFARE
Program Office: 2414C University Center, 644-9740
The minor in Social Welfare requires 13 hours, including SOW1054, SOW3203, SOW3350 plus two SOW electives from an approved list. A B- or better grade must be earned in all minor courses. This minor requires an application that is available in 2414C University Center.

SOCIOLOGY
Program Office: 526 Bellamy, 644-6416 or 644-5470
The Sociology minor requires 15 hours in sociology with a grade of C- or better in each course. At least 9 hours in Sociology must be completed at FSU.

SOCIOLOGY OF HEALTH AND AGING
Program Office: 526 Bellamy. 644-6416 or 644-8329
The minor in the Sociology of Health and Aging consists of 12 semester hours of coursework selected from the following courses, each of which is offered at least once a year: SYD 3020, SYO 4402, SYP 3730, SYP 4550, SYP 4764, or SYA 4930 (maximum of 6 hours of SYA 4930). All courses must be completed with a grade of C- or better and 9 of the 12 hours must be completed at Florida State University.

SPANISH
Program Office: Modern Languages, 364 Diffenbaugh, 644-2606
The minor requires 15 hours in Spanish coursework above 2220, including at least 3 hours in Spanish literature. (SPN 2240 may apply.) SPT 3130 will not count for minor credit. Courses used to satisfy the Arts and Sciences or B.A. degree language requirement may not be used to satisfy the minor.

STATISTICS
Program Office: 214 Oceanography-Statistics Bldg., 644-3218
The minor in statistics requires 12 hours in statistics, including one of the following: STA 2122, STA 2171, STA 3024, STA, 3032, STA 4321, or STA 4442. The remaining 9 hours of coursework must be completed at the 3000 level or higher and should be selected in consultation with the director of the undergraduate statistics program. A grade of C- or higher must be earned in each course counted toward the minor. At least six (6) hours in statistics courses counted toward the minor must be taken in the Department of Statistics at FSU. Other statistics courses must be approved by the department.

STRATEGIC EUROPEAN LANGUAGES AND CULTURES (SELC)
Program Office: Modern Languages, 364 Diffenbaugh, 644-2606
The minor focuses on the languages and cultures of three historically and strategically linked regions that form an “arc” along the eastern edge of the EU: Russia and Ukraine, the Balkans, and Turkey. The minor consists of twelve approved semester hours taken in the Department of Modern Languages and Linguistics beyond liberal studies and major requirements. A list of approved courses may be obtained from the department undergraduate office.

URBAN AND REGIONAL PLANNING
Program Office: 330 Bellamy Building, 644-4510
The Minor in Urban and Regional Planning requires satisfactory completion of 4 courses. There are three required courses, URS 1006, URP 3000 and URP 4022, and one URP elective course. URP 3000 (3) Introduction to Planning and Urban Development is prerequisite for all other 3000 level and above courses. A Pre-Graduate Program is available for students who wish to enter the department's Master of Science in Planning Program. Students interested in the Pre-Graduate Program should contact the department for more information. See http://www.coss.fsu.edu/durp/degree-programs/undergraduate-programs for more information.

WOMEN'S STUDIES
Program Office: A208 PDB, 644-9514
The minor requires at least 15 hours of approved courses, distributed as follows: a) at least 3 hours of interdisciplinary women's studies courses selected from WST 3015, WST 3251, WST 4930r, or WST 4931; b) at least 9 hours of cross-listed core courses; and c) the remaining three hours may be selected from approved WST courses, cross-listed core courses, approved special topics courses or related courses. Coursework must be at the 3000-4000 level. Only one approved course from the student's major field may count toward the women's studies minor, if the course has not been used toward the major. Courses counted toward the minor may not be used to fulfill Liberal Studies. 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.

WORLD LITERATURE/WORLD FILM
Program Office: 364 Diffenbaugh, 644-2606
The minor consists of 15 hours selected from any of the following: CHT 3391r, 3930r; FRT 3140, 3520r, 3561; GET 3130, 3524r; ITT 3430, 3523r; JTP 3391r; PRT 3391r; RUT 3110, 3523r; SPT 3130, 3391r. Courses taken for major credit in Modern Languages may not be counted toward this minor.

OTHER PROGRAMS
PRE-HEALTH PROFESSIONS ADVISING OFFICE
Program Office: 2140 Medical School Building, 1115 W. Call St.; 644-7678
The Pre-Health Professions Advising Office provides academic advising and counseling to students interested in pursuing careers in the health sciences. The office offers help to students interested in medicine, dentistry, veterinary medicine, pharmacy, optometry, podiatry, chiropractic and physician's assistant. A full time Health Professions Advisor meets regularly with students throughout their college years assisting with career goals, course scheduling, long-term academic planning and professional school admissions procedures. Students are encouraged to meet with an advisor at least once each semester.

PRE-MED CURRICULUM/ADVISING
Program Office: 2140 Medical School Building, 1115 W. Call St.; 644-7678
A pre-medical student may choose any undergraduate major while completing the premedical curriculum. In a four year graduation plan, the curriculum should be planned in such a way that a minimum of one year of general biology, two years of chemistry (general and organic) and year of physics are completed by the end of the third undergraduate year. This will assure adequate preparation for the Medical College Admissions Test (MCAT) which will be taken and the end of the junior year, or at the beginning of the senior year. Biochemistry should be taken prior to graduation for students applying to Florida State University College of Medicine and the College of Medicine at the University of Florida. Students should apply to medical schools the summer after their junior year.

Specific premedical requirements include: Biology I & II with labs (BSC 2010/2010L & BSC 2110/2110L), Chemistry I & II with labs (CHM 1045/1045L & CHM 1046/1046L), Organic Chemistry I, II with lab (CHM 2210 & CHM 2211L), Biochemistry (BCH 4624 or both BCH 4053 and BSC 4053L), Physics A (PHY 2053C or PHY 2048C), Physics B (PHY2054C or PHY 2049C). Though not required, Genetics (PCB 3063) and General Psychology (PSY 2012) are recommended. Students should check with each medical school to which they plan to apply regarding that school's specific requirements.

TEACHER EDUCATION
Program Office: 2301 Stone, 644-3760
Students must meet State Board of Education Rule 6A-5.066(1), Approval of Pre-service Teacher Preparation Programs. This states that students planning to matriculate in a teacher education program at FSU must: 1) complete a sound liberal arts curriculum, 2) take and pass the general knowledge portion of FTCE, 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 specified degree prerequisites, specific admission criteria, and “General Requirements” as described in the General Bulletin.

Criteria for Admission to Teacher Education Programs
1. Have at least a 2.5 (on a 4.0 scale) grade point average (GPA) on all college work attempted;
2. Have a grade of C- or better in each required general education (Liberal Studies) English and each general education (Liberal Studies) mathematics course;
3. Take and achieve a passing score on all sections of the general knowledge portion of FTCE;
4. Be approved by the appropriate teacher education department in accordance with departmental criteria;
5. Be fingerprinted and undergo and pass a security clearance; and
6. Receive final approval by the Office of Academic Services.

NOTE: These are minimum standards. Some programs may set higher standards.