Historical Departmental Program Changes, 1998-2007
Undergraduate Programs

Following are the catalog listings for the core and for undergraduate programs from the first catalog following semester conversion (1998-1999) and the latest one to be published. On both versions, substantive program alterations have been highlighted.

Portions that are shaded in gray indicate a new program requirement or option that has been added since the 1998 catalog. Example: new degrees, concentrations, admission requirements, required courses, and elective courses.

Portions that are shaded in yellow indicate a change to the program. Example: changes in titles, hours, or numbers have been shaded in yellow.

Portions that are shaded in pink indicate requirements or options in the 1998-1999 catalog that no longer appear in the latest edition and that are no longer implemented in the current program.

Please note that listings for Bachelor of Interdisciplinary Studies and stand-alone minors are not included in the following document as they were created recently; the B.I.S. in Theatre and the Minor in Military Science are exceptions to this rule, as the B.A. in Theatre was discontinued only to have its focus reemerged in a B.I.S. and the Minor in Military Science is the only program offered by the department.

For easy navigation, please use the bookmarks embedded in the document. You can see a list of bookmarks by clicking on the bookmark icon or tab to the left of the screen.
Georgia State University requires all students seeking a baccalaureate degree to satisfactorily complete a basic core of general education subjects. Georgia State’s core curriculum provides students with a broad background in general education and reflects the special mission of this university as an urban research institution with an international, multi-ethnic, and multi-cultural focus. Because of ongoing evaluation changes may occur in the core curriculum. Every attempt will be made to notify students when these changes occur.

Areas A through E of the core curriculum are designed to provide students with a wide array of courses as a means of gaining a basic education in the liberal arts and assisting students in their choice of a major. Students should normally choose among the courses in areas A to E and select a major before taking courses in Area F. Students who have chosen a major before the completion of Areas A through E can review the departmental sections of the catalog to see specific recommendations for course selection. Some programs, such as art, music, and nursing, require students to begin major-related coursework in their freshman year to meet course sequencing requirements.

There are restricted choices for some majors in Areas A and D. Students must follow the degree-specific requirements listed in Areas A and D for the programs they are pursuing.

Students who are planning to transfer to Georgia State from other institutions in the University System of Georgia should note that this is Georgia State’s core curriculum and is to be followed by students who choose to complete the core curriculum at this university. The core curriculum at a student’s current University System of Georgia institution may contain different courses. However, Georgia State will grant credit for any approved core curriculum course taken at a student’s current University System of Georgia home institution even if it is different from the course offered at Georgia State. Students should also remember that they may have only one University System of Georgia home institution at a time. Students who have transferred to Georgia State must petition for permission to take core curriculum courses elsewhere after they have enrolled.

The core curriculum completed at one System institution is fully transferable to another System institution for the same major. However, specific situations may result in minor exceptions to this general rule. Students seeking credit for University System of Georgia core curriculum courses that were not accepted during Georgia State’s admissions process or who believe that the system rules of transferability of the core curriculum are not being honored can make an appeal to the Core Curriculum Transfer Ombudsperson, Dr. George Rainbolt, at grainbolt@gsu.edu. Appeals should be initiated by filling out a form available in the Student Advisement Center, 255 Sparks Hall.

### 1410.05 Regents’ Reading and Writing Requirements (6)

- **RGTR0198** Regents’ Reading Skills
- **RGTE0199** Regents’ Writing Skills

Instead of taking these courses, students may satisfy these requirements by passing the Regents’ Reading Test and the Regents’ Writing Test. Waivers based on SAT, ACT, AP and IB scores are also possible. Students must register for RGTR 0198 and RGTE 0199 if they’ve earned 45 hours and have not satisfied both requirements by waiver. The tests are the final exams for the courses and must be passed to pass the courses. RGTR 0198 and RGTE 0199 do not count towards the 120 hours required for graduation. For details, see Section 1420.

### 1410.10 Area A: Essential Skills (9)

1. **English Composition Requirements (6)**
   - **Engl 1101** English Composition I (3)
   - **Engl 1102** English Composition II (3)

Students who satisfy the Advanced Placement Standard of the Department of English may take Engl 1103 in lieu of Engl 1101 and Engl 1102. Students who select this option will choose an additional humanities course from core Area.
A grade of C or higher is required in Engl 1101 and Engl 1102, or in Engl 1103 (open to qualified students with departmental consent), in order to receive degree credit.

2. Mathematics Requirement: Select one. (3-4)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 1101</td>
<td>Introduction to Mathematical Modeling</td>
<td>(3)</td>
</tr>
<tr>
<td>Math 1111</td>
<td>College Algebra</td>
<td>(3)</td>
</tr>
<tr>
<td>Math 1220</td>
<td>Survey of Calculus</td>
<td>(3)</td>
</tr>
<tr>
<td>Math 1113</td>
<td>Precalculus</td>
<td>(3)</td>
</tr>
<tr>
<td>Math 2211</td>
<td>Calculus of One Variable I</td>
<td>(4)</td>
</tr>
<tr>
<td>Math 2212</td>
<td>Calculus of One Variable II</td>
<td>(4)</td>
</tr>
<tr>
<td>Math 2215</td>
<td>Multivariate Calculus</td>
<td>(4)</td>
</tr>
<tr>
<td>Math 2420</td>
<td>Discrete Mathematics</td>
<td>(3)</td>
</tr>
</tbody>
</table>

If a 4 hour course is selected, the additional hour will be counted in Area F or Area G. Majors in biology, chemistry, computer science, geology, mathematics, science and math education, and physics are required to take Math 1113 or higher in Area A. Business students are encouraged to take Math 1113 or higher in Area A. Exercise Science students are encouraged to take Math 1111 in Area A.

1410.20 Area B: Institutional Options (4)

Additional information about institutional options is available online at http://www2.gsu.edu/~wwwugs/areab.html.

Select two courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phil 1010</td>
<td>Critical Thinking</td>
<td>(2)</td>
</tr>
<tr>
<td>Spch 1000</td>
<td>Human Communication</td>
<td>(2)</td>
</tr>
<tr>
<td>Pers 2001</td>
<td>Perspectives on Comparative Culture</td>
<td>(2)</td>
</tr>
<tr>
<td>Math 1101</td>
<td>Introduction to Mathematical Modeling</td>
<td>(3)</td>
</tr>
<tr>
<td>Math 1111</td>
<td>College Algebra</td>
<td>(3)</td>
</tr>
<tr>
<td>Math 1220</td>
<td>Survey of Calculus</td>
<td>(3)</td>
</tr>
<tr>
<td>Math 1113</td>
<td>Precalculus</td>
<td>(3)</td>
</tr>
<tr>
<td>Math 2211</td>
<td>Calculus of One Variable I</td>
<td>(4)</td>
</tr>
<tr>
<td>Math 2212</td>
<td>Calculus of One Variable II</td>
<td>(4)</td>
</tr>
<tr>
<td>Math 2215</td>
<td>Multivariate Calculus</td>
<td>(4)</td>
</tr>
<tr>
<td>Math 2420</td>
<td>Discrete Mathematics</td>
<td>(3)</td>
</tr>
</tbody>
</table>

Note: A math placement test is recommended for all students who do not have credit for an Area A math course and is required for students who wish to take Math 1111, College Algebra, or higher. The test is offered at scheduled times in the university’s testing center. See http://www.gsu.edu/testing and click on Math Placement.

1410.30 Area C: Humanities and Fine Arts (6)

Select two courses from groups 1, 2, and 3 below. The two courses may not come from the same group.

1. Humanities

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engl 2110</td>
<td>World Literature</td>
<td>(3)</td>
</tr>
<tr>
<td>Engl 2120</td>
<td>British Literature</td>
<td>(3)</td>
</tr>
<tr>
<td>Engl 2130</td>
<td>American Literature</td>
<td>(3)</td>
</tr>
<tr>
<td>Phil 2010</td>
<td>Great Questions of Philosophy</td>
<td>(3)</td>
</tr>
</tbody>
</table>
### 2. Fine Arts

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AH 1700</td>
<td>Survey of Art I</td>
<td>(3)</td>
</tr>
<tr>
<td>AH 1750</td>
<td>Survey of Art II</td>
<td>(3)</td>
</tr>
<tr>
<td>AH 1850</td>
<td>Survey of Art III</td>
<td>(3)</td>
</tr>
<tr>
<td>Film 2700</td>
<td>History of the Motion Picture</td>
<td>(3)</td>
</tr>
<tr>
<td>MuA 1500</td>
<td>Jazz: Its Origins, Styles, and Influence</td>
<td>(3)</td>
</tr>
<tr>
<td>MuA 1900</td>
<td>Dramatic Music from the Renaissance through the Twentieth Century</td>
<td>(3)</td>
</tr>
<tr>
<td>MuA 1930</td>
<td>Survey of Music from Bach to Bernstein</td>
<td>(3)</td>
</tr>
<tr>
<td>Thea 2040</td>
<td>Introduction to Theatre</td>
<td>(3)</td>
</tr>
</tbody>
</table>

### 3. Foreign Language

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arbc 1002</td>
<td>Elementary Arabic I</td>
<td>(3)</td>
</tr>
<tr>
<td>Arbc 2001</td>
<td>Intermediate Arabic I</td>
<td>(3)</td>
</tr>
<tr>
<td>Arbc 2002</td>
<td>Intermediate Arabic II</td>
<td>(3)</td>
</tr>
<tr>
<td>Chin 1002</td>
<td>Elementary Chinese II</td>
<td>(3)</td>
</tr>
<tr>
<td>Chin 2001</td>
<td>Intermediate Chinese I</td>
<td>(3)</td>
</tr>
<tr>
<td>Chin 2002</td>
<td>Intermediate Chinese II</td>
<td>(3)</td>
</tr>
<tr>
<td>Fren 1002</td>
<td>Elementary French II</td>
<td>(3)</td>
</tr>
<tr>
<td>Fren 2001</td>
<td>Intermediate French I</td>
<td>(3)</td>
</tr>
<tr>
<td>Fren 2002</td>
<td>Intermediate French II</td>
<td>(3)</td>
</tr>
<tr>
<td>Grmn 1002</td>
<td>Elementary German I</td>
<td>(3)</td>
</tr>
<tr>
<td>Grmn 2001</td>
<td>Intermediate German I</td>
<td>(3)</td>
</tr>
<tr>
<td>Grmn 2002</td>
<td>Intermediate German I</td>
<td>(3)</td>
</tr>
<tr>
<td>Grka 1002</td>
<td>Elementary Greek I</td>
<td>(3)</td>
</tr>
<tr>
<td>Grka 2001</td>
<td>Intermediate Greek I</td>
<td>(3)</td>
</tr>
<tr>
<td>Grka 2002</td>
<td>Intermediate Greek II</td>
<td>(3)</td>
</tr>
<tr>
<td>Grkm 1002</td>
<td>Elementary Modern Greek II</td>
<td>(3)</td>
</tr>
<tr>
<td>Grkm 2001</td>
<td>Intermediate Modern Greek I</td>
<td>(3)</td>
</tr>
<tr>
<td>Grkm 2002</td>
<td>Intermediate Modern Greek II</td>
<td>(3)</td>
</tr>
<tr>
<td>Hbrm 1002</td>
<td>Elementary Hebrew I</td>
<td>(3)</td>
</tr>
<tr>
<td>Hbrm 2001</td>
<td>Intermediate Hebrew I</td>
<td>(3)</td>
</tr>
<tr>
<td>Hbrm 2002</td>
<td>Intermediate Hebrew II</td>
<td>(3)</td>
</tr>
<tr>
<td>Ital 1002</td>
<td>Elementary Italian I</td>
<td>(3)</td>
</tr>
<tr>
<td>Ital 2001</td>
<td>Intermediate Italian I</td>
<td>(3)</td>
</tr>
<tr>
<td>Ital 2002</td>
<td>Intermediate Italian II</td>
<td>(3)</td>
</tr>
<tr>
<td>Japn 1002</td>
<td>Elementary Japanese I</td>
<td>(3)</td>
</tr>
<tr>
<td>Japn 2001</td>
<td>Intermediate Japanese I</td>
<td>(3)</td>
</tr>
<tr>
<td>Japn 2002</td>
<td>Intermediate Japanese II</td>
<td>(3)</td>
</tr>
<tr>
<td>Kore 1002</td>
<td>Elementary Korean I</td>
<td>(3)</td>
</tr>
<tr>
<td>Latn 1002</td>
<td>Elementary Latin I</td>
<td>(3)</td>
</tr>
<tr>
<td>Latn 2001</td>
<td>Intermediate Latin I</td>
<td>(3)</td>
</tr>
<tr>
<td>Latn 2002</td>
<td>Latin Prose (3)</td>
<td></td>
</tr>
<tr>
<td>Prsn 1002</td>
<td>Elementary Persian I</td>
<td>(3)</td>
</tr>
<tr>
<td>Prsn 2001</td>
<td>Intermediate Persian I</td>
<td>(3)</td>
</tr>
<tr>
<td>Prsn 2002</td>
<td>Intermediate Persian II</td>
<td>(3)</td>
</tr>
<tr>
<td>Port 1002</td>
<td>Elementary Portuguese I</td>
<td>(3)</td>
</tr>
<tr>
<td>Port 2001</td>
<td>Intermediate Portuguese I</td>
<td>(3)</td>
</tr>
</tbody>
</table>

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*The College of Arts and Sciences recommends that B.A. majors and B.S. majors in broadfield social science with certification in secondary education, classical studies, international studies, and women's studies opt into a foreign language course in Area C.*
Complete the options listed under either majors other than natural sciences, health sciences, and mathematics or natural sciences, health sciences, and mathematics majors.

**Majors other than Natural Sciences, Health Sciences, and Mathematics:**

1. **Select one two-course sequence.** (8)
   - **Astr 1010**: Astronomy of the Solar System (4) and
   - **Astr 1020**: Stellar and Galactic Astronomy (4)
   - **Biol 1103K**: Introductory Biology I (4) and
   - **Biol 1104K**: Introductory Biology II (4)
   - **Chem 1101K**: Survey of Chemistry I (4)
   - **Chem 1102K**: Survey of Chemistry II (4)
   - **Chem 1211K**: Principles of Chemistry I (4) and
   - **Chem 1212K**: Principles of Chemistry II (4)
   - **Geog 1112**: Introduction to Weather and Climate (4) and
   - **Geog 1113**: Introduction to Landforms (4)
   - **Geol 1121K**: Introductory Geosciences I (4) and
   - **Geol 1122K**: Introductory Geosciences II (4)
   - **Phys 1111K**: Introductory Physics I (4) and
   - **Phys 1112K**: Introductory Physics II (4)
   - **Phys 2211K**: Principles of Physics I (4) and
   - **Phys 2212K**: Principles of Physics II (4)

The J. Mack Robinson College of Business recommends that B.B.A. students include a foreign language course in Area C. The College of Arts and Sciences recommends that B.A. students and specified B.I.S. students not include a foreign language course in Area C (See Section 3090.45 in the Arts and Sciences section of the catalog). Students in these degree programs should follow departmental recommendations on foreign language selection in Area F. The Andrew Young School of Policy Studies requires B.A. students majoring in economics to complete a foreign language in Area F.

Some foreign language courses are not open to native speakers of that language. Please consult the course description before making a selection in this area.

Placement exams in French, German, and Spanish are available. See Section 3130 for more information.

**1410.40 Area D: Science, Mathematics, and Technology (11)**

Complete the options listed under either majors other than natural sciences, health sciences, and mathematics or natural sciences, health sciences, and mathematics majors.
2. Select one course (must be from a discipline different from one selected in group 1 above). (3) Any course from Section D1 above (4)
   - Astr 1000: Introduction to the Universe (3)
   - Biol 2240: Human Physiology (3)
   - Biol 2300: Microbiology and Public Health (3)
   - Chem 1050: Chemistry for Citizens (3)
   - CSc 1010: Computers and Applications (3)
   - Geol 2001: Geologic Resources and the Environment (3)
   - Math 1070: Elementary Statistics (3)
   - Math 1113: Precalculus (3)
   - Math 1220: Survey of Calculus (3)
   - Math 2420: Discrete Mathematics (3)
   - Phys 2030K: Physical Science: Physics of Music and Speech (3)
   - Psyc 1100: Natural Science Aspects of Psychology (3)

   If a 4 hour course is selected, the additional hour will be counted in Area F or Area G.

   The Robinson College of Business recommends that B.B.A. students take Math 1070 in Area D. If it is not taken in Area D, it must be taken later in the program.
   Phys 2030K is recommended only for broadcast journalism, speech, theatre, and music majors.

   Biology, Chemistry, Computer Science, Geology, Mathematics, Physics, and Science and Math Education Majors: It is recommended that students select a sequence appropriate to the major.

1. Select one two-course sequence. (8)
   - Biol 2107K: Principles of Biology I (4) and
   - Biol 2108K: Principles of Biology II (4)
   - Chem 1211K: Principles of Chemistry I (4) and
   - Chem 1212K: Principles of Chemistry II (4)
   - Geol 1121K: Introductory Geosciences I (4) and
   - Geol 1122K: Introductory Geosciences II (4)
   - Phys 1111K: Introductory Physics I (4) and
   - Phys 1112K: Introductory Physics II (4)
   - Phys 2211K: Principles of Physics I (4) and
   - Phys 2212K: Principles of Physics II (4)

2. Select either Math 2211 (Calculus of One Variable), a course with a higher number that is appropriate to the major, or a course that has been approved by the major department (see individual departmental degree requirements).

   Nursing, Nutrition, and Respiratory Therapy Majors:
   1. Select one two-course sequence. (8)
      - Biol 1103K: Introductory Biology I (4) and
      - Biol 1104K: Introductory Biology II (4)
      - Chem 1151K: Survey of Chemistry I (4) and
      - Chem 1152K: Survey of Chemistry II (4)
      - Phys 1111K: Introductory Physics I (4) and
      - Phys 1112K: Introductory Physics II (4)
The College of Health and Human Sciences recommends that students take Chem 1151K and 1152K.

2. Math 1070  Elementary Statistics (3)

**1410.50 Area E: Social Science (12)**

Students who satisfy the requirements of Section 1, United States Politics and History, by examination and choose not to take Hist 2110 and PolS 1101 must select two additional courses from Section 3, Social Science Foundations. No student may take more than six hours in Area E from any one department.

1. United States Politics and History - Legislative Requirement (0-6)
   - Hist 2110  Survey of United States History (3)
   - PolS 1101  American Government (3)

   Georgia law requires all students to pass examinations on (a) the history of the United States and the history of Georgia and (b) the Constitution of the United States and the Constitution of Georgia. Students may satisfy these requirements by earning passing grades in Hist 2110 and PolS 1101. (See Section 1425.)

2. Global Economics, Global Politics, and World History. Requirement: Select one course (3)
   - Econ 2100  The Global Economy (3)
   - Hist 1111  Survey of World History to 1500 (3)
   - Hist 1112  Survey of World History since 1500 (3)
   - PolS 2401  Global Issues (3)

3. Social Science Foundations: Select one course (see note above) (3-9)
   - AAS 2010  Introduction to African-American Studies (3)
   - Anth 1102  Introduction to Anthropology (3)
   - CrJu 2200  Social Science and the American Crime Problem (3)
   - Econ 2105  Principles of Macroeconomics (3)
   - Econ 2106  Principles of Microeconomics (3)
   - Geog 1101  Introduction to Human Geography (3)
   - Psyc 1101  Introduction to General Psychology (3)
   - Soci 1101  Introductory Sociology (3)
   - Soci 1160  Introduction to Social Problems (3)
   - WSt 2010  Introduction to Women’s Studies (3)

The Robinson College of Business recommends that B.B.A. students take Econ 2105 and Econ 2106 in Area F and then choose other social science foundation courses in Area E. The Andrew Young School of Policy Studies recommends that B.A. and B.S. students NOT take Econ 2105 and Econ 2106 in section 3 of Area E.

**1410.60 Area F: Preparation for a Major (18)**

Courses in Area F, which constitute the remaining 18 semester hours in the core curriculum, may be found in the college sections on degree requirements. These listings should also be consulted to see if there are any courses recommended from among the offerings in areas A to E. Students seeking a B.S. in mathematics and secondary school teaching will be required to take an additional nine semester hours of introductory education courses above the general requirement of 18 semester hours.
Department of African-American Studies

962 One Park Place South 404/651-2157
http://www.gsu.edu/afam

Charles E. Jones, Chair

Faculty

Charles H. Jones, Ph.D. (Washington State University), Associate Professor of African-American Studies and Chair of the Department of African-American Studies

Corey P. Byrd, Ph.D. (Columbia University), Associate Professor of African-American Studies

Martha Iselin, Ph.D. (Temple University), Assistant Professor of African-American Studies

Alisyn B. Umaga, Ph.D. (Temple University), Assistant Professor of African-American Studies

Jeffrey Woolsey, Ph.D. (Temple University), Assistant Professor of African-American Studies

African-American Studies offers an interdisciplinary approach to the study of African people nationally and globally. It recognizes how issues and factors in addition to race affect the lives of African people worldwide. As an interdisciplinary field of concentration, it offers critiques of knowledge presented in the traditional disciplines and professions, scholarly and artistic accounts of the realities of the lives of African-Americans, and perspectives on social change. The Department of African-American Studies provides students with the intellectual origins, concepts, research, and models of the disciplines; the knowledge and skills necessary for the study of group cultures; and a curriculum that contributes to the goals of multicultural education. Faculty and courses are drawn from the department itself and from other departments/schools/institutes in the university.

Program Degree Requirements

Alternatives are available to some core and major requirements. Please see a degree program adviser for specific guidelines. In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

B.A. in African-American Studies

Area F: Courses Appropriate to the Major Field (18)
1. Required Courses (12)
   AAS 1140 Introduction to African and African-American History and Culture (3)
   AAS 2100 Introduction to African-American Studies (3)
   AAS 2200 Survey of Art III: Art of Africa, Oceania, and the Americas (3)
   Soci 1160 Introduction to Social Problems (3)

2. Foreign Language (3)
   Lang 1002 Elementary II (3)
3. Select one additional course from the following (3):
   Anth 2020, Econ 2105, Econ 2106, Geog 1101, Hist 1111, Hist 1112, Phil 2010, PolS 2401, Psy 1101, Psy 2040, Psy 2103, Soci 1101, WSt 2010

**Area G: Major Courses (33)**
A grade of C or higher is required in all major courses.

1. Major Requirements (15)
   AAS 3120 African Diaspora (3)
   AAS 3975 Concepts and Theories in African-American Studies (3)
   AAS 3980 Research Methods in African-American Studies (3)
   AAS 4120 African-American Political Thought (3)
   AAS 4980 Seminar and Practicum in African-American Studies (3)

2. Literature Course: Select one course (3)
   AAS 3880 African-American Literature (3)
   AAS 3960 African-American Literature by Women (3)
   AAS 4890 Caribbean Literature (3)

3. A minimum of 15 hours must be taken from African-American Studies courses at 3000-4000 level which must include: three courses from one of the two areas (Humanities and Social/Behavioral Sciences) of concentration and two courses from the remaining areas of concentration.

**Humanities Concentration**
   AAS 3080 Issues in African-American Philosophy (3)
   AAS 3450 History of African-Americans in Georgia (3)
   AAS 3500 Jazz History (3)
   AAS 3810 History of African-American Music (3)
   AAS 3880 African-American Literature (3)
   AAS 3955 Language in the African-American Community (3)
   AAS 3960 African-American Literature by Women (3)
   AAS 4125 Black Feminist Thought (3)
   AAS 4230 Religions of the African World (3)
   AAS 4250 African-American Religion (3)
   AAS 4300 African Art (3)
   AAS 4310 Art of Ancient Egypt and Nubia (3)
   AAS 4320 African-American Art (3)
   AAS 4600 Enslavement and Resistance in North America (3)
   AAS 4620 Enslavement in the Americas (3)
   AAS 4640 African-American People (4)
   AAS 4650 African-American Theatre (3)
   AAS 4660 African-American Women (4)
   AAS 4750 African-American Ethical and Legal Issues (3)
   AAS 4760 Eastern Africa and the Horn of Africa (4)
   AAS 4765 Central and Southern Africa (4)
### Social/Behavioral Science Concentration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
<td>AAS 4770</td>
<td>Western Africa (4)</td>
</tr>
<tr>
<td>AAS 4772</td>
<td>Women in Africa (3)</td>
</tr>
<tr>
<td>AAS 4774</td>
<td>African Revolutions (3)</td>
</tr>
<tr>
<td>AAS 4776</td>
<td>Africa and Hollywood: Myth, Romance, and Savage Imagery (4)</td>
</tr>
<tr>
<td>AAS 4890</td>
<td>Caribbean Literature (3)</td>
</tr>
<tr>
<td>AAS 4950</td>
<td>African-American Popular Culture (3)</td>
</tr>
</tbody>
</table>

### Pre-Education Concentration

The Department of African-American Studies offers a pre-education track with a concentration in history for students who wish to become public school teachers and to be certified to teach by completing the initial teacher preparation alternative M.Ed. program in Social Studies Education in the College of Education (or a similar master’s level initial preparation program at another university). The pre-education track in African-American studies develops teachers to work effectively in multi-cultural classrooms. The pre-education track in African-American Studies prepares teachers to teach students from diverse ethnic, gender, cultural, and social class groups by offering curricula that examine the histories and experiences of people of African descent and aspects of cultural identity formation in the U.S., Africa, and the Caribbean. This track also prepares educators to develop their students to be citizens of a global community. Students who wish to pursue the pre-education track in African-American studies must take ten designated upper-division major courses (33 credit hours) and complete the course work in three of the following allied fields: political science (9), geography (9), and economics (9), but only one of these behavioral sciences: anthropology, sociology, and psychology. After completion of the above requirements, the student will be awarded a Broad Field Social Science Pre-Education Certificate.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 3000</td>
<td>African-American Family (3)</td>
</tr>
<tr>
<td>AAS 3050</td>
<td>Introduction to African-American Psychology (3)</td>
</tr>
<tr>
<td>AAS 3070</td>
<td>African-Americans in the Criminal Justice System (3)</td>
</tr>
<tr>
<td>AAS 3240</td>
<td>Peoples and Cultures of Africa (3)</td>
</tr>
<tr>
<td>AAS 3480</td>
<td>African-American Rhetoric (3)</td>
</tr>
<tr>
<td>AAS 3980</td>
<td>Research Methods in African-American Studies (3)</td>
</tr>
<tr>
<td>AAS 4000</td>
<td>Issues in the African-American Community (3)</td>
</tr>
<tr>
<td>AAS 4030</td>
<td>African-American Male/Female Relationships (3)</td>
</tr>
<tr>
<td>AAS 4080</td>
<td>African-American Female Activism (3)</td>
</tr>
<tr>
<td>AAS 4100</td>
<td>African-American Women in the United States (3)</td>
</tr>
<tr>
<td>AAS 4160</td>
<td>African-American Politics (3)</td>
</tr>
<tr>
<td>AAS 4180</td>
<td>Politics of the Civil Rights Movement (3)</td>
</tr>
<tr>
<td>AAS 4280</td>
<td>African-American Anthropology (3)</td>
</tr>
<tr>
<td>AAS 4400</td>
<td>Geography of Africa (3)</td>
</tr>
<tr>
<td>AAS 4530</td>
<td>Voices of African-American Feminists (3)</td>
</tr>
<tr>
<td>AAS 4780</td>
<td>African-American Lesbian and Gay Activism (3)</td>
</tr>
<tr>
<td>AAS 4900</td>
<td>African-Americans in Film (4)</td>
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</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>AAS 3975</td>
<td>Concepts and Theories in African-American Studies (3)</td>
</tr>
<tr>
<td>AAS 3450</td>
<td>History of African Americans in Georgia (3)</td>
</tr>
<tr>
<td>AAS 4640/ Hist 4270</td>
<td>African-American People (4)</td>
</tr>
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</table>
### Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 4600/Hist 4280</td>
<td>Enslavement and Resistance in North America (3)</td>
<td></td>
</tr>
<tr>
<td>AAS 4620/Hist 4290</td>
<td>Enslavement in the Americas (3)</td>
<td></td>
</tr>
<tr>
<td>AAS 4772/Hist/WSt 4772</td>
<td>Women in Africa (3)</td>
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</tr>
<tr>
<td>AAS 4774/Hist 4774</td>
<td>African Rebellions (3)</td>
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</tr>
<tr>
<td>AAS 4980</td>
<td>Seminar and Practicum in African-American Studies (3)</td>
<td></td>
</tr>
<tr>
<td>Hist 3000</td>
<td>Introduction to Historical Studies (4)</td>
<td></td>
</tr>
<tr>
<td>Hist 3220</td>
<td>United States in the Twentieth Century (4)</td>
<td></td>
</tr>
</tbody>
</table>

**Total Number of Hours: 33**

**Allied Fields (27)**

Select three out of the following four allied fields:
- Political Science (9) (3000-4000 level courses)
- Sociology (9) (3000-4000 level courses)
- Geography (9) (3000-4000 level courses)
- Economics (9) (3000-4000 level courses)

### Area H: Minor and Additional Courses

**Students majoring in African-American Studies:**
1. Are not required to take a minor.
2. Must take additional courses as electives to complete a minimum of 120 hours, exclusive of 1000/2000 physical education or military science courses.

### Minor in African-American Studies

Students who wish to minor in African-American Studies should complete the following requirements (15). A grade of C or higher is required in all minor courses.

1. Complete the following three courses (9)
   - AAS 2010 Introduction to African-American Studies (3)
   - AAS 3120 African Diaspora (3)
   - AAS 4120 African-American Political Thought (3)
2. Select two African-American Studies courses at the 3000 level or above (6).
Department of Applied Linguistics and English as a Second Language

1036 Urban Life Center, 404/651-3650
http://www.gsu.edu/alesl
Joan O. Carreon, Chair

Faculty
Joan G. Carreon, Ph.D. (Northwestern University), Associate Professor of Applied Linguistics and English as a Second Language, Chair of Applied Linguistics and English as a Second Language and Associate of the Center for the Study of Second Language, English as a Second Language
Hazel Patricia Byrd, Ph.D. (University of Florida), Professor of Applied Linguistics and English as a Second Language
Petkala L. Carroll, Ph.D. (University of Texas), Professor of Applied Linguistics and English as a Second Language
Patrick D. Dunbar, Ph.D. (University of Arizona), Professor of Applied Linguistics and English as a Second Language
John M. Murphy, Ed.D. (Columbia University), Associate Professor of Applied Linguistics and English as a Second Language
Gayle LaVerne Nelson, Ph.D. (University of Minnesota), Associate Professor of Applied Linguistics and English as a Second Language
Rebecca A. Budaar, Ph.D. (University of Illinois), Assistant Professor of Applied Linguistics and English as a Second Language
Sara C. Weigle, Ph.D. (University of California, Los Angeles), Assistant Professor of Applied Linguistics and English as a Second Language
Sharon L. Cavanagh, M.A. (Michigan State University), Lecturer in Applied Linguistics and English as a Second Language
Debra Sydney Small, M.S. (Georgia State University), Lecturer in Applied Linguistics and English as a Second Language

The Department of Applied Linguistics and English as a Second Language offers an Intensive English Program (IEP) for non-native speakers of English. The IEP is a non-credit program designed to prepare students in the language skills necessary for successful academic work in American colleges and universities. Classes are offered at basic, low intermediate, intermediate, high-intermediate, and advanced levels in the following areas: structure/composition, reading/listening, academic writing, and oral communication.

Students are admitted to the IEP through the Department of Applied Linguistics and English as a Second Language. For information and application forms, contact Kit Lincoln, Director, Intensive English Program, Georgia State University, P.O. Box 4659, Atlanta, GA 30362-4099.

3110 Applied Linguistics and English as a Second Language

Programs Offered:

Bachelor of Arts in Applied Linguistics
Certificate in Teaching English as a Foreign Language
Minor in Applied Linguistics
ESL Credit-Bearing Courses
Intensive English Program

34 Peachtree Street, Suite 1200
404/651-3650
http://www.gsu.edu/alesl

Department of Applied Linguistics and English as a Second Language
Gayle Nelson, Chair
Sara Weigle, Director of Undergraduate Studies

Applied linguistics is an interdisciplinary field that integrates many perspectives on the study of human language. Studying linguistics is not a matter of learning many different languages, but rather it is the study of the nature of language in general. Applied Linguistics is the study of language and communication in relation to real-world problems such as language acquisition and teaching, language assessment, improving intercultural communication, and understanding the relationship between language and social organization.

The Department of Applied Linguistics and English as a Second Language offers (1) a B.A. degree in Applied Linguistics; (2) undergraduate courses leading to the Bachelor’s of Interdisciplinary Studies (B.I.S.) degree in Language Studies (see Section 3370); (3) a certificate in Teaching English as a Foreign Language (TEFL); (4) ESL credit-bearing courses for non-native speakers of English, and (5) Intensive English Program (IEP) courses for non-native speakers of English.

The B.A. in Applied Linguistics and the B.I.S. in Language Studies provide the opportunity for students to explore the field of linguistics from an interdisciplinary perspective. Dr. Sara Weigle is Director of Undergraduate Studies and can be contacted at 404/651-3223 or sweigle@gsu.edu.

The TEFL certificate program provides students with appropriate skills and a credential that will enable them to teach English as a foreign language abroad. Students majoring in any undergraduate program can earn the TEFL certificate. In addition, the certificate can be earned by any postbaccalaureate student. TEFL certificate requirements consist of the following five courses: AL 3021, AL 3041, AL 3051, AL 4151, and AL 4161. AL 3021 is a prerequisite for the remaining four courses. AL 4161 is taken after AL 3051, in the student’s final semester.

For information on credit-bearing ESL courses for non-native speakers of English and the Intensive English Program, see Section 3230 (English as a Second Language).

Program Academic Regulations
Students must earn a grade of C or better in any courses required for Areas F and G. A grade of C or higher is also...
required in all courses counting toward an Applied Linguistics minor.

**Program Degree Requirements**

Alternatives are available to some core and major requirements. Please see a degree program adviser for specific guidelines. In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

**Area F: Courses Appropriate to the Major Field (18)**

1. Required courses (6)
   - AL 2101  Introduction to Language (3)
   - AL 2102  Languages of the World (3)

2. The foreign language requirement for the degree is as follows.
   (a) Students must complete foreign languages courses through level 2002 in one foreign language or demonstrate equivalent proficiency through examination (e.g., Advanced Placement, CLEP, or other approved examination procedures).
   (b) Students must complete at least one semester of a less commonly taught language (i.e., any language other than French, German, Spanish, or Italian) and are strongly encouraged to study a non-Indo-European language to fulfill this requirement.
   - Lang 1001  Beginning Foreign Language I* (0-6)
   - Lang 1002  Beginning Foreign Language II (0-3)
   - Lang 2001  Intermediate Foreign Language I (0-3)
   - Lang 2002  Intermediate Foreign Language II (0-3)
   * At least one course at the 1001 level must be a Less Commonly Taught Language.

3. Electives (0-12)*
   - Lang 1001-1002 Beginning Foreign Language I & II (3-6)
   - Lang 2001-2002 Intermediate Foreign Language I & II (3-6)
   - AL 2103  Learning across Cultures (3)
   - Anth 1102  Introduction to Anthropology (3)
   - Anth 2020  Introduction to Cultural Anthropology (3)
   - Econ 2100  Global Economy (3)
   - Engl 2110  World Literature (3)
   - Engl 2150  Introduction to Rhetoric & Advanced Composition (3)
   - Phil 2010  Great Questions of Philosophy (3)
   - Psyc 1101  Introduction to General Psychology (3)
   - Spch 1010  Voice and Articulation (3)
   - Spch 2650  Interpersonal Communication (3)

*Students who complete their foreign language requirement through examination must choose additional electives at the 1000-2000 level to reach 18 credit hours in Area F.

**Area G: Major Courses (30)**

1. The following course is a prerequisite for all other 3000-4000 level courses:
   - AL/ForL 3021  Introduction to Linguistics (3)*

2. Major Requirements (12)
   - AL 3031  Language in Society (3)
   - AL 3041  Introduction to Second Language Acquisition (3)*
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>AL 4011</td>
<td>Phonetics and Phonology</td>
<td>3</td>
</tr>
<tr>
<td>AL 4012</td>
<td>Morphology and Syntax</td>
<td>3</td>
</tr>
<tr>
<td>AL 3051</td>
<td>Methods of Teaching English as a Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>AL 4131</td>
<td>Bilingualism</td>
<td>3</td>
</tr>
<tr>
<td>AL 4161</td>
<td>English as a Foreign Language Practicum</td>
<td>3</td>
</tr>
<tr>
<td>AL 4111</td>
<td>Semantics and Pragmatics</td>
<td>3</td>
</tr>
<tr>
<td>AL 4121</td>
<td>Historical Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>AL 4141</td>
<td>Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>AL 4151</td>
<td>Culture and Language Learning</td>
<td>3</td>
</tr>
<tr>
<td>AL 4980</td>
<td>Language Partner Field Experience</td>
<td>3</td>
</tr>
<tr>
<td>AL 4999</td>
<td>Directed Reading</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students completing the five courses marked with an asterisk (*) will also receive the certificate in Teaching English as a Foreign Language.

4. Electives in other departments. Other relevant electives may be taken with the approval of the student’s advisor.

Study abroad courses offered through any department may be used as electives with advisor approval. (6)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 3240</td>
<td>Peoples and Cultures of Africa</td>
<td>3</td>
</tr>
<tr>
<td>AAS 3480</td>
<td>African-American Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>AAS/Engl 3955</td>
<td>Language in the African-American Community (3)</td>
<td></td>
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<tr>
<td>Anth 4040</td>
<td>Gender, Race, and Class in Complex Societies</td>
<td>3</td>
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<tr>
<td>Anth 4450</td>
<td>American Racial-Ethnic Groups</td>
<td>3</td>
</tr>
<tr>
<td>Anth 4490</td>
<td>Global and Local Culture</td>
<td>3</td>
</tr>
<tr>
<td>Econ 3610</td>
<td>Economy of South Africa</td>
<td>3</td>
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<tr>
<td>EXC 4370</td>
<td>Survival Level American Sign Language</td>
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<td>EXC 4380</td>
<td>Intermediate Level Am Sign Language</td>
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<tr>
<td>Engl 3100</td>
<td>20th Century Composition Theory and Practice</td>
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</tr>
<tr>
<td>Engl 3200</td>
<td>Introduction to English Language</td>
<td>3</td>
</tr>
<tr>
<td>Engl 3210</td>
<td>Advanced Grammar</td>
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<tr>
<td>Engl 3220</td>
<td>History of the English Language</td>
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<td>ForL 3022</td>
<td>Foundations of Second Language Teaching</td>
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<tr>
<td>Grm 4401</td>
<td>Phonetics and Phonology</td>
<td>3</td>
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<tr>
<td>Hist 4225</td>
<td>Immigration and Ethnicity in U.S. History</td>
<td>4</td>
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<tr>
<td>Hist 4820</td>
<td>Cross-Cultural Encounters in World History</td>
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<tr>
<td>Jour 4650</td>
<td>International Communication</td>
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<tr>
<td>Phil 4530</td>
<td>Philosophy of Language</td>
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<tr>
<td>Psyc 4030</td>
<td>Cross-Cultural Psychology</td>
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<td>Psyc 4100</td>
<td>Cognitive Psychology</td>
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<td>RelS 3270</td>
<td>World Religions</td>
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<td>Soci 3212</td>
<td>Race and Ethnic Relations</td>
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<td>Soci 3214</td>
<td>American Racial-Ethnic Groups</td>
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<td>Soci 3340</td>
<td>Population Problems</td>
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<td>Span 4401</td>
<td>Introduction to Spanish Linguistics</td>
<td>3</td>
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<tr>
<td>Sphc 3450</td>
<td>Non-Verbal Communication</td>
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<td>Sphc 3750</td>
<td>Intercultural Communication</td>
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<tr>
<td>Sphc 4400</td>
<td>Development of Communication and Language across the Lifespan</td>
<td>3</td>
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<tr>
<td>Sphc 4410</td>
<td>Communication Disorders</td>
<td>3</td>
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<tr>
<td>Sphc 4490</td>
<td>Communication and Gender</td>
<td>3</td>
</tr>
</tbody>
</table>
Area H: Minor and Additional Courses
1. Students majoring in applied linguistics are not required to take a minor.
2. Students majoring in applied linguistics must take additional courses as electives to complete a minimum of 120 hours, exclusive of 1000/2000 physical education or military science courses. Students are strongly encouraged to choose electives from the lists above.

Minor Offerings
Students who wish to minor in applied linguistics should complete the following requirements (1-6). (at least 18 hours) A grade of C or higher is required in all courses counting toward the minor. AL 3021/ForL Introduction to Linguistics is a prerequisite for all courses in 3-6.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>1.</td>
<td>Lang 1002</td>
<td>Beginning Foreign Language II</td>
<td>3</td>
</tr>
<tr>
<td>2.</td>
<td>AL/ForL 3021</td>
<td>Introduction to Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>3.</td>
<td>AL/ForL 3031</td>
<td>Language in Society</td>
<td>3</td>
</tr>
<tr>
<td>4.</td>
<td>Select one course.</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>5.</td>
<td>AL/ForL 4131</td>
<td>Bilingualism</td>
<td>3</td>
</tr>
<tr>
<td>6.</td>
<td>Select one course.</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Choose from remaining courses above under #4 & #5 or from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AL 3051</td>
<td>Methods of Teaching English as a Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>AL/ForL 4131</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>AL 4161</td>
<td>English as a Foreign Language Practicum</td>
<td>3</td>
</tr>
<tr>
<td>AL/ForL 4111</td>
<td>Semantics and Pragmatics</td>
<td>3</td>
</tr>
<tr>
<td>AL/ForL 4121</td>
<td>Historical Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>AL/ForL 4141</td>
<td>Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>AL/ForL 4151</td>
<td>Culture and Language Learning</td>
<td>3</td>
</tr>
<tr>
<td>AL 4980</td>
<td>Language Partner Field Experience</td>
<td>3</td>
</tr>
<tr>
<td>AL 4999</td>
<td>Directed Reading</td>
<td>3</td>
</tr>
</tbody>
</table>
 programs offered:
- Bachelor of Science in Anthropology
- Concentration in Pre-Education
- Minor in Anthropology

Anthropology, the study of humans, provides students with a perspective on the nature of humankind over time and in different environments. It is concerned with humans as biological beings (biological anthropology), with prehistory and cultural evolution (archaeology), and with how humans order their worlds socially and culturally (social/cultural anthropology), as well as with the nature of human language (linguistic anthropology). The Department of Anthropology offers a Bachelor of Arts degree in Anthropology. Undergraduate majors are encouraged to take a wide range of courses in archaeology, biological anthropology, and cultural anthropology. Anthropologists are frequently teachers and/or researchers in educational systems, or, alternatively, they work for public and private agencies. Within these areas, they may be specifically concerned with historic or cultural resource preservation or cross-cultural and minority group relations in such areas as medicine, community development, education, tourism, business, and other specialties.

Program Financial Information
No additional expenses are needed to complete this degree program. Some special courses that travel away from campus, such as Anth 4550 Field School in Anthropology, will have additional costs. The department offers two endowed scholarships for undergraduate majors: the Robert L. Blakeley Endowed Scholarship in Anthropology and the Jeremy D. Gillen Endowed Memorial Scholarship in Anthropology.

Program Academic Regulations
Students must earn a grade of C or better in any courses required for Areas F and G. A grade of C or higher is also required in all courses counting toward an Anthropology minor.

Program Degree Requirements
Alternatives are available to some core and major requirements. Please see a degree program adviser for specific guidelines. In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

B.A. in Anthropology
Area F: Courses Appropriate to the Major (18)

1. Required Courses (12)
   - Anth 2010: Introduction to Biological Anthropology (3)
   - Anth 2020: Introduction to Cultural Anthropology (3)
   - Anth 2030: Introduction to Archaeology (3)
   - Lang 2001: Intermediate Foreign Language (3)

2. Choose two from the following (6)
   - Math 1070: Elementary Statistics (3)
   - Phil 2010: Great Questions of Philosophy (3)
   - AL/ForL 2101: Introduction to Language (3)
   - AL/ForL 2102: Languages of the World (3)

Area G: Major Courses (24)

A grade of C or higher is required in all major courses.

1. Theory Course. Select one: (4)
   - Anth 4020: Anthropological Theory (4)
   - Anth 4600: Archaeological Theory (4)

2. Methods Course. Select one (at least 3)
   - Anth 4350: Applied Biocultural Anthropology (3)
   - Anth 4360: Methods and Theories in Biological Anthropology (4)
   - Anth 4370: Forensic Anthropology (3)
   - Anth 4440: Epidemiology and Anthropology (4)
   - Anth 4480: Ethnographic Analysis (4)
   - Anth 4550: Field School in Anthropology (4-8)
   - Anth 4590: Anthropological Laboratory Methods (4)
   - Anth 4620: Quantitative Methods in Anthropology (4)
   - Anth 4630: Qualitative Methods in Anthropology (3)

3. Anth 4970: Senior Seminar in Anthropology (3)

4. Electives: Additional courses at the 3000 or 4000 level (at least 14)

Area H: Minor and Additional Courses

1. Students majoring in anthropology are not required to take a minor.
2. Students majoring in anthropology must take additional courses as electives to complete a minimum of 120 hours, exclusive of 1000/2000 physical education or military science courses.

Pre-Education Concentration

The Social Studies Education Concentration in Anthropology is designed for students who want to be secondary school teachers. This degree provides the initial teaching preparation for the Alternative M.Ed. Program in Social Studies Education in the College of Education at Georgia State University, or similar master’s degrees at other universities. Students pursuing this concentration must complete all major requirements and choose three allied fields from other departments, taking a minimum of nine hours of 3000-4000 level courses in each allied field. Students with a concentration in anthropology may choose the following allied fields:

- Economics
a. Select one course. (3)
  Anth 1104: Introduction to Archaeology (3)
  Anth 1105: Introduction to Physical Anthropology (3)
  Anth 2020: Introduction to Cultural Anthropology (3)
  Anth 2030: Introduction to Linguistic Anthropology (3)

b. Select four anthropology courses at the 3000 level or above. (12)

Minor in Anthropology
Students who wish to minor in anthropology should complete the following requirements (1 and 2). (at least 15 hours) A grade of C or higher is required in all courses counting toward the minor.

1. Select one course. (3)
   Anth 2010: Introduction to Biological Anthropology (3)
   Anth 2020: Introduction to Cultural Anthropology (3)
   Anth 2030: Introduction to Archaeology (3)

2. Select four anthropology courses at the 3000 level or above. (at least 12 hours)
   Students taking more than 15 hours in courses in anthropology may count the additional hours toward their electives or may consider completing a double major.

Residency Requirement
A minimum of 39 semester hours in courses at the 3000 level or above must be completed in residence at Georgia State University with an average of "C" or better.

Honors Program
The Department of Anthropology and Geography encourages students to participate in the Honors Program. (See "Honors Program," previously described.)
General Catalog 1998-1999

<table>
<thead>
<tr>
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### Concentration in Drawing, Painting, and Printmaking
- **Concentration in Graphic Design**
- **Concentration in Interior Design**
- **Concentration in Photography**
- **Concentration in Textiles**
- **Concentration in Three Dimensional Studies (emphasis in Ceramics or Sculpture)**

Minors in Art History; Drawing, Painting and Printmaking; Photography; Textiles; and Three Dimensional Studies

The School of Art and Design offers degree programs in studio, art education, and art history. The Bachelor of Fine Arts professional degree is available in studio and art education. Within the studio degree, students may choose any one of a number of concentrations, including the three-dimensional areas of sculpture, ceramics, and digital art. Within the studio degree, students may choose any one of the studio concentrations: drawing, painting, and printmaking; graphic design; interior design; photography; textiles; or three-dimensional studies. The School of Art and Design offers the Bachelor of Arts degree for students who wish to pursue a liberal arts education. They may select a concentration in studio art or in art history. The Studio B.A. program covers a range of art courses and a studio concentration. Art history is a more academic liberal arts program devoted to preparing future scholars and curators.

The School seeks to provide an educational environment that encourages the creation and presentation of the visual arts, the study of visual culture, and the education of the larger community in the visual arts. Graduates of the school carry their knowledge forward and contribute to the cultural conscience of the community. A strong corps of the school's graduates is found in the state's art centers and schools. Others hold prominent positions with local and national design firms. Faculty, student artists, and alumni frequently exhibit in national and international galleries and competitions. Their works are in numerous private and corporate collections.

The School of Art and Design is professionally accredited by the National Association of Schools of Art and Design.

<table>
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<th>Program Admission</th>
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<td>Students who wish to pursue a Bachelor of Fine Arts (B.F.A.) degree must apply to seek this degree. Students may pursue</td>
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the B.F.A. by being accepted either into a major in studio art or into a major in art education. The studio art program requires a concentration in one of the following areas: drawing, painting, and printmaking; graphic design; interior design; photography; textiles; or three-dimensional studies (ceramics or sculpture). Acceptance to a major is determined by application and portfolio review following completion of the art core sequence. Students should consult with the undergraduate adviser or a faculty adviser for details.

Portfolios and applications are reviewed fall and spring semesters on Portfolio Review Day. Students should check with the School of Art and Design office for information about Review Day.

Admission to Art Education

Application to the art education major should occur upon completion of the 18 semester hours required in Area F and at the end of the semester in which the student has taken the introductory art education course (AE 4200). Application to the major must occur prior to completing 15 additional semester hours in art. Students must have earned a 2.5 overall cumulative GPA, earned a 3.0 GPA in all art content courses, and passed the Praxis I for entrance to the major.

Admission to Studio Art

Upon completion of the 18 semester hours required in Area F and prior to completion of 15 additional semester hours, each student who wishes to seek a B.F.A. in Studio Art must submit an application and pass a portfolio review for acceptance into a major concentration. Applications to concentrate in a discipline are available in the School of Art & Design office and are reviewed fall and spring semesters on Portfolio Review Day scheduled prior to Phase I registration. Students should meet with an adviser in the concentration they are considering one semester before they apply for the concentration. In the event that a student is not accepted into the concentration, the student should see the School of Art and Design undergraduate adviser to explore other options.

Program Academic Regulations

Evaluation of transfer credits should be completed during the first semester of attendance at the university.

Program Degree Requirements

Art students should seek regular advisement from the Undergraduate Adviser or a faculty adviser (once accepted into their concentration) in the School of Art and Design. In order to facilitate advisement, students in the Bachelor of Arts degree program should declare their major and area of concentration (studio or art history) prior to completion of their Area F courses. Students in the Bachelor of Fine Arts degree program should declare their intention to pursue a B.F.A. degree when they fulfill their Area F requirements. Upon completion of the Area F requirements and prior to completion of 15 additional hours in art, students who wish to pursue the Bachelor of Fine Arts degree program must submit an application and portfolio to the school for review and approval. Portfolios and applications to a concentration are reviewed fall and spring semesters on Review Day scheduled prior to Phase I registration. Students should meet with the Office of Student Services in the School of Art and Design for information about Review Day.

B.A. in Studio Art (120)

Majors should complete the following:
1. Undergraduate Core Curriculum, as previously described (specific recommendations listed below).
2. Area F Courses appropriate to the major, listed below.
3. "Major or additional Upper-Level Courses," listed below, if needed.

Area A: Essential Skills (9)

Area B: Institutional Options (4)

B.A. in Studio Art

Areas A-E: Core Curriculum Recommendations
1. Students may select one art history survey in Area C.
Area F: Courses Appropriate to the Major (18)

1. Studio Requirements (12)
   - Art 1010  Drawing I (3)
   - Art 1020  Drawing II (3)
   - Art 1030  Two-Dimensional Design (3)
   - Art 1040  Three-Dimensional Design (3)

2. Art History Requirements (select two courses in addition to any taken in Area C) (6)
   - AH 1700  Survey of Art I. History of Western Art I: Prehistoric through Medieval Art (3)
   - AH 1750  Survey of Art II. History of Western Art II: The Renaissance through Contemporary Art (3)
   - AH 1850  Survey of Art III. Art of Africa, Oceania, and the Americas (3)

Area G: Major Courses (33-42)

1. Major Requirements (30)
   a. Complete minimum of 18 hours in 3000-level courses from among six different studio art disciplines (18-24) Note: 3000/4000-level studio courses vary from three to four credit hours.
   b. Studio Concentration (3000/4000 level, select from one discipline previously studied) (6-8)
   c. Art History Survey (if third Survey not taken in Area F, otherwise, AH 3000/4000-level elective) (3)
   d. AH 4700  Contemporary Art: Theory and Criticism (3)

2. Art History Elective (4000 level) (3)

3. Option Studio Elective (3-4)


Area E: Social Science (12)

Area H: Minor and Additional Courses

Students seeking the B.A. in Studio Art are not required to take a minor, although they may complete one if they so choose.

B.A. in Art History

Areas A-E: Core Curriculum Recommendations

1. Area B: Cross-cultural art history courses may be offered in this area as sections of Pers 2001 (Perspectives in Comparative Culture). (2)

2. Area C: Students may select one Art History Survey in Area C.

Area F: Courses Appropriate to the Major (18)

1. Studio Requirements (12)
   - Art 1010  Drawing I (3)
   - Art 1020  Drawing II (3)
   - Art 1030  Two-Dimensional Design (3)
   - Art 1040  Three-Dimensional Design (3)

2. Art History Requirements (select two courses in addition to any taken in Area C) (6)
   - AH 1700  Survey of Art I. History of Western Art I: Prehistoric through Medieval Art (3)
   - AH 1750  Survey of Art II. History of Western Art II: The Renaissance through Contemporary Art (3)
   - AH 1850  Survey of Art III. Art of Africa, Oceania, and the Americas (3)

Area G: Major Courses (33-42)

1. Major Requirements (30)
   a. Complete minimum of 18 hours in 3000-level courses from among six different studio art disciplines (18-24) Note: 3000/4000-level studio courses vary from three to four credit hours.
   b. Studio Concentration (3000/4000 level, select from one discipline previously studied) (6-8)
   c. Art History Survey (if third Survey not taken in Area F, otherwise, AH 3000/4000-level elective) (3)
   d. AH 4700  Contemporary Art: Theory and Criticism (3)

2. Art History Elective (4000 level) (3)

3. Option Studio Elective (3-4)


5. Select additional non-art courses to complete a minimum of 120 hours. (See “Area H” following degree requirement listings in this section.)

Area H: Minor and Additional Courses

Students seeking the B.A. in Studio Art are not required to take a minor, although they may complete one if they so choose.

B.A. in Art History

Areas A-E: Core Curriculum Recommendations

1. Area B: Cross-cultural art history courses may be offered in this area as sections of Pers 2001 (Perspectives in Comparative Culture). (2)

2. Area C: Students may select one Art History Survey in Area C.

Area F: Courses Appropriate to the Major (18)

1. Studio Requirements (12)
   - Art 1010  Drawing I (3)
   - Art 1020  Drawing II (3)
   - Art 1030  Two-Dimensional Design (3)
   - Art 1040  Three-Dimensional Design (3)

2. Art History Requirements (select two courses in addition to any taken in Area C) (6)
   - AH 1700  Survey of Art I. History of Western Art I: Prehistoric through Medieval Art (3)
   - AH 1750  Survey of Art II. History of Western Art II: The Renaissance through Contemporary Art (3)
   - AH 1850  Survey of Art III. Art of Africa, Oceania, and the Americas (3)

Area G: Major Courses (33-42)

1. Major Requirements (30)
   a. Complete minimum of 18 hours in 3000-level courses from among six different studio art disciplines (18-24) Note: 3000/4000-level studio courses vary from three to four credit hours.
   b. Studio Concentration (3000/4000 level, select from one discipline previously studied) (6-8)
   c. Art History Survey (if third Survey not taken in Area F, otherwise, AH 3000/4000-level elective) (3)
   d. AH 4700  Contemporary Art: Theory and Criticism (3)

2. Art History Elective (4000 level) (3)

3. Option Studio Elective (3-4)


5. Select additional non-art courses to complete a minimum of 120 hours. (See “Area H” following degree requirement listings in this section.)

Area H: Minor and Additional Courses

Students seeking the B.A. in Studio Art are not required to take a minor, although they may complete one if they so choose.
Area A: Essential Skills (9)

Area B: Institutional Options (4)
Cross-cultural art history courses may be offered in this area as sections of Art 2001 (Perspectives in Comparative Culture), (2)

Area C: Humanities/ Fine Arts (6)
Student must select one Art History Survey in Area C.

Area D: Science, Mathematics, and Technology (31)

Area E: Social Science (12)

Area F: Courses Appropriate to the Major (18)
1. Art Requirements (9)
   Select three Art surveys (one may be elected in Area C) (6-9)
   Art Studio (1000-2000) (if a Fine Art Survey is taken in Area C) (6-9)

2. Foreign Language Requirements (Four or Five recommended) (4-9)
   For Lang. 1001: Elementary Foreign Language I (3)
   For Lang. 2001: Intermediate Foreign Language II (3)
   For Lang. 3002: Intermediate Foreign Language II (3)


3. Select additional non-art course at the 1000/2000 level to complete the 18-hour requirement in this area, if necessary. (0-3)

Area G: Major Courses (30)

Major Courses (42)
(A grade of “C” or better is required in all major courses.)

1. Required Course (9)
   AH 4590. Seminar: Issues in Art History (3)

2. From the ten required courses for the major, select three in an area of focus from within one of categories a, b, c, d, and e described below (9)

   a. Ancient and Medieval
      AH 4110. Art and Architecture of Ancient Greece (3)
      AH 4120. Art and Architecture of Ancient Rome (3)
      AH 4200. Art and Architecture of the Middle Ages (3)

   b. Renaissance and Baroque
      AH 4110. Art of Northern Europe in the Renaissance Era (3)
      AH 4200. Art and Architecture of the Baroque Period (3)
      AH 4200. Baroque Art (3)

   c. Modern
      AH 4590. Modern Architecture (3)
      AH 4610. Twentieth-Century Painting and Sculpture I (3)
      AH 4700. Contemporary Art Theory and Criticism I (3)


3. Select additional non-art course at the 1000/2000 level to complete the 18-hour requirement in this area, if necessary. (0-3)

Area G: Major Courses (30)

1. Distribution Requirement: Select one course from each of the following categories: (15)

   a. Ancient
      AH 4010. Art of Ancient Egypt and Nubia (3)
      AH 4011. Art and Architecture of Egypt I: 4000-1600 B.C. (3)
      AH 4012. Art and Architecture of Egypt II: 1600-31 B.C. (3)
      AH 4110. Art and Architecture of Ancient Greece (3)
      AH 4120. Art and Architecture of Ancient Rome (3)

   b. Medieval, Renaissance, and Baroque
      AH 4200. Art and Architecture of the Middle Ages (3)
      AH 4310. Art of Northern Europe in the Renaissance Era (3)
      AH 4320. Italian Renaissance Art: The Age of Humanism (3)
      AH 4400. Baroque Art (3)

   c. Modern
      AH 4500. Nineteenth Century: Neoclassicism through Post-Impressionism (3)
      AH 4600. Modern Architecture (3)
      AH 4610. Twentieth-Century Modernism and Postmodernism (3)
      AH 4700. Contemporary Art: Theory and Criticism (3)

      Also counting for this area with permission of adviser:
      AH 4620. African-American Art (3)
      AH 4650. American Art (3)
      AH 4660. Nineteenth and Twentieth-Century Art in Latin America (3)
      AH 4665. Latin American Avant-Gardes of the 1920s: Argentina, Brazil, and Mexico (3)
      AH 4669. Art in Latin America I: 1900-1950s (3)
      AH 4670. Art in Latin America II: 1950-2000 (3)

   d. Africa and the African Diaspora
      AH 4000. African Art (3)
      AH 4630. Contemporary African Art (3)
      AH 4620. African-American Art (3)

      Also counting for this area with permission of adviser:
      AH 4010. Art of Ancient Egypt and Nubia (3)
      AH 4011. Art and Architecture of Egypt I: 4000-1600 B.C. (3)
      AH 4012. Art and Architecture of Egypt II: 1600-31 B.C. (3)

   e. Art of the Americas
      AH 4630. Pre-Columbian Art (3)
      AH 4650. American Art (3)
      AH 4660. Nineteenth and Twentieth-Century Art in Latin America (3)
      AH 4665. Latin American Avant-Gardes of the 1920s: Argentina, Brazil, and Mexico (3)
      AH 4669. Art in Latin America I: 1900-1950s (3)
      AH 4670. Art in Latin America II: 1950-2000 (3)
Also counting for this area with permission of adviser:
AH 4620 African-American Art (3)

f. Other art history courses that may be chosen to satisfy the distribution requirement in consultation with a departmental adviser are:

AH 4750 Women Artists (3)
AH 4800 Special Studies Lecture (3)*
AH 4900 Special Studies Seminar (3)*
AH 4930 Art History Internship (3) (may be taken only once)
AH 4950 Curatorial Practicum in Ancient Art (3)
AH 4980 Special Problems (3)*

* (May be taken more than once)

Cross-disciplinary Art History Seminars (Cer 4910, Jewl 4910, Phot 4910, Pmt 4910, Text 4910, and GrD 4910). No more than two cross-disciplinary seminars may count towards the major.

2. Select 4 additional art history courses from all the courses listed in Area G1. (12)

3. Select one more Art or Art History course. This course must be an Art Studio, if not already taken. (3)

Area H: Minor and Additional Courses

1. Select additional courses to complete a minimum of 120 hours. If the Lang 1002, 2001, 2002 sequence is not completed in the core curriculum, Lang 2002 must be taken as an additional course in the 60 hours beyond the undergraduate core curriculum.

2. Students majoring in art history are not required to take a minor, although they may complete one if they so choose.

B.F.A. in Art Education

Areas A-E: Core Curriculum Recommendations

1. Area B: Cross-cultural art history courses may be offered in this area as sections of Pers 2001 (Perspectives in Comparative Culture). (2)

2. Area C: Students may select one art history survey in Area C.

Area F: Courses Appropriate to the Major (18)

1. Studio Requirements (12)
   - Art 1010 Drawing I (3)
   - Art 1020 Drawing II (3)
   - Art 1030 Two-Dimensional Design (3)
   - Art 1040 Three-Dimensional Design (3)

2. Art History Requirements
   - Select two courses in addition to any taken in Area C. (6)
   - AH 1700 Survey of Art I. History of Western Art I: Prehistoric through Medieval Art (3)
   - AH 1750 Survey of Art II. History of Western Art II: The Renaissance through Contemporary Art (3)
   - AH 1850 Survey of Art III. Art of Africa, Oceania, and the Americas (3)

Application to the art education major should occur upon completion of the 18 semester hours required in Area F and at the end of the semester in which the student has taken the introductory art education course (AE 4200/6200). Students must have earned a 2.5 overall cumulative GPA, earned a 3.0 GPA in all art content courses, and passed the GACE I for...
Area C: Humanities and Fine Arts (6)
Students may select one art history survey in Area C.

Area D: Science, Mathematics, and Technology (11)

Area E: Social Science (12)

Area F: Courses Appropriate to the Major (18)

1. Major Requirement (33)
   - Art 1010: Drawing I (3)
   - Art 1020: Two-dimensional Design (3)
   - Art 1050: Three-dimensional Design (3)
   - Art History Requirement: Select two courses in addition to any taken in Area C. (6)
     - Art 1790: History of Art I (3)
     - Art 1810: History of Art II (3)

2. Art History Requirements: Select two courses in addition to any taken in Area C. (4)
   - Art 1790: Survey of Art I (3)
   - Art 1810: Survey of Art II (3)

Application to the art education major should occur upon completion of the 6 courses listed above and at the end of the semester in which the student has taken the introductory art education course (AE 4200). Applications to the major must occur prior to completing 33 credit hours in major coursework. Students are required to see the advisor prior to Phase I registration. Students should contact an art education faculty member for information about criteria and application procedures.

Major Courses (66)
(A grade of “C” or better is required in all major courses.)

1. Required Courses (33)
   - EDF 2100: Introduction to Educational Issues (3)
   - EDF 2150: Learning, Human Development, Motivation, and Safety (3)
   - EDCI 2120: Exceptional Children and Instruction (3)
   - EDCI 4060: Critical Issues in Contemporary Art Education (3)
   - DP 3200: Life Drawing (3)
   - DP 3000: Survey in Areas C or F (if not taken, select one 4000-level AH course) (3)
   - DP 3100: Survey of Area II (3)
   - DP 3300: Survey of Area III (3)

   Application to the art education major should occur upon completion of the 6 courses listed above and at the end of the semester in which the student has taken the introductory art education course (AE 4200). Applications to the major must occur prior to completing 33 credit hours in major coursework. Students are required to see the advisor prior to Phase I registration. Students should contact an art education faculty member for information about criteria and application procedures.

2. Select two additional courses in one area to satisfy the 26-hour requirement of a studio art concentration. (6-8)

3. Art Education (12)
   - AE 4200/6200: Art for Preschool through Fifth Grade (3)
   - AE 4300/6300: Art for Middle and Secondary Schools (3)
   - AE 4400/6400: Media, Technology, and Visual Presentation (3)
   - AE 4900/6900: Art Theory and Criticism in Art Education (3)

4. AE 4750/6750, AE 4760/6760, AE 4770/6770, and AE 4780/6780 (Student Teaching) (12)

5. Select additional courses to complete a minimum of 126 hours. (See “Area H” following the degree requirement listings in this section.) Art 4980/6989, Special Problems (1-6), may be used in order to meet the specified requirements. Consent of departmental adviser and instructor required.

Area G: Major Courses (65-67)
A grade of C or higher is required in all major courses, a grade of B or higher is required in all art education courses, and a GPA of 3.0 is required for all art content courses.

1. Required Courses (35)
   - AH 1000: 4000-level course not taken in Areas C or F (3) or select one 4000-level AH course (4000 level)
   - Art 3000: Hand Building I (3)
   - DP 3020: Life Drawing (3)
   - DP 3200: Painting with Water-Based Media (4) or DP 3300: Painting with Oil-Based Media (4)
   - EDUC 2110: Investigating Critical & Contemporary Issues in Education (3)
   - EDUC 2120: Exploring Socio-Cultural Perspectives on Diversity in Educational Contexts (3)
   - EDUC 2130: Exploring Learning & Teaching (3)
   - EXC 4020: Characteristics and Instructional Strategies for Students with Disabilities (3)
   - Phot 3000: Introduction to Printmaking (4)
   - SCL 3000: Sculpture I (3)

2. Select two additional courses in one area to satisfy the 26-hour requirement of a studio art concentration. (6-8)

3. Art Education (12)
   - AE 4200/6200: Art for Preschool through Fifth Grade (3)
   - AE 4300/6300: Art for Middle and Secondary Schools (3)
   - AE 4400/6400: Media, Technology, and Visual Presentation (3)
   - AE 4900/6900: Art Theory and Criticism in Art Education (3)

4. AE 4750/6750, AE 4760/6760, AE 4770/6770, and AE 4780/6780 (Student Teaching) (12)

5. Select additional courses to complete a minimum of 126 hours. (See “Area H” following the degree requirement listings in this section.) Art 4980/6989, Special Problems (1-6), may be used in order to meet the specified requirements. Consent of departmental adviser and instructor required.

Area H: Minor and Additional Courses
Students seeking the B.F.A. in art education may not seek a minor. They must take additional courses as electives to complete a minimum of 126 semester hours, exclusive of 1000/2000 physical education or military science courses.

Note: Only graduate or post-baccalaureate students will be allowed to register in 6000 level courses, AE 6200, 6300, 6400, and 6900. These courses count only toward certification not as hours in the MAEd.

Application for Entry into Teacher Education
Prior to beginning to certify for student teaching, art education majors must meet professional requirements for entry into teacher education as listed in the “Teacher Preparation” chapter of this catalog. Students are also required to have a 2.5 overall cumulative GPA and to have passed the GACE I and Regents’ exams.

Pre-Student-Teaching Review
Prior to being approved for student teaching, all art education students must pass a portfolio-based Pre-Student-Teaching...
Review, have earned a grade of B or higher in all art education courses, and have earned a 3.0 GPA for all art courses. For details about the Pre-Student-Teaching Review, students should contact their art education adviser.

Certification Tests
For Georgia teacher certification, all candidates must take and pass the GACE I and GACE II tests. GACE I, required for entry into the major and teacher education, is a test of basic academic skills in reading, writing, and mathematics. GACE II, is required for certification and usually taken the semester prior to student teaching, is a test of art content knowledge and skills. The Counseling Center may be contacted at 404/651-2211 for an examination schedule and application form.

B.F.A. in Studio Art (120)
See the Program Admission requirements at the beginning of this section.

Areas A-E: Core Curriculum Recommendations
1. Area B: Cross-cultural art history courses may be offered in this area as sections of Pers 2001 (Perspectives in Comparative Culture). (2)
2. Area C: Students may select one art history survey in Area C.

Area F: Courses Appropriate to the Major Field (18)
1. Studio Requirements (12)
   - Art 1010 Drawing I (3)
   - Art 1020 Drawing II (3)
   - Art 1030 Two-Dimensional Design (3)
   - Art 1040 Three-Dimensional Design (3)
2. Art History Requirements (Select two courses in addition to any taken in Area C.) (6)
   - AH 1700 Survey of Art I. History of Western Art I: Prehistoric through Medieval Art (3)
   - AH 1750 Survey of Art II. History of Western Art II: The Renaissance through Contemporary Art (3)
   - AH 1850 Survey of Art III. Art of Africa, Oceania, and the Americas (3)

Area G: Major Courses (60)
Major Courses requirements for each of the areas of concentration in studio art are listed below. B.F.A. degree requirements for each of the major areas of concentration in studio art are listed below.

Drawing, Painting, and Printmaking Concentration
The following courses are required in Area G for students who are accepted into the drawing, painting, and printmaking concentration. Art 4980, Special Problems (1-6), may be used to adjust program in order to meet the 60-hour requirement. Consent of departmental adviser and instructor required.

1. Concentration Core Requirements (11)
   - DP 3020 Life Drawing (3)
   - DP 3100 Drawing and Composition (4)

2. Art Electives (3-8)
   - One or two 3000/4000-level studio courses outside drawing, painting, and printmaking. Drawing and printing emphasis requires one, and printmaking emphasis requires two.

3. Art History Elective. Select one course. (3-4)
Area A: Essential Skills (9)

Area B: Institutional Options (6)

Area C: Humanities and Fine Arts (6)

Area D: Science, Mathematics, and Technology (11)

Area E: Social Science (12)

Area F: Courses Appropriate to the Major (38)

1. Required Requirements (22)
   - Art 1010: Drawing I (3)
   - Art 1011: Drawing II (3)
   - Art 1050: Two-Dimensional Design (3)
   - Art 1040: Three-Dimensional Design (3)

2. Area History Requirements (Select two courses in addition to any taken in Area C) (6)
   - Art 1700: Survey of Art I (3)
   - Art 1710: Survey of Art II (3)
   - Art 1810: Survey of Art III (3)

Major Courses (60)

(A grade of "C" or better is required in all major courses.)

B.F.A. degree requirements for each of the major areas of concentration in studio art are listed below.

Applications to a Major Concentration

Upon completion of the Area F requirements of 19 credit hours and prior to completion of 15 additional credit hours, each student seeking a B.F.A. degree from the School of Art & Design must submit an application and pass a portfolio review for acceptance into a major concentration. Applications to concentrate in a discipline are available from the Office of Student Services in the School of Art & Design and are reviewed fall and spring semesters on Review Day scheduled prior to Phase I registration. Students should meet with an advisor in the concentration they are considering one semester before they apply for the concentration. In the event that a student is not accepted into the concentration, the student should see an advisor to explore other options.

Senior Portfolio Review and Exhibition

Recommendations for graduation with a B.F.A. degree in a studio area require the presentation of a body of work. This body of work, completed as part of portfolio courses, must be presented and reviewed by the Senior Portfolio Review Committee. Students must enroll in Senior Portfolio Review (ART 4490) to be eligible to present a portfolio for review. Students are required to present their senior portfolio in Spring of their senior year. Students who are not enrolled in senior critique courses for more than one semester during the junior or senior years, are required to resubmit an entrance portfolio for review and acceptance.

AH 4610 Twentieth-Century Modernism and Postmodernism (3)
AH 4700 Contemporary Art: Theory and Criticism (3)
Art 4900 Critical Issues in Contemporary Art (4)

4. Art History Elective: any 4000-level art history course (3)

5. Areas of Emphasis

Students must elect to follow the drawing and painting emphasis or the printmaking emphasis. Each program of study is described below.

a. Drawing and Painting Emphasis Requirements (37-38)

   The following courses are required in Area G for students who are accepted into the drawing and painting emphasis.
   - DP 3200 Painting with Water-Based Media (4)
   - DP 3300 Painting with Oil-Based Media (4)
   - DP 4000 Selected Topics in Drawing and Painting (8)
   - DP 4500 Directed Study in Drawing and Painting (12)
   - DP 4940 Portfolio I (3)
   - DP 4950 Portfolio II (3)

   Select one course from below (3-4)
   - Prt 3250 Screen Print and Experimental Printmaking (4)
   - Prt 3350 Monoprinting (3)
   - Prt 3450 Applied Papermaking (3)
   - Prt 3550 Book Arts (3)

b. Printmaking Emphasis Requirements (35-36)

   The following courses are required in Area G for students who are accepted into the printmaking emphasis.
   - Prt 3150 Intaglio/Etching and Lithography (4)
   - Prt 3250 Screen Print and Experimental Printmaking (4)
   - Prt 4000 Selected Topics in Printmaking (4-8)
   - Prt 4500 Directed Study in Printmaking (8-12)
   - Prt 4940 Portfolio I (3)
   - Prt 4950 Portfolio II (3)

   Select one course from below (3)
   - Prt 3350 Monoprinting (3)
   - Prt 3450 Applied Papermaking (3)
   - Prt 3550 Book Arts (3)
   - Select one course from below (4)
   - DP 3200 Painting with Water-Based Media (4)
   - DP 3300 Painting with Oil-Based Media (4)

Graphic Design Concentration

The following courses are required in Area G for students who wish to pursue the Graphic Design concentration.

   The following courses should be taken in the order listed below. Graphic design courses should be taken in the fall semester of the sophomore year. Additional information about the graphic design program is available in the School of Art and Design. Prospective majors should also attend the graphic design program orientation offered once each semester on Review Day. Students who are not enrolled in graphic design courses for more than one semester during the junior or senior years are required to resubmit an entrance portfolio for review and acceptance.

   1. Sophomore Requirements (9)

   2. Junior Requirements (11)

   3. Senior Requirements (10)

   Graphic Design Concentration

   The following courses are required in Area G for students who wish to pursue the Graphic Design concentration.

   Graphic design courses should be taken in the order listed below. Graphic design courses should be taken in the fall semester of the sophomore year. Additional information about the graphic design program is available in the School of Art and Design. Prospective majors should also attend the graphic design program orientation offered once each semester on Review Day. Students who are not enrolled in graphic design courses for more than one semester during the junior or senior years are required to resubmit an entrance portfolio for review and acceptance.

   1. Sophomore Requirements (9)
**Sophomore Level (Fall) (6)**
- **GrD 3000** Introduction to Graphic Design (3)
- **GrD 3150** Introduction to Typography (3)

**Sophomore Level (Spring) (3)**
- **GrD 3200** Intermediate Graphic Design (3)

2. **BFA Entrance Review**

3. **Upper Level Requirements (42)**
   - **Junior Level (Fall) (12)**
     - **GrD 4020** Advanced Typographic Design (3)
     - **GrD 4100** Print and Editorial Design (3)
     - **GrD 4310** Multimedia Design (3)
     - **GrD 4910** History of Graphic Design (4)
   - **Junior Level (Spring) (12)**
     - **GrD 4150** Collateral Design for Print Applications (3)
     - **GrD 4250** Graphic Design in Popular Culture (3)
     - **GrD 4300** Internship in Graphic Design (3)
     - **GrD 4400** Design for Film and Television (3)

**Junior Level (Fall) (12)**
- **GrD 4020** Advanced Typographic Design (3)
- **GrD 4100** Print and Editorial Design (3)
- **GrD 4310** Multimedia Design (3)
- **GrD 4910** History of Graphic Design (4)

**Junior Level (Spring) (12)**
- **GrD 4150** Collateral Design for Print Applications (3)
- **GrD 4250** Graphic Design in Popular Culture (3)
- **GrD 4300** Internship in Graphic Design (3)
- **GrD 4400** Design for Film and Television (3)

4. **Select two electives (6-8)**
- **GrD 3300** Illustration: Concepts through Images (3)
- **Phot 3000** Photography I (3)
- **Phot 3100** Photography II (4)
- **Prt 3250** Screen Print and Experimental Printmaking (4)
- **Prt 3550** Book Arts (3)
- **CSc 4840** Computer Graphics Imaging (3)
- **CSc 4841** Computer Animation (3)

5. **Select one AH 4000-level Art History (3)**

6. **Senior Portfolio Review**

**Senior Exhibition**

**Interior Design Concentration**

The following courses are required in Area G for students who wish to pursue the Interior Design concentration. Students should consult with an adviser for the sequence of courses to be taken. Interior Design course work should begin fall semester of the sophomore year. Additional information about the interior design program is available in the School of Art and Design. Prospective majors should also attend an interior design orientation/group advisement offered once each
semester. Art 4980, Special Problems (1-6), may be used to adjust program in order to meet the 60-hour requirement. Consent of departmental adviser and instructor required.

Students pursuing a degree in Interior Design are advised that the educational requirements vary in each state regarding the profession of interior designer.

1. Area A Concentration Requirements prior to Portfolio Review for acceptance into Interior Design concentration (3).
   Math 1111 College Algebra (3)

2. Area D Concentration Requirements prior to Portfolio Review for acceptance into Interior Design concentration (8).
   Phys 1111K Introduction to Physics I (4) and
   Phys 1112K Introduction to Physics II (4)

3. Area G Concentration Requirements prior to Portfolio Review for acceptance into Interior Design concentration (9).
   ID 3000 Architectural Drawing I: Drafting (3)
   ID 3300 Interior Design I: Theory (3)
   ID 4600 History of Interior Design I: Antiquities to the Nineteenth Century (3)

4. BFA Entrance Portfolio Review

5. Area G Concentration Requirements for accepted Interior Design majors (45)
   ID 3100 Architectural Drawing II: Presentation (3)
   ID 3350 Interior Design IV: Materials (3)
   ID 3500 Interior Design III: Spatial Organization (3)
   ID 3600 Building Systems and Codes (2)
   ID 4000 Interior Design: Selected Topics (3)
   ID 4100 Lighting Design (3)
   ID 4200 Residential Design I (3)
   ID 4210 Residential Design II (3)
   ID 4250 Architectural Drawing III: Computer Aided Drafting and Design (2)
   ID 4300 Commercial Design I (3)
   ID 4310 Commercial Design II (3)
   ID 4350 Architectural Drawing IV: Three-Dimensional Computer Aided Drafting and Design (2)
   ID 4400 Architectural Drawing V: Working Drawings (3)
   ID 4500 Directed Study (3)
   ID 4700 History of Interior Design II: Nineteenth Century to Present (3)
   ID 4800 Professional Practice (2)
   ID 4940 Interior Design Portfolio I (2)
   ID 4950 Interior Design Portfolio II (3)

6. Art Electives (required):
   Art History (4000 level) (3)

7. Advanced Studio/Internship Electives: Interior design studios listed below are recommended and may be repeated for a maximum of six credit hours (3-6).
   ID 4000 Interior Design: Selected Topics: (3-6)
   ID 4500 Directed Study: (3-6)
   ID 4930 Interior Design Internship (3-6) Note: ID 4930 qualifies for academic credit only after completion of ID4200, 4210, 4300, and 4310.
   Art 4980 Special Problems (3-6)
Photography Concentration

The following courses are required in Area G for students who are accepted into the Photography concentration. Art 4980, Special Problems (1-6), may be used to adjust program in order to meet the 60-hour requirement. Consent of departmental adviser and instructor required.

1. Concentration Requirements (36-40)
   - Phot 3000 Photography I (3)
   - Phot 3010 Photography II (4)
   - Phot 3100 Alternative Processes (4)
   - Phot 4100 Color Photography (4)
   - Phot 4300 Studio Photography (4)
   - Phot 4420 Digital Photography (4)
   - Phot 4500 Directed Study in Photography (4-8)
   - Phot 4910 History of Photography (3)
   - Phot 4940 Portfolio I (3)
   - Phot 4950 Portfolio II (3)

2. Select one art history course at the 4000 level (consult department adviser). (3)

3. Select three or four studio courses at the 3000/4000 level equaling 12 hours (consult department adviser) (12).

   Recommended courses:
   - Phot 4410 Creative Process and Practice (3)
   - Phot 4430 Digital Video for Artists (4)
   - Phot 4930 Internship in Photography (4)
   - Phot 4980 Special Problems (4)
   - Art 4990 Critical Issues in Contemporary Art (4)

Textiles Concentration

The following courses are required in Area G for students who are accepted into the Textiles concentration. Art 4980, Special Problems (1-6), may be used to adjust program in order to meet the 60-hour requirement. Consent of departmental adviser and instructor required.

1. Concentration Requirements (43)
   - Text 3000 Fibers, Colors, Dyes, and Dyeing (3)
   - Text 3100 Surface Design I (3)
   - Text 3200 Weaving I (3)
   - Text 4100 Surface Design II (4)
   - Text 4200 Weaving II (4)
   - Text 4300 Heat Transfer Printing: Three-Dimensional Patterning on Synthetic Fabrics (4)
   - Text 4500 Directed Study in Textile Design (4)
   - Text 4600 Digital Textile Design (4)
   - Text 4910 Historic Textiles (4)
   - Text 4940 Portfolio I (3)
   - Text 4950 Portfolio II (3)

2. Textiles Elective: Select one course (3-4)
   - Text 3300 Three-dimensional Fiber Structures (3)
   - Text 4500 Directed Study in Textile Design (4)
3. Select one 3000/4000-level studio (3-4)
   ID 3400 Interior Design II: Elements of Interior Design (3)
   Prt 3150 Intaglio/Etching and Lithography (4)
   Prt 3250 Screen Print and Experimental Printmaking (4)
   Seal 3000 Sculpture I (3)
   Text 3300 Three-Dimensional Fiber Structures (3)

4. Select two art history 4000-level electives. (6-7)
   Art 4900 Critical Issues in Contemporary Art (4)
   ID 4600 History of Interior Design I: Antiquities to the Nineteenth Century (3)
   ID 4700 History of Interior Design II: Nineteenth Century to Present (3)

Three-Dimensional Studies Concentration (emphasis in Sculpture or Ceramics)

   The following courses are required in Area G for students who are accepted into three-dimensional studies concentration, which includes sculpture and ceramics.

1. Concentration Core Requirements (9)
   Cer 3000 Hand Building I (3)
   Scul 3000 Sculpture I (3)
   Cer 3100 or Scul 3100, depending on emphasis (3)

2. Two-Dimensional Studio Electives (3-8). Depending on the emphasis, select one or two 3000/4000-level courses from the following disciplines.
   - Drawing and Painting (DP)
   - Printmaking (Prt)
   - Photography (Phot)
   - Interior Design (ID 3000 only)
   - Textiles (Text 3100, 3200, 4100, 4200 only)

3. Three-Dimensional Studio Electives (6-8)
   - Ceramics (Cer)
   - Sculpture (Scul)

4. Art History Electives (6-8)
   - Art History Electives (6-8)
   - Select any two 4000-level art history courses or
   - AH 4700 Contemporary Art: Theory and Criticism (3)
   - Art 4900 Critical Issues in Contemporary Art (4)
   - Cer 4910 History of Ceramics (4)
   - Cer 4920 Contemporary Ceramic History (3)

5. Areas of Emphasis
   - Students must elect to follow an emphasis in Ceramics or Sculpture. Each program of study is described below. Art 4980, Special Problems (1-6), may be used to adjust program in order to meet the 60-hour requirement. Consent of departmental adviser and instructor required.
     a. Ceramics Emphasis Requirements (30)
        Cer 4100 Wheel Throwing II (4)
        Cer 4200 Forms and Surface Instruction (4)
        Cer 4300 Ceramic Materials (4)
Cer 4500               Directed Studies in Ceramics (8)
Cer 4600               Ceramic Sculpture (4)
Cer 4940               Portfolio I (3) Consult with Faculty Adviser
Cer 4950               Portfolio II (3) Consult with Faculty Adviser

Studio Elective: Select one (3-4)
Cer 4000               Selected Topics in Ceramics (3)
Cer 4930               Internship in Ceramics (4)
Cer 4980               Special Problems (4)

b. Sculpture Emphasis Requirements (33)
Scul 3200             Figure Studies in Sculpture (3)
Scul 4000             Selected Topics in Sculpture (4)
Scul 4500             Directed Studies in Sculpture (20)
Scul 4940             Portfolio I (3)
Scul 4950             Portfolio II (3)

Area H: Minor and Additional Courses
Students seeking a B.F.A. may not seek a minor due to the focused nature of the B.F.A. degree.

Senior Portfolio Review and Exhibition
Recommendation for graduation with a B.F.A. degree in a studio area requires the presentation of a body of work. This includes work completed as part of portfolio courses. For more details on enrolling for portfolio courses, students should obtain a Senior Portfolio Review form from the School of Art & Design office and consult with an adviser in their major area of concentration about forming a Senior Portfolio Review Committee. B.F.A candidates who successfully complete portfolio course 4950 are required to participate in the B.F.A Senior Group Exhibition held at the end of each semester.

Minor in Art History; Drawing, Painting, and Printmaking; Photography; Textiles; and Three Dimensional Studies
Students not majoring in art may take a minor in art history; drawing, painting, and printmaking; photography; textiles; or three-dimensional studies. They must take 18 hours of courses in the designated minor, at least 9 of which must be at the 3000 level or above. Prerequisites apply. Specific descriptions of each minor option are available from the School of Art and Design. A grade of C or higher is required in all courses counting toward the minor.
1. Concentration Requirements (36)
   Text 100: Drawing 1 (3)
   Text 200: Drawing 2 (3)
   Text 300: Drawing 3 (3)
   Text 400: Drawing 4 (3)
   Text 500: Drawing 5 (3)
   Text 600: Drawing 6 (3)

2. General Electives: Select one course (3)
   Text 200: Drawing 2 (3)
   Text 300: Drawing 3 (3)
   Text 400: Drawing 4 (3)
   Text 500: Drawing 5 (3)
   Text 600: Drawing 6 (3)

3. Graphic Design Electives: Select one course (3)
   Text 200: Drawing 2 (3)
   Text 300: Drawing 3 (3)
   Text 400: Drawing 4 (3)
   Text 500: Drawing 5 (3)
   Text 600: Drawing 6 (3)

4. Textile Electives: Select two courses (5)
   Text 200: Drawing 2 (3)
   Text 300: Drawing 3 (3)
   Text 400: Drawing 4 (3)
   Text 500: Drawing 5 (3)
   Text 600: Drawing 6 (3)

5. Photograph Electives: Select two courses (5)
   Text 200: Drawing 2 (3)
   Text 300: Drawing 3 (3)
   Text 400: Drawing 4 (3)
   Text 500: Drawing 5 (3)
   Text 600: Drawing 6 (3)

6. Minor and/or Additional Courses

1. Students seeking a B.A. in the School of Art and Design are not required to take a minor, although they may complete one if they so choose. Completing a minor is not an option for B.F.A. students due to the focused nature of the B.F.A. professional degree.

2. Students completing a B.A. or B.F.A. in the School of Art and Design must take additional courses as needed to complete a minimum of 120 hours (126 hours in the B.F.A. in Art Education), exclusive of 100/200/300 level or above. Specific description of each minor option are available from the Student Services Office of the School of Art and Design. (A grade of "C" or better is required in all courses counting toward the minor.)
Residency Requirement

Students completing a B.A. or B.F.A. in the School of Art and Design must complete a minimum of 19 semester hours in courses at the 5000 level or above with an average grade of "C" or better while in residence at Georgia State University. Students completing a B.F.A. in the School of Art and Design must take at least half (9) of their art courses at Georgia State University.

Honors Program

The School of Art and Design encourages qualified students to participate in the Honors Program. (See "Honors Program," previously described.)

Course Descriptions

Please refer to "Courses of Study" section in this catalog.
B.S. in Biology

**General Catalog 1998-1999**

**Catalog 2007-2008**

### Programs Offered:

- Bachelor of Science in Biology
- General Biology Studies (no concentration)
- Concentration in Microbiology
- Concentration in Molecular Genetics and Cell Biology
- Concentration in Neurobiology and Behavior
- Concentration in Preprofessional Programs/Physiology

### Minor in Biology

- Department of Biology
  - 402 Kell Hall
  - 404/651-2259
  - http://biology.gsu.edu

- Phang C. Tai, Chair
- Teryl Frey, Associate Chair
- Barbara Baumstark, Director of Instructional Programs
- Therese Poole, Undergraduate Director
- Kathy Rockwell, Undergraduate Coordinator

Biology, the science of life and life processes, includes the study of structure, function, growth, development, reproduction, origin, evolution, and distribution of living organisms. A degree in biology provides students with a variety of career opportunities. Potential careers range from applied or basic laboratory research and field studies in numerous state and federal organizations and industry, to education in public and private school systems. Furthermore, the degree provides the ideal preparation for entry into medical, dental, and veterinary schools and other health-related professions. Finally, a bachelor’s degree in biology provides a good foundation for advanced studies at the M.S. or Ph.D. level in biological sciences.

As an alternative to the General Biology Studies program (and in addition to the core degree requirements), courses in one of several areas of concentration, listed below, are available. Interdisciplinary programs with other departments/schools/institutes (such as Behavioral Biology or Environmental Science) are also an option. To plan the major according to the particular needs and goals, students should consult the “Undergraduate Program” area of the Biology Department Website (biology.gsu.edu) for information about the major. For advisement questions, students should contact the Undergraduate Coordinator (404/651-3136) who will help connect them with an appropriate faculty advisor.

### Program Degree Requirements

- Programs are available for some requirements in Areas A-F. Please see a degree program adviser for specific guidelines.
- In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

**3170 Biology**

**Phang C. Tai, Chair**

- Biology, Associate Professor of Biology
- William G. Nolan, Ph.D. (University of California, Berkeley), Associate Professor of Biology
- Sarah Falbo, Ph.D. (Cornell University), Associate Professor of Biology
- Donald J. Klein, Ph.D. (Columbia University), Associate Professor of Microbiology and Assistant and Laboratory Technician
- Walter W. Wakefield, Ph.D. (State University of New York, Albany), Assistant Professor of Biology
- Susan A. Avrett, Ph.D. (University of Massachusetts), Assistant Professor of Biology
- Pamela J. Daugherty-Hughes, Ph.D. (Emory University), Assistant Professor of Biology
- Purun Kaur, Ph.D. (Palack University, India), Assistant Professor of Biology
- Lingdula Peregudan, Ph.D. (Graduate School of the Institute of Biology, Ph. Jassung), Assistant Research Professor of Biology
- Vincent M. Becker, Ph.D. (Florida University, Tallahassee), Assistant Professor of Biology
- Laura A. Metz, M.A. (Emory University), Instructor in Biology
- Andrew D. C. Chau, Ph.D. (University of Texas), Lecturer in Biology
- Lisa A. Glinn, Ph.D. (Yale Institute of Technology), Lecturer in Biology
- Therese P. Poole, Ph.D. (University of Wisconsin), Lecturer in Biology
- David M. Blumenthal, Ph.D. (Georgia State University), Academic Professional in Biology
- Luis A. Barak, M.D. (Georgia State University), Academic Professional in Biology
- Chung-Lun Lu, Ph.D. (Georgia State University), Academic Professional in Biology

**On leave**

- Biology, the science of life and life processes, includes the study of structure, function, growth, development, reproduction, origin, evolution, and distribution of living organisms. A degree in biology provides students with a variety of career opportunities. Potential careers range from applied or basic laboratory research and field studies in numerous state and federal organizations and industry, to education in public and private school systems. Furthermore, the degree provides the ideal preparation for entry into medical, dental, and veterinary schools and other health-related professions. Finally, a bachelor’s degree in biology provides a good foundation for advanced studies at the M.S. or Ph.D. level in biological sciences.

As an alternative to the General Biology Studies program (and in addition to the core degree requirements), courses in one of several areas of concentration, listed below, are available. Interdisciplinary programs with other departments/schools/institutes (such as Behavioral Biology or Environmental Science) are also an option. To plan the major according to the particular needs and goals, students should consult the “Undergraduate Program” area of the Biology Department Website (biology.gsu.edu) for information about the major. For advisement questions, students should contact the Undergraduate Coordinator (404/651-3136) who will help connect them with an appropriate faculty adviser.

### Program Degree Requirements

- Program Degree Requirements
  - Alternatives are available for some requirements in Areas A-F. Please see a degree program adviser for specific guidelines.
  - In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).
Areas A-E: Core Curriculum Recommendations

1. **Required course:**
   - Math 1113              Precalculus (or any higher level mathematics course) (3)

2. **Recommended course:**
   - Phil 1010              Critical Thinking (2)

3. **Laboratory Science Sequence (8) Recommended courses:**
   - Phys 1111K          Introduction to Physics I (4) and
   - Phys 1112K          Introduction to Physics II (4) or
   - Phys 2211K          Principles of Physics I (4) and
   - Phys 2212K          Principles of Physics II (4)

4. **Math. (3) Any one math not taken in area A from the following choices: Math 1070, 1220, 2211, 2212 (or any higher-level math). For any four credit-hour course, three credit hours are applied to Area D, and one credit hour is applied to area F.**

Area F: Courses Appropriate to the Major Field (18)

1. **Required Courses (16)**
   - Biol 2107K           Principles of Biology I (4)**
   - Biol 2108K           Principles of Biology II (4)**
   - Chem 1211K         Principles of Chemistry I (4)
   - Chem 1212K         Principles of Chemistry II (4)

2. **Select one from the following (2):**
   - Biol 2220              Introduction to Research in Biology and Medicine (2)
   - Biol 2240              Human Physiology (3)
   - Biol 2300              Microbiology and Public Health (3)
   - Biol 2430              Frontiers in Biotechnology (2)
   - Biol 2500              Neurobiology and Behavior (2)
   - Biol 2800              Introduction to Molecular Biology (2)
   - **Students who decide to major in biology after completing Biol 1107K may use Biol 1107K for credit toward Area F if they complete Biol 2108K and Biol 2800 before enrolling in major courses (Area G).**
   - **Students who decide to major in biology after completing Biol 1107K and Biol 1108K may use these courses for credit toward Area F if they complete Biol 2800 before enrolling in major courses (Area G).**

Area G: Major Courses (39)

A grade of C or higher is required in all Area G and Area H courses

1. **Major Core Requirements (14)**
   - Biol 3800              Molecular Cell Biology (3)
   - Biol 3810              Molecular Cell Biology Laboratory (2)
   - Biol 3840              Animal Biology (3)
   - Biol 3880              Microbiology (3)
   - Biol 3900              Genetics (3)

2. **Choose one of the following labs: (1)***
   - Biol 3250              Human Physiology Laboratory (1)
   - Biol 3830              Plant Biology Laboratory (1)
   - Biol 3850              Animal Biology Laboratory (1)
   - Biol 3890              Microbiology Laboratory (1)
   - Biol 3910              Genetics Laboratory (1)

   * Students should consult with their adviser regarding the laboratory most appropriate to their course of study.
3. Additional laboratories may be appropriate and the credit applied to item 4 below.

4. At least one credit hour of Biol 4960, Biology Careers Seminar (1), or Biol 4970, Biology Seminar (1). It is recommended that the student take Biol 4960 or 4970 early in his or her course of study for career advisement.

**Neurobiology and Behavior Concentration**

**Recommended: Area F2**
- Biol 2500 Neurobiology and Behavior (2)

**Recommended: Area G2**
- Biol 3850 Animal Biology Laboratory (1)

**Required: Area G4**
- Biol 4102 Fundamentals of Neurobiology (4)

Choose 19 hours of the following (3-5 credit hours each):
- Biol 4014K Invertebrate Biology (4)
- Biol 4015K Vertebrate Biology (4)
- Biol 4045K General Ecology (4)
- Biol 4053K Field Ecology (4)
- Biol 4074 Developmental Biology (4)
- Biol 4094 Developmental Neurobiology (4)
- Biol 4114 Neural Mechanisms of Regulatory Behavior (4)
- Biol 4115 Medical Neuroanatomy (4)
- Biol 4130 Sensation and Perception (3)
- Biol 4180 Neurobiology Laboratory (4)
- Biol 4240 Endocrinology (4)
- Biol 4242 Circadian Rhythms (4)
- Biol 4241 Hormones and Behavior (4)
- Biol 4246 Advanced Human Physiology (4)
- Biol 4248 Cell Physiology (4)
- Biol 4600 Evolutionary Biology (4)
- Biol 4630 Enzymology (3)
- Biol 4800 Principles of Cell Biology (4)
- Biol 4910 Undergraduate Research in Biology (1-5), on a subject related to Neurobiology and Behavior
- Biol 4930 Topics in Biology (3-4)

**Recommended Area H:**
- Biol 4744 Biostatistics (3)
- Phil 4130 Philosophy of Science (3)
- Phil 4740 Advanced Biomedical Ethics (3)
- Phys 3500 Electronics (3)
- Psy 3010 Psychological Statistics (4)
- Psy 3030 Principles and Methods of Psychological Investigation (4)
- Psy 3140 Abnormal Psychology (3)
- Psy 4100 Cognitive Psychology (3)
- Psy 4110 Physiological Psychology (3)
- Psy 4120 Learning (3)
- Psy 4130 Sensation and Perception (3)
Psyc 4140  Introduction to Psychophysiology (4)
Psyc 4590  Neurobiology (3)
Psyc 4630  Hormones and Behavior (4)

Microbiology Concentration
Recommended: Area F2
Biol 2220  Introduction to Research in Biology and Medicine (2) or
Biol 2300  Microbiology and Public Health (3)
Recommended: Area G2
Biol 3890  Microbiology Laboratory (1)
Required: Area G4
All of the following courses are required (16):
Biol 4428  Medical Microbiology (4)
Biol 4430  Microbial Diversity and Systematics (4)
Biol 4458  Microbial Ecology and Metabolism (4)
Biol 4595  Microbial Physiology and Genetics (4)

Molecular Genetics and Cell Biology Concentration
Recommended: Area F2
Biol 2220  Introduction to Research in Biology and Medicine (2) or
Biol 2430  Frontiers in Biotechnology (2) or
Biol 2800  Introduction to Molecular Biology (2)
Required: Area G4
All of the following courses are required (9)
Biol 3910  Genetics Laboratory (1)—can be used to satisfy Area G2
Biol 4564  Advanced Genetics (4)
Biol 4800  Principles of Cell Biology (4)

and
Choose two of the following (5-9)
Biol 4074  Developmental Biology (4)
Biol 4248  Cell Physiology (4)
Biol 4278  Immunology (4)
Biol 4500  Human Genetics (4)
Biol 4575  Virology (4)
Biol 4580  Microbial Pathogenesis (4)
Biol 4595  Microbial Physiology and Genetics (4)
Biol 4696  Laboratory in Molecular Biological Techniques (4)
Biol 4910  Undergraduate Research in Biology (1-5), on a subject related to microbiology
Biol 4930  Topics in Biology (3-4)
<table>
<thead>
<tr>
<th>Biology Course Code</th>
<th>Course Title</th>
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<td>Biol 4630</td>
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<td>Biol 4685</td>
<td>Functional Histology (4)</td>
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<tr>
<td>Biol 4696</td>
<td>Laboratory in Molecular Biological Techniques (4)</td>
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<td>Biol 4744</td>
<td>Biostatistics (3)</td>
</tr>
<tr>
<td>Biol 4910</td>
<td>Undergraduate Research in Biology (1-5), on a topic related to molecular genetics and cell biology</td>
</tr>
<tr>
<td>Biol 4930</td>
<td>Topics in Biology (3-4)</td>
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</tbody>
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**Preprofessional/Physiology Concentration**

**Recommended: Area F2**
- Biol 2220 Introduction to Research in Biology and Medicine (2) or
- Biol 2300 Microbiology and Public Health (3)

**Required: Area G4**
- All of the following courses are required (12)
  - Biol 3240 Human Physiology (3)
  - Biol 3250 Human Physiology Laboratory (1)
  - Biol 4240 Endocrinology (4)
  - Biol 4246 Advanced Human Physiology (4)
- and
- Choose three of the following (11-12)
  - Biol 4074 Developmental Biology (4)
  - Biol 4094 Developmental Neurobiology (4)
  - Biol 4102 Fundamentals of Neurobiology (4)
  - Biol 4115 Medical Neuroanatomy (4)
  - Biol 4130 Sensation and Perception (3)
  - Biol 4248 Cell Physiology (4)
  - Biol 4276 Immunology (4)
  - Biol 4428 Medical Microbiology (4)
  - Biol 4500 Human Genetics (4)
  - Biol 4575 Virology (4)
  - Biol 4580 Microbial Pathogenesis (4)
  - Biol 4685 Functional Histology (4)
  - Biol 4744 Biostatistics (3)
  - Biol 4800 Principles of Cell Biology (4)
  - Biol 4910 Undergraduate Research in Biology (1-5)
  - Biol 4930 Topics in Biology (3-4)

**Area II: Minor and Additional Courses (21)**

Students majoring in biology are required to complete the following:

1. **Required courses (13)**
   - Chem 2400 Organic Chemistry I (4)
   - Chem 3410 Organic Chemistry II (4)
   - Chem 4600 Biochemistry I (5)
   - Chem 3100 and 3110 are also required by most professional programs.
2. **Select one two-course physics sequence (8)**
   - *Phys 1111K Introduction to Physics I (4) and Phys 1112K Introduction to Physics II (4) or*
Phys 2211K Principles of Physics I (4) and
Phys 2212K Principles of Physics II (4)

* Two semesters of physics are required for biology majors. If the physics sequence is used to fulfill the Area D requirement, then students should select courses from the list in section (3) to complete this eight semester hour requirement.

3. Select additional biology courses at the 3000 level or above or courses from this list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chem 3100</td>
<td>Organic Chemistry Laboratory I (2)</td>
</tr>
<tr>
<td>Chem 3110</td>
<td>Organic Chemistry Laboratory II (2)</td>
</tr>
<tr>
<td>Chem 4110</td>
<td>Physical Chemistry I (3)</td>
</tr>
<tr>
<td>Chem 4610</td>
<td>Biochemistry II (3)</td>
</tr>
<tr>
<td>Geol 4017</td>
<td>Environmental Geology (4)</td>
</tr>
<tr>
<td>Math 1070</td>
<td>Elementary Statistics (3)</td>
</tr>
<tr>
<td>Math 2211</td>
<td>Calculus of One Variable I (4)</td>
</tr>
<tr>
<td>Math 2212</td>
<td>Calculus of One Variable II (4)</td>
</tr>
<tr>
<td>Math 2215</td>
<td>Multivariate Calculus (4)</td>
</tr>
<tr>
<td>Phil 4130</td>
<td>Philosophy of Science (3)</td>
</tr>
<tr>
<td>Phil 4740</td>
<td>Advanced Biomedical Ethics (3)</td>
</tr>
<tr>
<td>Phys 3500</td>
<td>Electronics (3)</td>
</tr>
<tr>
<td>Psyc 3010</td>
<td>Psychological Statistics (4)</td>
</tr>
<tr>
<td>Psyc 3140</td>
<td>Abnormal Psychology (3)</td>
</tr>
</tbody>
</table>

4. Students majoring in biology must take additional courses as electives to complete a minimum of 120 hours, exclusive of 1000/2000 physical education or military science courses.

**Graduation with Distinction**

At least five hours of Biol 4910 and a grade-point average of 3.5 in the major area are required for graduation with distinction.

**Minor Offerings and Double Major in Biology**

Students who wish to minor in biology must take 15-18 hours in courses in biology, including at least nine hours at the 3000 level or above. Students are responsible for meeting all prerequisite requirements (such as Chem 1211K/1212K) for the biology courses they choose to take, and are strongly encouraged to take these prerequisites as early as possible in their academic career. Students taking more than 15 hours in courses in biology may count the additional hours toward their electives or may consider completing a double major. A grade of C or higher is required in all courses counting toward the minor.

**Honors Program**

The department encourages qualified students to participate in the Honors Program (see “Honors Program” previously described or visit [http://www.gsu.edu/~wwwhon/](http://www.gsu.edu/~wwwhon/)). The department sponsors a Biology Club and the Eta Psi chapter of Beta Beta Beta, the national honorary biological society. Interested students are encouraged to participate in these organizations.

**Internships**

Internships with collaborating institutions and programs (including ZooAtlanta, the Georgia Aquarium and the Bio-Bus program) are available on a limited basis. Students interested in receiving course credit for an internship should consult with the Undergraduate Director or Undergraduate Coordinator for more information.

**Undergraduate Research Programs**
Students are particularly encouraged to participate in the Undergraduate Research Program after completion of core requirements. Participation in an ongoing research activity provides the student with experience in experimental design and interpretation that is typically not available in routine laboratory courses. Students may enroll in Biol 4910 for a total of 10 hours. Interested students should consult the departmental brochure on faculty research interests and contact one or more faculty members for development of a specific project.
General Catalog 1998-1999

Department of Chemistry
540 General Classroom Building, 404/651-3120
http://chemistry.gsu.edu

A. L. Baumstark, Chair
Dave Kennedy, Undergraduate Senior Advisor

Faculty
Aldrin Bauman, Ph.D. (Harvard University), Professor of Chemistry and Chair of the Department of Chemistry
David W. Beckett, Ph.D. (University of Virginia), Regents’ Professor of Chemistry and Associate Dean of the College of Arts and Sciences
W. David Wilson, Ph.D. (Purdue University), Eigeneer’s Professor of Chemistry
Robert Cherask, Ph.D. (Duke University), President of Chemistry
Harry D. Hejford, Jr., Ph.D. (Georgia Institute of Technology), Professor of Chemistry
Thomas L. Nattil, Ph.D. (Yale University), Professor of Chemistry
Gabor Patzay, Ph.D. (Technical University of Budapest), Professor of Chemistry
Ludwig Friedland, Ph.D. (Instutute of Organic Chemistry), Professor of Chemistry
James A. Allison, Ph.D. (University of Washington), Associate Professor of Chemistry
Daphne W. Tal, Ph.D. (Massachusetts Institute of Technology), Associate Professor of Chemistry
Fred Herkness, Ph.D. (University of Illinois), Associate Professor of Chemistry
Donald G. Hils, Ph.D. (University of Tennessee), Associate Professor of Chemistry

G. Davon Kennedy, Ph.D. (Emory University), Associate Professor of Chemistry
Currie T. Neust, Jr., Ph.D. (University of North Carolina), Associate Professor of Chemistry
Jerry G. Smith, Ph.D. (University of North Carolina), Associate Professor of Chemistry
Paul Franklin, Ph.D. (Columbia University), Visiting Assistant Professor of Chemistry
Kathryn B. Grasst, Ph.D. (Columbia University), Assistant Professor of Chemistry
Shahab Shabani, Ph.D. (Illinois University), Assistant Professor of Chemistry
Jerry J. Yang, Ph.D. (Florida State University), Assistant Professor of Chemistry
Laura Kilner-Herzog, Ph.D. (Georgia State University), Lecturer in Chemistry

Chemistry deals with the nature of all substances and the changes that occur therein. It ranges from the study of the structure of atoms and molecules to that of the reactions occurring in living organisms. The study of chemistry can provide knowledge that will give students a greater understanding and appreciation of the world in which they live. In addition, knowledge of chemistry is a great asset in areas such as biology, physics, and health-related fields. It is a logical basis for pre-medical training.

Each student is urged to consult with a faculty adviser at the earliest possible time (even before the first semester) to outline a curriculum to meet his or her needs. A typical program of study for chemistry majors is outlined below. Although not required, several minors are possible for chemistry majors.

Chemistry Courses for Science Majors
Detailed descriptions of the objectives and prerequisites of each course are available in the Department of Chemistry. The student is urged to consult these descriptions if there is any doubt about requirements or qualifications. Laboratory courses and courses on principles are designed to be mutually reinforcing. The laboratory is the real basis for the science, but the lecture courses are designed to speed the learning process. The two parts are separated only to provide added flexibility in scheduling and to meet individual needs, particularly for transfer students. Great care should be exercised in scheduling one course without the other.

Chemistry Courses for Non-Science Majors
Detailed descriptions of the objectives and prerequisites of each course are available in the Department of Chemistry. The student is urged to consult these descriptions if there is any doubt about requirements or qualifications. Laboratory courses and courses on principles are designed to be mutually reinforcing. The laboratory is the real basis for the science, but the lecture courses are designed to speed the learning process. The two parts are separated only to provide added flexibility in scheduling and to meet individual needs, particularly for transfer students. Great care should be exercised in scheduling one course without the other.

Catalog 2007-2008

3180 Chemistry

Programs Offered:
Bachelor of Science in Chemistry
Concentration in Pre-Medicine
Certification by the American Chemical Society
Minor in Chemistry

Department of Chemistry
540 General Classroom Building
404/651-3120
http://chemistry.gsu.edu

A. L. Baumstark, Chair
Dabney Dixon, Associate Chair
Paul J. Franklin, Director of Undergraduate Studies, Adviser

Chemistry deals with the nature of all substances and the changes that occur therein. It ranges from the study of the structure of atoms and molecules to that of the reactions occurring in living organisms. The study of chemistry can provide knowledge that will give students a greater understanding and appreciation of the world in which they live. In addition, knowledge of chemistry is a great asset in areas such as biology, physics, and health-related fields. It is a logical basis for pre-medical training.

Program Academic Regulations
A grade of C or higher is required for all major and minor courses.

Chemistry Courses for Science Majors
Detailed descriptions of the objectives and prerequisites of each course are available in the Department of Chemistry. The student is urged to consult these descriptions if there is any doubt about requirements or qualifications. Laboratory courses and courses on principles are designed to be mutually reinforcing. The laboratory is the real basis for the science, but the lecture courses are designed to speed the learning process. The two parts are separated only to provide added flexibility in scheduling and to meet individual needs, particularly for transfer students. Great care should be exercised in scheduling one course without the other.

Chemistry Courses for Non-Science Majors
Detailed descriptions of the objectives and prerequisites of each course are available in the Department of Chemistry. The student is urged to consult these descriptions if there is any doubt about requirements or qualifications. Laboratory courses and courses on principles are designed to be mutually reinforcing. The laboratory is the real basis for the science, but the lecture courses are designed to speed the learning process. The two parts are separated only to provide added flexibility in scheduling and to meet individual needs, particularly for transfer students. Great care should be exercised in scheduling one course without the other.

Degrees Offered:
Bachelor of Science in Chemistry
Concentration in Pre-Medicine
Certification by the American Chemical Society
Minor in Chemistry

Degree Requirements

Bachelor of Science
Major in Chemistry

Certification by the American Chemical Society

Major must complete the following:
1. "Undergraduate Core Curriculum," previously described (specific recommendations listed below)
2. "Area F: Courses Appropriate to the Major," listed below
3. "Major Courses," listed below, and
4. "Minor and Additional Course," listed below, if needed.

Alternatives are available in some core and major requirements. Please see a degree program adviser for specific guidelines.
Area A: Essential Skills (9)
Required course:
Math 1113 Calculus with Analytic Geometry (3)

Area B: Institutional Options (1)

Area C: Humanities and Fine Arts (6)

Area D: Science, Mathematics, and Technology (11)
Recommended courses:
Chem 1211K Principles of Chemistry I (4)
Chem 1212K Principles of Chemistry II (4)

Required course:
Math 2211 Calculus of One Variable I (or a higher level mathematics course) (4)
* 1 credit hour will count in the second 60 hours beyond the core curriculum.

Area E: Social Sciences (12)

Area F: Courses Appropriate to the Major (18)

Chem 2011K General Chemistry I (4)
Chem 2012K General Chemistry II (4)
Chem 2400 Organic Chemistry I (4)
Math 2212 Calculus of One Variable II (4)

* Phys 1111K and Phys 1112K can be substituted if approved by the Department of Chemistry.

Area G: Major Courses (30)

1. Major Requirements (25)
Chem 3100 Organic Chemistry Laboratory I (2)
Chem 3110 Organic Chemistry Laboratory II (2)
Chem 3410 Organic Chemistry II (4)
Chem 4000 Fundamentals of Chemical Analysis (3)
Chem 4010 Instrumental Methods I: Spectroscopy (3)
Chem 4020 Instrumental Methods II: Spectroscopy (3)
Chem 4110 Physical Chemistry I (3)
Chem 4120 Physical Chemistry II (3)
Chem 4160 Chemistry Laboratory IV A (2)
Chem 4190 Instrumental Methods III: Spectroscopy (3)
Chem 4191 Instrumental Methods IV: Spectroscopy (3)
Chem 4600 Biochemistry I (5)

2. Major Electives (5)
Recommended course:
Chem 4600 Biochemistry II (5)

American Chemical Society Certification

For American Chemical Society certification, add (10)

1. Required Courses (6)
Chem 4230 Advanced Synthesis (3)
Chem 4240 Inorganic Chemistry (3)

Business Administration, and Policy Studies. Students in specific programs should consult with an adviser in their program to verify applicability of the above-named courses to their specific needs. These courses cannot be applied to a science degree program in the College of Arts and Sciences.

B.S. in Chemistry

Areas A-E: Core Curriculum Recommendations

1. Required course:
Math 1113 Precalculus (or a higher level mathematics course) (3)

2. Recommended courses:
Chem 1211K Principles of Chemistry I (4)
Chem 1212K Principles of Chemistry II (4)

3. Required course:
Math 2211 Calculus of One Variable I (or a higher level mathematics course) (4)
* One credit hour will count in the second 60 hours beyond the core curriculum.

Area F: Courses Appropriate to the Major Field (18)

Chem 1211K General Chemistry I (4)
Chem 1212K General Chemistry II (4)
Phys 2211K Principles of Physics I (4)
Phys 2212K Principles of Physics II (4)
Chem 2010 Introduction to Quantitative Analysis (2)
Chem 2400 Organic Chemistry I (4)
Chem 2212 Calculus of One Variable II (4)

* Phys 1111K and Phys 1112K can be substituted if approved by the Department of Chemistry.
** Chem 1211K and 1212K must be taken here unless already taken in Area D. If already taken in Area D, then take Phys 2211K and 2212K. Both Chem 1211K/1212K and Phys 2211K/2212K are required for graduation.

Area G: Major Courses (30)

1. Major Requirements (25)
Chem 3100 Organic Chemistry Laboratory I (2)
Chem 3110 Organic Chemistry Laboratory II (2)
Chem 3410 Organic Chemistry II (4)
Chem 4000 Fundamentals of Chemical Analysis (3)
Chem 4010 Instrumental Methods I: Chromatography (3)
Chem 4110 Physical Chemistry I (3)
Chem 4120 Physical Chemistry II (3)
Chem 4160 Chemistry Laboratory IV A (2)
Chem 4190 Instrumental Methods III: Spectroscopy (3)
Chem 4191 Instrumental Methods IV: Spectroscopy (3)
Chem 4600 Biochemistry I (5)

2. Major Electives (5)
Recommended course:
Chem 4600 Biochemistry II (5)

Pre-Medicine Concentration

A pre-medicine concentration is available for chemistry majors. Please contact the Department of Chemistry for
2. Select additional elective courses (4)
   - Chem 4050, 4370, 4400, 4410, 4450, 4610, 4620, or other approved courses (must be different from courses chosen for "Major Electives")

Concentration in Pre-Medicine
A Pre-Medicine concentration is available in chemistry majors. The pre-medical or pre-professional student who completes Chem 3201K, 3205K, 3206, 3400, 3410, 3400, and 3510 will have earned the equivalent of 10 credit hours in general and qualitative analytical chemistry and 12 credit hours in organic chemistry. Please consult the Department of Chemistry for further information.

Minor and/or Additional Courses
1. Students majoring in chemistry are not required to take a minor. Consult the department for assistance in selecting a minor in biology, business, or related areas.

2. Students majoring in chemistry must take additional courses as electives to complete a minimum of 120 hours, exclusive of 1000/2000 physical education or military science courses. The department recommends that majors take computer and foreign language courses.

Area H: Minor and Additional Courses
1. Students majoring in chemistry are not required to take a minor. Consult the department for assistance in selecting a minor in biology, business, or related areas.

2. Students majoring in chemistry must take additional courses as electives to complete a minimum of 120 hours, exclusive of 1000/2000 physical education or military science courses. The department recommends that majors take computer and foreign language courses.

Minor in Chemistry
Students who wish to minor in chemistry must take 15-18 hours in courses in chemistry, including at least nine hours at the 3000 level or above. Students taking more than 15 hours in courses in chemistry may count the additional hours toward their major or may consider completing a double major. A grade of C or higher is required in all courses counting toward the minor.

American Chemical Society Certification
For American Chemical Society certification, add ten hours in addition to required course, Chem 4600, in Area G.
1. Required courses (6)
   - Chem 4210 Inorganic Chemistry (3)
   - Chem 4330 Advanced Synthesis (3)

2. Select additional elective courses. (4)
   - Chem 4050, 4170, 4370, 4400, 4410, 4450, 4590, 4610, 4620, 4840, or other approved courses (must be different from major elective choices)

Further Information
- The department encourages qualified students to participate in the Honors Program. For information on the Honors Program, consult the department.

Chemistry Assistance Laboratory
The Department of Chemistry maintains the Chemistry Assistance Laboratory for use by students enrolled in the department’s courses. The laboratory offers access to computer-assisted instruction for lower-division and several upper-division courses. Tutoring and a variety of study aids are also available.

Elementary Science Education Partners
Course 4920, BSEP, in the Department of Biology, Chemistry, Geology, and Physics and Astronomy, is designed for juniors or seniors who wish to apply their scientific expertise in a practical way by helping elementary school teachers with hands-on science activities. One or two credit hours may be earned in a given semester. Registration for the course must be approved by the BSEP local coordinator, Department of Geology, and the dean of the college. Forms for course 4920 must be completed at the time of regular registration for the semester in which the student is to be enrolled in 4920 and must be obtained from the local coordinator. Course 4920 may be repeated for a maximum of four credit hours.

Honors Program
The department encourages qualified students to participate in the Honors Program. For information on the Honors Program, consult the department.
about requirements or qualifications. Laboratory
courses and courses on principles are designed to
be equally reinforcing. The laboratory is the
real basis for the course, but the lecture courses
are designed to speed the learning process. The
two parts are separated only to provide added
flexibility in scheduling and to meet individual
needs, particularly for non-science students. Great
care should be exercised in scheduling one course
without the other.

Chemistry Courses for Non-Science
Majors

Chemistry 1010, 1101K-1102K, 1111K-1112K,
2030K, and 2930K are of primary interest to
students in liberal arts, health sciences, education,
business administration, and policy studies. Stu-
dents in specific programs should consult with an
counselor in their program to verify applicability of
the above named courses to their specific needs.
These courses cannot be applied to a science de-
gree program in the College of Arts and Sciences.
Department of Mathematics and Computer Science

3210 Computer Science
Programs Offered:
- Bachelor of Science in Computer Science
- Concentration in Computer Software Systems
- Concentration in Databases and Knowledge-based Systems
- Concentration in Graphics and Human-Computer Interaction
- Concentration in Hardware Systems
- Concentration in Networks and Parallel and Distributed Computing
- Concentration in Theoretical Computer Science

Minor in Computer Science

Department of Computer Science
Ste. 1450, 34 Peachtree Street Building
404/463-2888
http://www.cs.gsu.edu

Yi Pan, Chair
Anu Bourgeois, Director of Undergraduate Studies
Jaman Bhola, Undergraduate Adviser

Computer science is the systematic exploration of all aspects of computation. Computer science as a discipline seeks to build a scientific foundation for topics such as computer design, computer programming and software, information processing, algorithmic solutions to problems, and the algorithmic process itself. Computer science provides underpinnings for today’s applications in industry, science, government, and business and prepares the foundation for tomorrow’s applications in ubiquitous computing, medical cures for diseases, and instant access to information by everyone.

The B.S. degree program in computer science provides preparation in the fundamental principles and processes of computation and training in applying these principles in application areas in industry, science, government, and business. The student completes a basic group of required courses in the early stages and chooses courses from several concentrations in the later stages to provide for appropriate breadth and depth of knowledge in the discipline. In parallel, the student takes relevant courses in mathematics and physics that complement the study of computer science.

A B.S. degree in computer science provides a good foundation for advanced studies at the M.S. or Ph.D. level as well as for careers in industry, science, government, and business. To plan the major according to particular goals, students are encouraged to consult with an adviser in the department. Majors who are interested in having a paid work experience related to their area of study should contact the university’s Office of Cooperative Education, which coordinates the university’s cooperative education programs.

The courses are structured, and the department enforces the prerequisites for its courses. Students are urged to check and take the prerequisites for computer science courses and any computer science requirement as listed by their major department/school/institute. Refer any questions to that major department/school/institute or to the Department of Computer Science.
Program Academic Regulations

A minimum grade of C is required in all mathematics and computer science courses and all 3000-level or above courses that are used to fulfill the undergraduate programs of this department.

As part of the core curriculum, students must receive credit for the three calculus courses: Math 2211, Math 2212, and Math 2215. (When counting the number of semester hours in Areas A, D, and F, only 3 of the 4 credit hours of each calculus course will be counted in Area A and/or D. The fourth hour, or the "rollover hour," will be counted in Area F.)

Prerequisites and co-requisites are strictly enforced in all computer science courses. Students must maintain a 2.3 Georgia State University GPA to take Computer Science courses numbered 3000 or above.

Program Degree Requirements

In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

B.S. in Computer Science

Areas A-F: Core Curriculum Recommendations

1. **Required course:**
   - Math 1113: Precalculus (3) or higher level math course

2. **Required course:**
   - Math 2211: Calculus of One Variable I (4) (or a higher level mathematics course) (One credit hour counts in Area F.)
   - Phys 2211K: Principles of Physics I (4)
   - Phys 2212K: Principles of Physics II (4)

3. **Required Course(s):** Select the course(s) not taken in Area A or D. (13-17)
   - Math 2212: Calculus of One Variable II (4)
   - Math 2215: Multivariate Calculus (4)
   - CSc 2010: Introduction to Computer Science (3)
   - CSc 2310: Principles of Computer Programming (3)
   - CSc 2510: Theoretical Foundations of Computer Science (3)

4. **Select additional courses to complete 18 hours in Area F. (0-4)**

Area G: Major Requirements (60)

1. In addition to the courses placed in the core curriculum, such as Phys 2211K and 2212K, all computer science majors must complete the following courses. (13)
   - Math 3030: Mathematical Models for Computer Science (3)
   - one mathematics course selected from the following list for three (3) hours: Math 4211, Math 4460, Math 4455, Math 4610, Math 4620, Math 4751
   - Phys 3401: Modern Physics I (4) or Phys 4700: Electricity and Magnetism (4) or select one of the following pairs of course and lab combinations:

   a. Math 3030, Math 3460; 
   b. Phys 3030, Phys 3460; 
   c. Math 3030, Phys 3460; 
   d. Phys 3401 Modern Physics I (4) or Phys 4700 Electricity and Magnetism (4) or select one of the following pairs of course and lab combinations:
1. Required Courses: Select the courses not taken in Areas A or D.
   - Math 2212: Calculus of One Variable II (4)
   - Math 2213: Multivariable Calculus (5)

2. Select additional courses to complete 18 hours in Area B.
   - CSc 2211: Principles of Programming II (3)
   - CSc 3210: Computer Organization and Programming (3)
   - CSc 3310: Theory of Computation (3)
   - CSc 3410: Computer Architecture (3)
   - CSc 3420: Programming Language Concepts (3)
   - CSc 3450: Software Engineering (3)
   - CSc 3470: Database Systems (3)
   - CSc 3480: Artificial Intelligence (3)
   - CSc 3490: Computer Graphics (3)
   - CSc 3510: System Simulation (3)

3. For a total of sixteen (16) hours, select two or three courses from within one of the following concentrations and exactly two additional courses from among the courses in the other concentrations.

   **Computer Software Systems Concentration**
   - CSc 3320: System-Level Programming (3)
   - CSc 3410: Introduction to Embedded Systems Laboratory (4)
   - CSc 3420: Operating Systems (4)
   - CSc 3430: Introduction to Compilers (4)
   - CSc 3470: Web Programming (4)
   - CSc 3480: Windowing Programs (4)
   - CSc 4540: Introduction to Bioinformatics Algorithms (4)
   - CSc 4640: Fundamentals of Bioinformatics (4)
   - CSc 4830: System Simulation (4)

   **Databases and Knowledge-based Systems Concentration**
   - CSc 3320: System-Level Programming (3)
   - CSc 4260: Digital Image Processing (4)
   - CSc 4310: Parallel and Distributed Computing (4)
   - CSc 4360: Network-Oriented Software Development (4)
   - CSc 4370: Web Programming (4)
   - CSc 4540: Introduction to Bioinformatics Algorithms (4)
   - CSc 4640: Fundamentals of Bioinformatics (4)
   - CSc 4710: Database Systems (4)
   - CSc 4810: Artificial Intelligence (4)

   and other 4000-level courses approved by the department.

4. Select four from the courses below, and those not taken in area 3 above (8)
   - CSc 4210: Introduction to Parallel Programming (3)
   - CSc 4220: Operating Systems (3)

5. Select four from the courses above, and those not taken in area 3 above (8)
   - CSc 4320: Operating Systems (4)
   - CSc 4340: Introduction to Compilers (4)
   - CSc 4370: Web Programming (4)
   - CSc 4540: Introduction to Bioinformatics Algorithms (4)
   - CSc 4640: Fundamentals of Bioinformatics (4)
   - CSc 4830: System Simulation (4)

   and other 4000-level courses approved by the department.

**Computer Science Requirements (25)**

**Additional Courses (12)**

Select from additional courses as electives (12)

**Minor and/or Additional Courses**

1. Students seeking a B.A. or B.S. in the Department of Mathematics and Computer Science must complete a minor.

**Graphics and Human-Computer Interaction Concentration**

**Database and Knowledge-based Systems Concentration**

**Computer Software Systems Concentration**

**Math 2420 and Math 2115 are prerequisites for Math 3030. Phys 2212K is a prerequisite for Phys 3500. A note for computer science majors transferring to Georgia State University: Board of Regents’ rules may have required Georgia State University to award credit for Math 2420, Math 2215, and/or Phys 2212K even though a student did not take this course at the sending institution. Math 3030 and Phys 3500 are demanding courses, and the Department of Computer Science believes that there is almost no chance of passing them if the student has not taken the proper prerequisites. Transfer students are strongly advised to take all prerequisites.**

2. **Computer Science Requirements (25)**
   - CSc 3320: Principles of Computer Programming II (3)
   - CSc 3410: Computer Organization and Programming (3)
   - CSc 3420: Computer Architecture (4)
   - CSc 4330: Programming Language Concepts (4)
   - CSc 4350: Software Engineering (4)
   - CSc 4520: Design and Analysis of Algorithms (4)

3. For a total of sixteen (16) hours, select two or three courses from within one of the following concentrations and exactly two additional courses from among the courses in the other concentrations.

4. Select four from the courses below, and those not taken in area 3 above (8)
   - CSc 4210: Introduction to Parallel Programming (3)
   - CSc 4220: Operating Systems (3)

5. Select four from the courses above, and those not taken in area 3 above (8)
   - CSc 4320: Operating Systems (4)
   - CSc 4340: Introduction to Compilers (4)
   - CSc 4370: Web Programming (4)
   - CSc 4540: Introduction to Bioinformatics Algorithms (4)
   - CSc 4640: Fundamentals of Bioinformatics (4)
   - CSc 4830: System Simulation (4)

   and other 4000-level courses approved by the department.
### Minor Offerings

Students choosing to minor in computer science should complete CSci 2512 and 3410 and 9 hours of additional computer science courses at the 3000 level or above. Students should discuss prerequisites carefully before enrolling in courses at the 3000 level and above. Consultation with an advisor in computer science is recommended. Students majoring in mathematics may not complete CSci 4610 or 4620 in the minor.

Students choosing to minor in mathematics should complete Math 2212 and 2215 and 9 hours of additional mathematics courses at the 3000 level or above. Students are urged to consult with members of the Department of Mathematics and Computer Science to determine which courses would be most useful in their major field.

### Residency Requirement

Degree candidates must earn 39 semester hours at Georgia State University in courses at the 3000 level or above with an average grade of "C" or better. At least one half of the courses comprising the major, or 11 semester hours in the major, whichever is less, must be taken at Georgia State University.

### Honors Program

The department encourages qualified students to participate in the Honors Program. (See "Honors Program," previously described.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CSci 4260</td>
<td>Digital Image Processing (4)</td>
</tr>
<tr>
<td>CSci 4370</td>
<td>Web Programming (4)</td>
</tr>
<tr>
<td>CSci 4380</td>
<td>Windowing Systems Programming (4)</td>
</tr>
<tr>
<td>CSci 4720</td>
<td>Human-Computer Interaction (4)</td>
</tr>
<tr>
<td>CSci 4730</td>
<td>Scientific Visualization (4)</td>
</tr>
<tr>
<td>CSci 4820</td>
<td>Computer Graphics Algorithms (4)</td>
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<tr>
<td>CSci 4840</td>
<td>Computer Graphics Imaging (3)</td>
</tr>
<tr>
<td>CSci 4841</td>
<td>Computer Animation (3)</td>
</tr>
<tr>
<td>and other 4000-level courses approved by the Department</td>
<td></td>
</tr>
</tbody>
</table>

### Hardware Systems Concentration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSci 3610</td>
<td>Introduction to Matlab Programming (3)</td>
</tr>
<tr>
<td>CSci 4110</td>
<td>Introduction to Embedded Systems Laboratory (4)</td>
</tr>
<tr>
<td>CSci 4220</td>
<td>Computer Networks (4)</td>
</tr>
<tr>
<td>CSci 4221</td>
<td>Wireless Networks and Mobile Computing (4)</td>
</tr>
<tr>
<td>CSci 4225</td>
<td>Internetwork Programming (4)</td>
</tr>
<tr>
<td>CSci 4230</td>
<td>VLSI Design (4)</td>
</tr>
<tr>
<td>CSci 4250</td>
<td>VLSI CAD and Computer Architecture Laboratory (4)</td>
</tr>
<tr>
<td>CSci 4270</td>
<td>Introduction to Digital Signal Processing (4)</td>
</tr>
<tr>
<td>CSci 4310</td>
<td>Parallel and Distributed Computing (4)</td>
</tr>
<tr>
<td>and other 4000-level courses approved by the Department</td>
<td></td>
</tr>
</tbody>
</table>

### Networks and Parallel and Distributed Computing Concentration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSci 3320</td>
<td>System-Level Programming (3)</td>
</tr>
<tr>
<td>CSci 3610</td>
<td>Introduction to Matlab Programming (3)</td>
</tr>
<tr>
<td>CSci 4220</td>
<td>Computer Networks (4)</td>
</tr>
<tr>
<td>CSci 4221</td>
<td>Wireless Networks and Mobile Computing (4)</td>
</tr>
<tr>
<td>CSci 4225</td>
<td>Internetwork Programming (4)</td>
</tr>
<tr>
<td>CSci 4270</td>
<td>Introduction to Digital Signal Processing (4)</td>
</tr>
<tr>
<td>CSci 4310</td>
<td>Parallel and Distributed Computing (4)</td>
</tr>
<tr>
<td>CSci 4320</td>
<td>Operating Systems (4)</td>
</tr>
<tr>
<td>CSci 4360</td>
<td>Network-Oriented Software Development (4)</td>
</tr>
<tr>
<td>CSci 4830</td>
<td>System Simulation (4)</td>
</tr>
<tr>
<td>and other 4000-level courses approved by the Department</td>
<td></td>
</tr>
</tbody>
</table>

### Theoretical Computer Science Concentration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CSci 4310</td>
<td>Parallel and Distributed Computing (4)</td>
</tr>
<tr>
<td>CSci 4340</td>
<td>Introduction to Compilers (4)</td>
</tr>
<tr>
<td>CSci 4510</td>
<td>Automata (4)</td>
</tr>
<tr>
<td>CSci 4620</td>
<td>Numerical Analysis II (3) if not taken as Math 4620 in item 1.b above and other 4000-level courses approved by the Department</td>
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</table>

4. Select 6 hours in additional courses as electives. (6)
<table>
<thead>
<tr>
<th>Minor in Computer Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students choosing to minor in computer science should complete CSc 2311 and 3410 and nine hours of additional computer science courses at the 3000 level or above. Students should check prerequisites carefully before enrolling in courses at the 3000 level and above. Consultation with an adviser in computer science is recommended. Students majoring in mathematics may not include CSc 4610 or 4620 in the minor.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area H: Minor and Additional Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Students earning a B.S. in the Department of Computer Science are not required to complete a minor.</td>
</tr>
<tr>
<td>2. Additional courses must be taken as electives to complete a minimum of 120 semester hours, exclusive of 1000/2000 physical education, health, or military science courses.</td>
</tr>
</tbody>
</table>

3000 or above level computer science courses or others approved by the department.
General Catalog 1998-1999

Programs Offered:

Bachelor of Arts in English

Concentration in Advanced Composition and Rhetoric
Concentration in Creative Writing
Concentration in Literature

Concentration in Pre-Education/Secondary English

British-American Joint Studies Program Concentration

Minor in English

Minor in Folklore

Catalog 2007-2008

Department of English

923 General Classroom Building
404/651-2900
http://www.gsu.edu/english

Matthew Roudané, Chair
Randy Malamud, Associate Chair
Audrey Goodman, Director of Undergraduate Studies
Marti Singer, Director of Lower Division Studies
John Holman, Director of Creative Writing

Department of English is concerned with the study of language and literature and with the craft of writing considered integral to education since ancient times. Although the department concentrates on texts written in English by authors from Great Britain, Ireland, and the United States, it also examines translations of texts from other languages as well as newly emerging literatures in English from other cultural perspectives. Students may also encounter practices that are not, strictly speaking, “writing” at all, such as oral compositions, hypertexts, and folk art.

At the freshmen level, all students in the university take courses in the fundamentals of college-level writing and in the reasoned analysis of texts. Other English courses that form part of the core curriculum provide students with opportunities to study topics in world literature or surveys of British, American, and World literature.

English majors may concentrate in one of four areas: literature, advanced composition and rhetoric, creative writing, and secondary English (pre-education). Before choosing their concentrations, all English majors have the opportunity at the sophomore level to gain a broad foundation in English and American literature and studies in literature or rhetoric. Then, with the help of their advisers, majors choose upper-division courses, which allow them to pursue their interests in more depth. Finally, students study within their chosen concentrations in seminars designed as capstones for the major.

In addition, the department’s joint studies program with the University of Northumbria in Newcastle, England, offers Georgia State University English and history majors the opportunity to complete their degrees with a concentration in British and American Cultures. On successfully completing their studies, English majors will have acquired a sensitivity to the written word and an appreciation for the creative process. They will have developed their skills in organization, writing, and interpretation. English courses offer students the opportunity to discover their own insights and to articulate them with precision.

Majors who concentrate in literature take a range of courses that afford them opportunities to read poetry, prose, and drama from...
All students in the university take courses in the fundamentals of college-level writing and in the research and analysis of texts at the freshman level. Other English courses that form part of the core curriculum provide students with opportunities to study topics in world literature or survey of British and American literature.

English majors may concentrate in one of four areas: literature, advanced composition and rhetoric, creative writing, and secondary English. Before choosing their concentrations, all students have the opportunity to gain a broad foundation in English and American literature at the sophomore level. Then, with the help of their advisors, majors choose upper-division courses that allow them to pursue their interests in more depth. Finally, students can engage in advanced study within their chosen concentrations in seminars designed as capstone courses for the majors.

Courses in folklore may include such topics as the evolution of oral traditions and the relationship of folklore to the history of the English language. Other courses in folklore might explore the impact of folklore on literature and other aspects of English culture. Folklore courses may also include fieldwork and research techniques.

The Department of English offers courses in the related field of folklore. Georgia State University is the only institution in the state offering a wide selection of folklore courses.

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A number of courses in the Department of English have an interdisciplinary approach, and several are cross listed within the university, such as the Department of African-American Studies and the Women's Studies Institute.

Because of the dynamic and varied nature of our discipline, many of the courses offered (especially on the 4000 level) focus on specific topics not indicated in detail here. Students should inquire in the department office for further information about courses.

**Program Degree Requirements**

All English majors planning to take any upper-division literature courses must fulfill the appropriate three prerequisite courses with a grade of C or higher. All English minors who plan to take British Literature courses must have completed Engl 2120 with a grade of C or higher and all English minors planning to take American literature courses must have completed Engl 2130 with a grade of C or higher.

The department requires a minimum of 27 semester hours in upper-division English, with no more than 11 being transferred credits. The College of Arts and Sciences requires that students pass all upper-division courses in their majors with a grade of C or better. In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

**B.A. in English**

**Area F: Courses Appropriate to the Major Field (18)**

1. **Foreign Language (6)**
   - Lang 2001 Intermediate World Language I (3)
   - Lang 2002 Intermediate World Language II (3)

2. **Required Courses (9)**
   - Engl 2120 British Literature (3)
   - Engl 2130 American Literature (3)

3. Select one from the following:
   - Engl 2140 Introduction to Literary Studies (3)
   - Engl 2150 Introduction to Rhetoric and Advanced Composition (3)

**Area G: Major Courses (27)**

A grade of C or higher is required in all major courses. The English major requires nine upper-division courses (27 semester hours) distributed as described below. The same course may not be used to satisfy more than one of the listed requirements. Each of the four concentrations within the major has specific requirements as outlined here.

All literature courses seek to promote students' verbal acuity and abilities at thoughtful evaluation. Closely related to the study of literature is the department's creative writing program. Faculty in this program guide students as they practice and refine their work in the genres of poetry and fiction.

Students who concentrate in advanced composition and rhetoric learn about the history, theory, and practice of writing to specific audiences for particular purposes. In this concentration, students may focus on either historical rhetoric and the teaching of composition or writing within business and technical environments. Courses in this area allow students to explore the history and theory of writing as they apply to the teaching of composition and to writing practices in the workplace.

English majors who wish to teach English in secondary schools combine studies of literature, language, and composition with a senior seminar that combines these areas with pedagogy.

The Department of English offers courses in the related field of folklore. Georgia State University is the only institution in the state offering a wide selection of folklore courses.

A number of courses in the Department of English have an interdisciplinary approach, and several are cross listed within the university, such as the Department of African-American Studies and the Women's Studies Institute.

Because of the dynamic and varied nature of our discipline, many of the courses offered (especially on the 4000 level) focus on specific topics not indicated in detail here. Students should inquire in the department office for further information about courses.

**Program Degree Requirements**

All English majors planning to take any upper-division literature courses must fulfill the appropriate three prerequisite courses with a grade of C or higher. All English minors who plan to take British Literature courses must have completed Engl 2120 with a grade of C or higher and all English minors planning to take American literature courses must have completed Engl 2130 with a grade of C or higher.

The department requires a minimum of 27 semester hours in upper-division English, with no more than 11 being transferred credits. The College of Arts and Sciences requires that students pass all upper-division courses in their majors with a grade of C or higher. In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

**Area F: Courses Appropriate to the Major Field (18)**

1. **Foreign Language (6)**
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   - Engl 2120 British Literature (3)
   - Engl 2130 American Literature (3)

3. Select one from the following:
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   - Engl 2150 Introduction to Rhetoric and Advanced Composition (3)

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A grade of C or higher is required in all major courses. The English major requires nine upper-division courses (27 semester hours) distributed as described below. The same course may not be used to satisfy more than one of the listed requirements. Each of the four concentrations within the major has specific requirements as outlined here.
Advanced Composition and Rhetoric Concentration

1. Select one course from areas 1, 2, or 3 as listed for the literature concentration. (3)
2. Select one course from area 4 as listed for the literature concentration. (3)
3. Select one course from area 5 as listed for the literature concentration. (3)
4. Select one course. (3)

- Engl 3080 History, Theory, and Practice of Argumentative Writing (3)
- Engl 3090 History, Theory, and Practice of Expository Writing (3)
- Engl 3100 Twentieth-Century Composition Theory and Practice (3)

5. Select one course. (3)

- Engl 3110 Technical Writing (3)
- Engl 3115 Document Design (3)
- Engl 3120 Electronic Writing and Publishing (3)
- Engl 3130 Business Writing (3)
- Engl 3135 Visual Rhetoric (3)

6. Select two electives chosen from Advanced Composition and Rhetoric courses not already taken. (6)

- Engl 3080 History, Theory, and Practice of Argumentative Writing (3)
- Engl 3090 History, Theory, and Practice of Expository Writing (3)
- Engl 3100 Twentieth-Century Composition Theory and Practice (3)
- Engl 3105 Practical Grammar (3)
- Engl 3110 Technical Writing (3)
- Engl 3115 Document Design (3)
- Engl 3120 Electronic Writing and Publishing (3)
- Engl 3130 Business Writing (3)
- Engl 3135 Visual Rhetoric (3)
- Engl 3140 Editing (3)
- Engl 4200 Topics* (3)
- Engl 4500 Internship (3)
- Engl 4510 Grant and Proposal Writing (3)
- Engl 4520 Feminism and Technology (3)

7. Select an elective from 3000 or 4000-level English or Folklore courses (may be selected from Creative Writing courses). (3)
8. Engl 4320 Senior Seminar: Advanced Composition and Rhetoric (3)

* This course varies in subject matter; students must receive written permission from their departmental advisers to apply one of these courses to a specific area.

Creative Writing Concentration

1. Select one course from area 1 or 3 as listed for the literature concentration. (3)
2. Select one course from area 2 as listed for the literature concentration. (3)
3. Select one course. (3)

- Engl 3700 English Literature: 1900-1945 (3)
- Engl 3710 English Literature: 1945-Present (3)
- Engl 3720 Twentieth-Century English Poetry (3)
- Engl 3830 American Literature: 1914-1945 (3)
- Engl 3840 American Literature: 1945-Present (3)
Literature Concentration

1. British Literature I: Select two courses, including one in a single writer. (6)
   Engl 3800 English Drama (3)*
   Engl 3800 Medieval English Literature (3)
   Engl 3800 English Renaissance Literature I (3)
   Engl 3800 English Renaissance Literature II (3)
   Engl 3800 Women’s Literature I (3)*
   Engl 4400 Study of a Single Author (3)
   Engl 4410 Chaucer (3)
   Engl 4420 Spenser (3)
   Engl 4430 Shakespeare I (3)
   Engl 4440 Shakespeare II (3)
   Engl 4450 Milton (3)
   Engl 4460 Topos (3)*

2. British Literature II: Select one course. (3)
   Engl 3820 English Drama (3)*
   Engl 3820 English Fiction (3)*
   Engl 3820 Restoration and Earlier Eighteenth-Century English Literature (3)
   Engl 3820 Later Eighteenth-Century English Literature (3)
   Engl 3820 English Romantic Poetry (3)
   Engl 3820 English Victorian Poetry (3)
   Engl 3820 Nineteenth-Century English Nonfiction, Prose (3)
   Engl 3840 Women’s Literature II (3)*
   Engl 4400 Study of a Single Author (3)
   Engl 4420 Topos (3)*

3. American Literature: Select one course. (3)
   Engl 3880 Early American Literature (3)
   Engl 3810 American Literature: 1520-1645 (3)
   Engl 3820 American Literature: 1665-1714 (3)
   Engl 3850 American Poetry (3)*
   Engl 3870 American Fiction (3)*
   Engl 3860 American Nonfiction, Prose (3)*
   Engl 3890 Women’s Literature III (3)*
   Engl 4400 Study of a Single Author (3)
   Engl 4420 Topos (3)*

4. Literature Elective: Select two courses. (6)
   Engl 3880 Contemporary Poetry or Fiction (3)
   Engl 3880 English Drama (3)*
   Engl 3880 English Fiction (3)*
   Engl 3880 English Literature: 1900-1945 (3)
   Engl 3880 English Literature: 1945-Present (3)
   Engl 3880 Twentieth-Century English Poetry (3)
   Engl 3880 American Literature: 1914-1945 (3)
   Engl 3880 American Literature: 1945-Present (3)
   Engl 3880 American Poetry (3)*
   Engl 3880 American Fiction (3)*
   Engl 3880 American Nonfiction, Prose (3)*
   Engl 3890 Irish Literature (3)
   Engl 3910 The Tradition of Children’s Literature (3)
   Engl 3920 Southern Literature (3)
   Engl 3930 Modern Drama (3)

   Engl 3850 American Poetry (3)*
   Engl 3860 American Drama (3)
   Engl 3870 American Fiction (3)*
   Engl 3850 Restoration and Earlier Eighteenth-Century English Literature (3)
   Engl 3850 Later Eighteenth-Century English Literature (3)
   Engl 3860 Early British Romantic Literature (3)
   Engl 3860 Victorian Poetry and Nineteenth-Century Non-Fiction (3)
   Engl 3870 English Literature: 1900-1945 (3)

5. Select one course. (3)
   Engl 3150A Introduction to Creative Writing: Poetry (3)
   Engl 3150B Introduction to Creative Writing: Fiction (3)

6. Select one course. (3)
   Engl 3160 Narrative Techniques (3)
   Engl 3170 Poetic Techniques (3)

7. Select two elective courses in English or Folklore. (6)

8. Select one course. (3)
   Engl 4310A Senior Seminar: Workshop in Poetry (3)
   Engl 4310B Senior Seminar: Workshop in Fiction (3)

* This course varies in subject matter; students must receive written permission from their departmental advisers to apply one of these courses to a specific area.

Literature Concentration

1. British Literature I: Select two courses, including one in a single writer. (6)
   Engl 3280 English Drama (3)*
   Engl 3300 Medieval English Literature (3)
   Engl 3400 Sixteenth-Century English Literature (3)
   Engl 3410 Early and Middle Seventeenth-Century English Literature (3)
   Engl 3980 Women’s Literature I (3)*
   Engl 4110 Chaucer (3)
   Engl 4120 Spenser (3)
   Engl 4130 Shakespeare, Earlier Works (3)
   Engl 4140 Shakespeare, Later Works (3)
   Engl 4150 Milton (3)
   Engl 4200 Topics (3)*

2. British Literature II: Select one course. (3)
   Engl 3280 English Drama (3)*
   Engl 3290 English Fiction (3)*
   Engl 3500 Restoration and Earlier Eighteenth-Century English Literature (3)
   Engl 3510 Later Eighteenth-Century English Literature (3)
   Engl 3600 Early British Romantic Literature (3)
   Engl 3610 Victorian Poetry and Nineteenth-Century Non-Fiction (3)
   Engl 3700 English Literature: 1900-1945 (3)
   Engl 3710 English Literature: 1945-Present (3)
### English 3720: Twentieth-Century English Poetry (3)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Engl 3920</td>
<td>Women’s Literature I (3)*</td>
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<tr>
<td>Engl 4100</td>
<td>Study of a Single Author (3)</td>
<td></td>
</tr>
<tr>
<td>Engl 4200</td>
<td>Topics (3)*</td>
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</tbody>
</table>

3. **American Literature: Select one course.**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
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<tbody>
<tr>
<td>Engl 3800</td>
<td>Early American Literature (3)</td>
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</tr>
<tr>
<td>Engl 3810</td>
<td>American Literature: 1820-1865 (3)</td>
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<tr>
<td>Engl 3820</td>
<td>American Literature: 1865-1914 (3)</td>
<td></td>
</tr>
<tr>
<td>Engl 3850</td>
<td>American Poetry (3)*</td>
<td></td>
</tr>
<tr>
<td>Engl 3860</td>
<td>American Fiction (3)*</td>
<td></td>
</tr>
<tr>
<td>Engl 3880</td>
<td>American Non-Fiction Prose (3)*</td>
<td></td>
</tr>
<tr>
<td>Engl 3900</td>
<td>Women’s Literature II (3)*</td>
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</tr>
<tr>
<td>Engl 4100</td>
<td>Study of a Single Author (3)</td>
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</tr>
<tr>
<td>Engl 4200</td>
<td>Topics (3)*</td>
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</table>

4. **Language, Criticism, and Theory Elective: Select one course.**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Engl 3140</td>
<td>Practical Grammar</td>
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<tr>
<td>Engl 3180</td>
<td>Introduction to Creativity Writing: Poetry (3)</td>
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</tr>
<tr>
<td>Engl 3190</td>
<td>Introduction to Creativity Writing: Fiction (3)</td>
<td></td>
</tr>
</tbody>
</table>

5. **Creative Writing Concentration**

- Select one course from area 1 or 2 as listed above for literature concentration. (3)
- Select one course from area 2 as listed above for literature concentration. (3)

6. **Literature Electives: Select two courses.**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engl 3180A</td>
<td>Contemporary Poetry (3)</td>
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</tr>
<tr>
<td>Engl 3180B</td>
<td>Contemporary Fiction Craft (3)</td>
<td></td>
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<tr>
<td>Engl 3280</td>
<td>English Drama (3)*</td>
<td></td>
</tr>
<tr>
<td>Engl 3290</td>
<td>English Fiction (3)*</td>
<td></td>
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<tr>
<td>Engl 3700</td>
<td>English Language: 1900-1945 (3)</td>
<td></td>
</tr>
<tr>
<td>Engl 3710</td>
<td>English Language: 1945-Present (3)</td>
<td></td>
</tr>
<tr>
<td>Engl 3830</td>
<td>American Literature: 1914-1945 (3)</td>
<td></td>
</tr>
<tr>
<td>Engl 3840</td>
<td>American Literature: 1945-Present (3)</td>
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<tr>
<td>Engl 3850</td>
<td>American Poetry (3)*</td>
<td></td>
</tr>
<tr>
<td>Engl 3860</td>
<td>American Fiction (3)*</td>
<td></td>
</tr>
<tr>
<td>Engl 3880</td>
<td>American Non-Fiction Prose (3)*</td>
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<tr>
<td>Engl 3890</td>
<td>Contemporary American Ethnic Literatures (3)</td>
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<tr>
<td>Engl 3900</td>
<td>Irish Literature (3)</td>
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<tr>
<td>Engl 3910</td>
<td>The Tradition of Children’s and Young Adults’ Literature (3)</td>
<td></td>
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</tbody>
</table>
### Advanced Composition and Rhetoric Concentration

1. Select one course from area 1, 2, or 3 as listed above for literature concentration. (3)
2. Select one course from area 5 as listed above for literature concentration. (3)
3. Select one course from area 4 as listed above for literature concentration. (3)

### Secondary English Concentration

#### 1. General Core (9)
- EFSP 2010: Introduction to Educational Issues (3)
- ETV 2009: Learning, Human Development, Health, and Safety (3)
- EDC 2010: Exceptional Children and Adolescents (3)

#### 2. British Literature: Select one course. (3)
- Engl 3280: English Drama (3)*
- Engl 3290: English Fiction (3)*
- Engl 3300: Medieval English Literature (3)
- Engl 3310: English Renaissance Literature (3)*
- Engl 3320: English Romantic Literature (3)*
- Engl 3330: English Modernism and Postmodernism (3)*
- Engl 3340: English Contemporary Literature (3)*
- Engl 3350: English Twentieth-Century Poetry (3)*
- Engl 3360: English Twentieth-Century Fiction (3)*
- Engl 3370: English Language in the African-American Community (3)
- Engl 3380: English Feminist Literary Criticism (3)
- Engl 4200: Topics (3)*

#### 3. American Literature: Select one course. (3)
- Engl 3390: Early American Literature (3)
- Engl 3400: American Literature: 1820-1865 (3)
- Engl 3410: American Literature: 1865-1914 (3)
- Engl 3420: American Literature: 1914-1945 (3)
- Engl 3430: American Literature: 1945-Present (3)
- Engl 3440: American Poetry (3)*
- Engl 3450: American Drama (3)*
- Engl 3460: American Fiction (3)*
- Engl 3470: American Non-Fiction Prose (3)*
- Engl 4200: Topics (3)*

#### 4. Single Author: Select one course; Engl 4130 or 4140 recommended. (3)
- Engl 3480: Shakespeare, Earlier Works (3)
- Engl 3490: Shakespeare, Later Works (3)
- Engl 3500: Milton (3)

### Secondary English (Pre-Education) Concentration

#### 1. British Literature: Select one course. (3)
- Engl 3280: English Drama (3)*
- Engl 3290: English Fiction (3)*
- Engl 3300: Medieval English Literature (3)
- Engl 3310: Sixteenth-Century English Literature (3)
- Engl 3320: Early and Middle Seventeenth-Century English Literature (3)
- Engl 3330: Restoration and Earlier Eighteenth-Century English Literature (3)
- Engl 3340: Later Eighteenth-Century English Literature (3)
- Engl 3350: Victorian Poetry and Nineteenth-Century Non-Fiction (3)
- Engl 3360: English Literature: 1900-1945 (3)
- Engl 3370: English Literature: 1945-Present (3)
- Engl 3380: Women’s Literature I (3)
- Engl 4200: Topics (3)*

#### 2. American Literature: Select one course. (3)
- Engl 3390: Early American Literature (3)
- Engl 3400: American Literature: 1820-1865 (3)
- Engl 3410: American Literature: 1865-1914 (3)
- Engl 3420: American Literature: 1914-1945 (3)
- Engl 3430: American Literature: 1945-Present (3)
- Engl 3440: American Poetry (3)*
- Engl 3450: American Drama (3)*
- Engl 3460: American Fiction (3)*
- Engl 3470: American Non-Fiction Prose (3)*
- Engl 4200: Topics (3)*

#### 3. Single Author: Select one course; Engl 4130 or 4140 recommended. (3)
- Engl 3480: Shakespeare, Earlier Works (3)
- Engl 3490: Shakespeare, Later Works (3)
- Engl 3500: Milton (3)
4. Multicultural/Genre Literature: Select one course. (3)
   Engl 3890             Contemporary American Ethnic Literatures (3)
   Engl 3900             Irish Literature (3)
   Engl 3910             The Tradition of Children’s and Young Adults’ Literature (3)
   Engl 3920             Southern Literature (3)
   Engl 3930             Postcolonial Literature (3)
   Engl 3940             Modern Drama (3)
   Engl 3950             African-American Literature (3)
   Engl 3960             African-American Literature by Women (3)
   Engl 3970             Caribbean Literature (3)
   Engl 3980             Women’s Literature II (3)
   Engl 4000             Jewish Literature (3)
   Engl 4200             Topics (3)*

5. Language: Select one course. (3)
   Engl 3105             Practical Grammar (3)
   Engl 3190             Language Analysis for Teachers of English (3)
   Engl 3200             Introduction to the English Language (3)
   Engl 3210             Advanced Grammar (3)
   Engl 3220             History of the English Language (3)
   Engl 3955             Language in the African-American Community (3)
   Engl 3956             Language in the Caribbean Community (3)

6. Writing: Select one course; Engl 3100 recommended. (3)
   Engl 3080             History, Theory, and Practice of Argumentative Writing (3)
   Engl 3090             History, Theory, and Practice of Expository Writing (3)
   Engl 4100             Senior Seminar: Literary Studies (3)

7. Select two elective courses in English or Folklore. (6)

8. Elective courses.
   Engl 3100             Twentieth-Century Composition Theory and Practice


Students should consult the department for specific information about which courses offered in each two-year sequence will fit the requirements for each concentration.

Minor and/or Additional Courses

English majors have three options: a minor, a double major, or additional courses in the major. One of these options, in consultation with the adviser, shall complete their degree requirements. Each student should discuss these options with a departmental adviser and choose the one that will best meet the student’s learning goals.

4. Multicultural/Genre Literature: Select one course. (3)
   Engl 3890 Contemporary American Ethnic Literatures (3)
   Engl 3900 Irish Literature (3)
   Engl 3910 The Tradition of Children’s and Young Adults’ Literature (3)
   Engl 3920 Southern Literature (3)
   Engl 3930 Modern Drama (3)
   Engl 3940 Postcolonial Literature (3)
   Engl 3950 African-American Literature (3)
   Engl 3960 African-American Literature by Women (3)
   Engl 3970 Caribbean Literature (3)
   Engl 3980 Women’s Literature II (3)
   Engl 4000 Jewish Literature (3)
   Engl 4200 Topics (3)*

5. Language: Select one course. (3)
   Engl 3105 Practical Grammar (3)
   Engl 3190 Language Analysis for Teachers of English (3)
   Engl 3200 Introduction to the English Language (3)
   Engl 3210 Advanced Grammar (3)
   Engl 3220 History of the English Language (3)
   Engl 3955 Language in the African-American Community (3)

6. Writing: Select one course; Engl 3100 recommended (3)
   Engl 3080 History, Theory, and Practice of Argumentative Writing (3)
   Engl 3090 History, Theory, and Practice of Expository Writing (3)
   Engl 3100 Twentieth Century Composition Theory and Practice (3)
   Engl 3150 A-B Introduction to Creative Writing (3)

7. Select two elective courses in English or Folklore; Engl 3100, if not already taken, is recommended. (6)

8. Engl 4330 Senior Seminar; Secondary English Education (3)

9. Further coursework (9 hrs) in the major is often recommended, but not required for this concentration: recommended are one additional course from Area 4 (Multicultural/Genre); one additional course from Area 5 (Language); and English 3100, or, if already taken, one additional course from Area 6 (Writing).

* This course varies in subject matter; students must receive written permission from their departmental advisers to apply one of these courses to a specific area.

Additional courses for the Secondary English concentration. These are not required, but are recommended for elective credit: EXC 4020 Characteristics and Instructional Strategies for Students with Disabilities (3)

English majors with the secondary English (pre-education) concentration are encouraged to apply to the College of Education Master of Education Alternative Preparation Program (TEEMS) for certification preparation. The Alternative Preparation Program has a master’s degree track of four semesters begun in the summer term and a three-semester certification track also begun in the summer and completed in the spring. Hours earned in the certification track can be applied later toward the completion of the master’s degree.

Students should consult the department for specific information about which courses offered in each two-year sequence will fit the requirements for each concentration.
1. Minor: at least 15-18 semester hours, 12 hours of which must be taken at the 3000 level or above, from one department, school, or institute other than the English Department, or in Folklore. The requirements for a minor must be fulfilled in a department, school, or institute that offers a baccalaureate degree. Students interested in an interdisciplinary minor should consult their advisers. English majors concentrating in secondary English must minor in education and follow the specified course guidelines. The College of Arts and Sciences requires a grade of "C" or better in each course counted toward the minor.

2. Double major: coursework to satisfy requirements for a second major in addition to English, all college and departmental requirements apply to this as to the first major.

3. Further coursework is the major; three courses (9 hours) beyond the minor course (27 hours) required for the major.

4. Additional courses from departments' syllabi, or institutes other than the major must be taken to complete a minimum of 180 hours, excluding of 180-200 level physical education. One of these courses must be fair, Lang, 2002 (see Major Courses above).

**Minor Offerings**

Students who minor in English or Folklore must complete at least 15-18 hours of coursework in English or Folklore, excluding 12 hours at the 3000 level or above and any prerequisites required; students taking more than 15 hours in courses in English may count the additional hours toward their electives or may consider completing a double major (a grade of "C" or better is required in all courses counted toward the minor).  

**Residency Requirement**

A minimum of 35 semester hours is earned at the 3000 level and above must be completed in residence at Georgia State University with an average grade of "C" or better.

**Assessment**

In addition to passing the required courses, students must complete a written examination at the end of their work in order to graduate, as measured by two forms of assessment.

**Student Self-Assessment: Senior Seminar Project**

Each student will complete a substantial writing project in the senior seminar. This project will be appropriate to the student's concentration and the specific topic of the seminar. The seminar instructor will provide specific details of the assignment; all projects must be mature, focused research or creative papers (as determined by the content advisor) that result from the student's own efforts, consultation with the instructor, and peer review from other seminar members. In an introduction to the final draft, the writer must survey his or her own growth as a writer and point to strengths demonstrated in the project.

**Departmental Student Assessment: Exit Examination**

In order to graduate, English majors must pass a comprehensive, standardized examination. Students may take the examination more than once. Further information about the exit examination is available from the department.

**Graduation with Distinction in English**

Departmental distinction is separate from the college Honors Program. Majority must have at least 3.5 in all coursework that is taken in the department. Two semesters prior to the one in which the student proposes to graduate, student and advisor should talk about the project. Students may submit a critical paper on a literary topic, a creative writing project, or a research project in which they will write an examination paper. A brief personal (two or three pages) description of the project should be sent to the English Department Committee. More information about graduation with distinction is available in the department.

**Teacher Certification**

English majors who want to pursue certification to teach at the middle or secondary school level should seek advisement from the College of Education Office of Academic Assistance (300 College of Education Building, 404/651-2539) and the Middle Secondary Education and Instructional Technology Department (639 College of Education Building, 404/651-2510). Georgia State University offers a Master's of Education Alternative Preparation degree in Middle Childhood or in English Education that is a four-semester program beginning summer and a Master's of Education Alternative Preparation Certification Track that is a three-semester program also beginning in the summer. Students interested in teaching in middle school should major and minor in a combination of Social Studies and English.

**British-American Joint Studies Program Concentration (24)**

1. Select one course (3)
   - Engl 3280 English Drama (3)
   - Engl 3300 Medieval English Literature (3)
   - Engl 3400 Sixteenth-Century English Literature (3)
   - Engl 3410 Early and Middle Seventeenth-Century English Literature (3)

2. Select one course (3)
   - Engl 4110 Chaucer (3)
   - Engl 4120 Spenser (3)
   - Engl 4130 Shakespeare, Earlier Works (3)
   - Engl 4140 Shakespeare, Later Works (3)
   - Engl 4150 Milton (3)

3. Select two of the following (6)
   - Engl 3275 Literature and Culture of the American South (3)
   - Engl 3270 American Culture Seminar (3)
   - Engl 3250 American Culture Seminar II (3)
   - Engl 3250 American Culture Seminar III (3)

4. Engl 3270 American Culture Seminar (3)

5. Select two electives from English, History, and Folklore courses. These courses can be taken at Georgia State or University of Northumbria-Newcastle. (6) Electives are designated as Engl 4200 but exclude those listed in area 7.

6. Engl 3270 American Culture Seminar (3)

**Area II: Minor and Additional Courses**

English majors have three options: a minor, a double major, or additional courses in the major. One of these options, combined with electives, will complete their degree requirements. Each student should discuss these options with a department adviser and choose the one that will best serve the student's long-term goals.

1. Minor: at least 15 semester hours, 9 hours of which must be taken at the 3000 level or above, from one department, school, or institute other than the English Department, or in Folklore. The requirements for a minor must be fulfilled in a department, school, or institute that offers a baccalaureate degree. Students interested in an interdisciplinary minor should consult their advisers. The College of Arts and Sciences requires a grade of C or higher in each course counted toward the minor.

2. Double major: course work to satisfy requirements for a second major in addition to English; all college and departmental...
Teacher Certification Requirements

English majors concentrating in secondary English not seeking certification will have a minor in education that focuses on teachers as communicators. They should discuss the certification procedures with both college and departmental advisers.

Majors seeking certification to teach secondary English must apply for admission to the teacher education program. The application form is available in the Office of Academic Assistance, College of Arts and Sciences, and should be completed and returned to that office. Applicants must have passed the Regents Test and Praxis I Exam, completed a certain number of hours, including Areas A through B of the Core Curriculum, and have an overall cumulative GPA of at least 2.75. Candidate for certification in Georgia must pass Praxis II Exam required for English Education. Candidates must also meet the Exit Criteria of the College of Education. Further information is available in the Office of Academic Assistance, College of Arts and Sciences. Students are advised to take the exams before student teaching.

English Requirements for All Students

In its freshman composition courses, the department instructs students in the standard of writing expected in their academic careers. The core curriculum requirements for composition (Area A, Basic Skills) are English Composition I and II (Engl 1101 and 1102) or the equivalent. The lowest passing grade for these courses is "C."

The Honors Program

The Department encourages all qualified students to participate in the Honors Program (see "Honors Program" for additional information).

Departmental Student Assessment: Senior Exit Portfolio

In order to graduate, English majors must submit an exit portfolio designed appropriate to their concentration. All portfolios include a statement of self-assessment and four to six substantial pieces of writing that demonstrate their skills appropriate to their concentration. Specific information about the exit portfolio for each concentration is available from the department. Portfolios are due at the mid-point of the semester of graduation.

Graduation with Distinction in English

Departmental distinction is separate from the Honors Program. Majors who have an average of at least 3.5 in upper-division English courses are eligible to undertake a project that could lead to graduation with distinction.

Two academic terms prior to the one in which the student proposes to graduate, student and adviser should plan the project. Students may undertake a critical paper on a literary topic, a creative writing project, or a reading list on which they will write an examination paper. A brief proposal (two or three pages) describing the project should be sent to the Events and Awards Committee. More information about graduation with distinction is available in the department.

Minor in English or Folklore

Students who minor in English or Folklore must complete at least 15-18 hours of course work in English or Folklore, including 12 hours at the 3000 level or above (and any prerequisites required). Students taking more than 15 hours in courses in English may count the additional hours toward their electives or may consider completing a double major. (A grade of C or higher is required in all courses counting toward the minor.)
### Department of Communication

**Degree Requirements**

**B.A. in Film and Video**

Majors should complete the following:

1. "Undergraduate Core Curriculum," previously described (specific recommendations listed below);
2. "Area F: Courses Appropriate to the Major," listed below;
3. "Major Courses," listed below; and
4. "Elective and/or Additional Courses," listed below, if needed.

**Area A: Essential Skills (9)***

**Area B: Institutional Options (4)***

**Area C: Humanities and Fine Arts (6)***

**Area D: Science, Mathematics, and Technology (11)***

**Area E: Social Science (12)***

**Area F: Courses Appropriate to the Major (18)**

1. Film 1010, Film Aesthetics and Analysis (3)
2. Film 1700, History of the Motion Picture (3)
3. Electives: Select three courses, (9)

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### 3260 Film and Video

**Programs Offered:**

**Bachelor of Arts in Film and Video**

Department of Communication
1040 One Park Place South
404/651-3200

http://communication.gsu.edu

David Cheshier, Chair
Kathryn Fuller-Seeley, Associate Chair
Doug Barthlow, Undergraduate Adviser

The disciplines of communication are concerned with the processes and effects of human communication in a variety of contexts ranging from interpersonal communication through the mass media. The Department of Communication provides courses of study that develop knowledge and skills in managing face-to-face communication, knowledge about the nature and social functions of the mass media, and the skills necessary for communication careers. Majors are offered in the areas of film and video, journalism, and speech.

The major in film and video is designed to provide the student with the knowledge and skills necessary to understand and apply this complex discipline in both an intellectual and artistic way. This is reflected in the program structure, which includes critical studies (history, theory, industry, and criticism), production (film, video, digital), and writing. Students will cover all of these areas but may specialize in one or two in their work. Internships are available in the Atlanta metro area and beyond.

Credit for special projects and internships is available in all majors and concentrations. Internships enable students who already have completed the appropriate course work and have met departmental eligibility criteria to take advantage of expertise in a variety of professional sectors in the metropolitan area and to tailor programs to their specific career goals.

**Program Academic Regulations**

All 3000-4000 level Film/Video courses require students to have an overall Georgia State University Institutional GPA of 2.5 prior to enrollment. See the Department of Communication’s website for more information at http://communication.gsu.edu.

**Program Degree Requirements**

In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

**B.A. in Film and Video**

**Area F: Courses Appropriate to the Major Field (18)**

1. Lang 1002, Elementary Foreign Language I (3)

(See “Foreign Language Requirement for B.A. and B.I.S. Majors,” previously described.)

2. Required Courses (minimum grade of C is required) (6)
   - Film 1010, Film Aesthetics and Analysis (3)
   - Film 1700, History of the Motion Picture (3)

3. Electives: Select three courses, (9)
**Major Courses (24)**

A grade of "C" or higher is required in all major courses.

1. **Film Theory and Criticism (3)**
   - Film 4750: Film Theory and Criticism (4)

2. **Screenwriting, Production, and Industry. Select one course. (3-4)**
   - Film 4120: Postproduction (4)*
   - Film 4130: Production I (4)*
   - Film 4250: Producing for Film and Television (3)
   - Film 4310: Feature Screenwriting I (3)

3. **Film History. Select one course. (4)**
   - Film 4170: American Film History I (4)
   - Film 4180: International Cinemas (4)
   - Film 4210: Critical History of Television (4)
   - Film 4350: Film and History (4)
   - Film 4960: American Film History II (4)

4. **Critical Studies. Select one course. (3-4)**
   - Film 4125: Community-Based Media Production (4)*
   - Film 4240: Documentary Film (4)
   - Film 4260: Film and Literature (4)
   - Film 4280: Film Genres (4)
   - Film 4760: African Americans in Film (3)
   - Film 4770: Special Topics (2)
   - Film 4980/4981: Honors Thesis: Writing (3-6)

5. **Electives. Select a sufficient number of the following courses to bring the course total to the 24 credit hours which complete the major. Any other 3000 or 4000-level Film class not already used to fulfill the requirements for Sections 1-4 can be taken as an elective.**
   - Film 3000: Lighting Design for Theatre, Film, and Television (3)
   - Film 3300: Dramatic Writing for Stage and Screen (3)
   - Film 4400: Acting for the Camera (3)
   - Film 4310: Production II (4)*
   - Film 4320: Feature Screenwriting II (3)
   - Film 4780: Special Topics (4)
   - Film 4840: Computer Graphic Imaging (3)
   - Film 4841: Computer Animation (3)
   - Film 4880: Honors Thesis: Writing (3-6)
   - Film 4980: Internship (1-6)

*To enroll in Film 4120, students must receive departmental authorization. To be considered, students must have (1) a 3.0 grade-point average, (2) completed Film 1010 and 2700, and (3) submit evidence of receiving a 3.0 (or higher) grade-point average in courses completed prior to October 15 of the year of their eligibility prior to registration in the major.*

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**Area G: Major Courses (24)**

A grade of "C" or higher is required in all major courses.

1. **Film Theory (4)**
   - Film 4750: Film Theory and Criticism (4)

2. **Screenwriting, Production, and Industry. Select one course. (3-4)**
   - Film 4110: Postproduction (4)*
   - Film 4120: Production I (4)*
   - Film 4250: Producing for Film and Television (3)
   - Film 4310: Feature Screenwriting I (3)
   - Film 4800: Film and Media Industries (3)

3. **Film History. Select one course. (4)**
   - Film 4170: American Film History I (4)
   - Film 4180: International Cinemas (4)
   - Film 4210: Critical History of Television (4)
   - Film 4350: Film and History (4)
   - Film 4960: American Film History II (4)

4. **Critical Studies. Select one course. (3-4)**
   - Film 4125: Community-Based Media Production (4)*
   - Film 4240: Documentary Film (4)
   - Film 4260: Film and Literature (4)
   - Film 4280: Film Genres (4)
   - Film 4760: African Americans in Film (3)
   - Film 4770: Special Topics (2)
   - Film 4810: Media and Popular Culture (4)

5. **Electives. Select a sufficient number of the following courses to bring the course total to the 24 credit hours which complete the major. Any other 3000 or 4000-level Film class not already used to fulfill the requirements for Sections 1-4 can be taken as an elective.**
   - Film 3000: Lighting Design for Theatre, Film, and Television (3)
   - Film 3300: Dramatic Writing for Stage and Screen (3)
   - Film 4400: Acting for the Camera (3)
   - Film 4310: Production II (4)*
   - Film 4320: Feature Screenwriting II (3)
   - Film 4780: Special Topics (4)
   - Film 4840: Computer Graphic Imaging (3)
   - Film 4841: Computer Animation (3)
   - Film 4880: Honors Thesis: Writing (3-6)
   - Film 4980: Internship (1-6)

*To enroll in Film 4110, 4120, 4215 and 4130, students must receive departmental authorization. To be considered, students must have (1) a 3.0 grade-point average, and (2) submit the appropriate course application to the Department of Communication by October 15 or April 15 of the year of their eligibility prior to registration in.*
Area H: Minor and Additional Courses

1. Students majoring in Film/Video must select a minor consisting of at least 15 hours of courses in an academic department/school/institute that offers a baccalaureate degree. At least nine semester hours of minor courses must be at the 3000 level or above, unless otherwise specified by the minor-granting department/school/institute. A grade of C or higher is required in all minor courses.

Minor in Film and Video

Students who wish to minor in one of the department’s three programs must take 15-18 hours in the specific area, including at least 9 semester hours at the 3000 level or above. Students taking more than 15 hours in courses in the specific area may count the additional hours toward their electives or may consider completing a double major. A grade of C or higher is required in all courses counting toward the minor.

Residency Requirement

A minimum of 39 semester hours in courses at the 3000 level or above must be completed in residence at Georgia State University with an average of "C" or better.

Course Descriptions

Please refer to "Courses of Study" section in this catalog.
Faculty
Harriet L. Daniels Ennis, Ph.D. (Emory University), Associate Professor of German, Magna Professor of German, and Research Professor of Classics.
Helen L. Luebbers, Ph.D. (Yale University), Professor of French.
David O'Connell, Ph.D. (Princeton University), Professor of French.
Ann Kathleen Dole, Ph.D. (Florida Atlantic University), Associate Professor of French.
James C. Murray, Ph.D. (Cornell University), Associate Professor of Modern and Classical Languages.
George A. Peria, Ph.D. (University of California, Los Angeles), Associate Professor of Modern and Classical Languages.
Fernando O. Roiti, Ph.D. (Washington University), Associate Professor of Modern and Classical Languages.
John Smallam Ansin, Ph.D. (Cornell University), Assistant Professor of German.
Annette Cacchi, Ph.D. (The Ohio State University), Visiting Associate Professor of Modern and Classical Languages.
Martha E. Edscher, Ph.D. (University of California, Los Angeles), Assistant Professor of Modern and Classical Languages.
Eris LeCalvez, Ph.D. (University of Paris III), Assistant Professor of Modern and Classical Languages.
Siegfried Abromeit, Ph.D. (University of Virginia), Assistant Professor of Spanish.
Jose Montero, Ph.D. (Emory University), Assistant Professor of Spanish.
Solange S. Bouchet, Ed.D. (Columbia University), Instructor in Modern and Classical Languages, Afrikaans.
Aldo Loff, Ph.D. (University of Rome, Italy), Instructor in Modern and Classical Languages.
Lisa M. Surra, M.A. (University of Georgia), Lecturer in Modern and Classical Languages.

Programs Offered:
Bachelor of Arts in French
Concentration in Literature
Concentration in Foreign Language Education
Concentration in Language and International Business
Bachelor of Arts in French and M.I.B. Joint Degree
Minor in French

The Department of Modern and Classical Languages serves a threefold purpose: to encourage an appreciation of humanistic values through the study of foreign literatures and cultures; to teach foreign languages as a means of communication; and to prepare students for academic careers and the opportunities available in the field of international business. As part of a dynamic urban university in a city of growing international awareness and status, the department is fulfilling its responsibility to meet the increasing foreign language needs of the governmental, business and professional communities.

The department recognizes that an active command of the foreign language and a thorough exploration of the foreign culture form an essential basis for further study in the various areas of its curriculum. To this end, the department sponsors a study-abroad program in Tours (France).

The department maintains a state-of-the-art multimedia Language Acquisition and Resource Center (LARC) with a digital audio laboratory with 50 student computer workstations. The digital lab serves a dual purpose in allowing both independent student access to digitized audio files and interactive software that accompanies the language texts, and also in providing a multimedia environment for teacher-led listening, speaking, and recording activities. In addition to the audio lab, the LARC features a tutoring center and resource library, as well as five stand-alone computers for student use. To assist in the development of the student's active language skills and to provide added cultural enrichment, the LARC contains a wide range of audiovisual materials, including a growing collection of videos, CD roms and DVDs.

The department sponsors two Freshman Learning Communities each year. One group is designed for students interested in using their foreign language in international business. The other, sponsored jointly by the Department of Applied Linguistics' ESL, is in Language Studies.

For students who hope to teach at the K-12 levels, the department offers concentrations that lead to certification in French, German, Latin, and Spanish.
For students who view language study as a preparation for a career in the business world, the department has two special programs: a concentration in the business language of French, German, and Spanish; and a practicum in an internationally oriented business or service organization in the metro area for qualified and interested students in their senior year.

The department is also a testing center for diplomas certifying proficiency in business language and procedures. These diplomas are granted by chambers of commerce in various countries. All foreign language majors are encouraged to consult regularly with their departmental adviser in designing and following a program of study that fits their own career objective and the requirements of their particular concentration.

### Program Degree Requirements

In addition to courses in the language major, students are advised to choose courses in other areas that complement their language study. Such courses include other languages, history, philosophy, art and music, business, and education. Faculty advisers in the department are eager to discuss students’ academic plans as they design their course of study.

In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

### B.A. in French

#### Area F: Courses Appropriate to the Major (18)

1. Majors must achieve competence at the intermediate level before beginning courses at the 3000 level. They may demonstrate competence through placement exam scores, including the CLEP exam, prior study, or courses taken at Georgia State University. The following may be counted in Area F, as required (0-9 hours): Fren 1002, Fren 2001, Fren 2002.

2. Students may complete Area F with any combination of the following (0-18 hours):
   a. Any courses in other foreign languages, 1001-2203/2501 level.
   b. Electives in the Department of Modern and Classical Languages.
      - Clas 2201, Clas 2202, Clas 2203, Fren 2216, Grmn 2216, Ital 2211, Span 2213, Span 2216
   c. Electives in other departments.
      - AL 2101, AL 2102, Anth 2020, AH 1700, AH 1750, Econ 2105, Econ 2106, Engl 2110, Engl 2120, Engl 2130, EDUC 2110, EDUC 2120, EDUC 2130, EXC 4020, Hist 1111, Hist 1112, Film 1010, Jour 1010, PolS 2401, WSt 2010

#### Area G: Major Courses (30)

The major in French consists of 30 hours (ten courses) on the 3000/4000 level. Prerequisite for all courses on the 3000 level is French 2002. Prerequisite for all courses at the 4000 level is the completion of the three courses at the 3000 level.

1. Major Requirements [9]
   - Fren 3013: Intensive Grammar Review (3)
   - Fren 3023: Advanced Conversation and Composition (3)
   - Fren 3033: Introduction to the Analysis of Literary Texts (3)

2. Concentration Courses [21]
For Lang. 1001 and 1002 (Elementary Foreign Language I and II) (Language of major) (3 each)
For Lang. 1001 and 1002 (Elementary Foreign Language I and II) (second foreign language) (3 each)
For Lang. 2001 and 2002 (Intermediate Foreign Language I and II) (second foreign language) (3 each)
2. Select elective courses from either of the lists below.

Electives in the Department of Modern and Classical Languages
- Fren 4103: History of French Civilization (3)
- Fren 4203: Medieval and Renaissance French Literature (3)
- Fren 4303: French Literature of the Classical Period (3)
- Fren 4403: French Literature of the Enlightenment (3)
- Fren 4414: Special Topics in French Literature (3)
- Fren 4503: French Romanticism, Realism, and Symbolism (3)
- Fren 4613: French Literature of the Twentieth Century I (3)
- Fren 4623: French Literature of the Twentieth Century II (3)
- Fren 4633: Francophone Literature (3)
- Select two additional courses in French at the 3000/4000 level (6)

Foreign Language Education Concentration

a. Concentration Requirements (6)
- Fren 4103: History of French Civilization (3)
- Fren 4123: Contemporary France (3)
- Fren 4203: Medieval and Renaissance French Literature (3)
- Fren 4303: French Literature of the Classical Period (3)
- Fren 4403: French Literature of the Enlightenment (3)
- Fren 4414: Special Topics in French Literature (3)
- Fren 4503: French Romanticism, Realism, and Symbolism (3)
- Fren 4613: French Literature of the Twentieth Century I (3)
- Fren 4623: French Literature of the Twentieth Century II (3)
- Fren 4633: Francophone Literature (3)
- Select three additional courses in French at the 3000/4000 level (9)

Requirements for Teacher Certification

Students who wish to be certified to teach French in the public schools of Georgia should choose the courses listed under the “Foreign Language Education Concentration” above and the following methodology courses in the Department of Modern and Classical Languages: ForL 3021, 3022, 4025, 4026, and 4030. All students will register for Student Teaching (ForL 4061/4062/4063).

All students seeking certification in French must pass the following courses in the College of Education with a grade of C or higher: EDUC 2110, EDUC 2120, EDUC 2130, IT 3210, and EXC 4020.

Students must apply formally and be admitted to the Teacher Education program in foreign languages. Application forms are available in the department (841 GCB). See “Teacher Preparation Programs” chapter of this catalog. To qualify for the Student Teaching experience, students must receive a grade of B or higher on a departmental test of oral and written proficiency in their target languages. Specific information about date and place of these exams is available in the department office (841 GCB).

In order to be recommended for K-12 certification in French students must complete all courses taken in the Department of Modern and Classical Languages (the major and ForL courses) with a grade of B or higher.

Language and International Business Concentration

a. Concentration Requirements (12)
- Fren 4033: French for International Business I (3)
### Language and International Business Concentration

1. **Concentration Requirements (12)**
   - Fren 4033: French for International Business I (3)
   - Fren 4043: French for International Business II (3)
   - Fren 4053: Advanced Grammar and Translation (3)
   - Fren 4123: Contemporary France (3)

2. **Select one course. (3)***
   - Fren 4203: Medieval and Renaissance French Literature (3)
   - Fren 4303: French Literature of the Classical Period (3)
   - Fren 4403: French Literature of the Enlightenment (3)
   - Fren 4414: Special Topics in French Literature (3)
   - Fren 4503: French Romanticism, Realism, and Symbolism (3)
   - Fren 4613: French Literature of the Twentieth Century I (3)
   - Fren 4623: French Literature of the Twentieth Century II (3)
   - Fren 4633: Francophone Literature (3)

3. **Select two additional courses in French at the 3000/4000 level (6)**

### Minor and/or Additional Courses

1. Foreign language majors are not required to take a minor. Foreign language majors who choose a minor in other requirements/bachelor’s degrees are encouraged to select courses that are appropriate to their area of concentration. Students are also urged to consider combining their major with a second major in another language or another discipline under the Double Major option.

2. Up to six additional hours may be taken in the major.

### Bachelor of Arts in French and M.I.B. Joint Degree Program

Highly qualified and highly motivated students interested in languages and international business may apply for this joint-degree program that leads to an undergraduate degree in French and a Master of International Business. It is a demanding program that combines classroom study of French with the international business curriculum. There will be at least one mandatory internship abroad in the final year, with a second strongly recommended study or work experience abroad, usually during the third or fourth year. Completion of the program in five years will mean that students must be willing to attend classes in the summer, as necessary. For further information please contact: Department of Modern and Classical Languages, 841 General Classroom Building, 404/651-2265, e-mail: mclinfo@gsu.edu.

### Bachelor of Arts Major in International Economics and Modern Languages

**Program Admission**

There are no admission requirements above the requirements for admission to the University for enrollment in the B. A. program with a major in international economics and modern languages.

**Program Financial Information**

There are no additional fees other than the tuition and fees charged by the University for enrollment in this program.

**Program Degree Requirements**

For degree credit, a minimum grade of C must be attained in Engl 1101 and 1102 and all courses in the economics common core curriculum and modern languages core curriculum. Complete descriptions of requirements for Areas A through E of the Undergraduate Core Curriculum can be found in the "University Degree Requirements and Graduation" chapter of this catalog. The number of semester credit hours required for each section is shown in parentheses.
Area F: Courses Appropriate to the Major (18)

- Econ 2105  Principles of Macroeconomics
- Econ 2106  Principles of Microeconomics
- Math 1070  Elementary Statistics - If taken in Area D, a 1000/2000 level elective from Areas A-E may be substituted.
- Fren 2001  Intermediate French I
- Fren 2002  Intermediate French II

Note: Students who have not already attained elementary-level proficiency in their chosen language will be required to take prerequisite courses: Fren, Germ, or Span 1001 and/or 1002. In that case, the 1002 language course may be used to satisfy 3 credit hours of core requirements in Area C, Humanities and Fine Arts.

Students who have already attained intermediate-level competency in the primary language may substitute 1000/2000 level courses in another language for Fren, Germ or Span 2001/2002 (or Span 2203 or Span 2501) upon approval of the Department of Modern and Classical Languages advisor.

Elective: one 1000/2000 level course chosen from Areas A-E.

Area G: Economics Common Core Curriculum (24) A minimum grade of C is required for all courses in this area.

- Econ 3900  Macroeconomics
- Econ 3910  Microeconomics
- Econ 4600  Economic Development
- Econ 4800  International Trade
- Econ 4810  International Finance

Choose 3 elective 4000-level Econ courses (9)

Area H: Modern Languages Common Core (24) A minimum grade of C is required for all courses in this area.

- Fren 3013  Intensive Grammar Review
- Fren 3023  Advanced Conversation and Composition
- Fren 3033  Introduction to Analysis of Literary Texts
- Fren 4033  French for International Business I
- Fren 4043  French for International Business II
- Fren 4053  Advanced Grammar and Translation
- Fren 4123  Contemporary France

Choose 1 elective Fren 3000/4000 course (3)

Area I: Electives (12) Choose any four 3000/4000 level courses, in consultation with the faculty advisor.

Minor in French

Students who wish to minor in French must take 15-18 hours in courses in French, including at least nine semester hours at the 3000 level or above. Students taking more than 15 hours in courses in the language may count the additional hours toward their electives or may consider completing a double major. A grade of C or higher is required in all courses counting toward the minor.
Geosciences is the broad study of the earth, including the earth’s interior, its surface, its atmosphere, and its people. Traditionally these subjects have been separated into several fields that include Geology and Geography, and this distinction may still be somewhat appropriate; however, some of the subject matter with which Geography and Geology are concerned can be claimed by both. Taking advantage of this, the Department of Geosciences seeks to make available to students instruction and experiences that exploit the complementary nature of Geology and Geography.

The Department of Geosciences offers the B.A. degree in Geography with five concentrations: General Geography, Human Geography, Physical Geography, Geographic Information Science, and Pre-Education; and the B.S. degree in Geology with three concentrations: General Geology, Environmental Geology, and Earth Science.

3280 Geosciences

Programs Offered:
- Bachelor of Arts in Geography
  - Concentration in General Geography
  - Concentration in Human Geography
  - Concentration in Physical Geography
  - Concentration in Geographic Information Science
  - Concentration in Pre-Education

- Bachelor of Science in Geology
  - Concentration in General Geology
  - Concentration in Environmental Geology
  - Concentration in Earth Science

Minor in Geography
- Bachelor of Science in Geology

Minor in Geology

Geoscience is the broad study of the earth, including the earth’s interior, its surface, its atmosphere, and its people. Traditionally these subjects have been separated into several fields that include Geology and Geography, and this distinction may still be somewhat appropriate; however, some of the subject matter with which Geography and Geology are concerned can be claimed by both. Taking advantage of this, the Department of Geosciences seeks to make available to students instruction and experiences that exploit the complementary nature of Geology and Geography.

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3280.10 Geography Program

Jeremy E. Diem, Undergraduate Director for Geography

Geography is the study of the relationships among people, places, society, and the environment. The geography major has been designed to enable the student to develop a broad understanding of social and environmental issues, attain depth in a specialized area within geography, and acquire skills needed to gain employment and carry out lifelong learning. In order to assist students in attaining depth, the following concentrations are offered: human geography, physical geography, and geographic information science. General geography and pre-education are two additional concentrations.
An undergraduate degree in geography affords someone many opportunities for employment in both the public sector and the private sector. Geographers generally find employment as cartographers, city/regional planners, conservationists, environmental managers, and environmental regulators, Geographic Information System (GIS) specialists, historic preservationists, location analysts, and as physical scientists working for the government.

In addition, with the diversity of their liberal arts training, geographers also qualify for professional management positions as well as more traditional work as teachers.

An undergraduate degree in geography also provides a solid intellectual foundation for people getting advanced degrees in either the social or natural sciences. In addition, to being given substantial flexibility with respect to their selection of undergraduate courses, geography majors are required to take multiple upper-division courses in human geography, physical geography, and geographic information science. Finally, the concentration within geography enables geography majors to begin to find their intellectual niche.

Students interested in any geography course, or in majoring or minoring in the geography program, are invited to contact the geography undergraduate adviser to discuss how the geography program may best help make their college experience positive and productive.

**Program Degree Requirements**

In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

**B.A. in Geography**

**Areas A-E: Core Curriculum Recommendations**

Students majoring in geography are expected to complete Geog 1112 and 1113 (in Areas D or F) and Geog 2202 and Math 1070 (in Area F) with a grade of "C" or better.

**Area A: Essential Skills (9)**

**Area B: Institutional Options (4)**

**Area C: Humanities and Fine Arts (6)**

**Area D: Science, Mathematics, and Technology (10)**

**Area E: Courses Appropriate to the Major (18)**

1. **Required Courses (3-5)**
   - Math 1070
   - Elementary Statistics (3) (if not taken in Area D)
   - For Lang 1002
   - Elementary Foreign Language II (3) (if not taken in Area C)
   
   **Note:** The program requires that all geography majors complete the For Lang 1002 and a subsequent semester of foreign language. (See "Foreign Language Requirement for B.A. and B.S. Majors," previously described.)

2. **Select additional courses from the following to complete the 18 hours in Area E**
   - Any geography course at the 1000-2000 level not taken in Area E
   - AAS 2010
   - Anth 1160
   - Hist 2105
   - Hist 2106
   - Lang 1001
   - Phil 1010
   - PolS 1101
   - PolS 2401
   - Psych 1101
   - Soci 1101
   - WSt 2010

**Area F: Courses Appropriate to the Major Field (18)**

1. **Required Courses (3-17)**
   - Geog 1101 Introduction to Human Geography (3) (if not taken in Area E)
   - Geog 1112 Introduction to Weather and Climate (4) (if not taken in Area D)
   - Geog 1113 Introduction to Landforms (4) (if not taken in Area D)
   - Geog 2206 Introductory Mapping and Geographic Information Science (4)
   - Math 1070 Elementary Statistics (3) (if not taken in Area D)

2. **Select additional courses from the following to complete the 18 hours in Area F**
   - Any geography course at the 1000-2000 level not taken in Area E.
   - AAS 2010
   - Anth 1160
   - Hist 2105
   - Hist 2106
   - Lang 1001
   - Phil 1010
   - PolS 1101
   - PolS 2401
   - Psych 1101
   - Soci 1101
   - WSt 2010

**Area G: Major Courses (34-40)**

A grade of "C" or higher is required in all major courses.

1. **Major Requirements (26)**
   - Geog 4518 Digital Cartography (4)
   - Geog 4520 Quantitative Spatial Analysis (4)
   - Geog 4644 Environmental Conservation (4)
   - Geog 4764 Urban Geography (4)
2. Geography majors may select concentrations in General Geography, Human Geography, Physical Geography, Geographic Information Science, or Pre-Education.

**General Geography Concentration**

Students must fulfill the major requirements and take three additional geography courses at the 3000 level or higher.

**Human Geography Concentration**

Students must fulfill the major requirements and select three courses from the following:

- Geog 4408 Geography of the Middle East and North Africa (4)
- Geog 4760 Cultural Geography (3)
- Geog 4762 Economic Geography (4)
- Geog 4768 Metropolitan Atlanta (3)
- Geog 4772 Geography of Urban and Regional Development (3)
- Geog 4774 Contemporary Urban Theory and Issues (3)
- Geog 4780 Advanced Systematic Geography (3) (if topic is applicable)

**Physical Geography Concentration**

Students must fulfill the major requirements and select three courses from the following:

- Geog 4640 Geomorphology (4)
- Geog 4642 Advanced Weather and Climate (4)
- Geog 4646 Water Resources Management (4)
- Geog 4648 Biogeography (4)
- Geog 4650 Applied Hydrology (3)
- Geog 4670 Introduction to Oceanic Environments (3)
- Geog 4680 Aqueous Geochemistry (4)
- Geog 4780 Advanced Systematic Geography (3) (if topic is applicable)

**Geographic Information Science Concentration**

Students must fulfill the major requirements and select three courses from the following:

- Geog 4530 Introduction to Remote Sensing (4)
- Geog 4532 Geographic Information Systems (4)
- Geog 4533 Introduction to GIS Applications (4)
- Geog 4534 Advanced Geographic Information Systems (4)
- Geog 4536 Internet GIS and Visualization (4)
- Geog 4780 Advanced Systematic Geography (3) (if topic is applicable)

**Pre-Education Concentration**

The Social Studies Education Concentration in Geography is designed for students who want to be secondary school teachers. This degree provides the initial teaching preparation for the Alternative M.Ed. Program in Social Studies Education in the College of Education at Georgia State University, or similar Master’s degrees at other universities. Students pursuing this concentration must complete all major requirements and choose three allied fields.
from other departments, taking a minimum of nine hours of 3000-4000 level courses in each allied field. Students with a concentration in Geography may choose the following allied fields.

- Anthropology
- Psychology
- Sociology (select one)
- Economics
- History
- Political Science

Geography as an allied field consists of any three geography courses at the 3000 level or higher.

Area H: Minor and Additional Courses

Students majoring in geography are not required to take a minor.

Minor in Geography

Students choosing to complete a minor in geography should complete the following requirements (1 and 2). (15-20). A grade of C or higher is required in all courses counting toward the minor. Students taking more than 15 hours in geography courses may count the additional hours toward their electives or may consider completing a double major.

1. Select one course
   - Geog 1101 Introduction to Human Geography (3)
   - Geog 1112 Introduction to Weather and Climate (4)
   - Geog 1113 Introduction to Landforms (4)

2. Select at least 12 hours of geography courses at the 3000 level or higher.

3280.20 Geology Program

Hassan A. Babaie, Undergraduate Director for Geology

Philosopher Will Durant once remarked, “Civilization exists by geological consent, subject to change without notice.” Almost every day we are reminded how large a role geology plays in our lives, whether it be earthquakes, volcanic eruptions, tsunamis, contaminated water supplies, rising oil prices, or the cost of emeralds, sapphires, and gold.

Geology is the science of the earth. Geological research includes studies of minerals and rocks that compose the earth’s surface and interior, the geometry and interrelationships of rock masses, the structural configuration of the earth, and fluids within the earth. Geology also includes the study of modern physical processes and interpretation of the earth’s physical and biological evolution through billions of years of geologic time and into the future. Because of our critical dependence on the earth, appreciation of geology is essential if we are to make informed and enlightened decisions on how to use and protect our planet.

Many career opportunities allow for practical application of geology in industry, consulting firms, and governmental agencies at all levels. Practical and essential applications of geology include development and wise use of water resources, both surface and subsurface; land-use planning for urban, suburban, and rural development; exploration for and development of mineral and energy resources including petroleum; and development of environmentally sound strategies for hazardous waste disposal and treatment.

The curriculum leading to the B.S. degree in geology is excellent preparation for graduate work in geoscience and environmental science. For students who are interested in geoscience and environmental science but who intend to pursue graduate or advanced study in other fields, for example environmental law or business, the geology B.S. degree may still be an appropriate choice.

The Department of Geosciences offers the B.S. degree with three concentrations: General Geology, Environmental Geology, and Earth Science. The Environmental and Earth Science concentrations are for students seeking strong...
Degree Requirements

Degree offered:
Bachelor of Science
Major in Geology

Concentration in General Geology
Concentration in Environmental Geology

Majors should complete the following:
1. Undergraduate Core Curriculum, previously described (specific recommendations listed below).
2. Area A: Core Courses as listed below.
4. "Minor and/or Additional Courses" listed below, if needed.

All curricula leading to a B.S. degree in geology include the following requirements: Geol 1121K, 1122K, 3002, 4013, 4015, 4016, 4095, 4120, 4121; Chem 1211K, 1212K; Math 2211, 2212. All students must also take one of the following allied science sequences: Biol 1103K, 1104K, or Biol 2107K, 2108K, or Phys 1111K, 1112K, or Phys 2211K, 2212K.

In completing their requirements, all students choose either a concentration in general geology or a concentration in environmental geology. The general geology concentration provides the broader background, and it is viewed as the normal track for preparation for advanced graduate study in the geological sciences. The environmental geology concentration is more specialized, and it has corresponding specialized requirements in geology courses.

Area A: Essential Skills (9)

Required course:
Math 1113. Precalculus (or a higher-level mathematics course) (3)

Area B: Institutional Options (4)

preparation for entering the work force with the B.S. degree. The Environmental concentration emphasizes the study of groundwater and the delicate environmental balances of the natural world. The Earth Science concentration emphasizes the measurement and graphical depiction of geological features and processes. Both are excellent preparation for jobs in the environmental area and for graduate work in environmental geology. The concentration in general geology is the most traditional of the programs, designed to prepare the student for graduate studies or employment in a wide variety of geoscience areas. It features the greatest flexibility in selection and scheduling of courses. Specific requirements for the concentrations are shown below.

Majors should be aware that there are prerequisites for many geology courses and that several courses are offered only once a year. As soon as they have selected the geology major, students must consult with department advisers to be informed in these matters and to ensure that programs of study accord with their specific career aspirations and needs.

The department participates actively in the university’s Cooperative Education Program, whereby the student can work and attend school at the same time or in alternate years. The program enables students to develop long-term career opportunities while in school. Because of the potential complexities of such a program, students are encouraged to seek early advisement in the department. Co-op students also should discuss their academic plans and curriculum options with their employers.

Program Financial Information

Courses with labs and/or field trips require purchase of lab fee cards. A field camp fee is required for Geol 4120/4121.

Program Degree Requirements

All curricula leading to a B.S. degree in geology include the following requirements: Geol 1121K, 1122K, 3002, 4006, 4013, 4015, 4016, 4095, 4120, 4121; Chem 1211K, 1212K. All students must also take one of the following allied science sequences: Biol 1103K, 1104K, or Phys 1111K, 1112K, or Phys 2211K, 2212K. Note: Physics recommended.

Students in all concentrations must take either the Math 2211/2212 sequence or the following pair of math courses: Math 1070 and 1220. The Math 2211/2212 sequence is strongly recommended for students planning to go to graduate school in geology or any other natural science, or to seek employment where a year of calculus is required or expected. Students are strongly urged to consult with the departmental adviser to determine which pair of mathematics courses would be more appropriate.

In completing their requirements, all students follow a concentration in General Geology, Environmental Geology, or Earth Science. The choice should be based on the student’s interests and expectations, within the context of the concentration differences described above.

In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

B.S. in Geology

Areas A-E: Core Curriculum Recommendations

1. Required course:
   Math 1113. Precalculus (3) (or higher-level mathematics course)

2. Area D: Recommended courses:
   Geol 1121K Introductory Geosciences I (4)
   Geol 1122K Introductory Geosciences II (4)

   Required course:
   Math 1070 Elementary Statistics (3) or
   Math 2211 Calculus of One Variable I (4) (or higher-level mathematics course)

Credit hours not needed in Area D will count in Area F or in the second 60 hours beyond the core curriculum.
Area C: Humanities and Fine Arts (6)

Area D: Science, Math, and Technology (11)

Recommended courses:
- Geol 1121K and 1122K (Introduction to Geosciences I and II) (4 each)

Required courses:
- Math 2211L Calculus of One Variable I (or a higher level mathematics course) (4)*

* 1 credit hour will count in the second 60 hours beyond the core curriculum.

Area E: Social Science (12)

Area F: Courses Appropriate to the Major (18)

1. Required Courses*:
   - Math 1220: Survey of Calculus (3) (if Math 1070 taken for Area D), or Math 2212: Calculus of One Variable II (4) (if Math 2211 taken for Area D)
   - Chem 1211K: General Chemistry I (4)
   - Chem 1212K: General Chemistry II (4)
   - Geol 1121K: Introductory Geosciences I (4) (if not taken in Area D)
   - Geol 1122K: Introductory Geosciences II (4) (if not taken in Area D)
   - 1 credit hour will count in the second 60 hours beyond the core curriculum.

2. Select one two-course sequence from the following four sets, plus additional hours of any natural science or mathematics as needed, to complete 18 hours in Area F.
   - Phys 1111K: Introduction to Physics I (4)
   - Phys 1112K: Principles of Physics I (4)
   - Phys 2211K: Principles of Physics II (4)
   - Phys 2212K: Principles of Physics II (4)
   - Biol 1103K: Introductory Biology I (4)
   - Biol 1104K: Introductory Biology II (4)
   - Biol 2107K: Principles of Biology I (4)
   - Biol 2108K: Principles of Biology II (4)

*Credit hours not needed in Area F will count in the second 60 hours beyond the core curriculum.

Area G: Major Courses (39)

A grade of C or higher is required in all major courses.

1. Geology majors must select concentrations in one of General Geology, Environmental Geology, or Earth Science.

   General Geology Concentration (35)
   - Geol 3002: Introduction to Earth Materials (4)
   - Geol 4002: Economic Geology and Geotechnics (4)
   - Geol 4006: Optical Mineralogy and Petrology (4)
   - Geol 4006: Sedimentary Environments and Stratigraphy (4)
   - Geol 4007: Field Geology (4)
   - Geol 4095: Seminar in Geological Sciences (1)*

   Environmental Geology Concentration (31)
   - Courses listed for General Geology Concentration (23)
   - Geol 4530: Introduction to Remote Sensing (4)

   Environmental Geology Concentration (31)
   - Courses listed for General Geology Concentration (23)
   - Geol 4120: Basic Field Geology (3)
   - Geol 4121: Advanced Field Geology (3)

   Environmental Geology Concentration (35)
   - Courses listed for General Geology concentration (27)
   - Geol 4007: Hydrogeology (4)
   - Geol 4017: Environmental Geology (4)

   Earth Science Concentration (35)
   - Courses listed for General Geology concentration (27)
   - Geol 4530: Introduction to Remote Sensing (4)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Geol 4097</td>
<td>Topics in Geological Sciences (1-3)</td>
<td></td>
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<tr>
<td>Geol 4996</td>
<td>Independent Research in Geological Sciences (3)</td>
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<tr>
<td>Geol 5444</td>
<td>Geomorphology (4)</td>
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<tr>
<td>Geol 6644</td>
<td>Environmental Geology (4)**</td>
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<td>Geol 4450</td>
<td>Applied Hydrology (4)**</td>
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<tr>
<td>Geol 4530</td>
<td>Introduction to Remote Sensing (4)</td>
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<td>Geol 4640</td>
<td>Geomorphology (4)</td>
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<td>Geol 4644</td>
<td>Environmental Conservation (4)**</td>
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<tr>
<td>Geol 4870</td>
<td>Honors Thesis: Research (3)</td>
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<tr>
<td>Geol 4880</td>
<td>Honors Thesis: Writing (3)</td>
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</table>

2. Geology Electives: Select additional courses for a total of 39 semester hours. (4-12)

- Geol 4002 Oceanography (3)
- Geol 4003 Aqueous Geochemistry (4)
- Geol 4005 Geology of Georgia (3)
- Geol 4007 Hydrogeology (4)**
- Geol 4011 Principles of Paleontology (4)
- Geol 4017 Environmental Geology (4)**
- Geol 4018 Carbonate Geology (3)
- Geol 4019 Field Experience in Carbonate Geology (1)
- Geol 4042 Analytical Methods (2)
- Geol 4045 Seminar in Geological Sciences (1)*
- Geol 4097 Topics in Geological Sciences (1-3)
- Geol 4098 Independent Research in Geological Sciences (3)
- Geol 4530 Introduction to Remote Sensing (4)
- Geol 4640 Geomorphology (4)
- Geol 4644 Environmental Conservation (4)**
- Geol 4870 Honors Thesis: Research (3)
- Geol 4880 Honors Thesis: Writing (3)

*May be taken multiple times, but a maximum of two hours may be applied to the degree.
**Does not count if taken to satisfy Area G1.
***Allowed for concentration in Environmental Geology only.

Area H: Minor and Additional Courses

Geology majors are not required to complete a minor.

### Minor in Geology

Students who wish to minor in geology must take 15-18 hours in courses in geology, including at least 9 semester hours at the 3000 level or above. Students taking more than 15 hours in courses in geology may count the additional hours toward their electives or may consider completing a double major. A grade of "C" or better is required in all courses counting toward the minor.

### Residency Requirement

A minimum of 30 semester hours in courses at the 3000 level and above must be completed in residence at Georgia State University with an average grade of "C" or better.

### Elementary Science Education Partners

Courses 4920, 5900, in the Departments of Biology, Chemistry, Geology, and Physics and Astronomy, are designed for juniors or seniors who wish to apply their scientific expertise in a practical way by helping an elementary school teacher with hands-on science activities. One or two credit hours may be earned in a given semester. Registration for the courses must be approved by the RISE/5900 coordinator, Department of Geology, and the dean of the college. Prerequisites for course 4920 must be completed at the time of regular registration for the semester in which the student is to be enrolled as 4920 and can be streamlined from the local coordinator. Course 4920 may be repeated for a maximum of four credit hours.

### Honors Program

The Department of Geology encourages qualified students to participate in the Honors Program. (See "Honors Program," previously described.)
The Department of Modern and Classical Languages serves a threefold purpose: to encourage an appreciation of humanistic values through the study of foreign languages, literatures, and cultures; to teach foreign languages as a means of communication; and to prepare students for academic careers and the opportunities available in the field of international business. As part of a dynamic urban university in a city of growing international awareness and status, the department is fulfilling its responsibility to meet the increasing foreign language needs of the governmental, business, and professional communities.

The department recognizes that an active command of the foreign language and a thorough exploration of the foreign culture form an essential basis for further study in the various areas of its curriculum. The department maintains a state-of-the-art multimedia Language Acquisition and Resource Center (LARC) with a digital audio laboratory with 50 student computer workstations. The digital lab serves a dual purpose in allowing both independent student access to digitized audio files and interactive software that accompanies the language texts, and also in providing a multimedia environment for teacher-led listening, speaking, and recording activities. In addition to the audio lab, the LARC features a tutoring center and resource library, as well as five stand-alone computers for student use. To assist in the development of the student’s active language skills and to provide added cultural enrichment, the LARC contains a wide range of audiovisual materials, including a growing collection of videos, CD-ROMs, and DVDs.

The department sponsors two Freshman Learning Communities each year. One group is designed for students interested in using their foreign language in international business. The other, sponsored jointly by the Department of Applied Linguistics/ESL, is in Language Studies.

For students who hope to teach at the K-12 levels, the department offers concentrations that lead to certification in French, German, Latin, and Spanish. For students who view language study as a preparation for a career in the business world, the department has two special programs: a concentration in the business language of French, German, and Spanish; and a practicum in an internationally oriented business or service organization in the metro area for qualified and interested students in international business.

For students who wish to learn a foreign language for personal enrichment, the department has a variety of courses available, including stand-alone language courses and language courses integrated with other disciplines such as literature, history, and culture. The department also offers a minor in German, which can be combined with other majors or as part of the Bachelor of Arts in Modern and Classical Languages.

The Faculty of the Department of Modern and Classical Languages includes experienced and dedicated professionals who are committed to providing a high-quality education in foreign languages and cultures. The department is supported by a range of resources, including a state-of-the-art Language Acquisition and Resource Center (LARC) and a variety of audiovisual materials.

The department is committed to meeting the increasing foreign language needs of the governmental, business, and professional communities in a dynamic urban university. As part of a growing international awareness, the department is fulfilling its responsibility to provide high-quality education in foreign languages and cultures.

For more information or to schedule an appointment, please contact the Department of Modern and Classical Languages at 841 General Classroom Building or by phone at 404/651-2265. The website for the department is http://www.gsu.edu/languages.
All foreign language majors are encouraged to consult regularly with their departmental adviser in designing and following a program of study which fits their own career objective and the requirements of their particular concentration.

Program Degree Requirements

In addition to courses in the language major, students are advised to choose courses in other areas that complement their language study. Such courses include other languages, history, philosophy, art and music, business, and education. Faculty advisers in the department are eager to discuss students’ academic plans as they design their course of study.

In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

B.A. in German

Area F: Courses Appropriate to the Major (18)

The following requirements and options are appropriate for majors in German.

1. Majors must achieve competence at the intermediate level before beginning courses at the 3000 level. They may demonstrate competence through placement exam scores, including the CLEP exam, prior study, or courses taken at Georgia State University. The following may be counted in Area F, as required (0-9 hours):
   - Grmn 1002
   - Grmn 2001
   - Grmn 2002

2. Students may complete Area F with any combination of the following (0-18 hours):
   a. Any courses in other foreign languages, 1001-2203/2501 level.
   b. Electives in the Department of Modern and Classical Languages.
      - Clas 2201
      - Clas 2202
      - Clas 2203
      - Fren 2212
      - Fren 2216
      - Grmn 2216
      - Ital 2211
      - Span 2213
      - Span 2216
   c. Electives in other departments.
      - AL 2101
      - AL 2102
      - Anth 2020
      - AH 1700
      - AH 1750
      - Econ 2105
      - Econ 2106
      - Engl 2110
      - Engl 2120
      - Engl 2130
      - EDUC 2110
      - EDUC 2120
      - EDUC 2130
      - EXC 4020
      - Film 1010
      - Hist 1111
      - Hist 1112
      - Jour 1010
      - Phil 2010
      - PolS 2401
      - WSt 2010

Area G: Major Requirements (30)

The major in German consists of 30 hours (10 courses) on the 3000/4000 level. Prerequisite for all courses on the 3000 level is German 2002. Prerequisite for all courses at the 4000 level is the completion of at least 3 of the 4 courses at the 3000 level.

1. Major Requirements (12)
   - Grmn 3301
   - Grmn 3302
   - Grmn 3311
   - Grmn 3312

2. Concentration Courses (18)
   - Grmn 4402
   - Grmn 4411
   - Grmn 4412
   - Grmn 4414

Literature Concentration

- Advanced Grammar: Morphology and Syntax (3)
- Survey of German Literature I (3)
- Survey of German Literature II (3)
- Topics in German Literature (3)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grmn 4401</td>
<td>Phonetics and Phonology</td>
<td>3</td>
</tr>
<tr>
<td>Grmn 4402</td>
<td>Advanced Grammar: Morphology and Syntax</td>
<td>3</td>
</tr>
<tr>
<td>Grmn 4411</td>
<td>Survey of German Literature I</td>
<td>3</td>
</tr>
<tr>
<td>Grmn 4412</td>
<td>Survey of German Literature II</td>
<td>3</td>
</tr>
<tr>
<td>Grmn 4421</td>
<td>Introduction to German Civilization</td>
<td>3</td>
</tr>
<tr>
<td>Grmn 4422</td>
<td>Contemporary Germany</td>
<td>3</td>
</tr>
</tbody>
</table>

**Requirements for Teacher Certification**

Students who wish to be certified to teach German in the public schools of Georgia should choose the courses listed under the “Foreign Language Education Concentration” above and the following methodology courses in the Department of Modern and Classical Languages: ForL 3021, 3022, 4025, 4026, and 4030. All students will register for Student Teaching (ForL 4061/4062/4063).

All students seeking certification in German must pass the following courses in the College of Education with a grade of C or higher: EDUC 2110, EDUC 2120, EDUC 2130, EXC 4020, and IT 3210. Students must apply formally and be admitted to the Teacher Education program in foreign languages. Application forms are available in the department (841 GCB). See “Teacher Preparation Programs” chapter of this catalog. To qualify for the Student Teaching experience, students must receive a grade of B or higher on a departmental test of oral and written proficiency in their target languages. Specific information about date and place of these exams is available in the department office (841 GCB).

In order to be recommended for K-12 certification in German, students must complete all courses taken in the Department of Modern and Classical Languages (the major and ForL courses) with a grade of B or higher.

**Bachelor of Arts in German and M.I.B. Joint Degree Program**

Highly qualified and highly motivated students interested in languages and international business may apply for this joint-degree program that leads to an undergraduate degree in German and a Master of International Business. It is a demanding program that combines classroom study of German with the international business curriculum. There will
Minor and/or Additional Courses

1. Foreign language majors are not required to take a minor. Foreign language majors who choose a minor in another department or another institution are encouraged to select courses that are appropriate to their area of concentration. Students are also urged to consider combining their major with a second major in another language or another discipline under the Double Major option.

2. Additional courses must be taken as electives to complete a minimum of 120 semester hours, exclusive of 1000/2000 physical education or military science courses. Up to 6 additional hours may go towards the major.

Minor Offerings

Students who wish to minor in a foreign language must take 15-18 hours in courses in the language, including at least 9 semester hours at or above the 2000 level. Students taking more than 15 hours in the language may count the additional hours toward their electives or may consider completing a double major. A grade of "C" or better is required in all courses counting toward the minor.

Residency Requirement

A minimum of 30 semester hours in courses at the 2000 level or above must be completed in residence at Georgia State University with an average grade of "C" or better.

Requirements for Teacher Certification

Students who wish to be certified to teach French, German, or Spanish in the public schools of Georgia should choose the courses listed under the "Certification in Teacher Education" above and the following teacher education courses in the Department of Modern and Classical Languages: Port. 4030, Port. 4035, Full 4026, and Port. 4029; all taught at the Full semester. Students desiring certification in Latin should take one of the following courses in the Department of Modern and Classical Languages: Port. 4027 and Port. 4029, both offered each Full semester. All students will register for Student Teaching (Port. 4030/4031) in the Spring semester. All students seeking certification in French, German, Latin, or Spanish must pass the following courses in the College of Education with a grade of "C" or better: EDFR 2108 (usually in Area F); EDFR 2050, 2053, 2055, 3221, EXC 2301, and EDFR 4500. EDFR 4500 will be taught in the Fall semester. Students must apply formally and be admitted to the Teacher Education Program in foreign languages. Application forms are available in the Office of Academic Assistance of the College of Arts and Sciences (714 OCHE). See "Teacher Education Programs" described earlier in this Catalog. To qualify for the Teacher Education program, students must receive a grade of "B" or better in the following courses: French, German, Latin, and Spanish majors must complete all courses taken in the Department of Modern and Classical Languages (majors and Port. courses) with a grade of "B" or better.

The Honors Program

The department encourages all qualified students to participate in the Honors Program (see "The Honors Program," previously described).

Bachelor of Arts Major in International Economics and Modern Languages

Program Admission

There are no admission requirements above the requirements for admission to the University for enrollment in the B. A. program with a major in international economics and modern languages.

Program Financial Information

There are no additional fees other than the tuition and fees charged by the University for enrollment in this program.

Program Degree Requirements

For degree credit, a minimum grade of C must be attained in Engl 1101 and 1102 and all courses in the economics common core curriculum and modern languages core curriculum. Complete descriptions of requirements for Areas A through E of the Undergraduate Core Curriculum can be found in the "University Degree Requirements and Graduation" chapter of this catalog. The number of semester credit hours required for each section is shown in parentheses.

Area F: Courses Appropriate to the Major (18)

Econ 2105 Principles of Macroeconomics
Econ 2106 Principles of Microeconomics
Math 1070 Elementary Statistics - If taken in Area D, a 1000/2000 level elective from Areas A-E may be substituted.
Grmn 2001 Intermediate German I
Grmn 2002 Intermediate German II

Note: Students who have not already attained elementary-level proficiency in their chosen language will be required to take prerequisite courses: Fren, Germ, or Span 1001 and/or 1002. In that case, the 1002 language course may be used to satisfy 3 credit hours of core requirements in Area C, Humanities and Fine Arts.

Area G: Economics Common Core Curriculum (24)

A minimum grade of C is required for all courses in this area.

Econ 3900 Macroeconomics
Econ 3910 Microeconomics
Econ 4600 Economic Development
Econ 4800 International Trade
Econ 4810 International Finance
Choose 3 elective 4000-level Econ courses (9)

Area H: Modern Languages Common Core (24) A minimum grade of C is required for all courses in this area.

Grmn 3301 Advanced German I
Grmn 3302 Advanced German II
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grmn 3311</td>
<td>Introduction to Reading German Literature</td>
</tr>
<tr>
<td>Grmn 3312</td>
<td>Introduction to Reading German Literature</td>
</tr>
<tr>
<td>Grmn 4431</td>
<td>German for International Business I</td>
</tr>
<tr>
<td>Grmn 4432</td>
<td>German for International Business II</td>
</tr>
<tr>
<td></td>
<td>Choose 2 of the following 3 courses (6)</td>
</tr>
<tr>
<td>Grmn 4402</td>
<td>Advanced Grammar</td>
</tr>
<tr>
<td>Grmn 4422</td>
<td>Contemporary German</td>
</tr>
<tr>
<td>Grmn 4435</td>
<td>Techniques of Translation</td>
</tr>
</tbody>
</table>

**Area I: Electives (12)** Choose any four 3000/4000 level courses, in consultation with the faculty advisor.

**Minor in German**

Students who wish to minor in German must take 15-18 hours in German, including at least nine semester hours at the 3000 level or above. Students taking more than 15 hours of courses in the language may count the additional hours toward their electives or may consider completing a double major. A grade of C or higher is required in all courses counting toward the minor.
Historians study various aspects of humanity’s recorded past. Some historians explore the rise and fall of empires, while others describe the everyday lives of men and women. They are interested in every period of the past and all parts of the world. Historians also examine the principles and theories that influence the writing of history. They seek to understand the forces that have structured human life and the ideas that have shaped the way people perceive and experience their worlds. Historians are concerned with change and continuity within societies and interactions among cultures. Historians pay particular attention to the effect of perspectives and values because their discipline involves the interpretation of evidence, not just the collection of facts. History can teach us many lessons, not simply about our past but also about the paradoxes and potential of our present.

The Department of History offers a wide range of courses in African, Asian, European, Latin American, Middle Eastern, and United States history. Arranged in three levels—introductory, intermediate, and advanced—these courses afford students an opportunity not only to become familiar with a body of historical knowledge but also to enhance critical skills as readers, observers, writers, and researchers. Because it emphasizes analytical and critical thinking, history prepares students for further professional training in education, international studies, journalism, law, politics, and public policy, and for all manner of careers. All students can benefit from the insights history provides into the human condition.

Program Degree Requirements

Students should complete the freshman courses in history in the core curriculum and Hist 3000 (Introduction to Historical Studies) before enrolling in other history courses numbered 3000 and above. In all lower-division history courses the department requires that majors attain a minimum grade of C.

The department requires a total of 30 hours in upper-division history. At least one course must be taken from each of the areas of American, European, and African/Asian/Latin American/Middle Eastern History. All majors must take Hist 4990 (Historical Research) after completing Hist 3000 and at least four other upper-division courses. No more than 15 hours of upper-division history may be transfer credits.

In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

B.A. in History

Area F: Courses Appropriate to the Major Field (18)

1. Select one (whichever is not taken in Area E). (3)
Degree Requirements

Degree Offered:
Bachelor of Arts
Major in History

Major should complete the following:
1. "Interdepartment Core Curriculum," previously described (specific recommendations listed below);
2. "Area F: Courses Appropriate to the Major," listed below;
3. "Major Courses," listed below; and
4. "Electives and/or Additional Courses," listed below, if needed.

Area A: Essential Skills (9)

Area B: Institutional Options (6)

Area C: Humanities and Fine Arts (6)

Area D: Science, Mathematics, and Technology (11)

Area E: Social Science (12)

Area F: Courses Appropriate to the Major (18)
1. Select one (whichever is not taken in Area C) (7)
   Hist 1111  Survey of World History to 1500 (3)
   Hist 1112  Survey of World History since 1500 (3)
   Hist 2110  Survey of United States History (3)
2. Foreign Language (6)
   Required Course:
   Lang 1002  Elementary Foreign Language II (3)
   Recommended Course (listed as an elective):
   Lang 2001  Intermediate Foreign Language I (3)

Area G: Major Courses (30)

Area H: Pre-Education Concentration

Degree Offered:
Bachelor of Arts
Major in History

Major should complete the following:
1. "Interdepartment Core Curriculum," previously described (specific recommendations listed below);
2. "Area F: Courses Appropriate to the Major," listed below;
3. "Major Courses," listed below; and
4. "Electives and/or Additional Courses," listed below, if needed.

Area A: Essential Skills (9)

Area B: Institutional Options (6)

Area C: Humanities and Fine Arts (6)

Area D: Science, Mathematics, and Technology (11)

Area E: Social Science (12)

Area F: Courses Appropriate to the Major (18)
1. Select one (whichever is not taken in Area C) (7)
   Hist 1111  Survey of World History to 1500 (3)
   Hist 1112  Survey of World History since 1500 (3)
   Hist 2110  Survey of United States History (3)
2. Foreign Language (6)
   Required Course:
   Lang 1002  Elementary Foreign Language II (3)
   Recommended Course (listed as an elective):
   Lang 2001  Intermediate Foreign Language I (3)

Area G: Major Courses (30)

Area H: Pre-Education Concentration

The Department of History offers a pre-education track for those students who plan to teach at the middle school or high school level. Students have the opportunity to take a variety of courses in U.S., European, and world history, which will provide the analytic and writing skills, the global perspective, and the historical content that they will need to teach in the public schools. Along with the B.A. in History, students earn a certificate in Pre-Education Broad Field Social Science before they enter the Alternative M.Ed. Program in Social Studies Education in the College of Education at Georgia State or a similar program elsewhere to complete the requirements for state certification.

Students in the pre-education track will take seven history courses at the 3000-4000 level distributed as follows:
1. Hist 3000  Introduction to Historical Studies (4) (should be taken first among upper-division courses)
2. U. S. History (one course)
3. European History (one course)
4. African, Asian, Latin American, or Middle Eastern History (one course)
5. Hist 4990  Historical Research (4) (Prerequisite: Hist 3000 and at least four other upper-division courses.)
4. One of the behavioral sciences: anthropology, sociology, or psychology

History as an allied field consists of three courses at the 3000-4000 level: one in U.S. history, one in European history, and one in African, Asian, Latin American, or Middle Eastern history.

Area H: Minor and Additional Courses
1. History majors must select a minor consisting of at least 15 hours in one department other than the History, including at least 3 hours at the 3000 level or above. The requirements for a minor must be fulfilled in a department that offers a baccalaureate degree and with courses at the 3000-4000 level, unless the courses are otherwise specified by the minor-granting department/school/institute. A grade of C or higher is required in all minor courses.

2. Additional courses from departments other than the major must be taken to complete a minimum of 120 hours, exclusive of 1000/2000-level physical education or military science. The department strongly recommends that majors take the fourth semester of a foreign language: Lang 2002.

Minor Offerings
Students who wish to minor in history must take 15-18 hours in history courses, including at least 9 semester hours at the 3000 level or above. Students taking more than 15 hours in courses in history may count the additional hours toward their electives or may consider completing a double major. A grade of C or higher is required in all courses counting toward the minor.

Residency Requirement
The successful completion of a minimum of 45 semester hours at a college numbered 1000 or above is required: a minimum of 30 of these 45 or more hours must be completed in residence at Georgia State University with an average grade of "C" or better.
3360 Journalism

Programs Offered:

- Bachelor of Arts in Journalism
- Concentration in Print Journalism
- Concentration in Public Relations
- Concentration in Telecommunication
- Minor in Journalism

Department of Communication
1040 One Park Place South
404/651-3200
Email: communication.gsu.edu

David Cheshier, Chair
Kathryn Fuller-Seeley, Associate Chair
Doug Barthlow, Undergraduate Adviser

The disciplines of communication are concerned with the processes and effects of human communication in a variety of contexts ranging from interpersonal communication through the mass media. The Department of Communication provides courses of study that develop knowledge and skills in managing face-to-face communication, knowledge about the nature and social functions of the mass media, and the skills necessary for communication careers. Majors are offered in the areas of film and video, journalism, and speech.

Journalism is the study of the collection, evaluation, and dissemination of current information and opinion. The journalism major seeks to prepare students for newspaper and magazine careers (print journalism), radio and television careers (telecommunication), or public relations careers. In addition, the courses in journalism are designed to be useful electives for students planning to enter other vocations who wish to become media-literate individuals.

Credit for special projects and internships is available in all majors and concentrations. Internships enable students who already have completed the appropriate course work and have met departmental eligibility criteria to take advantage of expertise in a variety of professional sectors in the metropolitan area and to tailor programs to their specific career goals.

Program Academic Regulations

All 3000-4000 level journalism courses (excluding JOUR 3500) require students to have an overall Georgia State University Institutional GPA of 2.5 prior to enrollment. See the Department of Communication’s website for more information at http://communication.gsu.edu.

Program Degree Requirements

In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

B.A. in Journalism

Major: A minimum of 36 semester hours is required.

Area A: Essential Skills (9)  
Area B: Institutional Options (4)  
Area C: Humanities and Fine Arts (6)  
Area D: Science, Mathematics, and Technology (11)
### Area E: Social Science (12)

### Area F: Courses Appropriate to the Major (18)

1. For Lang 1002, Elementary Foreign Language II (3)

(See “Foreign Language Requirement for B.A. and B.I.S. Majors,” previously described.)

2. Required Courses (12)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jour 1000</td>
<td>Introduction to Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>Jour 1010</td>
<td>Reporting I: Basic Journalism</td>
<td>3</td>
</tr>
<tr>
<td>Jour 2500</td>
<td>Communication Research and Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>Spch 1500</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
</tbody>
</table>

3. Electives: Select one course (3)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 2010</td>
<td></td>
</tr>
<tr>
<td>Anth 2020</td>
<td></td>
</tr>
<tr>
<td>Econ 2105</td>
<td></td>
</tr>
<tr>
<td>Econ 2106</td>
<td></td>
</tr>
<tr>
<td>Film 2700</td>
<td></td>
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<tr>
<td>Hist 3100</td>
<td></td>
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<td>Hist 3111</td>
<td></td>
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<td>Hist 3112</td>
<td></td>
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<tr>
<td>Hist 3140</td>
<td></td>
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<td>Hist 3150</td>
<td></td>
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<tr>
<td>Jour 3100</td>
<td></td>
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<td>Jour 3110</td>
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<td>Jour 3120</td>
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<td>Jour 3180</td>
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<td>Jour 4610</td>
<td></td>
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<tr>
<td>Jour 4770</td>
<td></td>
</tr>
<tr>
<td>Jour 4800</td>
<td></td>
</tr>
<tr>
<td>Jour 4900</td>
<td></td>
</tr>
</tbody>
</table>

### Major Courses (24)

1. Major Requirements (6)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jour 3060</td>
<td>Communication Law and Regulation</td>
</tr>
<tr>
<td>Jour 5070</td>
<td>Introduction to Mass Communication Theories</td>
</tr>
</tbody>
</table>

2. Areas of Concentration: Choose one of the following concentrations to complete remaining hours of the major. (18)

#### Print Concentration

1. Concentration Requirement (6)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jour 5020</td>
<td>Reporting II: News Gathering and Reporting</td>
</tr>
<tr>
<td>Jour 4040</td>
<td>History of the News Media</td>
</tr>
</tbody>
</table>

2. Media Practice: Select two courses. (6)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jour 3120</td>
<td>Feature Writing</td>
</tr>
<tr>
<td>Jour 3180</td>
<td>Editorial and Critical Writing</td>
</tr>
<tr>
<td>Jour 4610</td>
<td>Desktop Editing and Publishing</td>
</tr>
</tbody>
</table>

3. Media Studies: Select one course. (3)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jour 3690</td>
<td>Honors Readings</td>
</tr>
<tr>
<td>Jour 4040</td>
<td>History of the News Media</td>
</tr>
</tbody>
</table>

#### Print Concentration

1. Concentration Requirements (6)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jour 3060</td>
<td>Reporting II: News Gathering and Reporting</td>
</tr>
<tr>
<td>Jour 4480</td>
<td>Political Communication</td>
</tr>
<tr>
<td>Jour 4500</td>
<td>Visual Communication</td>
</tr>
<tr>
<td>Jour 4510</td>
<td>Media and Politics</td>
</tr>
<tr>
<td>Jour 4590</td>
<td>African-American Popular Culture</td>
</tr>
<tr>
<td>Jour 4610</td>
<td>Readings in Journalism</td>
</tr>
<tr>
<td>Jour 4630</td>
<td>International Communication</td>
</tr>
<tr>
<td>Jour 4710</td>
<td>Media Management and Marketing</td>
</tr>
<tr>
<td>Jour 4730</td>
<td>Women and Media</td>
</tr>
<tr>
<td>Jour 4810</td>
<td>Mass Media and Society</td>
</tr>
<tr>
<td>Jour 4830</td>
<td>Media and Popular Culture</td>
</tr>
<tr>
<td>Jour 4850</td>
<td>Honors Thesis Research</td>
</tr>
</tbody>
</table>

2. Media Studies: Select one course. (3)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jour 3690</td>
<td>Honors Readings</td>
</tr>
<tr>
<td>Jour 4040</td>
<td>History of the News Media</td>
</tr>
<tr>
<td>Jour 4480</td>
<td>Political Communication</td>
</tr>
<tr>
<td>Jour 4500</td>
<td>Visual Communication</td>
</tr>
<tr>
<td>Jour 4510</td>
<td>Media and Politics</td>
</tr>
<tr>
<td>Jour 4590</td>
<td>African-American Popular Culture</td>
</tr>
<tr>
<td>Jour 4600</td>
<td>Readings in Journalism</td>
</tr>
<tr>
<td>Jour 4650</td>
<td>International Communication</td>
</tr>
<tr>
<td>Jour 4770</td>
<td>Media Management and Marketing</td>
</tr>
<tr>
<td>Jour 4780</td>
<td>Women and Media</td>
</tr>
<tr>
<td>Jour 4800</td>
<td>Mass Media and Society</td>
</tr>
<tr>
<td>Jour 4810</td>
<td>Media and Popular Culture</td>
</tr>
<tr>
<td>Jour 4870</td>
<td>Honors Thesis: Research</td>
</tr>
<tr>
<td>Jour 4880</td>
<td>Honors Thesis: Writing</td>
</tr>
<tr>
<td>Jour 4900</td>
<td>Selected Topics</td>
</tr>
</tbody>
</table>
### Public Relations Concentration

1. **Concentration Requirements (12)**
   - Jour 3500, Public Relations (3)
   - Jour 3560, Public Relations Writing and Projects (3)
   - Jour 3950, Introduction to Mass Communication Research (3)
   - Jour 4540, Cases and Problems in Public Relations (3)

2. **Media Practice: Select one course. (3)**
   - Jour 4120, Feature Writing (3)
   - Jour 4180, Editorial and Critical Writing (3)
   - Jour 4610, Desktop Editing and Publishing (3)
   - Jour 4660, Corporate Communication (3)
   - Jour 4980, Internship (1-6)

3. **Media Studies: Select one course. (3)**
   - Jour 3690, Honors Readings (1-3)
   - Jour 4040, History of the News Media (3)
   - Jour 4480, Political Communication (3)
   - Jour 4500, Visual Communication (3)
   - Jour 4510, Media and Politics (3)
   - Jour 4550, African-American Popular Culture (3)
   - Jour 4770, Media Management and Marketing (3)
   - Jour 4780, Media and Society (3)
   - Jour 4800, Mass Media and Society (3)
   - Jour 4810, Media and Popular Culture (3)
   - Jour 4830, History of Telecommunication (3)
   - Jour 4850, History of Telecommunication (3)
   - Jour 4860, International Communication (3)
   - Jour 4870, Media Management and Marketing (3)
   - Jour 4880, Honors Thesis: Writing (3-6)
   - Jour 4900, Selected Topics (3)

**Telecommunication Concentration**

1. **Concentration Requirements (6)**
   - Jour 3700, Introduction to Telecommunication (3)
   - Jour 3710, Telecommunication Production I (3)

2. **Media Practice: Select three courses. (9)**
   - Jour 2650, Lighting Design for Theatre, Film, and Television (3)
   - Jour 3720, News for Telecommunication I (2)
   - Jour 4710, Telecommunication Production II (2)
   - Jour 4720, News for Telecommunication II (2)
   - Jour 4730, Special Projects in Telecommunication (3)
   - Jour 4740, Non-Fiction Scriptwriting (3)
   - Jour 4980, Internship (3)

3. **Media Studies: Select one course. (2)**
   - Jour 3690, Honors Readings (2)
   - Jour 4040, History of the News Media (3)
   - Jour 4480, Political Communication (3)
   - Jour 4500, Visual Communication (3)

**Telecommunication Concentration**

1. **Concentration Requirements (6)**
   - Jour 3700, Introduction to Telecommunication (3)

2. **Media Practice: Select three courses. (9)**
   - Jour 2650, Lighting Design for Theatre, Film, and Television (3)
   - Jour 3720, News for Telecommunication I (2)
   - Jour 4710, Telecommunication Production II (2)
   - Jour 4720, News for Telecommunication II (2)
   - Jour 4730, Special Projects in Telecommunication (3)
   - Jour 4740, Non-Fiction Scriptwriting (3)
   - Jour 4980, Internship (3)
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<tr>
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<tr>
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<td>Jour 4780</td>
<td>Women and Media</td>
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<td>Internship</td>
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<td>Jour 4840</td>
<td>News for Telecommunication II</td>
<td>(4)</td>
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<tr>
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<td>Jour 4600</td>
<td>Readings in Journalism</td>
<td>(3)</td>
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<td>Jour 4650</td>
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<td>Honors Thesis Writing</td>
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</tr>
<tr>
<td>Jour 4890</td>
<td>Selected Topics</td>
<td>(3)</td>
</tr>
</tbody>
</table>

**3. Media Studies: Select one course. (3)**

- Jour 3690 Honors Readings (3)
- Jour 4040 History of the News Media (3)
- Jour 4480 Political Communication (3)
- Jour 4500 Visual Communication (3)
- Jour 4510 Media and Politics (3)
- Jour 4590 African-American Popular Culture (3)
- Jour 4600 Readings in Journalism (3)
- Jour 4650 International Communication (3)
- Jour 4770 Media Management and Marketing (3)
- Jour 4780 Women and Media (3)
- Jour 4800 Mass Media and Society (3)
- Jour 4810 Media and Popular Culture (3)
- Jour 4870 Honors Thesis: Research (3)
- Jour 4880 Honors Thesis: Writing (3-6)
- Jour 4900 Selected Topics (3)

### Minor and/or Additional Courses

Majors in the Department of Communication’s four B.A. programs must select a minor consisting of at least 15 hours of courses in a discipline within the Department of Communication other than the major (journalism, film/video, or speech) or in another academic department/school/institute that offers a baccalaureate degree. At least 9 semester hours of minor courses must be at the 3000 level or above, unless otherwise specified by the minor-granting department/school/institute. A grade of C or better is required in all minor courses.

### Area H: Minor and Additional Courses

Majors in the Department of Communication’s three B.A. programs must select a minor consisting of at least 15 hours of courses in a discipline within the Department of Communication other than the major (journalism, film/video, or speech) or in another academic department/school/institute that offers a baccalaureate degree. At least nine semester hours of minor courses must be at the 3000 level or above, unless otherwise specified by the minor-granting department/school/institute. A grade of C or higher is required in all minor courses.

### Minor in Journalism

Students who wish to minor in one of the department’s three programs must take 15-18 hours in the specific area, including at least 9 semester hours at the 3000 level or above. Students taking more than 15 hours in courses in the specific area may count the additional hours toward their electives or may consider completing a double major. A grade of C or better is required in all courses counting toward the minor.
Programs Offered:
Bachelor of Science in Mathematics
Concentration in Actuarial Science
Concentration in Computer Information Systems
Concentration in Computer Science
Concentration in Managerial Sciences
Concentration in Secondary School Teaching
Concentration in Statistics

Minor in Mathematics

Mathematics is one of the great unifying themes in our modern culture. It is a language, a science, an art form, and a tool of tremendous power. The Department of Mathematics and Statistics, in its courses for both majors and non-majors, seeks to introduce students to this vast area of knowledge and to show them how mathematics can be used to solve problems.

The B.S. degree program in mathematics prepares a student for positions in business, industry, and government; a career in the teaching of mathematics at the secondary level; or further study in mathematics or statistics leading to graduate degrees.

Six concentrations are offered within the B.S. degree in mathematics. The concentration in actuarial science prepares a student to work as an actuary. The concentration in computer science prepares students for work in the field of management information systems. The concentration in computer science provides education in more scientific aspects of computing. The concentration in managerial sciences provides training in management modeling, problem solving, and computer-assisted decision support/expert systems technologies. The concentration in secondary school teaching prepares a student for high school teaching in mathematics. Finally, the concentration in statistics prepares students for work as applied statisticians.
Guidelines for minors in the Department of Mathematics and Statistics are given after the program descriptions.

In 1978, the department initiated a cooperative education program with International Business Machines, Inc. Over the years, the program has expanded to include many other firms. Hundreds of majors have benefited from a co-op experience.

Majors are asked to consider carefully the career objectives they wish to pursue after graduation. A particular career objective may suggest a special choice for the minor or concentration that would prepare one for that career. It also might suggest that a co-op experience would be useful. Faculty who serve as academic advisers for majors can discuss choices and concentrations that are available to majors.

### Program Financial Information
There are no extra fees, scholarships or other expenses outside of regular Georgia State University fees applicable to a B.S. degree in mathematics, other than those associated with teacher preparation (see Sections 1605 and 1610).

### Program Academic Regulations
Students must earn a grade of C or higher in all mathematics courses, including those in the core. There are course GPA requirements for all teacher preparation programs that apply to the secondary school teaching concentration (see Section 1600 for specifics).

### Program Degree Requirements
As part of the core curriculum, students must receive credit for the three calculus courses Math 2211, Math 2212, and Math 2215, and Discrete Mathematics (Math 2420). When counting the number of semester hours in Areas A, D, and F, only 3 of the 4 credit hours of each calculus course will be counted in Area A and/or D. The fourth hour, or the “rollover hour,” will be counted in Area F.

In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (section 3030) and the University Degree Requirements (see section 1400).

### B.S. in Mathematics

#### Areas A-E: Core Curriculum Recommendations

1. **Required course:**
   - Math 1113 Precalculus (3) (or a higher-level mathematics course)

2. **Required course:**
   - Math 2211 Calculus of One Variable I (4) (or a higher-level mathematics course)

#### Area F: Courses Appropriate to the Major Field (18)

1. **Required Courses:** Select the course(s) not taken in Area A or D. (7-11)
   - Math 2211 Calculus of One Variable I (4)
   - Math 2212 Calculus of One Variable II (4)
   - Math 2215 Multivariable Calculus (4)

2. **Select additional courses:**
   - Discrete Mathematics (3)

2. **Select additional courses:** to complete 18 hours in Area F. (7-11)
Area A: Essential Skills (9)
Required courses:
- Math 111: Precalculus (or a higher level mathematics course) (3)

Area B: Institutional Options (4)

Area C: Humanities and Fine Arts (6)

Area D: Science, Mathematics, and Technology (11)
Required courses:
- Math 2211: Calculus of One Variable I (or a higher level mathematics course) (4)

Area E: Social Sciences (12)

Area F: Courses Appropriate to the Major (18)
1. Foreign Language
   - For Lang. 2001: Intermediate Foreign Language I (3)
   - For Lang. 2002: Intermediate Foreign Language II (3) (For students taking Latin, Latin 2002 must pass, satisfy the Intermediate II requirement for the B.A. in mathematics.)
   - For Foreign Language Requirement for B.A. and B.S. Majors (previously described).

2. Electives:
   - Select courses to complete 18 credit hour requirement.

Major Courses (33)
1. Required Courses (18)
   - Math 2211: Calculus of One Variable I (3)
   - Math 2212: Calculus of One Variable II (3)
   - Math 2215: Multivariable Calculus (3)

2. Mathematics Electives:
   - Select courses to complete 15 additional hours of 3000/4000-level mathematics courses. (15)

Area G: Major Courses (33)
1. Required Courses (24)
   - Math 3000: Bridge to Higher Mathematics (3)
   - Math 3435: Introductory Linear Algebra (3)
   - Math 4435: Linear Algebra (3)
   - Math 4441: Modern Algebra (3)
   - Math 4661: Analysis I (3)
   - Math 4662: Analysis II (3)
   - Math 4751: Mathematical Statistics I (3)
   - Math 4991: Senior Seminar (3)

2. Mathematics Electives: Select 9 additional hours of 3000/4000-level mathematics courses, of which three hours at most may be at the 3000 level (excluding Math 3030, 3050, 3070, and 3090).

3. Additional courses must be taken as electives to complete a minimum of 120 semester hours, exclusive of 1000/2000 physical education or military science courses.

Area H: Additional Major Courses, Concentrations, Minor, and Electives
See descriptions below as to the specifics of special programs, such as the various concentrations offered. Students earning a B.S. in the Department of Mathematics and Statistics are not required to complete a minor.

Actuarial Science Concentration
An actuary is an executive who uses mathematical and statistical skills to define, analyze, and solve problems of society. Actuaries create and manage programs to reduce the adverse financial impact of the expected and unexpected events that happen to people. They are employed in business, industry, and government.

The Department of Mathematics and Statistics, in cooperation with the actuarial science program in the Department of Risk Management and Insurance, offers the Bachelor of Science with a major in mathematics and a concentration in actuarial science. This program provides strong preparation in both mathematics and actuarial science. Students completing this program may request that a suitable annotation be placed on their permanent record.

Students must receive credit for the calculus courses Math 2211, 2212, and 2215 and for Math 2420, CSc 2010, CSc 2310, Econ 2105 and Econ 2106 in the core curriculum Areas A-F or as electives.

1. Mathematics Requirements (30)
   - Math 3000: Bridge to Higher Mathematics (3)
   - Math 3435: Introductory Linear Algebra (3)
   - Math 4253: Introduction to Operations Research (3)
   - Math 4435: Linear Algebra (3)
   - Math 4610: Numerical Analysis I (3)
   - Math 4661: Analysis I (3)
   - Math 4662: Analysis II (3)
   - Math 4751: Mathematical Statistics I (3)
   - Math 4752: Mathematical Statistics II (3)
   - Math 4991: Senior Seminar (3)

2. Actuarial Science Requirements (15)
   - AS 4130: Mathematical Statistics for Actuarial Science I (3)
Additional Courses (27)

Additional courses must be taken as electives to complete a minimum of 120 semester hours, exclusive of 1000/2000 physical education or military science courses.

Note: CSci 4610. Numerical Analysis I (3) and CSci 4620. Numerical Analysis II (3) can also be selected as elective courses.

Note: Majors taking a concentration must also select Math 4441 (Modern Algebra) as an elective.

* At least 24 of the 36 hours must be at the 4000 level.

See "Additional Major Courses, Concentrations, and Electives" below for specifics of special programs such as the various concentrations offered.

B.S. in Mathematics

Majors should complete the following:
1. "Undergraduate Core Curriculum," previously described (specific recommendations listed below);
2. "Area in Courses Appropriate to the Major," listed below;
3. "Major Courses," listed below; and
4. "Additional Major Courses, Concentrations, and Electives," listed below, if needed.

Area A: Essential Skills (9)
Required courses:
Math 1113: Precalculus (or a higher level mathematics course) (3)

Area B: Institutional Opinions (4)

Area C: Humanities and Fine Arts (6)

Area D: Science, Mathematics, and Technology (11)
Required course:
Math 2211: Calculus of One Variable I (or a higher level mathematics course) (4)

Area E: Social Science (12)

Area F: Courses Appropriate to the Major (18)
1. Required Courses: Below the courses not taken in Area A or D. (3-4)
   Math 2211: Calculus of One Variable I (4)
   Math 2212: Calculus of One Variable II (4)
   Math 2215: Multivariate Calculus (4)
2. Select additional courses to complete 12 hours in Area F (10-12)

Major Courses (33) *

1. Required Courses (18)
   Math 3400: Bridge to Higher Mathematics (3)
   Math 3435: Introductory Linear Algebra (3)

   2. Select one additional course of 3 credits (exclusive of Math 3030, 3050, 3070, and 3090). (3)

   3. Computer Science Requirements (15-16)
      CSci 2310 Principles of Computer Programming I (3)
      CSci 2311 Principles of Computer Programming II (3)
      CSci 3210 Computer Organization and Programming (3)
      CSci 3410 Data Structures (3)

Select one of the following:
CSci 3320 System-Level Programming (3)
CSci 4210 Computer Architecture (4)
CSci 4320 Operating Systems (4)

4. Computer Information Systems Requirements (12)
   CIS 3210 End User Applications Programming (3)
   CIS 3300 Systems Analysis (3)
   CIS 3310 Systems Design (3)

Select one additional CIS course, preapproved by the director of undergraduate advisement. (3)

5. Additional courses must be taken as electives to complete a minimum of 120 semester hours, exclusive of 1000/2000 physical education or military science courses. (8-9)

Computer Information Systems Concentration

In cooperation with the Department of Computer Information Systems, the Department of Mathematics and Statistics offers the Bachelor of Science with a major in mathematics and a concentration in computer information systems. This program provides strong preparation in both mathematics and computer information systems. Students completing this concentration may request that a suitable annotation be placed on their permanent record. They are eligible to receive a certificate signed by the chair of the Department of Mathematics and Statistics and the dean of the College of Arts and Sciences.

Students must receive credit for the calculus courses Math 2211, 2212, and 2215 and for Math 2420, CSci 2100, and CIS 2010 in the core curriculum Areas A-F or as electives.

1. Mathematics Requirements (21)
   Math 3060: Bridge to Higher Mathematics (3)
   Math 3435: Introductory Linear Algebra (3)
   Math 4435: Linear Algebra (3)
   Math 4661: Analysis I (3)
   Math 4662: Analysis II (3)
   Math 4751: Mathematical Statistics I (3)
   Math 4991: Senior Seminar (3)

2. Select one additional upper-level mathematics course (exclusive of Math 3030, 3050, 3070, and 3090). (3)

3. Computer Science Requirements (15-16)
   CSci 2310 Principles of Computer Programming I (3)
   CSci 2311 Principles of Computer Programming II (3)
   CSci 3210 Computer Organization and Programming (3)
   CSci 3410 Data Structures (3)

4. Select one of the following:
   CSci 3320 System-Level Programming (3)
   CSci 4210 Computer Architecture (4)
   CSci 4320 Operating Systems (4)

5. Computer Information Systems Requirements (12)
   CIS 3210 End User Applications Programming (3)
   CIS 3300 Systems Analysis (3)
   CIS 3310 Systems Design (3)

Select one additional CIS course, preapproved by the director of undergraduate advisement. (3)

6. Additional courses must be taken as electives to complete a minimum of 120 semester hours, exclusive of 1000/2000 physical education or military science courses. (8-9)
Concentration in Computer Science

The Department of Mathematics and Statistics offers the Bachelor of Science in mathematics with a concentration in computer science. This program provides strong preparation in both mathematics and computer science. Students completing this program may request that a suitable annotation be placed on their permanent record.

Students must receive credit for the calculus courses Math 2211, 2212, and 2215 and for Math 2420, CSc 2010, and CSc 2310 in core curriculum Areas A-F or as electives.

1. Mathematics Requirements (21)
   - Math 3000 Bridge to Higher Mathematics (3)
   - Math 3435 Introductory Linear Algebra (3)
   - Math 4435 Linear Algebra (3)
   - Math 4661 Analysis I (3)
   - Math 4662 Analysis II (3)
   - Math 4751 Mathematical Statistics I (3)
   - Math 4991 Senior Seminar (3)

2. Computer Science Requirements (16)
   - CSc 3210 Computer Organization and Programming (3)
   - CSc 3410 Data Structures (3)
   - CSc 4520 Design and Analysis of Algorithms (4)
   - CSc 4610 Numerical Analysis I (3)
   - CSc 4620 Numerical Analysis II (3)

3. Additional Computer Science Courses (9-11)
   - Select two additional upper-level computer science courses with at least one selected from the following: (6-8)
     - CSc 3320 System-Level Programming (3)
     - CSc 4210 Computer Architecture (4)
     - CSc 4330 Programming Language Concepts (4)
     - CSc 4350 Software Engineering (4)

4. Additional courses must be taken as electives to complete a minimum of 120 semester hours, exclusive of 1000/2000 physical education or military science courses. (6-8)

Managerial Sciences Concentration

In cooperation with the Department of Managerial Sciences, the Department of Mathematics and Statistics offers the Bachelor of Science with a major in mathematics and a concentration in managerial sciences. This program provides strong preparation in both mathematics and managerial science. Students completing this program may request that a suitable annotation be placed on their permanent record.

Students must receive credit for the calculus courses Math 2211, 2212, and 2215 and for Math 2420, CSc 2010, and CSc 2310 in core curriculum Areas A-F or as electives.

1. Mathematics Requirements (21)
   - Math 3000 Bridge to Higher Mathematics (3)
   - Math 3435 Introductory Linear Algebra (3)
4. Required Mathematics Courses (6)
   Math 2105. Principles of Microeconomics (3)
   Econ 2105. Principles of Microeconomics (3)

5. Select three additional courses as electives (9)

Computer Information Systems Concentration

In cooperation with the Department of Computer Information Systems, the Department of Mathematics and Computer Science offers the Bachelor of Science in mathematics with a concentration in computer science. This program provides strong preparation in both mathematics and computer information systems. Students completing this concentration may request that a suitable amendment be placed on their permanent record. They are eligible to receive a certificate signed by the chair of the Department of Mathematics and Computer Science and the dean of the College of Arts and Sciences.

Students must receive credit for the calculus courses Math 2211, 2212, and 2215 and for Math 2420, CSc 2010, and CSc 2310 in the core curriculum Areas A-F.

1. Mathematics Requirements (18)
   Math 3000. Bridge to Higher Mathematics (3)
   Math 2435. Introductory Linear Algebra (3)
   Math 4432. Linear Algebra (3)
   Math 4661. Advanced Calculus I (3)
   Math 4662. Advanced Calculus II (3)
   Math 4751. Mathematical Statistics I (3)

2. Select two additional upper-level (three-hour) courses from mathematics courses, CSc 4610, and CSc 4620. (6)

3. Computer Science Requirements (18)
   CSc 2310. Principles of Programming I (3)
   CSc 2311. Principles of Programming II (3)
   CSc 2315. Computer Organization and Programming (3)
   CSc 3410. Data Structures (3)
   Select either CSc 4210 (Computer Architecture) or CSc 4320 (Operating Systems) (3)

4. Computer Information Systems Requirements (12)
   CSc 3220. End User Applications Programming (3)
   CSc 3500. Systems Analysis (3)
   CSc 3590. Systems Design (3)
   Select one additional CSc course, pre-approved by the Director of Undergraduate Advisement. (3)

5. Select four additional courses as electives (9)

Concentration in Computer Science

The Department of Mathematics and Computer Science offers the Bachelor of Science in mathematics with a concentration in computer science. This program provides strong preparation in both mathematics and computer science. Students completing this program may request that a suitable amendment be placed on their permanent record.

Students must receive credit for the calculus courses Math 2211, 2212, and 2215 and for Math 2420, CSc 2010, and CSc 2310 in core curriculum Areas A-F.

1. Mathematics Requirements (18)
   Math 3000. Bridge to Higher Mathematics (3)

2. Statistics Requirements: Select a two-course sequence. (6)
   Math 4751. Mathematical Statistics I (3) and
   Math 4752. Mathematical Statistics II (3) or
   Math 4547. Introduction to Statistical Methods (3) and
   Math 4548. Methods of Regression and Analysis of Variance (3)

3. Two additional courses in mathematics and/or computer science (6-7) (exclusive of Math 3030, 3050, 3070, and 3090), including one of the following:
   Math 4253. Introduction to Operations Research (3) or
   CSc 4830. System Simulation (4)

4. Managerial Sciences Requirements (15)*
   Mgs 3100. Business Analysis (3)
   Mgs 4000. Managerial Decision Making (3)
   Mgs 4020. Introduction to Business Intelligence (3)
   Mgs 4110. Analysis of Business Data (3)
   Mgs 4120. Optimal Resource Allocation (3)

5. Managerial Sciences Electives: Select one course. (3)
   Mgs 4140. Business Modeling (3)
   Mgs 4760. Total Quality Management (3)

6. Additional courses must be taken as electives to complete a minimum of 120 semester hours, exclusive of 1000/2000 physical education or military science courses. (11-12)

*Students must have satisfied the statistics requirements before enrolling in any Mgs courses.

Secondary School Teaching Concentration

This program is currently in the process of deactivation and the following program is being provided for informational and advisement purposes only for students currently enrolled in the program. No new students will be admitted to this program effective fall semester 2006.

The Department of Mathematics and Statistics offers the Bachelor of Science degree in mathematics with a concentration in secondary school teaching. One of the assumptions about teaching upon which the program is based is that an effective learning environment requires mutual respect between teacher and student. Another assumption is that effective teaching makes use of a variety of teaching techniques, including technology, and actively involves students in the learning process. The theme of the program is understanding, enthusiasm, and communication.

The secondary school teacher of mathematics has the important task of introducing students to many areas of mathematics. This task requires the teacher to have a broad education in the liberal arts; a strong background in mathematics, including algebra, geometry, and analysis; and appropriate professional education courses. Students must apply and be accepted into Teacher Education before being allowed to register for the upper-level education courses (see Section 1600 Teacher Education). A minimum overall GPA of 2.5 is required. In addition, students will need to take the Praxis I exam or have sufficient SAT scores to exempt the Praxis.

Students must receive credit for the calculus courses Math 2211, 2212, and 2215, and for Math 2420, CSc 2010, and 2310 in the core curriculum Areas A-F or as electives.
1. **Extended Core (12)**
   - EDUC 2110         Investigating Critical & Contemporary Issues in Education (3)
   - EDUC 2120         Exploring Socio-Cultural Perspectives on Diversity in Educational Contexts (3)
   - EDUC 2130         Exploring Learning & Teaching (3)
   - EXC 4020          Characteristics and Instructional Strategies for Students with Disabilities (3)

2. **Mathematics Requirements (21)**
   - Math 3000         Bridge to Higher Mathematics (3)
   - Math 3435         Introductory Linear Algebra (3)
   - Math 4435         Linear Algebra (3)
   - Math 4441         Modern Algebra I (3)
   - Math 4661         Analysis I (3)
   - Math 4751         Mathematical Statistics I (3)
   - Math 4991         Senior Seminar (3)

3. **Select one course. (3)**
   - Math 4301         College Geometry (3)
   - Math 4371         Modern Geometry (3)

4. **Select one course. (3)**
   - Math 4442         Modern Algebra II (3)
   - Math 4662         Analysis II (3)
   - Math 4752         Mathematical Statistics II (3)

5. **Computer Science Requirements (complete at least two courses in Core Area F) (9)**
   - CSc 2010         Introduction to Computer Science (3)
   - CSc 2310         Principles of Computer Programming I (3)
   - CSc 2311         Principles of Computer Programming II (3)

6. **Select one course. (3-4)**
   - CSc 3410         Data Structures (3)
   - CSc 4610         Numerical Analysis I (3)
   - CSc 4620         Numerical Analysis II (3)
   - CSc 4720         Human-Computer Interaction (4)
   - CSc 4730         Scientific Visualization (4)

7. **Upper-Level Education Courses (24). A grade of C or higher is required in these courses.**
   - IT 3210         Teaching, Learning, and Technology Integration (3)
   - EDCI 3250         Introduction to Teaching in Secondary Schools (3) (must be taken concurrently with EDMT 4560)
   - EDCI 4600         Practicum (3) (must be taken concurrently with EDCI 4630)
   - EDCI 4630         Critical Issues in Secondary Education (3) (must be taken concurrently with EDCI 4600)
   - EDCI 4750         Student Teaching in the Secondary School (9)

8. **An additional course must be taken as an elective to complete a minimum of 129 semester hours, exclusive of 1000/2000 physical education or military science courses. (2-3)**

**Statistics Concentration**

Statisticians give advice on the statistical design of experiments, conduct surveys, and analyze data. They use computers, often writing their own programs. They collaborate with specialists in fields such as biology, health sciences, medicine, economics, marketing, psychology, and sociology as well as in business and industry. They are employed in business, industry, and government. The Department of Mathematics and Statistics offers the Bachelor of Science degree in mathematics with a
concentration in statistics. Students in this program should select a minor from those fields to which statistics can be applied. Such a selection is called a related field and must be pre-approved by a departmental adviser. Examples of seven related fields are shown in section 4.

Students must receive credit for the calculus courses Math 2211, 2212, and 2215 and Math 2420, for CSc 210 and CSc 2301 or CSc 2310 in the core curriculum Areas A-F or as electives.

1. Mathematics and Statistics Requirements. (27)
   Math 3000 Bridge to Higher Mathematics (3)
   Math 3435 Introductory Linear Algebra (3)
   Math 4435 Linear Algebra (3)
   Math 4548 Methods of Regression and Analysis of Variance (3)
   Math 4661 Analysis I (3)
   Math 4662 Analysis II (3)
   Math 4751 Mathematical Statistics I (3)
   Math 4752 Mathematical Statistics II (3)
   Math 4991 Senior Seminar (3)

2. Select one course. (3-4)
   Math 4544 Biostatistics (3)*
   Math 4547 Introduction to Statistical Methods (3)*
   Math 4767 Statistical Computing (3)
   CSc 4830 System Simulation (4)
   *At most, one semester of Math 4544 and 4547 may be counted in this program.

3. Select one course. (3)
   Math 4211 Optimization (3)
   Math 4253 Introduction to Operations Research (3)
   Math 4610 Numerical Analysis I (3)

Any one of the courses not taken in group 2 (3)

4. Related Field Courses: Select 12 hours of course work in a field other than mathematics. (12) Related field courses must be pre-approved by a faculty adviser and must include at least nine hours of upper-division course work. Examples of related fields are: Actuarial Science, Biology, Computer Information Systems, Computer Science, Economics, Managerial Sciences, and Marketing.

5. Additional courses must be taken as electives to complete a minimum of 129 semester hours, exclusive of 1000/2000 physical education or military science courses. (14-15)

Minor in Mathematics

Students choosing to minor in mathematics should complete Math 2212, 2215, and nine hours of additional mathematics courses at the 3000 level or above. There are some restrictions and course selections that must be approved by the Department of Mathematics and Statistics. Students are urged to consult with members of the Department of Mathematics and Statistics to determine which courses would be most useful in their major field.
4. Select one course. (3)
   Math 4481: Modern Algebra II (3)
   Math 4502: Advanced Calculus II (3)
   Math 4752: Mathematical Statistics II (3)

5. Computer Science Requirements (complete at least two courses in Core Area F) (9)
   CSci 2010: Introduction to Computer Science (3)
   CSci 2510: Principles of Computer Programming I (3)
   CSci 2511: Principles of Computer Programming II (3)

6. Select one. (3)
   CSci 4410: Data Structures (3)
   CSci 4710: Numerical Analysis I (3)
   CSci 4720: Human-Computer Interaction (3)
   CSci 4750: Scientific Visualization (3)

7. Upper-Level Education Courses (24)
   PT 3210: Teachers and Technology (3)
   EDGE 3220: Introduction to Teaching in Secondary Schools (3)
   EDQU 4500: Practicum (3) and EDQU 4560: Principles of Mathematics Instruction (3) (must be taken concurrently)
   EDQU 4505: Critical Issues in Secondary Education (3) and EDGE 4750: Student Teaching in the Secondary School (9) (must be taken concurrently)
   (A grade of "C" or better is required in these courses)

8. Select two additional courses as electives (6)

Statistics Concentration

Statistics give advice on the statistical design of experiments, conduct surveys, and analyze data. They use computers when writing their own programs. They collaborate with specialists in fields such as biology, health sciences, medicine, economics, marketing, psychology, and sociology as well as in business and industry. They are employed in business, industry, and government. The Department of Mathematics and Computer Science offers the Bachelor of Science degree in mathematics with an emphasis in statistics. Students in this program should select a minor from those fields to which statistics can be applied. Such a relation is called a related field and must be approved by a departmental advisor. Examples of such related fields are given below in number 4.

   Students must complete at least two courses in the core curriculum Areas A-E.

1. Mathematics and Statistics Requirements (24)
   Math 5010: Bridge to Higher Mathematics (3)
   Math 5425: Introductory Linear Algebra (3)
   Math 5445: Linear Algebra (3)
   Math 5446: Methods of Regression and Analysis of Variance (3)
   Math 4601: Advanced Calculus I (3)
   Math 4612: Advanced Calculus II (3)
   Math 4751: Mathematical Statistics I (3)
   Math 4752: Mathematical Statistics II (3)

2. Select one course. (3)
   Math 4544: Biostatistics (3)
   Math 4547: Introduction to Statistical Methods (3)
   Math 5707: Statistical Computing (3)
   CSci 4490: Queueing Simulation (3)
3. Select one course: (3)  
   Math 4211: Optimization (3)  
   Math 4233: Introduction to Operations Research (3)  
   CSE 4410: Numerical Analysis I (3)  
   Any one of the courses not taken in group 2. (3)

Note: At least one semester of Math 4544 and 4547 may be counted in this program.

4. Related Field Courses: Select twelve hours of coursework in a field other than mathematics. (12)

Note: Related field courses must be approved by a faculty advisor, and must include at least nine hours of undergraduates coursework. Examples of related fields are: Agricultural Science, Biology, Computer Information Systems, Computer Science, Decision Sciences, Economics, and Marketing.

5. Select six additional courses as electives. (18)

Note: CSE 2013 and 2030 should be taken here if not completed as part of the core curriculum.

**B.S. in Computer Science**

Computer science is the systematic exploration of all aspects of computation. The primary focal point is the use and limitations of a modern high-speed electronic computer.

The B.S. in computer science provides strong preparation in the fundamental principles and processes of computation and their applications in business. In addition, the program provides the preparation for the application of these principles to problems in the area of business.

Majors should complete the following:

1. "Undergraduate Core Curriculum," previously described (specific recommendations listed below).
2. "Area F: Courses Appropriate to the Major," listed below.
4. "Other under Additional Courses," listed below, if needed.

   Students must receive credit for the calculus courses Math 2211, 2212, and 2213, the discrete mathematics course Math 2423, and the introductory computer science courses CSE 2013 and 2310 in the core curriculum Areas A-E.

**Area A: Essential Skills (9)**

   Required course:
   Math 1113: Precalculus (or a higher level mathematics course) (3).

**Area B: Institutional Options (4)**

**Area C: Humanities and Fine Arts (6)**

**Area D: Science, Mathematics, and Technology (11)**

   Required course:
   Math 2211: Calculus of One Variable I (or a higher level mathematics course) (4)

**Area E: Social Science (12)**
Area E: Courses Appropriate to the Major (16)
1. Required Course(s): Select the course(s) not taken in Area A or D.
   Math 2112: Calculus of One Variable II (4)
   Math 2215: Multivariable Calculus (4)

2. Select additional courses to complete 15 hours in Area E.

Major Requirements (48)
1. In addition to the courses placed in the core curriculum, such as Phys 2211K and 2212K, all computer science majors must complete Math 2029 (Mathematical Models for Computer Science) and Phys 2400 (Electromechanics) (8)

2. Computer Science Requirements (27)
   CS 2311: Principles of Programming II (3)
   CS 2320: Computer Organization and Programming (3)
   CS 3320: System-Level Programming (3)
   CS 3410: Data Structures (3)
   CS 4210: Computer Architecture (3)
   CS 430: Programming Language Concepts (3)
   CS 4450: Software Engineering (3)
   CS 4520: Design and Analysis of Algorithms (3)
   CS 4610: Numerical Analysis I (3)

3. Select one course (3)
   CS 4220: Compiler Principles (3)
   CS 4230: Compiler Networks (3)
   CS 4250: Introduction to Parallel Programming (3)
   CS 4260: Operating Systems (3)

4. Select four from the courses below and those not taken in item 3 above (21)
   CS 2319: Writing with Systems Programming (3)
   CS 4150: Introduction to Computers (3)
   CS 4159: Automata (3)
   CS 4620: Numerical Analysis II (3)
   CS 4710: Database Systems (3)
   CS 4720: Human-Computer Interaction (3)
   CS 4730: Scientific Visualization (3)
   CS 4810: Artificial Intelligence (3)
   CS 4820: Computer Graphics Algorithms (3)
   CS 4850: System Simulation (3)
   and others approved by the Department

Additional Courses (12)
Select four additional courses as electives (12)

Minor and/or Additional Courses
1. Students earning a B.A. or B.S. in the Department of Mathematics and Computer Science are not required to complete a minor.
2. Additional courses must be taken in addition to complete a minimum of 330 semester hours, exclusive of 1000/2000 physical education or military science courses.

Minor Offerings

Students choosing to minor in computer science should complete CS: 2311 and 3410 and 9 hours of additional computer science courses at the 3000 level or above. Students should check prerequisites carefully before enrolling in courses at the 3000 level and above. Consultation with an advisor in computer science is recommended. Students majoring in mathematics may not include CS: 4900 or 4920 in the minor.

Students choosing to minor in mathematics should complete Math 2212 and 2213 and 9 hours of additional mathematics courses at the 2000 level or above. Students are urged to consult with members of the Department of Mathematics and Computer Science to determine which courses would be most useful in their major field.

Residency Requirement

Degree candidates must earn 30 semester hours at Georgia State University in courses at the 3000 level or above with an average grade of "C" or better. At least one half of the courses comprising the major or 11 semester hours in the major, whichever is less, must be taken at Georgia State University.

Honors Program

The department encourages qualified students to participate in the Honors Program. (See "Honors Program," previously described.)
The Department of Military Science, most often referred to as the Reserve Officer’s Training Corps (ROTC), offers an introduction to the opportunities available in the United States Army, Army Reserve, and Army National Guard. This basic course (MSL 1000 and 2000 series) provides college freshmen and sophomores a unique and challenging curriculum, and it requires no obligation to military service. The advanced program (MSL 3000 and 4000 series) conducted at Georgia State University is designed for students with two years of undergraduate or graduate study remaining. The upper-level program requires an obligation on the student to serve in the Army National Guard, Army Reserve, or on Active Duty as a commissioned officer. Entering ROTC can be personally, physically, and financially rewarding. Stipends of $450-500 per month as well as scholarship opportunities are available.

An interdisciplinary minor in advanced leadership and management is designed specifically for those individuals who are planning a career in the U.S. Army as commissioned officers. This minor may not be used as a substitute for any minor required by a student’s academic major and cannot be considered as a student’s area of concentration. The Undergraduate minor in Advanced Leadership and Management is intended for students whose major does not require a specific minor, thereby permitting this minor to fulfill that requirement. Students who complete the minor will be prepared for military service and positions of higher responsibility and leadership within the civilian work place.

**Program Degree Requirements**

**Minor in Advanced Leadership and Management**

1. A cumulative Georgia State University grade-point average of 2.0.
2. All courses for the minor must be taken at the 3000 level or above.
3. No more than 6 hours may be taken in any department/school/institute.
4. A grade of "C" or better is required in all minor courses.
5. Completion of courses required for major.
6. Minor courses cannot be from a major area.

**3420 Military Science and Leadership**

**Programs Offered:**
- Minor in Advanced Leadership and Management
  - Concentration in Human Behavior
  - Concentration in Military History
  - Concentration in Management
  - Concentration in National Security Studies

**Faculty**

- Arlene L. Croft, Chair

**General Minor Requirements**

1. A cumulative Georgia State University grade-point average of 2.0.
2. All courses for the minor must be taken at the 3000 level or above.
3. No more than 6 hours may be taken in any department/school/institute.
4. A grade of "C" or better is required in all minor courses.
5. Completion of courses required for major.
6. Minor courses cannot be from a major area.

**Advanced Leadership and Management Requirements**

1. Acceptance into the program by the Professor of Military Science (PMS) and the BBS council.
2. A grade point average of 3.0 or better in all military science courses.
3. Must be enrolled in the Advanced Leadership and Management program.
4. Successful completion of advanced camp (5 weeks, summer session).
5. HIS 4990: War in Europe and America since 1560 (3)
6. Select one course (3)
   - Engr 3110: Technical Writing (3)
   - Engr 3120: Business Writing (3)
   - Engr 3110: Advanced Grammar (3)
   - Soc 3010: Advanced Public Speaking (3)
   - Soc 3210: Business and Professional Communication (3)
Advanced Leadership and Management Requirements

1. Acceptance into the program by the Professor of Military Science (PMS) and the Bachelor of Interdisciplinary Studies (BIS) council.
2. A grade-point average of 2.0 or higher in all military science courses.
3. Must be enrolled in the Advanced Military Science program.
4. Successful completion of advanced camp (5 weeks, summer session).
5. Hist 4900 War in Europe and America Since 1500 (4)

6. Select one course. (3)
   - Engl 3110 Technical Writing (3)
   - Engl 3130 Business Writing (3)
   - Engl 3210 Advanced Grammar (3)
   - Spch 3010 Advanced Public Speaking (3)
   - Spch 3210 Business and Professional Communication (3)

7. Select two courses. Only one course may be chosen from each concentration (6)

   **Human Behavior Concentration**
   - Psy 3110 Psychology of Interpersonal Behavior (3)
   - Psy 3560 Leadership and Group Dynamics (3)
   - Psy 4160 Theories of Personality (3)

   **Military History Concentration**
   - Hist 3590 United States in the 20th Century (2)
   - Hist 4550 Foreign Relations of the United States (3)
   - Hist 4600 Russia and the Soviet Union since 1861 (3)
   - Hist 4610 Modern Eastern Europe (5)
   - Hist 4790 The Middle East since 1800 (3)

   **Management Concentration**
   - BCom 3950 Fundamentals of Business Communication (3)
   - Mgt 3130 Management Concepts, Theory, and Practice (3)
   - Mgt 4970 Introduction to Organizational Communication (3)

   **National Security Studies Concentration**
   - PolS 3400 International Politics (3)
   - PolS 3450 United States Foreign Policy (3)
   - PolS 4390 Studies in Foreign Policy and International Politics (2)
   - PolS 4390 Constitutional Law I (3)
   - PolS 4210 Politics of Developing Countries (3)
   - PolS 4245 Politics of Russia and Eastern Europe (3)
   - PolS 4290 Studies in Comparative Politics (3)
   - PolS 4460 U.S. National Security Policy (3)

Each student will select an Advanced Leadership and Management minor adviser (Military Science Instructor) and co-develop an appropriate selection of courses. Prior to enrollment, a student’s minor adviser must approve, in writing, all courses for minor credit that are not on the above list. The BIS Council will review any minor proposal that includes more than six hours of courses that are not listed above.

Students must complete one of the following programs of instruction to qualify for a commission in the U.S. Army:

Advanced Leadership and Management Requirements

1. Acceptance into the program by the Professor of Military Science (PMS) and the Bachelor of Interdisciplinary Studies (BIS) council.
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<thead>
<tr>
<th>Standard:</th>
<th>MSL 1000-4000 level courses</th>
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<tbody>
<tr>
<td></td>
<td>Leader Development and Assessment Course (Ft. Lewis, WA – Summer)</td>
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<tr>
<th>Basic Progression:</th>
<th>Leader’s Training Course (Ft. Knox, KY – Summer)</th>
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<tr>
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<td>MSL 3000-4000 level courses</td>
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<tr>
<th>JROTC-ROTC:</th>
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<th>Advanced Cadet Commissioning Training:</th>
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</tbody>
</table>
School of Music

Haas-Howell Building, Room 520
404/651-3676
http://www.music.gsu.edu

John B. Haberlen, Director
David Myers, Associate Director / Undergraduate Director

Faculty
John H. Haberlen, D.M.A. (University of Illinois), Professor of Music and Middle-Sec-
dondary Education and Instrumental Tech-
nology and Director of the School of Music.
Richard Collwell, B.A. (University of Illinois), Visiting Professor of Music.
B. Richard Cooksey, Ph.D. (University of Ge-
orgia), Professor of Music and Executive
Director of the Wills Center for the Per-
ing Arts.
Carol Lewis, D.M.A. (Eastman School of Mu-
sic), Professor of Music.
K. Lee Gray, Ph.D. (University of North Car-
olina), Professor of Music.
Jack A. Bell, B.S. (Oberlin College), Associate Professor of Music.
Rusty J. Beam, B.S.R. (Georgia State Uni-
versity), Associate Professor of Music.
Thomas W. Godfrey, Ed.D. (University of Illinois), Associate Professor of Music.
David K. Myers, Ph.D. (University of Michigan), Associate Professor of Music and As-
sociate Director of the School of Music.
John C. Nelson, Ph.D. (California State Univer-
sity), Associate Professor of Music.
Oliver Salter, M.S. (Central State of Mis-
souri, Associate Professor of Music.
Frederick J. Taylor, D.M.A. (Temple Univer-
sity), Associate Professor of Music.
Susan E. Terry, Ph.D. (Indiana University), Associate Professor of Music.
Robert G. Thompson, Ph.D. (University of California, San Diego), Associate Professor of Music.
Gordon J. Verity, D.A. (University of North-
cern Colorado), Associate Professor of Music.
Thomas Woodhouse, Ph.D. (University of Minnesota), Associate Professor of Music.
Marvin Griffin Center, Ph.D. (University of Colum-
bia), Associate Professor of Music.
W. Dwight Coleman, M.M. (Northwestern Univer-
sity), Assistant Professor of Music.
Nick J. Donato, D.M.A. (Cleveland Institute of Music), Assistant Professor of Music.
James L. Havelock, Ph.D. (University of Florida), Assistant Professor of Music.
Sarah Martin, B.A. (Agnes Scott College), As-
sistant Professor of Music.
Ronald J. Scavone, Ph.D. (Ohio University), Assistant Professor of Music.
John H. Head, M.M. (Gordon State College), In-
structor in Music.
Marta Grujic-Dasko, D.M.M. (Ameronista Musi-
cale Chigiassu), Professor of Music.
Jeffrey J. Hayden, D.M.A. (University of Texas), Professor of Music.
Furman Kallman, M.M. (University of Missouri), Assistant Professor of Music.
John W. Otwell, Ph.D. (Georgia State Univer-
sity), Assistant Professor of Music.

The mission of the School of Music is to provide a comprehensive, rigorous, and innovative academic program that is consistent with the urban context and mission of Georgia State University and that serves the pursuit of artistic, professional, and scholarly excellence through experiences of lasting value for all stakeholders.

The School of Music meets this mission by providing all university students with courses designed to help them understand and enjoy music, and by offering Bachelor of Music and Bachelor of Science degrees that prepare students for careers in music or further study at the graduate level. The undergraduate degrees in music include specialized programs in music education, music composition, jazz studies, music recording technology, and music management. In addition to courses and degree programs, the School of Music offers concerts, recitals, lectures, and workshops that are open to all students and the community.

The School of Music is located in the historic Fairlie-Poplar District in downtown Atlanta. The School is dedicated to providing a comprehensive, rigorous, and innovative academic program that is consistent with the urban context and mission of Georgia State University and that serves the pursuit of artistic, professional, and scholarly excellence through experiences of lasting value for all stakeholders.

The School of Music offers honors courses in music. The School of Music also offers scholarships that are awarded to students based on their academic achievement and musical merit.

The School of Music is located in the historic Fairlie-Poplar District in downtown Atlanta. Four buildings comprise the Music Complex: the Haas-Howell Building at 75 Poplar Street; the Rialto Center for the Performing Arts at 80 Forsyth Street; the Standard Building at 92 Luckie Street; and the Aderhold Learning Center at 60 Luckie Street, which houses instrumental and choral rehearsal halls. Some classes are held in the Arts and Humanities Building at 10 Peachtree Center Avenue. Chamber music, faculty, and student recitals
are presented in the Kopleff Recital Hall in the Arts and Humanities Building. Large ensembles perform throughout the academic year in the Rialto Theater, an 850-seat, state-of-the-art performance venue located in the heart of downtown Atlanta.

Program Admission
Applicants to the Bachelor of Music degree program must meet the entrance requirements of the School of Music and those of Georgia State University. Please refer to the Undergraduate Admissions section 1100 of this catalog for information concerning admission requirements to the university.

Students who wish to apply for admission to the School of Music should contact the School of Music office or consult the website to request application materials and to make an appointment for an audition. Applicants to the Bachelor of Music degree program are required to audition in one of the following performance areas: voice, keyboard, brass, woodwind, string, or percussion. They must also take music placement tests that are designed to assess a student’s existing skills (pitch and rhythmic discrimination), music reading skills, and knowledge of terms and symbols of music.

Admission to the degree program in music is based on (1) the level of performance skill demonstrated in the audition, (2) the results of the music placements tests, and (3) the availability of openings in the various performance areas.

Applicants to the Bachelor of Science degree in music management must audition and interview for admission. The interview includes an assessment of interest, background, and basic music skills.

Music majors previously accepted by the School of Music must re-audition for reentry after an absence of two consecutive academic terms (not counting the summer session).

Audition Requirements
Voice (to be performed from memory)
1. Two songs in contrasting styles from the standard concert repertory; one in English and one in a foreign language.
2. Scales.
4. Transfer students are required to submit a repertoire list of works studied to aid in determining applied music level.

Piano (to be performed from memory)
1. All major and minor scales (natural, melodic, and harmonic forms), 4 octaves, in 16ths; metronome speed of quarter note: 60.
2. All major and minor arpeggios, 4 octaves, in 16ths; metronome speed of quarter note: 60.
3. A two-part invention, three-part invention, or prelude and fugue from the "Well-Tempered Clavier" of J. S. Bach.
4. A fast movement of a sonata by Haydn, Mozart, or Beethoven.
5. A work from the romantic period or the twentieth century.

Organ
1. All major and minor scales (natural, melodic, and harmonic forms), 4 octaves, in 16ths; metronome speed of quarter note: 60.
2. All major and minor arpeggios, 4 octaves, in 16ths; metronome speed of quarter note: 60.
4. One chorale prelude by Johannes Brahms, Flor Peeters, or Helmut Walcha.

Woodwinds, Brass, and Strings
1. All major scales.
2. A standard etude or composition in a major, in a minor, or in a technical exercise.
3. A composition in a show tune, demonstrating the student's ability to work with a specific performance style.

The Bachelor of Music degree requires all music students to have a general education core in the arts and humanities. The music major electives include general degree requirements, courses in musical foundations, and options in the student's concentration of their choice. Foundation courses include music performance (selected below under "The Applied Clusters"), music theory, and music history/american studies.
<table>
<thead>
<tr>
<th>Instrument</th>
<th>Requirements</th>
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| Harp       | 1. Slow scales, one and one-half octaves, hands alone.  
2. One study selected from “Exercise et Etudes” of Lariviere (slow to moderate tempo), one of the “Preludes Intimes” by Salzedo, and one study selected from the Lawrence-Salzedo “Method for the Harp.”  
3. A selected romantic, classical, or contemporary piece. |
| Guitar     | 1. Three minor and minor scales in two octaves; three major and minor scales in three octaves. (Segovia edition)  
2. A composition of moderate difficulty from any period.  
3. A study or exercise demonstrating an understanding of various techniques such as legato, arpeggios, and barres.  
4. Ability to sight read a composition of moderate difficulty. |
| Jazz Piano | 1. Perform and improvise on two jazz compositions in contrasting styles (Latin, swing, ballad).  
2. Improvise on a 12-bar blues in F or Bb.  
3. Demonstrates proper chord voicings.  
4. Sight reading. |
| Jazz Saxophone/Trombone/Trumpet | 1. Perform and improvise on two jazz compositions in contrasting styles (Latin, swing, ballad).  
2. Improvise on a 12-bar blues in F or Bb.  
3. Perform a jazz guitar transcription.  
4. Improvise over a 12-bar blues in F or Bb.  
5. Single line sight reading.  
6. Chord change sight reading (voicings). |
| Jazz Bass | 1. Perform melody and walking bass lines on two jazz compositions in contrasting styles (Latin, swing, ballad).  
2. Improvise on two jazz compositions in contrasting styles (Latin, swing, ballad).  
3. Improvise over a 12-bar blues in F or Bb.  
4. Single line sight reading.  
5. Chord change sight reading (voicings). |

**Percussion**

- Performing ability on specified rudimentary studies, etudes, and compositions.
- Drumset performance (jazz studies students) in jazz, Latin, basic shuffle and big band.
- Follow instructions from detailed information available at [http://www.music.gsu.edu](http://www.music.gsu.edu)
4. Improvise over a 12-bar blues in F or Bb.
5. Single line sight reading.
6. Chord change sight reading (bass lines).

A list of suggested jazz tunes for auditions is available in the office of the School of Music.

Program Financial Information

All applicants to the School of Music are automatically considered for talent-based scholarships. Program fees include locker, laboratory, and recital expenses associated with certain programs, classes, and degree requirements. Every student registering for an Applied Music course will be charged an Applied Music fee, in addition to matriculation and tuition fees and music program fees. For each 1000 or 6000-level Applied Music course, a $75.00 fee will be charged. For all other Applied Music courses, a $150.00 fee will be charged.

Program Academic Regulations

Undergraduate music degrees (B. Mu and B.S.) require students to take general education courses in the sciences and humanities (see section listing general degree requirements), courses in musical foundations, and courses in a concentration of their choice. Foundation courses include music performance (described below under “The Applied Cluster”), piano, music theory, and music history/literature. In addition to foundation courses, students must complete courses in a concentration. Available concentrations for the B. Mus degree include performance (voice, guitar, keyboard, and orchestral instruments), composition, music technology (recording), music education, and jazz. The music management curriculum is available only through the B.S. degree. Some concentrations have specializations or emphases that are detailed below.

Advisement

Students are expected to meet with their faculty advisers every semester of residence. At first, a student should meet with the associate director of the School of Music to receive advisement. Once a decision has been made regarding a student’s choice of concentration, the student will be assigned a faculty adviser. Thereafter, the student will meet with this adviser each semester.

Should a student decide that a change of concentration is desired, the student should apply for such a change with the associate director of the School of Music.

Explanation of Applied Music Levels

Applied music consists of individual or small-group performance instruction in a student’s principal performing medium (voice, piano, trumpet, flute, etc.). All music majors must study applied music as part of their degree programs.

1000 level: Introductory. May be used by students who are admitted to the music degree program but who wish to study in a secondary area. It applies to degree requirements in each principal performing medium. Authorization is required. One credit hour per semester; one-half-hour lesson each week.

2000 level: Lower level. For entering freshmen and sophomores in all Bachelor of Music concentrations. One or two credit hours per semester; one-hour lesson per week.

3000 level: Concentration. Required of all juniors and seniors whose concentration is not in performance; juniors and seniors in the composition concentrations are required to enroll at this level for their applied performance requirements. One or two credit hours per semester; one-hour lesson per week.

4000 level: Major. Required of all seniors in all concentrations. May be used by students who are admitted to the music degree program as part of their degree requirements.

Concert Attendance (Mus 110)

Concert attendance (Mus 110) is required of all music majors. Although the course shows on a student’s transcript, it carries no credit; there is no fee for concert attendance. To fulfill the requirements for the Bachelor of Music degree, students must receive a grade of “C” for the number of concerts of Mus 110 required by their concentration or receive a grade of “S” for each semester of applied music required while attending Georgia State University.

Selecting a Concentration

Undergraduate students who plan to complete a Bachelor of Music degree in any of the following concentrations offered by the School must pass the Qualifying Exam for entrance to these concentrations during their fourth semester of applied study:

- Performance
- Theory
- Jazz Studies
- Composition
- Music Education

Requirements for each concentration are available from the School of Music office. Students wishing to become candidates for music industry degrees should consult with their music industry program advisors regarding concentration requirements.

Musical Ensembles

Every student who is registered for applied music is required to enroll in a coordinated ensemble. String, woodworking, brass, and percussion students should enroll in Mus 3060 or Mus 3070. Voice and wind students should enroll in Mus 3090 or Mus 3090x. Keyboard students may enroll in Mus 3060, 3070, 3090x, or 3090 according to their major degree requirements.

When possible, students’ preferences for a musical ensemble will be honored. Unfortunately, it may not be possible in all cases to assign a student to the ensemble of his or her choice. A student may be required to perform in more than one ensemble. Factors considered in making assignments will include the specific needs and abilities of the student and the requirements of the various ensembles.

Candidates for the Bachelor of Music degree (except music education and music industry majors) are required to complete a minimum of 8 credit hours of ensemble. Only one credit hour of ensemble per semester may be applied to the total. Assignments to specific ensembles are made throughout the academic year in the Wesley Theater, a 500-seat, state-of-the-art performance venue located in the heart of downtown Atlanta.
Musical ensembles (choral groups, jazz ensembles, orchestra, and wind ensembles) are open to all Georgia State University students by audition. Non-music majors should contact the School of Music or the appropriate instructor for information on scheduling an audition.

Every student who is registered for applied music is required to enroll in a conducted ensemble. String, woodwind, brass, and percussion students are generally assigned to symphonic band, symphonic wind ensemble, and/or orchestra. Voice and keyboard students typically enroll in choral society, university singers, or women's chorus. A music student may be required to perform in more than one ensemble. Factors considered in making assignments will include the specific needs and abilities of the student and the requirements of the various ensembles.

All music majors (except music education) are required to complete a minimum of eight credit hours of ensemble. Only one credit hour of ensemble per semester may be applied to the total. Assignments to specific ensembles are made each fall semester through "pool" auditions, which are required for all students in the school. Students are required to perform in those ensembles to which they are assigned.

The Applied Cluster
To insure comprehensive development in performing, all music majors are required to register for and participate in the following performing activities: a) private study (applied music); b) chamber music/performance laboratory; and c) large conducted ensemble, i.e. wind ensemble/band, choir/chorus, or orchestra (jazz band may count 4 semesters only for students in jazz studies concentration; vocal jazz does not count as a large ensemble). Students may be required to participate in studio classes as scheduled by private instructors. In addition, students must attend labs/master classes as required by studio instructors. Some programs require that students register for credit in chamber music. Those not required to register for credit must register for chamber music under Mus 4010. These activities are collectively known as the Applied Cluster. Students must register for large ensemble and chamber music or performance laboratory during each semester of applied music study.

In general, music majors must register for the applied cluster for eight academic terms. The exceptions to this policy are in the music education and music management concentrations.

Concert Attendance (Mus 1100)
Concert attendance (Mus 1100) is required of all music majors. Although the course shows on a student's transcript, it carries no credit; there is no fee for concert attendance. To fulfill the requirements for the Bachelor of Music degree, students must receive a grade of "S" for the number of semesters of Mus 1100 required by their concentration. Transfer students must fulfill Mus 1100 for the number of semesters required to earn their degree, to a maximum of six. Credit may be granted for documented concert/recital attendance requirements at prior institutions.

Program Degree Requirements
In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

Additional electives and requirements as stipulated in information provided by the Associate Director's office and the student's academic adviser in the School of Music.

Musical ensembles (choral groups, jazz ensembles, orchestra, and wind ensembles) are open to all Georgia State University students by audition. Non-music majors should contact the School of Music or the appropriate instructor for information on scheduling an audition.

Every student who is registered for applied music is required to enroll in a conducted ensemble. String, woodwind, brass, and percussion students are generally assigned to symphonic band, symphonic wind ensemble, and/or orchestra. Voice and keyboard students typically enroll in choral society, university singers, or women's chorus. A music student may be required to perform in more than one ensemble. Factors considered in making assignments will include the specific needs and abilities of the student and the requirements of the various ensembles.

All music majors (except music education) are required to complete a minimum of eight credit hours of ensemble. Only one credit hour of ensemble per semester may be applied to the total. Assignments to specific ensembles are made each fall semester through "pool" auditions, which are required for all students in the school. Students are required to perform in those ensembles to which they are assigned.

The Applied Cluster
To insure comprehensive development in performing, all music majors are required to register for and participate in the following performing activities: a) private study (applied music); b) chamber music/performance laboratory; and c) large conducted ensemble, i.e. wind ensemble/band, choir/chorus, or orchestra (jazz band may count 4 semesters only for students in jazz studies concentration; vocal jazz does not count as a large ensemble). Students may be required to participate in studio classes as scheduled by private instructors. In addition, students must attend labs/master classes as required by studio instructors. Some programs require that students register for credit in chamber music. Those not required to register for credit must register for chamber music under Mus 4010. These activities are collectively known as the Applied Cluster. Students must register for large ensemble and chamber music or performance laboratory during each semester of applied music study.

In general, music majors must register for the applied cluster for eight academic terms. The exceptions to this policy are in the music education and music management concentrations.

Concert Attendance (Mus 1100)
Concert attendance (Mus 1100) is required of all music majors. Although the course shows on a student's transcript, it carries zero credit; there is no fee for concert attendance. To fulfill the requirements for the Bachelor of Music degree, students must receive a grade of "S" for the number of semesters of Mus 1100 required by their concentration. Transfer students must fulfill Mus 1100 for the number of semesters required to earn their degree, to a maximum of six. Credit may be granted for documented concert/recital attendance requirements at prior institutions.

Program Degree Requirements
In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

Additional electives and requirements as stipulated in information provided by the Associate Director's office and the student's academic adviser in the School of Music.

Selecting and Applying to a Concentration
Undergraduate students who plan to complete a Bachelor of Music degree in any of the following concentrations offered by the school must pass the Qualifying Exam for entrance to these concentrations during their fourth semester of applied study: Performance, Theory, Jazz Studies, Recording Technology, Composition, and Music Education.

Requirements for each concentration are available from the School of Music office. Students wishing to become candidates for music management degrees should consult with their music management program adviser regarding concentration requirements.
Pre-Education Concentration

The School of Music offers a concentration in music education to prepare students for teaching in elementary and secondary schools in the specialties of choral/general music and instrumental music.

In addition to the general requirements for entry into teacher education ("Teacher Preparation" section 1600), students who plan to concentrate in music education must meet the following requirements of the School of Music: they must be interviewed by the music education faculty, who will evaluate (1) their statement of career goals and philosophy of teaching, (2) academic and musical achievements, and (3) personal characteristics.

Students who meet the above requirements may enroll in music education methods courses at the 3000 and 4000 levels. To be retained in the music education concentration, students must maintain musical and academic standards, which consist of grades of B or higher in all music education methods courses and proficiency in keyboard, guitar and, depending on the specialization, voice, brass, woodwind, strings or percussion.

Prior to student teaching, students will be evaluated by the faculty to determine their qualifications for student teaching. These qualifications are (1) an overall GPA of 2.5 or above, (2) a GPA of at least 2.5 in all music courses, (3) grades of C or higher in all of the courses in the concentration, and (4) grades of B or higher in all music education methods courses. In addition, students must have demonstrated their teaching competence as determined by the music education faculty and must demonstrate a record of professional attributes and personal behaviors suitable for placement in a school with children.

Application for Entry to Teacher Education

Music education majors must file a formal application for entry into teacher education using the form available in the College of Education's Office of Academic Assistance (also available at http://education.gsu.edu/aae/index_Under.htm) or supplied by the music education faculty. Students must apply for entry into teacher education concurrent with their applications for practicum/ internship (MUS 4260 or 4310). This normally occurs upon completion of 60 hours of course work, including courses required in Areas A through D and EDUC 2110. An overall cumulative GPA of 2.50 is required, and students must have passed the GACE I (a test of basic reading, writing, and mathematics skills) and Regents’ exams.

B.Mu. in Music

Areas A-E: Core Curriculum Recommendations

1. Area A: Essential Skills (9)
2. Area B: Institutional Options (4)
3. Area C: Humanities and Fine Arts (6)

Recommend Bachelor of Music students complete three hours of Fine Arts through lower-division music courses not included in Area F.

Area D: Sciences, Mathematics, and Technology (11)

Area E: Social Science (12)

Area F: Courses Related to the Major (18)

1. Required Courses (12)
   - Area C: It is recommended that Bachelor of Music students complete three hours of Fine Arts through lower-division music courses not included in Area F.

2. Applied Lessons (four semesters) (6)
   - Select one of the following combinations:
     - Applied Music 2000 (1) (four semesters) and Group Instruction in Piano (1) (two semesters) or
     - Applied Music 2000 (1) (two semesters) and Applied Music 2003 (2) (two semesters)

   * Lower division chorus, orchestra, or wind ensemble

The following concentration descriptions include the 18 hours used in Area F as indicated above.

Composition Concentration

1. Performance Requirements* (25)
   - Applied Music 2000 (Principals) (1)
   - Applied Music 3020 (Principals) (2)
   - Applied Music 5021 (Principals/Practicum) (2)
   - Select one of: Mus 1060 (Wind Ensemble), Mus 1070 (Orchestra), or Mus 1080 (Choral Ensemble) (4)
   - Area A: One Credit Requirement (9 hours) (9)
   - Area B: Group Instruction in Piano (1) (6-1)
   - Area C: Group Instruction in Piano II (6-1)
   - Area D: Group Instruction in Piano III (6-1)
   - Area E: Group Instruction in Piano IV (6-1)

2. Applied Lessons (four semesters) (6) Select one of the following combinations:
   - Applied Music 2000 (1) (four semesters) and Group Instruction in Piano (1) (two semesters) or
   - Applied Music 2000 (1) (two semesters) and Applied Music 2003 (2) (two semesters)

   The concentration descriptions below include the 18 hours used in Area F as indicated above.

Composition Concentration

1. Performance Requirements (25)
2. Theory/Composition Requirements (42)

Applied Composition 3000 (4)
Applied Composition 4000 (4)

Mus 1440 Theory I (3)
Mus 1450 Theory II (3)
Mus 1540 Aural Skills I (1)
Mus 1550 Aural Skills II (1)
Mus 2440 Theory III (3)
Mus 2450 Theory IV (3)

Select one course (4):  
- Mus 1060 Wind Ensemble (4)
- Mus 1061 Wind Orchestra (4)
- Mus 1070 Orchestra (4)
- Mus 1080 University Singers or Choral Society (4)
- Mus 1082 Women’s Chorus (4)

Mus 1100 Concert Attendance (0) (6 Semesters)
Mus 1710 Group Instruction in Piano I (0-1)
Mus 1720 Group Instruction in Piano II (0-1)
Mus 2490 Basic Conducting (2)
Mus 2710 Group Instruction in Piano III (0-1)
Mus 2720 Group Instruction in Piano IV (0-1)
Mus 3010 Basic Improvisation (0-1)

Select one course (4):  
- Mus 3060 Wind Ensemble (4)
- Mus 3061 Wind Orchestra (4)
- Mus 3070 Orchestra (4)
- Mus 3071 Collaborative Piano I (1) (may substitute for 2 semesters of conducted ensemble with permission of faculty)
- Mus 3080 University Singers or Choral Society (4)
- Mus 3082 Women’s Chorus (4)

3. Music History/Literature Requirements (8)

Mus 1483 Music History from Antiquity through the Baroque Period (2)
Mus 2410 World Music I (2)
Mus 2420 World Music II (2)

Select one course:  
- Mus 3101 World Music II (2)
- Mus 3102 World Music III (2)

Select additional courses to complete a minimum of 120 hours. A minimum of 20 semester hours in courses at the 3000 level or above must be completed in residence at Georgia State University with an average grade of "B" or better.

Jazz Studies (Piano) Concentration

1. Performance Requirements (36)

Applied Music 1000 Jazz Piano I (2)
Applied Music 1002 Jazz Piano II (3)
Applied Music 1001 Jazz Piano/Reading II (2)
Applied Music 2001 (Piano) (4)
Selected Electives:  
- Mus 1100 Concert Attendance (0) (6 Semesters)
- Mus 2163 Jazz Ensemble I (2)
- Mus 4369 Advanced Keyboard Skills II (0-2)
3. Music History/Literature Requirements (8)
   Mus 4800 Music History from Antiquity through the Baroque Period (3)
   Mus 4810 Music History from the Classical Period to the Present (3)
   Mus 4820 World Music (2)

4. Select additional courses to complete a minimum of 120 hours. A minimum of 39 semester hours in courses at the 3000 level or above must be completed in residence at Georgia State University with an average grade of C or higher. Select from the following:
   Mus 4981 Computer Music (3)
   Mus 4982 Advanced Topics in Computer Music (3)

Jazz Studies Concentration, Emphasis in Piano

1. Performance Requirements (34)
   Applied Music 1000 Jazz Piano (2)
   Applied Music 2000 Classical Piano (4)
   Applied Music 4000 Jazz Piano (8)
   Mus 4010 Performance Lab (0) (or chamber music/combo credit); concurrent with applied music)
   Mus 3000 Recital I (0)
   Mus 4000 Recital II (0) Select one course (4):
   - Mus 1060 Wind Ensemble (4)
   - Mus 1061 Wind Orchestra (4)
   - Mus 1070 Orchestra (4)
   - Mus 1080 University Singers or Choral Society (4)
   - Mus 1082 Women's Chorus (4)
   Mus 1100 Concert Attendance (six semesters) (0)
   Mus 2490 Basic Conducting (2)
   Mus 2780 Beginning Jazz Improvisation I (1)
   Mus 2790 Beginning Jazz Improvisation II (1)
   Mus 3080B Choral Ensemble: Vocal Jazz (1)
   Mus 3090 Jazz Band (4)
   Mus 3160 Jazz Combos (3)
   Mus 4360 Advanced Keyboard Skills (2)
   Mus 4790 Advanced Jazz Improvisation I (1)
   Mus 4791 Advanced Jazz Improvisation II (1)

2. Theory/Composition Requirements (28)
   Mus 1440 Theory I (3)
   Mus 1450 Theory II (3)
   Mus 1540 Aural Skills I (1)
   Mus 1550 Advanced Aural Skills I (1)
   Mus 4450 Advanced Tonal Analysis (3)
   Mus 4730 Computer Applications in Music (2)
1. **Music Instruction (30)**
   - Mus 2710: Group Instruction in Piano III (0-1)
   - Mus 2770: Group Instruction in Piano IV (0-1)
   - Applied Music 2740 (Jazz Piano) or Mus 2780 (0-1)
   - Mus 2840: Bass Conducting (2)
   - Mus 2940: Beginning Jazz Improvisation I (1)
   - Mus 3740: Beginning Jazz Improvisation II (1)
   - Mus 3750: Advanced Jazz Improvisation I (1)
   - Mus 3760: Advanced Jazz Improvisation II (1)
   - Mus 3780: Vocal Jazz Ensembles (1)
   - Mus 3940: Jazz Band I (1-4)

2. **Theory/Composition Requirements (25)**
   - Mus 1440: Theory I (3)
   - Mus 1450: Theory II (3)
   - Mus 1750: Aural Skills I (1)
   - Mus 1950: Aural Skills II (1)
   - Mus 2440: Jazz Theory (2)
   - Mus 3440: Theory Ill (3)
   - Mus 3450: Theory IV (3)
   - Mus 3460: Aural Skills Ill (1)
   - Mus 3550: Aural Skills IV (1)
   - Mus 3700: Computer Applications in Music (3-2)
   - Mus 4000: Jazz Combo Arranging (1)
   - Mus 4110: Orchestration I (1)
   - Mus 4170: Arranging for the Large Jazz Band (1)

3. **Music History/Literature Requirements (11)**
   - MuA 3500: Jazz: Its Origins, Styles, and Influence (3)
   - Mus 4800: Music History from Antiquity through the Baroque Period (3)
   - Mus 4810: Music History from the Classical Period to the Present (3)
   - Mus 4820: World Music (2)

4. **Additional Course Requirements (3)**
   - Mus 2010: The Music Business for Jazz Musicians (1)
   - Mus 4220: Jazz Ensemble Techniques (2)

5. **Select additional courses to complete a minimum of 120 hours. A minimum of 39 semester hours in courses at the 3000 level or above must be completed in residence at Georgia State University with an average grade of C or higher. Select from the following:**
   - Mus 4770: Advanced Aural Skills I (1)
   - Mus 4850: Jazz Styles (2)

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**Jazz Studies Concentration, Emphasis in Instrumental**

1. **Performance Requirements (37)**
   - Applied Music 2000 (6)
   - Applied Music 4000 (8)
   - Mus 4010: Performance Laboratory (0) (or chamber music/combo credit; concurrent with applied music)
   - Mus 3000: Recital I (0)
   - Mus 4000: Recital II (0)
   - Select one course (4):
     - Mus 1060: Wind Ensemble (4)
     - Mus 1061: Wind Orchestra (4)
     - Mus 1070: Orchestra (4)
     - Mus 1080: University Singers or Choral Society (4)
     - Mus 1082: Women’s Chorus (4)
   - Mus 1100: Concert Attendance (six semesters) (0)
   - Mus 1710: Group Instruction in Piano I (0-1)
   - Mus 1720: Group Instruction in Piano II (0-1)
   - Mus 2710: Group Instruction in Piano III (0-1)
   - Mus 2720: Group Instruction in Piano IV (0-1)
   - Mus 3000: Recital I (0)
   - Mus 3010: Basic Conducting (2)
   - Mus 2780: Beginning Jazz Improvisation I (1)
   - Mus 2790: Beginning Jazz Improvisation II (1)
   - Mus 3080B: Choral Ensemble/Vocal Jazz (1)
   - Mus 3090: Jazz Band (4)
   - Mus 4790: Advanced Jazz Improvisation I (1)
   - Mus 4791: Advanced Jazz Improvisation II (1)

2. **Theory/Composition Requirements (28)**
   - Mus 1440: Theory I (3)
   - Mus 1450: Theory II (3)
   - Mus 1460: Theory III (3)
   - Mus 1470: Theory IV (3)
   - Mus 2440: Aural Skills I (1)
   - Mus 2450: Aural Skills II (1)
   - Mus 3440: Computer Applications in Music (3-2)
   - Mus 4000: Jazz Combo Arranging (1)
   - Mus 4110: Orchestration I (1)
   - Mus 4170: Arranging for the Large Jazz Band (1)
   - Mus 4300: Advanced Aural Skills I (1)
   - Mus 4310: Advanced Aural Skills II (1)
   - Mus 4320: Jazz Styles (2)

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**Mus 4792** Jazz Theory (2)

3. **Music History/Literature Requirements (11)**
   - Mus 3500: Jazz: Its Origins, Styles, and Influence (3)
   - Mus 4800: Music History from Antiquity through the Baroque Period (3)
   - Mus 4810: Music History from the Classical Period to the Present (3)
   - Mus 4820: World Music (2)

4. **Additional Course Requirements (3)**
   - Mus 2010: The Music Business for Jazz Musicians (1)
   - Mus 4220: Jazz Ensemble Techniques (2)

5. **Select additional courses to complete a minimum of 120 hours. A minimum of 39 semester hours in courses at the 3000 level or above must be completed in residence at Georgia State University with an average grade of C or higher. Select from the following:**
   - Mus 4770: Advanced Aural Skills I (1)
   - Mus 4850: Jazz Styles (2)
Mus 1550             Aural Skills II (1)
Mus 2440             Theory III (3)
Mus 2450             Theory IV (3)
Mus 2540             Aural Skills III (1)
Mus 2550             Aural Skills IV (1)
Mus 4100             Jazz Combo Arranging (1)
Mus 4110             Instrumentation and Orchestration (3)
Mus 4170             Arranging for the Large Jazz Ensemble (1)
Mus 4450             Advanced Tonal Analysis (3)
Mus 4730             Computer Applications in Music (2)
Mus 4792             Jazz Theory (2)

3. Music History/Literature Requirements (11)
MuA 3500            Jazz: Its Origins, Styles, and Influence (3)
Mus 4800             Music History from Antiquity through the Baroque Period (3)
Mus 4810             Music History from the Classical Period to the Present (3)
Mus 4820             World Music (2)

4. Additional Course Requirements (3)
Mus 2010             The Music Business for Jazz Musicians (1)
Mus 4220             Jazz Ensemble Techniques (2)

5. Select additional courses to complete a minimum of 120 hours. A minimum of 39 semester hours in courses at the 3000 level or above must be completed in residence at Georgia State University with an average grade of C or higher. Select from the following:
Mus 4770             Advanced Aural Skills I (1)
Mus 4850             Jazz Styles (2)

Pre-Education Concentration, Emphasis in Choral/General

1. Performance Requirements (25)
Applied Music 2000 (4)
Applied Music 3000 (3)
Mus 4010             Performance Laboratory (0) (or chamber music credit; concurrent with applied music)
Mus 3000             Recital I (0) (optional)
Mus 1080             Choral Ensemble (4) or
Mus 1082             Women’s Chorus (4)
Mus 1100             Concert Attendance (six semesters) (0)
Mus 1710             Group Instruction in Piano I (0-1)
Mus 1720             Group Instruction in Piano II (0-1)
Mus 2710             Group Instruction in Piano III (0-1)
Mus 2720             Group Instruction in Piano IV (0-1)
Mus 2730             Group Instruction in Piano V (0-1)
Mus 2490             Basic Conducting (2)
Mus 3010             Basic Improvisation (0-1)
Mus 3071             Collaborative Piano (1) (may substitute for 1 semester of conducted ensemble with permission of faculty)
Mus 3080             University Singers or Choral Society (3) or
Mus 3082             Women’s Chorus (3)
1. Music Instructional Requirements (2)
   - Mus 1710: Group Instruction in Piano I (0-1)
   - Mus 1720: Group Instruction in Piano II (0-1)
   - Mus 3710: Group Instruction in Piano III (0-1)
   - Mus 2720: Group Instruction in Piano IV (0-1)
   - Mus 2490: Basic Conducting (2)
   - Mus 4010: Music Improvisation (0-4)
   - Select either Mus 3060 (Wind Ensemble), Mus 3070 (Orchestra), or Mus 3080 (Choral Ensemble) (1)
   - Mus 4490: Instrumental Conducting (2)
   - Select either Applied Music 3010 or Mus 1680 (Ensemble) (1)

2. Elect three courses from the following (2)
   - Mus 3200: Brass Techniques (1)
   - Mus 3260: String Techniques (1)
   - Mus 3250: Woodwind Techniques (1)
   - Mus 3260: Percussion Techniques (1)

3. Theory/Composition Requirements (22)
   - Mus 1440: Theory I (3)
   - Mus 1450: Theory II (3)
   - Mus 1540: Aural Skills I (1)
   - Mus 1550: Aural Skills II (1)
   - Mus 2440: Theory III (3)
   - Mus 2450: Theory IV (3)
   - Mus 2540: Aural Skills III (1)
   - Mus 2550: Aural Skills IV (1)
   - Mus 4730: Computer Applications in Music (2)
   - Elect either Mus 4120 (Orchestration I) or Mus 4130 (Arranging for Band) (1)

4. Music History/Literature Requirements (8)
   - Mus 4800: Music History from Antiquity through the Baroque Period (3)
   - Mus 4810: Music History from the Classical Period to the Present (3)
   - World Music Requirement (2): Choral music education students fulfill this requirement by electing Pers 2001—Music in Comparative Cultures—in Area B of the core. Students who do not take this course must elect Mus 4820—World Music—to fulfill the world music requirement.

5. Music Education Requirements (30)
   - Mus 3310: Introduction to Music Education (2)
   - Mus 3320: General Music in Early Childhood (3)
   - Mus 3330: General Music in Middle and Secondary Schools (3)
   - Mus 3340: Choral Music in the Schools (3)
   - Mus 3350: Techniques of Classroom Instruments (1)
   - Mus 3425: Music in Special Education (3)
   - Mus 4260: Practicum in Music Education (3)
   - Mus 4270: TE Student Teaching in Music (9)
   - Mus 4290: TE Senior Seminar in Music Education (3)

6. Professional Education Requirements (9)
   - EDUC 2101: Introduction to Educational Issues (3)
   - EDUC 2120: Exploring Socio-Cultural Perspectives on Diversity in Educational Contexts (3)
   - EDUC 2130: Exploring Learning & Teaching (3)

7. Select additional courses to complete a minimum of 128 hours. A minimum of 20 semester hours in courses at the 4000 level or above must be completed in residence at Georgia State University with an average grade of "C" or better.

8. Pre-Education Concentration, Emphasis in Instrumental
   1. Performance Requirements (23)
      - Applied Music 2000 (4)
      - Applied Music 3000 (3)
      - Mus 4010: Performance Laboratory (0) (or chamber music credit; concurrent with applied music)
      - Mus 3000: Recital I (0) (Optional)
      - Select one course (4):
        - Mus 1060: Wind Ensemble (4)
        - Mus 1061: Wind Orchestra (4)
1. Performance Requirements (17)
   - Mus 1070 Orchestra (4)
   - Mus 1080 University Singers or Choral Society (4)
   - Mus 1082 Women’s Chorus (4)
   - Mus 1100 Concert Attendance (4 semesters) (0)
   - Mus 1710 Group Instruction in Piano I (0-1)
   - Mus 1720 Group Instruction in Piano II (0-1)
   - Mus 2490 Basic Conducting (2)
   - Mus 2710 Group Instruction in Piano III (0-1)
   - Mus 2720 Group Instruction in Piano IV (0-1)
   - Mus 3010 Basic Improvisation (3-4)
   - Select one course (3):
     - Mus 3060 Wind Ensemble (3)
     - Mus 3061 Wind Orchestra (3)
     - Mus 3070 Orchestra (3)
     - Mus 3080 University Singers or Choral Society (3)
     - Mus 3082 Women’s Chorus (3)
   - Mus 4490 Instrumental Conducting (2)

2. Theory/Composition Requirements (8)
   - Mus 1440 Theory I (3)
   - Mus 1450 Theory II (3)
   - Mus 1540 Aural Skills I (1)
   - Mus 1550 Aural Skills II (1)

3. Music History/Literature Requirements (10)
   - Mus 4800 Music History from Antiquity through the Baroque Period (3)
   - Mus 4810 Music History from the Classical Period to the Present (3)
   - Mus 4820 World Music (2)
   - Select one course (1):
     - Mus 1570 History of Popular Music or Mus 2310 History of American Music (1)

4. Music Industry Requirements (17)
   - Mus 2010 Music Industry I (2)
   - Mus 2020 Music Industry II (2)
   - Mus 3040 Marketing and Branding in the Music Industry (2)
   - Mus 3050 Legal Issues of the Music Industry (2)
   - Mus 3060 Internship I (1)
   - Mus 3070 Internship II (1)
   - Mus 3080 Internship III (2)
   - Mus 4800 Music Industry Senior Seminar I (1)
   - Mus 4810 Music Industry Senior Seminar II (1)
   - Mus 4910 Music Industry Senior Project (1)

5. Additional Courses (5)
   - Mus 2100 Principles of Accounting I (3)
   - Mus 2102 Principles of Accounting II (3)
   - Cre 2010 Introduction to Computer-Based Information Systems (2)
   - Soc 2100 Principles of Macroeconomics (2)
   - F1 2300 Corporate Finance (3)
   - Jour 3500 Public Relations (3)
   - Mgt 3500 Management Concepts, Theory, and Practice (3)
   - Mus 3610 Music Marketing (3)
   - Mus 4150 Theories of Marketability (3)

6. Select additional courses to complete a minimum of 120 hours. A maximum of 10 semester hours is counted at the 3000 level or above must be completed in residence at Georgia State University with an average grade of "C" or better.

* Depending on performance medium, enrollment in small ensemble may be required.
Music Industry (Sound Recording Technology) Concentration

1. Performance Requirements (21)
   - Applied Music 2000 (4)
   - Applied Music 3000 (2)
   - Mus 1100 Conduct Attendance (4 semesters) (0)
   - Select one Mus 100 (Wind Ensemble), Mus 1070 (Orchestra), or Mus 1080 (Choral Ensemble) (4)
   - Mus 1710 Group Instruction in Piano I (4-1)
   - Mus 1720 Group Instruction in Piano II (4-1)
   - Mus 1730 Group Instruction in Piano III (4-1)
   - Mus 1740 Group Instruction in Piano IV (4-1)
   - Mus 1750 Basic Improvisation (0-1)
   - Select one Mus 1060 (Wind Ensemble), Mus 1070 (Orchestra), or Mus 1080 (Choral Ensemble) (4)
   - Mus 2490 Basic Conducting (2)

2. Theory/Composition Requirements (16)
   - Mus 1440 Theory I (3)
   - Mus 1450 Theory II (3)
   - Mus 1540 Aural Skills I (1)
   - Mus 1550 Aural Skills II (1)
   - Mus 2440 Theory III (1)
   - Mus 2450 Theory IV (1)
   - Mus 2540 Aural Skills III (1)
   - Mus 2550 Aural Skills IV (1)

3. Music History/Literature Requirements (10)
   - Mus 4000 Music History from Antiquity through the Baroque Period (3)
   - Mus 4001 Music History from the Classical Period to the Present (3)
   - Mus 4002 World Music (2)
   - Select either Mus 1010 (History of Popular Music) or Mus 1040 (History of African-American Music) (2)

4. Music Industry Requirements (21)
   - Mus 3010 Music Industry I (3)
   - Mus 3020 Music Industry II (3)
   - Mus 3030 Marketing and Business Sales in the Music Industry (3)
   - Mus 3040 Legal Aspects of the Music Industry (3)
   - Mus 3050 Internship I (3)
   - Mus 3060 Internship II (3)
   - Mus 3080 Internship III (3)
   - Mus 3110 Recording Production I (3)
   - Mus 3120 Recording Production II (3)
   - Mus 3130 Recording Production III (3)
   - Mus 3140 Recording Production IV (3)
   - Mus 3220 Audio Post Production (3)
   - Mus 3480 Music Industry Senior Seminar I (3)
   - Mus 3490 Music Industry Senior Seminar II (3)
   - Mus 4010 Music Industry Senior Project (3)
   - Mus 4070 Microcomputer Applications I (2)
   - Mus 4075 Microcomputer Applications II (2)

5. Select additional courses to complete a minimum of 120 hours. A minimum of 39 semester hours in courses at the 3000 level or above must be completed in residence at Georgia State University with an average grade of "C" or better.

* Depending on performing medium, enrollment in small ensemble may be required.

Music Technology Concentration (Sound Recording)

1. Performance Requirements (21)
   - Applied Music 2000 (4)
   - Applied Music 3000 (2)
   - Mus 4001 Performance Laboratory (0) (5 or chamber music credit; concurrent with applied music)
   - Mus 1100 Concert Attendance (6 semesters) (0)
   - Select one course (4):
     - Mus 1060 Wind Ensemble (4)
     - Mus 1061 Wind Orchestra (4)
     - Mus 1070 Orchestra (4)
     - Mus 1080 University Singers or Choral Society (4)
     - Mus 1082 Women's Chorus (4)
   - Mus 1710 Group Instruction in Piano I (0-1)
   - Mus 1720 Group Instruction in Piano II (0-1)
   - Mus 2710 Group Instruction in Piano III (0-1)
   - Mus 2720 Group Instruction in Piano IV (0-1)
   - Mus 3010 Basic Improvisation (0-1)
   - Select one course (4):
     - Mus 3060 Wind Ensemble (4)
     - Mus 3070 Orchestra (4)
     - Mus 3071 Collaborative Piano (1) (may substitute for 2 semesters of conducted ensemble with permission of faculty)
     - Mus 3080 University Singers or Choral Society (4)
   - Mus 2490 Basic Conducting (2)

2. Theory/Composition Requirements (16)
   - Mus 1440 Theory I (3)
   - Mus 1450 Theory II (3)
   - Mus 1540 Aural Skills I (1)
   - Mus 1550 Aural Skills II (1)
   - Mus 2440 Theory III (3)
   - Mus 2450 Theory IV (3)
   - Mus 2540 Aural Skills III (1)
   - Mus 2550 Aural Skills IV (1)

3. Music History/Literature Requirements (8)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Mus 4800</td>
<td>Music History from Antiquity through the Baroque Period</td>
<td>(3)</td>
</tr>
<tr>
<td>Mus 4810</td>
<td>Music History from the Classical Period to the Present</td>
<td>(3)</td>
</tr>
<tr>
<td>Mus 4820</td>
<td>World Music</td>
<td>(2)</td>
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</table>

4. Music Technology/Recording (33)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Phys 2030K</td>
<td>Physical Science: Physics of Music and Speech</td>
<td>(3)</td>
</tr>
<tr>
<td>MTM 3010</td>
<td>Introduction to Music Industry</td>
<td>(3)</td>
</tr>
<tr>
<td>MTM 3040</td>
<td>Practicum</td>
<td>(0-2)</td>
</tr>
<tr>
<td>MTM 3080</td>
<td>Internship</td>
<td>(6)</td>
</tr>
<tr>
<td>MTM 3110</td>
<td>Introduction to Audio Recording</td>
<td>(4)</td>
</tr>
<tr>
<td>MTM 3120</td>
<td>Digital Audio Technology and Recording Techniques</td>
<td>(4)</td>
</tr>
<tr>
<td>MTM 3130</td>
<td>Advanced Topics in Recording and Audio Production</td>
<td>(4)</td>
</tr>
<tr>
<td>MTM 3230</td>
<td>Audio Post-Production</td>
<td>(4)</td>
</tr>
<tr>
<td>MTM 4900</td>
<td>Music Technology Final Project</td>
<td>(3)</td>
</tr>
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</table>

5. Select additional courses to complete a minimum of 120 hours. A minimum of 39 semester hours in courses at the 3000 level or above must be completed in residence at Georgia State University with an average grade of C or higher. Select from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Mus 4981</td>
<td>Computer Music</td>
<td>(3)</td>
</tr>
<tr>
<td>Mus 4982</td>
<td>Advanced Topics in Computer Music</td>
<td>(3)</td>
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</table>

Performance Concentration, Emphasis in Piano

1. Performance Requirements (34)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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2. Performance Concentration III

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Mus 4130</td>
<td>(Arranging for Band)</td>
<td>(4)</td>
</tr>
<tr>
<td>Mus 4140</td>
<td>(Arranging for Chords)</td>
<td>(1)</td>
</tr>
<tr>
<td>Mus 4150</td>
<td>Arrangement Techniques</td>
<td>(4)</td>
</tr>
<tr>
<td>Mus 4160</td>
<td>Harmony</td>
<td>(1)</td>
</tr>
<tr>
<td>Mus 4170</td>
<td>Analysis of 20th-Century Literature</td>
<td>(2)</td>
</tr>
<tr>
<td>Mus 4180</td>
<td>Advanced Form and Analysis</td>
<td>(2)</td>
</tr>
<tr>
<td>Mus 4200</td>
<td>Advanced Harmony</td>
<td>(1)</td>
</tr>
<tr>
<td>Mus 4210</td>
<td>Advanced Chord Structure</td>
<td>(1)</td>
</tr>
<tr>
<td>Mus 4220</td>
<td>Advanced Counterpoint</td>
<td>(2)</td>
</tr>
<tr>
<td>Mus 4230</td>
<td>Advanced Conducting</td>
<td>(2)</td>
</tr>
<tr>
<td>Mus 4240</td>
<td>Advanced Improvisation</td>
<td>(1)</td>
</tr>
<tr>
<td>Mus 4250</td>
<td>Advanced Mandala</td>
<td>(1)</td>
</tr>
<tr>
<td>Mus 4260</td>
<td>Advanced Orchestration</td>
<td>(1)</td>
</tr>
<tr>
<td>Mus 4270</td>
<td>Advanced Conducting</td>
<td>(2)</td>
</tr>
<tr>
<td>Mus 4280</td>
<td>Advanced Conducting</td>
<td>(2)</td>
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3. Music History/Literature: Select one course (5)

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<tr>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Mus 4140</td>
<td>Piano Literature</td>
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<tr>
<td>Mus 3070</td>
<td>Vocal Literature</td>
<td>(5)</td>
</tr>
<tr>
<td>Mus 4150</td>
<td>Chamber Music</td>
<td>(5)</td>
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<tr>
<td>Mus 4160</td>
<td>American Musical Theater</td>
<td>(5)</td>
</tr>
<tr>
<td>Mus 4170</td>
<td>Orchestral Music</td>
<td>(5)</td>
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4. Music History/Literature Requirements (9)

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Mus 4800</td>
<td>Music History from Antiquity through the Baroque Period</td>
<td>(3)</td>
</tr>
<tr>
<td>Mus 4810</td>
<td>Music History from the Classical Period to the Present</td>
<td>(3)</td>
</tr>
<tr>
<td>Mus 4820</td>
<td>World Music</td>
<td>(3)</td>
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</table>

5. Foreign Language: Select one language sequence (6)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Germ 2001</td>
<td>Intermediate German 1 (4)</td>
<td>(3)</td>
</tr>
<tr>
<td>Germ 2002</td>
<td>Intermediate German 2 (4)</td>
<td>(3)</td>
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6. Music History/Literature Requirements (9)

<table>
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7. Foreign Language: Select one language sequence (6)

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<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>Germ 2001</td>
<td>Intermediate German 1 (4)</td>
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<tr>
<td>Germ 2002</td>
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8. Music History/Literature Requirements (9)

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<th>Course Code</th>
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<tbody>
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<td>Mus 4820</td>
<td>World Music</td>
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9. Foreign Language: Select one language sequence (6)

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>Germ 2001</td>
<td>Intermediate German 1 (4)</td>
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<tr>
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10. Music History/Literature Requirements (9)

<table>
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<tr>
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<tbody>
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<td>Mus 4800</td>
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<tr>
<td>Mus 4810</td>
<td>Music History from the Classical Period to the Present</td>
<td>(3)</td>
</tr>
<tr>
<td>Mus 4820</td>
<td>World Music</td>
<td>(3)</td>
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11. Foreign Language: Select one language sequence (6)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Germ 2001</td>
<td>Intermediate German 1 (4)</td>
<td>(3)</td>
</tr>
<tr>
<td>Germ 2002</td>
<td>Intermediate German 2 (4)</td>
<td>(3)</td>
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12. Music History/Literature Requirements (9)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Mus 4800</td>
<td>Music History from Antiquity through the Baroque Period</td>
<td>(3)</td>
</tr>
<tr>
<td>Mus 4810</td>
<td>Music History from the Classical Period to the Present</td>
<td>(3)</td>
</tr>
<tr>
<td>Mus 4820</td>
<td>World Music</td>
<td>(3)</td>
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13. Foreign Language: Select one language sequence (6)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Germ 2001</td>
<td>Intermediate German 1 (4)</td>
<td>(3)</td>
</tr>
<tr>
<td>Germ 2002</td>
<td>Intermediate German 2 (4)</td>
<td>(3)</td>
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14. Music History/Literature Requirements (9)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Mus 4800</td>
<td>Music History from Antiquity through the Baroque Period</td>
<td>(3)</td>
</tr>
<tr>
<td>Mus 4810</td>
<td>Music History from the Classical Period to the Present</td>
<td>(3)</td>
</tr>
<tr>
<td>Mus 4820</td>
<td>World Music</td>
<td>(3)</td>
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15. Foreign Language: Select one language sequence (6)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Germ 2001</td>
<td>Intermediate German 1 (4)</td>
<td>(3)</td>
</tr>
<tr>
<td>Germ 2002</td>
<td>Intermediate German 2 (4)</td>
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16. Music History/Literature Requirements (9)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Mus 4800</td>
<td>Music History from Antiquity through the Baroque Period</td>
<td>(3)</td>
</tr>
<tr>
<td>Mus 4810</td>
<td>Music History from the Classical Period to the Present</td>
<td>(3)</td>
</tr>
<tr>
<td>Mus 4820</td>
<td>World Music</td>
<td>(3)</td>
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</table>

17. Foreign Language: Select one language sequence (6)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Germ 2001</td>
<td>Intermediate German 1 (4)</td>
<td>(3)</td>
</tr>
<tr>
<td>Germ 2002</td>
<td>Intermediate German 2 (4)</td>
<td>(3)</td>
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</tbody>
</table>
6. Select additional courses to complete a minimum of 120 hours. A minimum of 39 semester hours in \textit{core} at the 3000 level or above must be completed in residence at Georgia State University with an average grade of "C" or better.

* Depending on performing medium, enrollment in small ensembles may be required.

\textbf{Performance (Piano) Concentration}

1. **Performance Requirements** (34)
   - Applied Music 2000 (3)
   - Applied Music 2020 (3)
   - Applied Music 4000 (9)
   - Applied Music 4030 (3)

   Select either Mus 1060 (Wind Ensemble), Mus 1070 (Orchestra), or Mus 1080 (Choral Ensembles) (4)

   Mus 1100: Concert Attendance (eight semesters) (6)

   Mus 2040: Basic Conducting (2)

   Mus 2030: Basic Improvisation (1)

   Select either Mus 2060 (Wind Ensemble), Mus 2070 (Orchestra), or Mus 2080 (Choral Ensembles) (4)

   Mus 4660: Advanced Keyboard Skills (2)

   Select either Mus 4480 (Choral Conducting) or Mus 4490 (Instrumental Conducting) (2)

   Mus 4610: Accompanying (1)

2. **Theory/Composition Requirements** (25)
   - Mus 1140: Theory I (4)
   - Mus 1150: Aural Skills I (1)
   - Mus 1152: Aural Skills II (1)
   - Mus 2150: Theory II (3)
   - Mus 2250: Theory IV (3)
   - Mus 2550: Aural Skills II (1)
   - Mus 2552: Aural Skills IV (1)
   - Mus 3570: Computer Applications in Music (0-2)

   Select either Mus 4120 (Concertophone ID), Mus 4130 (Arranging for Band), or Mus 4140 (Arranging for Chorus) (1)

   Select two courses from Mus 4150 (Developing Rhythm/Listening/Improvisation), Mus 4770 (Advanced Aural Skills I), and Mus 4790 (Advanced Aural Skills II) (5)

   Mus 4420: Advanced Form and Analysis (2)

3. **Music History/Literature Requirements** (11)
   - Mus 4100: Piano Literature (3)
   - Mus 4105: Music History from Antiquity through the Baroque Period (3)
   - Mus 4110: Music History from the Classical Period to the Present (3)
   - Mus 4120: World Music (3)

4. Mus 4410: Piano Pedagogy (3)

5. Select additional courses to complete a minimum of 120 hours. A minimum of 39 semester hours in \textit{core} at the 3000 level or above must be completed in residence at Georgia State University with an average grade of "C" or better.

* Depending on performing medium, enrollment in small ensembles may be required.

\textbf{Performance Concentration, Emphasis in Orchestral Instruments or Guitar}

1. **Performance Requirements** (35)
   - Applied Music 2000 (6)
   - Applied Music 4000 (12)

   Mus 4010: Performance Laboratory (0) (or chamber music credit; concurrent with applied music)

   Mus 3000: Recital I (0)

   Mus 4000: Recital II (0) Select one course (4):
   - Mus 1060: Wind Ensemble (4)
   - Mus 1061: Wind Orchestra (4)
   - Mus 1070: Orchestra (4)
   - Mus 1080: University Singers or Choral Society (4)

   Mus 1082: Women's Chorus (4)

   Mus 1100: Concert Attendance (0) (48 semesters)

   Mus 1710: Group Instruction in Piano I (0-1)

   Mus 1720: Group Instruction in Piano II (0-1)

   Mus 2710: Group Instruction in Piano III (0-1)

   Mus 2720: Group Instruction in Piano IV (0-1)

   Mus 2490: Basic Conducting (2)

   Mus 3010: Basic Improvisation (0-1)

   Select one course (4):
   - Mus 3060: Wind Ensemble (4)
Performance Concentration, Emphasis in Organ

1. Performance Requirements (36)
   Applied Music 2000 (6)  Applied Music 4000 (12)
   Mus 4010  Performance Laboratory (10)  concurrent with applied music
   Mus 3000  Recital I (0)
   Mus 4000  Recital II (0)  Applied Music 1000 (Secondary) (2)
   Mus 1080  University Singers or Choral Society (4)  or
   Mus 1082  Women’s Chorus (4)
6. Additional Courses (3)
Mus 3270 Instrumental Pedagogy I (1)

7. Select additional courses to complete a minimum of 120 hours. A minimum of 39 semester hours in courses at the 3000 level or above must be completed in residence at Georgia State University with an average grade of "C" or better.

Depending on performing medium, enrollment in small ensembles may be required.

Performance (Organ) Concentration

1. Performance Requirements* (36)
Applied Music 2000 (2)
Applied Music 2020 (2)
Applied Music 4000 (5)
Applied Music 4002 (Secondary) (2)
Mus 1080 Choral Ensemble (4)
Mus 1100 Concert Attendance (eight semester) (7)
Mus 1490 Basic Conducting (2)
Mus 1510 Basic Improvisation (6-4)
Mus 1580 Choral Ensemble (4)
Mus 4000 Service Playing and Church Music Skills (2)
Select either Mus 4390 (Choral Conducting) or Mus 4400 (Instrumental Conducting) (2)
Mus 4380 Accompaniment (1)

2. Theory/Composition Requirements (26)
Mus 1440 Theory I (3)
Mus 1450 Theory II (3)
Mus 1540 Aural Skills I (1)
Mus 1550 Aural Skills II (1)
Mus 2440 Theory III (3)
Mus 2450 Theory IV (3)
Mus 2540 Aural Skills III (1)
Mus 2550 Aural Skills IV (1)
Mus 4110 Instrumentation and Orchestration (3)
Mus 4730 Computer Applications in Music (2)
Select one course (1):
Mus 4140 Choral Arranging (1)
Mus 4770 Advanced Aural Skills (1)
Select one course (3):
Mus 4450 Advanced Tonal Analysis (3)
Mus 4500 Historical Counterpoint (3)
Mus 4760 Advanced Keyboard Harmony (1)

3. Music History/Literature Requirements (11)
Mus 4710 Organ Literature (3)
Mus 4800 Music History from Antiquity through the Baroque Period (3)
Mus 4810 Music History from the Classical Period to the Present (3)
Mus 4820 World Music (2)
Mus 4820 Organ Pedagogy (3)

Mus 4420 Organ Pedagogy (2)

5. Select additional courses to complete a minimum of 120 hours. A minimum of 39 semester hours in courses at the 3000 level or above must be completed in residence at Georgia State University with an average grade of "C" or higher.

Performance Concentration, Emphasis in Voice

1. Performance Requirements (40)
Applied Music 2000 (6)
Applied Music 4000 (12)
Mus 4010 Performance Laboratory (0) (concurrent with applied music)
Mus 3000 Recital I (0)
Mus 4000 Recital II (0)
### Performance (Voice) Concentration

1. **Performance Requirements** *(41)*  
   - Applied Music 2000 (2)  
   - Applied Music 2020 (4)  
   - Applied Music 4039 (9)  
   - Applied Music 4031 (Recital) (3)  
   - Mus 1080: Choral Ensemble (4)  
   - Mus 1082: Women’s Chorus (4)  
   - Mus 1100: Group Instruction in Piano I (0-1)  
   - Mus 1720: Group Instruction in Piano II (0-1)  
   - Mus 2170: Group Instruction in Piano III (0-1)  
   - Mus 2720: Group Instruction in Piano IV (0-1)  
   - Mus 2490: Basic Conducting (2)  
   - Mus 3010: Basic Improvisation (0-1)  
   - Mus 3080: University Singers or Choral Society (4) or Women’s Chorus (4)  
   - Mus 3100: Opera Workshop (1-3)  
   - Mus 4011: Singing in Italian (1)  
   - Mus 4021: Singing in German (1)  
   - Mus 4031: Singing in French (1)  
   - Mus 4041: Singing in English (1)  

2. **Theory/Composition Requirements** *(21)*  
   - Mus 1440: Theory I (3)  
   - Mus 1450: Theory II (3)  
   - Mus 1540: Aural Skills I (1)  
   - Mus 1550: Aural Skills II (1)  
   - Mus 2440: Theory III (3)  
   - Mus 2450: Theory IV (3)  
   - Mus 2540: Aural Skills III (1)  
   - Mus 2550: Aural Skills IV (1)  
   - Mus 2720: Computer Applications in Music (0-2)  
   - Mus 4110: Orchestration I (1)  

3. **Music History/Literature Requirements** *(11)*  
   - Mus 4620: Vocal Literature (3)  
   - Mus 4800: Music History from Antiquity through the Baroque Period (3)  
   - Mus 4810: Music History from the Classical Period to the Present (3)  
   - Mus 4820: World Music (2)  
   - Mus 4730: Instrumentation and Orchestration (3)  
   - Mus 4750: Computer Applications in Music (2)  

4. **Foreign Language**: Select two courses. (6)  
   - Fren 1002: Elementary French II (3)  
   - Germ 1002: Elementary German II (3)  
   - Ital 1002: Elementary Italian II (3)  

5. **Mus 4440**: Vocal Pedagogy (2)

6. Select additional courses to complete a minimum of 120 hours. A minimum of 39 semester hours in courses at the 3000 level or above must be completed in residence at Georgia State University with an average grade of “C” or better.

* Depending on performing medium, enrollment in small ensemble may be required.

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### B.S. in Music, Concentration in Music Management

**Area F: Courses Related to the Major** *(18)*

* Applied Music 2000 (4)  
- Mus 1440: Theory I (3)  
- Mus 1450: Theory II (3)  
- Mus 1540: Aural Skills I (1)
Area A: Essential Skills (9)
Area B: Institutional Options (4)
Area C: Humanities and Fine Arts (6)
Area D: Science, Mathematics, and Technology (11)
Area E: Social Science (12)
Area F: Courses Related to the Major (18)

1. Music Requirements (18)
   Mus 1410 Basic Music Theory I (4)
   Mus 1420 Basic Music Theory II (4)
   Mus 1710 Group Instruction in Piano I (1) (or proficiency)
   Mus 1720 Group Instruction in Piano II (1) (or proficiency)

2. Additional Requirements (8)
   Acct 2101 Principles of Accounting I (3)
   Select one (4): Mus 1060 Wind Ensemble (4) Mus 1061 Wind Orchestra (4) Mus 1070 Orchestra (4) Mus 1080 University Singers or Choral Society (4) Mus 1082 Women’s Chorus (4)

   Area G: Major Courses (78)

   This concentration description includes the 18 hours used in Area F as indicated above.

   1. Performance Requirements (15)
      * Applied Music 2000 (4)
      Mus 4010 Performance Laboratory (0) (or chamber music credit; concurrent with applied music)
      Select one (4):
      • Mus 1060 Wind Ensemble (4)
      • Mus 1061 Wind Orchestra (4)
      • Mus 1070 Orchestra (4)
      • Mus 1080 University Singers or Choral Society (4)
      • Mus 1082 Women’s Chorus (4)
      Mus 1710 Group Instruction in Piano I (1) (or proficiency)
      Mus 1720 Group Instruction in Piano II (1) (or proficiency)
      Select one (4):
      • Mus 3060 Wind Ensemble (4)
      • Mus 3061 Wind Orchestra (4)
      • Mus 3070 Orchestra (4)
      • Mus 3071 Collaborative Piano I (1) (may substitute for 2 semesters of conducted ensemble with permission of faculty)
      • Mus 3080 University Singers or Choral Society (4)
      • Mus 3082 Women’s Chorus (4)

   2. Theory/Composition Requirements (18)
      Mus 1440 Theory I (3)
      Mus 1450 Theory II (3)
      Mus 1540 Aural Skills I (1)
      Mus 1550 Aural Skills II (1)
      Mus 2440 Theory III (3)
      Mus 2450 Theory IV (3)
      Mus 2540 Aural Skills III (1)
      Mus 2550 Aural Skills IV (1)
      Mus 4730 Computer Applications in Music (2) (or proficiency)
      Select one of the following two:

   3. Music History/Literature Requirements (6)
      Select one of the following two:
3. Music History/Literature Requirements (4)
   Mus 4920. World Music (2)
   Select one other Mus 1976 (History of Popular Music) or Mus 2810 (History of African-American Music) (2)

4. Music Industry Requirements (20)
   MI 3010. Music Industry I (2)
   MI 3020. Music Industry II (2)
   MI 3030. Marketing and Branding Sales in the Music Industry (2)
   MI 3035. Legal Aspects of the Music Industry (2)
   MI 3040. Ownership I (2)
   MI 3070. Internship I (2)
   MI 3130. Internship II (2)
   MI 3300. Music Publishing (2)
   MI 3440. Entrepreneurship in the Music Industry (2)
   MI 4800. Music Industry Senior Seminar I (1)
   MI 4810. Music Industry Senior Seminar II (1)

World Music Requirement (2):
Music Management students fulfill this requirement by electing Pers 2001—Music in Comparative Cultures—in Area B of the core. Students who do not take this course must elect Mus 4820—World Music—to fulfill the world music requirement.

4. Music Management (24) Required courses (16)
   MTM 3010. Introduction to the Music Industry (3)
   MTM 3030. Marketing and Brand Sales in the Music Industry (3)
   MTM 3050. Legal Aspects of the Music Industry (3)
   MTM 3080. Internship (6)
   MTM 4910. Music Management Senior Project (1) Additional courses (8)
   MTM 3020. Promotion of Recorded Music (3)
   MTM 3040. Practicum (2)
   MTM 3300. Copyright and Music Publishing (3)
   MTM 3440. Entrepreneurship in the Music Industry (2)
   MTM 3450. Artist Representation (2)
   MTM 3600. International Recording Industry (2)

5. Business Requirements (15) Required courses (6)
   Acct 2101. Principles of Accounting I (3)
   Econ 2106. Principles of Microeconomics (3)
   Econ 3020. Race, Sex, and the Economy (3)
   Fi 3010. Consumer Finance (3)
   Mgs 3400. Managing People in Organizations (3)
   Mk 3010. Basic Marketing (3)
   Mk 4100. Buyer Behavior (3)
   Mk 4200. Advertising (3)
   Mk 4300. Principles of Selling (3)
   Mk 4400. Distribution Management (3)
   Mk 4620. Product Development (3)

6. Select additional courses to complete a minimum of 120 hours. A minimum of 39 semester hours in courses at the 3000 level or above must be completed in residence at Georgia State University with an average grade of "C" or better.

Minor in Music
The School of Music offers minors in music and music management. A background in music is helpful but not necessary. Each minor requires 18 semester hours of course work in music, 9 of which must be at the 3000-4000 level. Courses include music theory, music history, performance, and electives. Certain courses entail prerequisites that may not count toward the 18 credits required for the minor. Students interested in either minor should contact the School of Music main office at 404/651-3676 for further information. An advising appointment and approval by the associate director of the School of Music are required before students may accumulate credits toward the minor.
Programs Offered:

Bachelor of Arts in Philosophy

Concentration in Pre-Law

Minor in Philosophy

Department of Philosophy
34 Peachtree St., 11th Floor
404/651-2277

http://www.gsu.edu/philosophy

George Rainbolt, Chair
Eddy Nahmias, Director of Undergraduate Studies

Philosophy is the study of the principles of knowledge and valid reasoning; the foundations of morality, law, and society; and the fundamental structures of reality. It is an attempt to understand the basic commitments concerning human beings, God, and nature that guide the personal and professional lives of people and that constitute an essential aspect of human culture. It is also a search for critical tools to evaluate these commitments and to ensure objectivity, disciplined insight, and rational argument.

The Department of Philosophy offers two undergraduate degree programs, the Bachelor of Arts in Philosophy and the Bachelor of Arts in Philosophy with a Pre-Law Concentration. Majors are urged to consult with their advisers in order to prepare the course of study most appropriate to their individual interests and needs. Philosophy and religious studies majors and all students intending to take departmental courses are invited to discuss their goals and needs with members of the Department of Philosophy. Course descriptions are available in advance for all offerings, and these indicate course content, procedures, texts, requirements, and grading methods.

Major in Philosophy

Philosophy is an appropriate study for anyone wishing a broad liberal education that teaches one how to think and that promotes self-awareness. It is particularly appropriate as a major or minor for those contemplating a career in law, administration, public service, politics, business, education, or religion. Students in other fields are encouraged to consider the possibility of a double major with philosophy.

A special component of the department’s program is a series of courses in applied philosophy, the study of which provides insights having practical application in one’s personal, social, and professional life. Courses in this area include philosophy of law, biomedical ethics, and business ethics.

Major in Religious Studies

The Department of Philosophy offers a series of courses in religious studies, as well as the opportunity for students to major in the joint offering of philosophy and religious studies, all of which is taught from a non-sectarian perspective, include courses in world religions.

Major in Philosophy with a Pre-Law Concentration

The study of philosophy is excellent preparation for law school. The critical thinking skills, clarity in writing, and argumentative rigor required in philosophy provide students with the tools they need to be successful in law school and as lawyers. Moreover, philosophy majors have traditionally had the highest average scores on the LSAT and the highest admission rates to law school of any...
religious, religious thought, comparative religious ethics, women and religion, and the history of religion. Students majoring in religious studies have the opportunity to take and have counted toward their major elective courses in other department(s) or divisions in the College of Arts and Sciences including anthropology, history, music, and sociology.

Courses in religious studies contribute to a student’s understanding of the beliefs and values of diverse peoples and cultures. They also contribute to the student’s self-understanding through unearthing and exploring major issues of his or her own culture. The major in religious studies is designed to provide a rich training in the liberal arts and is particularly appropriate for those students considering careers in government, health care, education, international business, social work, the ministry, or media.

Students in other fields are encouraged to consider the possibility of a double major with religious studies.

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**Program Academic Regulations**

A 2000 or 3000-level philosophy course is a prerequisite for all 4000-level philosophy courses. Majors are urged to take Phil 2010 and Phil 2050 before taking 4000-level courses.

**Program Degree Requirements**

In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

**B.A. in Philosophy**

Areas A-E: Core Curriculum Recommendations

1. Area B: The department strongly recommends that philosophy majors take Phil 1010, Critical Thinking.

**Area F: Courses Appropriate to the Major (18)**

1. Required Courses (9)
   - Phil 2010 Great Questions of Philosophy (3)
   - Phil 2050 Philosophical Thinking (3)

2. Recommended Courses (6)
   - Lang 2001 Intermediate Foreign Language I (3)
   - Lang 2002 Intermediate Foreign Language II (3)

3. Select additional 1000/2000-level courses from core curriculum Areas B, C, D, or E to complete the 18 hours required in Area F (4-10)

Area G: Major Courses (24)

A grade of C or higher is required in all major courses.

To satisfy the requirements for the B.A. degree in philosophy, students must take a total of 24 semester hours in philosophy courses at the 3000 level or above, including the following distribution requirements:

1. History of Philosophy Requirements (6)
   - Phil 3010 History of Western Philosophy I: Ancient and Medieval (3)
   - Phil 3020 History of Western Philosophy II: Modern (3)

2. Ethics Requirement: Select at least one of the following courses. (3)
   - Phil 3720 Contemporary Moral Problems (3)
   - Phil 3730 Business Ethics (3)
   - Phil 4700 Ethics (3)

3. Metaphysics and Epistemology Requirement: Select at least one of the following courses. (3)
   - Phil 4530 Philosophy of Language (3)
Students preparing to apply to philosophy Ph.D. programs are encouraged to take the following courses while completing the normal requirements:

- Phil 4100  Epistemology (3)
- Phil 4300  Metaphysics (3)
- Phil 4520  Symbolic Logic (3)
- Phil 4700  Ethics (3)

Developing a relationship with one or more professors so that they know you well and can write good letters of recommendation is also an excellent idea.

**Area H: Minor and Additional Courses**

1. Students majoring in philosophy are not required to take a minor.
2. The department strongly recommends that philosophy majors take the fourth semester of a foreign language as an elective course.

**Pre-Law Concentration**

Area A-F requirements are the same for the B.A. in Philosophy and the B.A. in Philosophy with a Pre-Law Concentration

**Areas A-E: Core Curriculum Recommendations**

1. Area B: The department strongly recommends that philosophy majors take Phil 1010, Critical Thinking.

**Area F: Courses Appropriate to the Major (18)**

1. **Required Courses (9)**
   - Phil 2010  Great Questions of Philosophy (3)
   - Phil 2050  Philosophical Thinking (3)

2. **Recommended Courses (6)**
   - Lang 1002  Elementary Foreign Language II (3)
   - Lang 2001  Intermediate Foreign Language I (3)*
   - Lang 2002  Intermediate Foreign Language II (3)*

3. Select additional 1000/2000 level courses from core curriculum Areas B, C, D, or E to complete the 18 hours required in Area F (4-10)

*When considering foreign language courses to meet the Area F requirement indicated above, Pre-Law concentration students with no other language preference should consider that a grounding in Latin is useful in law school.

**Area G: Major Courses (24)**

A grade of C or higher is required in all major courses.

To satisfy the requirements for the B.A. degree with a major in philosophy with a pre-law concentration, students must take a total of 24 semester hours in philosophy courses at the 3000 level or above, including the following distribution requirements:

1. **History of Philosophy Requirements (6)**
   - Phil 3010  History of Western Philosophy I: Ancient and Medieval (3)
   - Phil 3020  History of Western Philosophy II: Modern (3)

2. **Ethics Requirement: Select at least one of the following courses. (3)**
   - Phil 3720  Contemporary Moral Problems (3)
   - Phil 3730  Business Ethics (3)

For course requirements beyond the major, see "Minor and/or Additional Courses" below.
Major Courses (24)

To satisfy the requirements for the B.A. degree with a major in religious studies, a student must take a total of 24 semester hours (a minimum of 18 of these hours must be taken in upper division, 3000 or 4000-level courses with a B or better), including the following distribution requirements:

1. Major Requirements (6)
   - Rel 3580: Introduction to Religion (3)
   - Rel 3570: World Religions (3)

2. Students may take up to six (6) semester hours in the following upper-division courses taught outside the Department of Philosophy and apply them to their RelS major:
   - All 4629
   - All 4230
   - All 4970
   - Cits 2219
   - Hist 5310
   - Hist 4780
   - Hist 4810
   - Hist 4820
   - Hist 4835
   - Hist 4840

Minor and/or Additional Courses

1. Students majoring in philosophy or religious studies are not required to take a minor.

2. Additional courses not in the major must be taken in another area of study with at least 12 semester hours of 3000 or 4000 level courses. The department encourages students to take additional courses in the field of their interest.

Minor Offerings

Students who wish to minor in philosophy or religious studies must take at least 12 hours in courses in the specific area, including at least 9 semester hours at the 3000 level or above. Students taking more than 12 hours in courses in the specific area may count the additional hours toward their electives or may consider completing a double major. A grade of "C" or better is required in all courses counted toward the minor.

Residency Requirement

A minimum of 25 semester hours in courses numbered 3000 or above must be completed in residence at Georgia State University with an average grade of "C" or better.

Honors Program

The department encourages qualified students to participate in the Honors Program. (See "Honors Program" previously described.)

| Phil 4700 | Ethics (3) |
| Phil 4850 | African-American Ethical and Legal Issues (3) |
| Phil 4090 | Topics in Continental Philosophy (3) |
| Phil 4100 | Epistemology (3) |
| Phil 4130 | Philosophy of Science (3) |
| Phil 4300 | Metaphysics (3) |
| Phil 4330 | Philosophy of Mind (3) |
| Phil 4530 | Philosophy of Language (3) |

4. Pre-Law Concentration Requirement (12)

| Phil 4700 | Ethics (3) |
| Phil 4820 | Philosophy of Law (3) |

Two of the following courses (6)

| AAS 3070 | African-Americans in the Criminal Justice System (3) |
| Hist 3220 | United States in the Twentieth Century (4) |
| Hist 4240 | American Labor and Working Class (4) |
| Hist 4532 | Crime, Law, and Society in Early Modern Europe (4) |
| Hist 4540 | Britain, Ireland, and the British Atlantic, 1485 to 1689 (4) |
| Hist 4620 | Europe: Culture and Ideas (4) |
| LgsS 3020 | Principles of Business Law (3) |
| LgsS 4050 | Principles of Business Law (3) |
| Phil 4520 | Symbolic Logic (3) |

This course is strongly recommended both for the mental abilities it develops and because many feel that it improves performance on the LSAT.

| Phil 4670 | Church and State (3) |
| PolS 3110 | State Government (3) |
| PolS 3140 | Judicial Process and Courts (3) |
| PolS 3170 | American Legislative Process (3) |
| PolS 3700 | Public Administration and Bureaucratic Politics (3) |
| PolS 3750 | Public Policy Analysis (3) |
| PolS 3770 | Governmental Budgeting (3) |
| PolS 4115 | Urban Politics (3) |
| PolS 4130 | American Constitutional Law (3) |
| PolS 4131 | Civil Liberties and Rights (3) |
| PolS 4157 | Politics of the Civil Rights Movement (3) |
| PolS 4180 | American Chief Executives (3) |
| PolS 4420 | International Law (3) |
| PolS 4425 | Politics of International Criminal Justice (3) |
| PolS 4427 | Politics of International Human Rights (3) |
| PolS 4570 | American Political Thought (3) |
| PolS 4780 | Administrative Law and Government (3) |
| PolS 4950 | Practicum in Political Science (3) |
| RelS 4670 | Church and State (3) |
| Soci 3220 | Activism, Protest, and Revolution (3) |
| Soci 3222 | Deviant Behavior (3) |
Other law-related 3000 level or 4000-level courses (in any College) approved in advance by the Philosophy Pre-Law Advisor. No courses will be approved after a student has enrolled in the course.

Area H: Minor and Additional Courses
1. Students majoring in philosophy with a pre-law concentration are not required to take a minor.
2. The department strongly recommends that philosophy majors with a pre-law concentration take the fourth semester of a foreign language as an elective course.

Minor in Philosophy
Students who wish to minor in Philosophy must take at least 15 hours in courses in the specific area, including at least nine semester hours at the 3000 level or above. Students taking more than 15 hours in courses in the specific area may count the additional hours toward their electives or may consider completing a double major. A grade of C or higher is required in all courses counting toward the minor.

Minor in Ethics (see section 3250)
3450 Physics

Programs Offered:
Bachelor of Science in Physics

Standard Program in Physics
Concentration in Applied Physics
Concentration in Astronomy
Concentration in Biophysics
Concentration in Computer Science
Concentration in Geology
Concentration in Pre-Medicine
Minor in Physics

Department of Physics and Astronomy
400 Science Annex
404/651-2279
http://www.Phy-Astr.gsu.edu

H. Richard Miller, Chair
David Wingert, Undergraduate Director
Brian Thom, Undergraduate Director

All degree programs described below are built on a core of 22 semester hours of physics numbered 3400 or above and establish a strong background in mathematics by providing nine semester hours of 3000 and 4000-level courses. The standard program is designed to prepare the student for graduate school or immediate employment upon graduation. Students selecting the standard program must complete 15 semester hours of physics and mathematics beyond the core set of physics and mathematics courses listed below. As an alternative to the standard program, courses in one of several specific areas of concentration may be chosen in addition to the physics core described in the "Degree Requirements" section. All course requirements are available at the Georgia State University online catalog. Students should continue their high school experience to a level of competency equivalent to Georgia State's 1002 level or higher.
**Program Degree Requirements**

In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

**B.S. in Physics**

**Areas A-E: Core Curriculum Recommendations**

1. **Required course:**
   - Math 1113 Pre-calculus (3) (or a higher-level mathematics course)

2. **Required course:**
   - Math 2211 Calculus of One Variable I (4) (or a higher-level mathematics course)

3. **Recommended courses:**
   - Chem 1211K General Chemistry I (4)
   - Chem 1212K General Chemistry II (4)

**Area F: Courses Appropriate to the Major (18)**

1. **Required Courses (18)** (Unless used to satisfy Area D requirements)
   - Phys 2211K Principles of Physics I (4)
   - Phys 2212K Principles of Physics II (4)
   - Chem 1211K General Chemistry I (4)
   - Chem 1212K General Chemistry II (4)
   - Math 2213 Calculus of One Variable I (4)
   - Math 2215 Multivariate Calculus (4)

2. To complete 18 semester hours in Area F, select additional courses from the following list that were not used to satisfy the Area A or D requirements.*
   - Biol 1103K Introductory Biology I (4)
   - Biol 1104K Introductory Biology II (4)
   - Biol 2107K Principles of Biology I (4)
   - Biol 2108K Principles of Biology II (4)
   - CSc 2310 Principles of Computer Programming I (3)
   - CSc 2311 Principles of Computer Programming II (3)

*Required Lower Division Courses

All students majoring in physics must complete the following set of courses: Phys 2211K, 2212K, Chem 1211K, 1212K, Math 2212, and 2215. Any semester hours exceeding 18 earned to complete the lower division and Area F requirements will count toward elective hours.

**Area G: Major Courses**

A grade of C or higher is required in all major courses. The Department of Physics and Astronomy offers several concentrations within the B.S. degree program for the physics major. The standard program is recommended for those who plan to pursue graduate study in physics, or who plan to seek immediate employment upon graduation. Other options include concentrations in applied physics, astronomy, pre-medicine, biophysics, geology, and computer science. Course requirements listed below for each of the options are in addition to the courses listed under Area F and the required lower division courses listed above. The standard program and all concentrations are centered on the 22-hour core of physics courses and the nine-
The Department of Physics and Astronomy offers several concentrations within the B.S. degree program for the physics major. The standard program is recommended for those who plan to pursue graduate study in physics. Other options include concentrations in applied physics, astrophysics, and space science. Detailed information on each of the options is available in the Department of Physics and Astronomy. The requirements listed below for each of the options are in addition to the courses listed under Area E. The standard program and all concentrations are centered on the 21-hour core of physics courses and the 18-hour core of mathematics courses listed below.

**Physics Core (21)**

1. **Physics Requirements (21)**
   - Phys 3401: Modern Physics I (4)
   - Phys 3402: Modern Physics II (3)
   - Phys 3850: Statistical and Thermal Physics (3)
   - Phys 3901: Modern Physics Laboratory I (1)
   - Phys 3902: Modern Physics Laboratory II (1)
   - Phys 4600: Classical Mechanics (4)
   - Phys 4700: Electricity and Magnetism (4)
   - Phys 4950: Senior Research (1)

2. Select one course (3)
   - Phys 3801: Options (3)

3. Select one physics or astronomy laboratory course at the 4000 level (1)

**Mathematics Core (9)**

Mathematics Requirements (9)
- Math 3260: Differential Equations (3)
- Math 4258: Vector Calculus (3)
- Math 4265: Partial Differential Equations (3)

**Standard Program in Physics (15)**

To meet the requirements for the degree with the standard program, the core set of physics and mathematics courses must be completed along with additional physics and mathematics courses as described below:

1. **Required course (1)**
   - One physics laboratory course at the 4000 level (1)

2. **Physics and Astronomy Courses. Select eleven hours from the following (11):**
   - Phys 3500: Electronics (3)
   - Phys 3800: Optics (3)
   - Phys 4110: Introduction to Embedded Systems Laboratory (4)
   - Phys 4410: Introduction to Nuclear and Particle Physics (3)
   - Phys 4810: Introduction to Quantum Mechanics (3)
   - Phys 4910: Solid State Physics (3)
   - Phys 4950: Senior Research (1-2)
   - Astr 3500: Fundamentals of Astronomy and Astrophysics (4)
   - Astr 4000: Fundamentals of Astrophysics (3)
   - Astr 4100: Astronomical Techniques and Instrumentation (3)
   - One physics or astronomy laboratory course at the 4000 level (1)

3. **Mathematics and Computer Science Courses: Select one course. (3)**
   - CSc 4610: Numerical Analysis I (3)
   - Math 3435: Introductory Linear Algebra (3)
   - Math 4250: Complex Analysis (3)
   - Math 4391: Introduction to Differential Geometry and Its Applications (3)

**Applied Physics Concentration (18)**

In addition to the core courses in physics and mathematics, the applied physics concentration allows courses from other
2. Mathematics Courses. Select one course. (3)
Math 2435. Linear Algebra 2435. (3)
Math 4250. Complex Analysis 4250. (3)

3. Select eight hours of courses at the 2000-level or above in mathematics, computer science, sciences and engineering to complete the program in physics-related areas. Engineering courses are available through cross registration at the Georgia Institute of Technology. At least 15 semester hours must be completed at the 3000-level or above, and at least nine semester hours must be selected from science and/or engineering courses offered by other departments. The overall program must be developed in consultation with a faculty adviser within the Department of Physics and Astronomy.

Applied Physics Concentration (23)

In addition to the core courses in physics and mathematics, the applied physics concentration allows courses from other sciences not engineering to complete the program in physics-related areas. Engineering courses are available through joint enrollment at the Georgia Institute of Technology. At least 15 hours must be at the 3000-level or above, and at least 10 hours must be taken in other departments. The overall program must be developed in consultation with an academic advisor within the Department of Physics and Astronomy.

Astronomy Concentration (23)

In addition to the core courses in physics and mathematics, the astronomy concentration consists of 11 hours of astronomy courses (Astr 3500, 4000, 4010, and 4100), and others from the list below, to complete the requirements for the degree.

1. Astronomy Requirements (11)
   Astr 3500. Fundamentals of Astronomy and Astrophysics (4)
   Astr 4000. Fundamentals of Astrophysics (3)
   Astr 4010. Astronomical Methods Laboratory (1)
   Astr 4100. Astronomical Techniques and Instrumentation (3)

2. Physics, Mathematics, and Computer Science Courses. Select five hours from the following: (5)
   Phys 3500. Electronics (3)
   Phys 3800. Optics (3)
   Phys 4110. Introduction to Embedded Systems Laboratory (4)
   Phys 4410. Introduction to Nuclear and Particle Physics (3)
   Phys 4810. Introduction to Quantum Mechanics (3)
   Phys 4910. Solid State Physics (3)
   Phys 4950. Senior Research (1-2)
   CSc 4610. Numerical Analysis I (3)
   Math 3435. Introductory Linear Algebra (3)
   Math 4250. Complex Analysis (3)

Pre-Medicine Concentration (19)

In addition to the core set of physics and mathematics courses, the pre-medicine concentration allows courses from biology and chemistry to complete the requirements for the degree. The concentration also provides the set of physics, chemistry, and biology courses required for admission to most medical schools. Note that Biol 2107K and 2108K are prerequisites for Biol 3800 and other upper-division biology courses.

1. Required Chemistry courses (12)
   Chem 2400. Organic Chemistry I (4)
   Chem 3410. Organic Chemistry II (4)
   Chem 3100. Organic Chemistry Laboratory I (2)
   Chem 3110. Organic Chemistry Laboratory II (2)

2. Required Biology courses. Select one of the following (3):
   Biol 2340. Introduction to Modern Biology (3)
   Biol 2350. Microbiology Laboratory (1)

3. Electives. Select four hours from the following (4):
   Biol 2340. Introduction to Modern Biology (3) (unless used above)
   Biol 2350. Microbiology Laboratory (1)
   Biol 3800. Molecular Cell Biology (3) (unless used above)
Biophysics Concentration (25)

In addition to the core set of physics and mathematics courses, the biophysics concentration allows biology and chemistry courses to complete the requirements for the degree. The courses should be chosen from the list below and provide background in several areas including biochemical, biomolecular, and neural sciences. This concentration provides excellent preparation for advanced study in biological physics and for admission to M.D./Ph.D. programs. Note that Biol 2107K and 2108K are prerequisites for Biol 3800 and other upper-division biology courses.

1. Required courses (12)
   - Bio 1107K: Principles of Biology I (4)
   - Bio 1108K: Principles of Biology II (4)
   - Chem 2400: Organic Chemistry I (5)

2. Select twelve hours (Note that Chem 3410, Organic Chemistry II, is a prerequisite for many other courses in the list below)
   - Chem 3100: Organic Chemistry Laboratory I (1)
   - Chem 3110: Organic Chemistry Laboratory II (1)
   - Chem 3410: Organic Chemistry II (4)
   - Chem 4000: Physical Chemistry I (4)
   - Chem 4600: Biochemistry I (5)
   - Chem 4620: Biochemistry Laboratory I (5)
   - Chem 4840: Neurochemistry (3)
   - Biol 3804: Molecular Cell Biology I (3)
   - Biol 3814: Molecular Cell Biology Laboratory I (3)
   - Biol 3840: Animal Biology (3)
   - Biol 3854: Animal Biology Laboratory (3)
   - Biol 3864: Microbiology (3)
   - Biol 4404: Microbiology Laboratory (1)
   - Biol 3906: Genetics (3)
   - Biol 3916: Genetics Laboratory (1)
   - Biol 4102: Introduction to Neurobiology (2)
   - Biol 4180: Neurobiology Laboratory (3)
   - Phys 2101: Electronics (3)

Geology Concentration (24)

In addition to the core courses in physics and mathematics, this concentration allows geology courses to complete the requirements for the degree. The courses should be chosen from the list below.

1. Geology Requirements (16)
   - Geol 1121K: Introductory Geosciences I (4)
   - Geol 1122K: Introductory Geosciences II (4)
   - Geol 3002: Introduction to Earth Materials (4)
   - Geol 3002: Structural Geology and Tectonics (4)

2. Select six hours (Note that Geol 1121K and 1122K are prerequisites for many other courses listed.)
   - Geol 3001: Soil, Clays, and Weathering (3)
   - Geol 3004: Environmental Geology (3)

Biophysics Concentration (16)

In addition to the core set of physics and mathematics courses, the biophysics concentration allows biology and chemistry courses to complete the requirements for the degree. The courses should be chosen from the list below and provide background in several areas including biochemical, biomolecular, and neural sciences. This concentration provides excellent preparation for advanced study in biological physics and for admission to M.D./Ph.D. programs. Note that Biol 2107K and 2108K are prerequisites for Biol 3800 and other upper-division biology courses.

1. Required courses (7)
   - Biol 3800: Molecular Cell Biology (3)
   - Chem 2400: Organic Chemistry I (4)

2. Select nine hours from the following: (Chem 3410, Organic Chemistry II, is a prerequisite for many other courses listed.)
   - Chem 3100: Organic Chemistry Laboratory I (2)
   - Chem 3110: Organic Chemistry Laboratory II (2)
   - Chem 3410: Organic Chemistry II (4)
   - Chem 4000: Physical Chemistry I (3)
   - Chem 4600: Biochemistry I (5)
   - Chem 4620: Biochemistry Laboratory I (5)
   - Chem 4840: Neurochemistry (3)
   - Biol 3804: Molecular Cell Biology I (3)
   - Biol 3814: Molecular Cell Biology Laboratory I (3)
   - Biol 3840: Animal Biology (3)
   - Biol 3854: Animal Biology Laboratory (3)
   - Biol 3864: Microbiology (3)
   - Biol 4404: Microbiology Laboratory (1)
   - Biol 3906: Genetics (3)
   - Biol 3916: Genetics Laboratory (1)
   - Biol 4102: Introduction to Neurobiology (2)
   - Biol 4180: Neurobiology Laboratory (3)
   - Phys 3500: Electronics (3)

Geology Concentration (16)

In addition to the core set of physics and mathematics courses, this concentration allows geology courses to complete the requirements for the degree. The courses should be chosen from the list below. Note that Geol 1121K and 1122K are prerequisites for upper-division geology courses.

1. Required courses (4)
   - Geol 3002: Introduction to Earth Minerals (4)

2. Electives: Select 12 hours from the following (or other approved 3000-4000 geology courses)
   - Geol 4007: Hydrogeology (4)
Computer Science Concentration (16-17)

In addition to the core set of physics and mathematics courses, this option allows courses in computer science and related areas to complete the requirements for the degree. The courses should be chosen from the list below. Note that CSc 2310 and 2311 are prerequisites for upper-division computer science courses.

1. **Required courses (13)**
   - Phys 3500: Electronics (3)
   - CSc 3410: Data Structures (3)
   - CSc 4610: Numerical Analysis I (3)
   - CSc 4730: Scientific Visualization (4)

2. **Select one course from the following:** (3-4)
   - CSc 3210: Computer Organization and Programming (3)
   - CSc 4210: Computer Architecture (4)
   - CSc 4230: VLSI Design (4)
   - CSc 4250: VLSI CAD and Computer Architecture Laboratory (4)
   - CSc 4310: Parallel and Distributed Computing (4)
   - CSc 4620: Numerical Analysis II (3)
   - CSc 4820: Computer Graphics Algorithms (4)
   - Math 3030: Mathematical Models for Computer Science (3)
   - Math 3435: Introductory Linear Algebra (3)

**Minor and/or Additional Courses**

1. Students earning a B.S. through the Department of Physics and Astronomy are not required to take a minor.

2. Additional courses not in the major must be taken as electives to complete a minimum of 120 semester hours, exclusive of 1000/2000 physical education, health, or military science courses. Although not a requirement, the department recommends that physics majors take these elective courses at the 2000 level or above in mathematics, computer science, chemistry, biology, geology, physics, or astronomy. (Consult with the departmental academic adviser.)

**Minor in Physics**

Students who wish to minor in physics must take at least 15 semester hours in physics and/or astronomy courses, including at least seven semester hours at the 3000 level or above. Students taking more than 15 semester hours in these courses may count the additional hours toward their electives or may consider completing a double major. A grade of C or higher is required in all courses counting toward the minor.
Elementary Science Education Partners

Course 4920, EETP, in the department of Biology, Chemistry, Geology, Physics and Astronomy is designed for the junior or senior who wishes to apply their scientific expertise in a practical way by helping an elementary school teacher with hands-on science activities. One credit hour may be earned in a given semester. Registration for the course must be approved by the EETP local coordinator, department of Geology, and the dean of the college. Forms for course 4920 must be completed at the time of regular registration for the semester in which the student is to be enrolled in 4550 and can be obtained from the local coordinator. Course 4920 may be repeated for a maximum of 4 credit hours.

Honors Program

The department encourages qualified students to participate in the Honors Program. (See "Honors Program" previously described.)
Department of Political Science

Programs Offered:
- Bachelor of Arts in Political Science
- Concentration in General Political Science
- Concentration in International Affairs
- Concentration in Pre-Law
- American Union Studies Certificate
- Minor in Political Science

Department of Political Science
1005 General Classroom Building
404/651-3152
http://www.gsu.edu/~wwwpol

William M. Downs, Chair

Political science is the study of “who gets what, when, and how” in the distribution of goods and values in society and in groups. Specifically, political scientists study the determinants of such distributions, including political parties and voters, public opinion, interest groups, bureaucracies and administrative behavior, public law, international relations, international law and organizations, national security, intergovernmental relations, political behavior, political philosophy, comparative politics, public policy, and conflict.

Students may specialize in any of the five fields of the discipline: American politics and government, comparative politics, international politics, political theory, and public policy and administration. The department also provides specific concentrations for majors and minors in pre-law and in international affairs. The department sponsors intercollegiate academic teams for Mock Trial, Model United Nations, and Model Arab League. The department sponsors student honor societies and clubs in pre-law, international relations, and political science. In addition, the department provides advisement for pre-law students.

The proximity of Georgia State University to the center of government for the Southeast and the State of Georgia and its location in an international city of business, communication, and transportation provide unique opportunities for students to participate in government and politics. For example, many qualified students serve as interns as part of their academic program.

Program Academic Regulations

Internship and Practicum Credit: Applicants for internships must meet departmental prerequisites. Internship and practicum credit may not be applied toward the major or minor, but may be used as elective credit. Such credit includes: PolS 4930, PolS 4940, PolS 4950, PolS 4951, PolS 4952, and PolS 4955.

Program Degree Requirements

In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).
B.A. in Political Science

Area F: Courses Appropriate to the Major (18)
1. Required courses (6)
   PolS 2401 Global Issues (3) (if not taken in Area E)
   Lang 1002 Elementary Foreign Language II (3)
   (See “Foreign Language Requirement for B.A. and B.S. Majors,” previously described.)
2. Select two courses (6)
   Econ 2105 Principles of Macroeconomics (3)
   Econ 2106 Principles of Microeconomics (3)
3. Select additional courses from the following to complete 18 hours in Area F (6)

Area G: Major Courses (27)
A grade of C or higher is required in all major courses.

General Political Science Concentration (27)
1. PolS 3800 Introduction to Political Research (3)
2. Take 24 hours in political science at 3000 level or above. One course must be taken in at least three of five areas of study; these areas include American government and politics (3100’s and 4100’s), comparative politics (3200’s and 4200’s), international politics (3400’s and 4400’s), political theory (3500’s and 4500’s), and public policy and administration (3700’s and 4700’s). (24)

International Affairs Concentration (27)
1. International Affairs Requirements (9)
   PolS 3200 Comparative Politics (3)
   PolS 3400 International Politics (3)
   PolS 3800 Introduction to Political Research (3)
2. Select 15 hours at the 3000 level or above in comparative politics and international politics. (15)
3. Select 3 hours at the 3000 level or above in American politics, public policy and administration, or political theory. (3)

Pre-Law Concentration (27)
1. Pre-Law Requirements (9)
   PolS 3140 Judicial Process and Courts (3)
   PolS 4130 American Constitutional Law (3)
   PolS 4131 Civil Liberties and Rights (3)
2. PolS 3800 Introduction to Political Research (3)
3. Select 3 courses. (9)
   PolS 3110 State Government (3)
   PolS 3145 Introduction to American Law (3)
   PolS 3170 American Legislative Process (3)
   PolS 3700 Public Administration and Bureaucratic Politics (3)
   PolS 3750 Public Policy Analysis (3)
   PolS 3770 Governmental Budgeting (3)
**Major Courses (27)**

A grade of "C" or better is required in all major courses.

**General Political Science Concentration (27)**

1. **PolS 3300. Introduction to Political Research (3)**
2. Take 24 hours in political science at 3000 level or above. One course must be taken in three of five areas of study: these areas include American government and politics, comparative politics, international politics, public policy and administration, and political theory. (24)

**International Affairs Concentration (27)**

1. **PolS 3300. Introduction to Political Research (3)**
2. **International Affairs Requirements (9)**
   - PolS 3220. Comparative Politics (3)
   - PolS 3100. International Politics (3)
   - PolS 3100. International Political Theory (3)
3. Select 15 hours in the 3000 level or above in comparative politics and international politics. (15)
4. Select 3 hours at the 3000 level or above in American politics, public policy and administration, or political theory. (3)

**Pre-Law Concentration (27)**

1. **Pre-Law Requirement (9)**
   - PolS 1145. Legal Research and Writing (3)
   - PolS 4129. Constitutional Law I (3)
   - PolS 4131. Constitutional Law II (3)
2. **PolS 1300 (3)**
3. Select 9 hours (3)
   - PolS 3116. State Government (3)
   - PolS 3120. American Legislative Process (3)
   - PolS 3128. Public Administration and Bureaucratic Politics (3)
   - PolS 3150. Public Policy Analysis (3)
   - PolS 3176. Governmental Budgeting (3)
   - PolS 4115. Urban Politics (2)
   - PolS 4157. Politics of the Civil Rights Movement (3)
   - PolS 4186. American Chief Executives (3)
   - PolS 4192. International Law (3)
   - PolS 4190. American Political Thought (3)
   - PolS 4780. Administrative Law and Government (3)
4. Select 6 additional hours in political science. (6)
5. If the courses taken, students must have one course in three of the five areas of the discipline.

**Requirements of Pre-Education Concentration for Political Science Majors (27)**

1. **PolS 3800. Introduction to Political Research (3)**
2. Select one course:
   - PolS 4130. American Constitutional Law (3)
   - PolS 4131. Civil Liberties and Rights (3)
3. Select one course:
   - PolS 3110. State Government (3)
   - PolS 3170. American Legislative Process (3)
   - PolS 4115. Urban Politics (3)
   - PolS 4180. American Chief Executives (3)
4. Select one course:
   - PolS 3200. Comparative Politics (3)
   - PolS 3400. International Politics (3)
5. Select 15 additional hours in political science.
6. Of the courses taken, students must have one course in three of the five areas of the discipline.

**Requirements of Allied Field Concentrations**

To earn the Certificate in Pre-Education Broad Field Social Science, students must also take allied field concentrations (nine hours) from three of the following disciplines: economics, geography, history, or behavioral science (nine hours from anthropology, psychology, or sociology). Note the student must take a total of 27 hours with nine hours in each of the three disciplines. The student should see each department’s list for the courses to be taken in the nine hours for that discipline. If students choose to take an allied field in one of the three departments listed above under behavioral science, then they should not take an allied field in one of the other departments in that grouping. Students should consult with their departmental advisers in making choices.
Area H: Minor and/or Additional Courses

1. Students majoring in political science who take either the general political science concentration or the international affairs concentration are not required to take a minor. Students in the pre-law concentration should see the department’s pre-law advisor for further information. Students in the pre-education concentration take allied fields rather than a minor.

2. Additional courses not in the major or in a minor must be taken as electives to complete a minimum of 120 semester hours, exclusive of 1000/2000 physical education or military science courses.

Allied Field Concentration in Political Science for Pre-Education Majors in Other Social Science Departments (9)

Students majoring in other social sciences and who seek the Certificate in Broad Field Social Science Education should choose from the following courses in using political science as an allied field to their major.

1. Select one course
   - PolS 4130 American Constitutional Law (3)
   - PolS 4131 Civil Liberties and Rights (3)

2. Select one course
   - PolS 3110 State Government (3)
   - PolS 3170 American Legislative Process (3)
   - PolS 4115 Urban Politics (3)
   - PolS 4180 American Chief Executives (3)

3. Select one course
   - PolS 3200 Comparative Politics (3)
   - PolS 3400 International Politics (3)

European Union Studies Certificate

The department provides courses and advising in regard to the European Union Studies Certificate offered by the University System of Georgia. This program enables students to develop expertise in the European Unions and in EU studies. Dr. William Downs of the department serves as campus representative. See Section 8020 of the “Additional University Programs” chapter for a detailed description.

Minor in Political Science

Students wishing to minor in political science should take 15 hours of political science courses at the 3000 level or above. Students seeking to take a minor in political science/pre-law should take PolS 3140, 4130, 4131, and two courses from PolS 3110, 3145, 3170, 3700, 3770, 4115, 4127, 4180, 4420, 4425, 4570, and 4780. Students seeking to take a minor in political science/international affairs should take PolS 2401 (if not taken in Area E), 3500, 3400, and nine additional hours at the 3000 level or above in comparative or international politics.

Residency Requirement

A minimum of 30 semester hours in courses at the 3000 level or above must be completed in residence at Georgia State University with an average of "C" or better.

Internships

Applicants for internships must meet departmental prerequisites. Internship credit may not be applied toward the major, but may be used as elective credit.

Honors Program

The Department encourages qualified students to participate in the Honors Program. (See “Honors Program,” described previously.)

Master's Degrees in International Business and Government
In conjunction with the Institute of International Business, the department offers joint master’s degrees in international business and government. Students wishing to enter this graduate program should take prerequisites as an undergraduate. Students should contact the department for further information.
Programs Offered:
- Bachelor of Arts in Psychology
- General Program in Psychology
- Concentration in Community Psychology
- Concentration in Pre-Education

Bachelor of Science in Psychology
- General Program in Psychology
- Concentration in Community Psychology
- Concentration in Pre-Medicine

Minor in Psychology

Department of Psychology
11th Floor, Urban Life Building
404/651-2283
http://www.gsu.edu/psychology

David A. Washburn, Chair
Lisa Armistead, Associate Chair
Sarah L. Cook, Director of Undergraduate Studies

Psychology is the science of the behavior of humans and animals. The topics of investigation range from the life sciences to the social sciences, and applications occur in clinical, industrial, community, and other social contexts. Psychological knowledge contributes to the understanding of experience and behavior and to the formation of optimal personal relations.

A career in psychology usually requires a graduate degree. An undergraduate major in psychology can serve as a prerequisite for graduate study in psychology or as background for other careers, e.g., business, law, medical or allied health sciences, and teaching. A major in psychology also can serve the general interest of liberal arts education. The department maintains reference materials, including videotapes and an Internet website to assist in career advisement. Students wishing to be psychology majors must first be advised by Academic Assistance of the College of Arts and Sciences and then by the psychology undergraduate adviser.

Program Academic Regulations
Before taking upper-division courses, students must have completed 60 hours or have the permission of the instructor. All majors must complete the courses in Areas 1, 2, and 3, as specified below. Concentrations have more specific requirements (for more details see the concentration requirements that are listed after the area requirements). Majors who meet the requirements in Areas 1, 2, and 3 and do not choose to pursue a concentration will graduate in the general program.

B.A. Degree
- Students must take a foreign language and six additional hours from courses in Area E. (See “Foreign Language Requirement for B.A. and B.S. Majors,” previously described.)

B.S. Degree
-
Students must take nine semester hours from the courses listed below. We strongly recommend a two-course lab sequence in Principals of Biology, Introduction to Chemistry, or Introduction to Physics.


Program Degree Requirements

The Department of Psychology offers a general program in psychology plus concentration in specific areas of psychology. The general program offers the most choice in courses for a degree in psychology. Concentrations have more restrictive curricula than the general program and are intended to prepare students for a more specific career path. Most students will be in the general program. Students planning graduate school or other advanced training in an area related to one of the concentrations should consider applying for admission to that concentration.

In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

B.A. in Psychology and B.S. in Psychology

Areas A-E: Core Curriculum Recommendations
1. Recommended course:
   Psyc 1100  Natural Science Aspects of Psychology (3)

Areas F: Courses Appropriate to the Major (18)
1. Psyc 1101  Introduction to General Psychology (3) (take here rather than in Area E)
2. Select two courses. (6)
   Psyc 2040  Introduction to Applied Psychology (3)
   Psyc 2050  Introduction to Drugs and Behavior (3)
   Psyc 2070  Introduction to Human Sexuality (3)
   Psyc 2101  Introduction to the Psychology of Adjustment: A Personal Growth Course (3)
   Psyc 2103  Introduction to Human Development: Individual and Family Issues (3)
3. Non-Psychology courses (9)

Area G: Major Courses (32)

Area A: Institutional Options (4)
Area B: Humanities and Fine Arts (6)
Area C: Science, Mathematics, and Technology (11)
   Required course:
   Psyc 1100  Natural Science Aspects of Psychology (3)
Area D: Special (12)

General Program in Psychology (32)
Area 1: Basic Requirements (11)
Area 1 courses must be completed by the end of the junior year (90 hours). Students with 90 hours who have not completed all Area 1 courses may not register for any psychology courses other than those in Area 1. To insure that this requirement is met, students should take Psyc 3010 (a prerequisite for Psyc 3030) during the first semester of the junior year. Failure to complete these courses in a timely manner may delay graduation.

Required Courses:
   Psyc 3010  Psychological Statistics (4)
   Psyc 3030  Principles and Methods of Psychological Investigation (4) (This course has a laboratory and is the Psychology Writing Across the Curriculum course.)
   Psyc 3110  Psychology of Interpersonal Behavior (3)
Area 2: Advanced Core (9)

Take one course from each group and one additional course from either group for a total of three courses.

**Group A:**
- Psyc 3140 Abnormal Psychology (3)
- Psyc 4020 Social Psychology (3)
- Psyc 4040 Developmental Psychology (3)
- Psyc 4160 Theories of Personality (3)
- Psyc 4510 Community Psychology (3)

**Group B:**
- Psyc 4100 Cognitive Psychology (3)
- Psyc 4110 Physiological Psychology (3)
- Psyc 4120 Learning (3)
- Psyc 4130 Sensation and Perception (3)

Area 3: Psychology Program (12)
Select 12 hours in psychology courses at the 3000 level or above.

**Concentrations**

Psychology majors wishing to graduate in a concentration must be accepted into the concentration and meet the requirements for graduation listed below. They also must meet all general program requirements listed above.

Students must complete all lower-division requirements prior to being admitted to a concentration. Application for a concentration may be made during the semester when the lower-division requirements will be completed or a later semester. Students completing a concentration will receive a certificate and will have an appropriate annotation placed on their transcript.

**Community Psychology Concentration (32)**

Community Psychology is an area of psychology that aims to apply psychology toward improving the well-being of human groups. An ecological perspective, a prevention orientation, and an appreciation of diversity characterize this area. Often community psychology takes the form of “action research” in which knowledge gained from basic research or psychological theory is applied in real-world settings. At other times it takes the form of relatively more basic research on social problems or community functioning. The concentration is most appropriate for students who want to apply psychology theories and methods to solving social and environmental problems, such as drug abuse, homelessness, and violence. The curriculum should prepare graduates either to pursue graduate education in community psychology or to work in community-based organizations.

Area 1: Basic Requirements
(See "General Program in Psychology," Area 1, described above.)

Area 2: Advanced Core (9)
1. Required Courses (6)
   - Psyc 4020 Social Psychology (3)
   - Psyc 4510 Community Psychology (3)
2. Select one course. (3)
   - Psyc 4100 Cognitive Psychology (3)
   - Psyc 4110 Physiological Psychology (3)
Area 2: Advanced Core (9)

Take one course from each group and one additional course from either group.

Group A:
- Psy 4140: Abnormal Psychology (3)
- Psy 4020: Social Psychology (3)
- Psy 4040: Developmental Psychology (2)
- Psy 4160: Theories of Personality (3)
- Psy 4110: Community Psychology (3)

Group B:
- Psy 4100: Cognitive Psychology (3)
- Psy 4110: Physiological Psychology (3)
- Psy 4120: Learning (3)
- Psy 4120: Sensation and Perception (3)

Area 3: Psychology Program (12)

1. Select one course. (3)
   - Psy 4240: People in Organizations (3)
   - Psy 4520: Environmental Psychology (3)

2. Select one course. (3)
   - Psy 3520: Introduction to African-American Psychology (3)
   - Psy 4620: Psychology of Women (3)

3. Psy 4770: Practicum in Psychology (1-3)

4. Select one additional psychology course at the 3000 level or above. (3)

Pre-Education Track in Psychology

The Social Studies Education Concentration in Psychology is designed for students who wish to become secondary school teachers. This degree provides the initial content area preparation for the Alternative M.Ed. Program in Social Studies Education in the College of Education at Georgia State University or a similar master’s degree at another university. Contact the department for additional information.

Pre-Medicine Concentration

Students interested in attending medical school are advised to consider the pre-medicine concentration. Those wishing to pursue this concentration should be aware that the requirements will differ from those listed in the regular psychology curriculum. The Department of Psychology has a pre-medicine adviser. For more information on the pre-medicine curriculum contact the Office of Academic Assistance, College of Arts and Sciences, Room 724, General Classroom Building, 404/651-2291.

Area H: Minor and Additional Courses

Students majoring in psychology are not required to take a minor.

Minor in Psychology

Students who wish to minor in psychology must take 15 hours in psychology courses at the 3000 level or above. Students taking more than 15 hours in psychology may count the additional hours toward their electives or may consider completing a double major. (A grade of C or higher is required in all courses counting toward the minor.)

Honors Program and Psi Chi

The department participates in the Honors Program (See “Honors Program,” described previously) and sponsors a chapter of Psi Chi, the national honor society in psychology. Qualified students are encouraged to participate in these programs. The diplomas of students who complete the University Honors Program indicate that they graduate with honors in psychology.

Graduation with Distinction in Psychology

Departmental distinction is separate from the Honors Program. Majors who have an overall average of at least 3.5 and have demonstrating outstanding research, leadership, or service to the department may be nominated by faculty members for graduation with distinction. More information about graduation with distinction is available in the department.
Area 1: Basic Requirements
(See "General Program in Psychology," Area 1, described above.)

Area 2: Advanced Core (9)

1. Required course (3)
   PSY 2145: Abnormal Psychology (3)

2. Recommended course (3)
   PSY 4150: Theories of Personality (3) (If not taken, select one course from either Group A or Group B in "General Program in Psychology," Area 2, described above.)

3. Select one course (3)
   PSY 4110: Cognitive Psychology (3)
   PSY 4110: Psychophysiological Psychology (3)
   PSY 4130: Learning (3)
   PSY 4130: Sensation and Perception (3)

Area 3: Psychology Program (12)

1. Select two of the following (6)
   A. PSY 4200: Psychological Testing and Measurement (3)
   B. PSY 4220: Introduction to Behavior Modification (3)

   C. One course selected from:
      PSY 4300: Adolescent Psychology (3)
      PSY 4350: Health Psychology (3)
      PSY 4500: Psychology of Aging (3)
      PSY 4510: Crime, Deviance, and Psychology (3)
      PSY 4550: Psychology of the Exceptional Child (3)
      PSY 4800: Seminar: Psychology of Violence (3)

2. Select one course (3)
   PSY 4290: Clinical Theory and Psychopathology (3)
   PSY 4760: Research in Psychology (3)*
   PSY 4770: Professional Ethics in Psychology (3)*

* These must be approved by the student's concentration faculty. As such, these courses have the prerequisites of PSY 2145 (Abnormal Psychology) and either PSY 4200 (Psychological Testing and Measurement) or PSY 4220 (Introduction to Behavior Modification). As the course titles, PSY 4500 also has these prerequisites.

3. Clinical Studies Electives: Select one course (3)
   PSY 3520: Introduction to African American Psychology (3)
   PSY 4610: Psychology of Women (3)
   PSY 4040: Psychology of Men (3)
   Or any additional course listed in Area 3 for the clinical studies concentration (3)

Community Psychology Concentration (12)

Community Psychology is an area of psychology that aims to apply psychological theories toward improving the well-being of human groups. It is characterized by an ecological perspective, a prevention orientation, and an appreciation of diversity. Often, community psychology takes the form of "action research" in which knowledge gained from basic research or psychological theory is applied in real-world settings. At other times, it takes the form of relatively more basic research on social problems or community
Admission/Graduation

Students in this concentration must satisfy all requirements of the university, the college, the department, and the concentration.

Area 1: Basic Requirements
(See "General Program in Psychology," Area 1, described above.)

Area 2: Advanced Core (9)
1. Required Course (6)
   - PSY 4020: Social Psychology (3)
   - PSY 4510: Community Psychology (3)
2. Select one course (3)
   - PSY 4180: Cognitive Psychology (3)
   - PSY 4190: Physical Psychology (3)
   - PSY 4195: Learning (3)
   - PSY 4190: Sensation and Perception (3)

Area 3: Psychology Program (12)
1. Select one course (3)
   - PSY 4200: People in Organizations (3)
   - PSY 4520: Environmental Psychology (3)
2. Select one course (3)
   - PSY 4520: Introduction to African-American Psychology (3)
   - PSY 4610: Psychology of Women (3)
3. PSY 4770: Practicum in Psychology (3)
4. Select one additional psychology course at the 3000 level or above. (3)

Pre-Med Concentration

Students interested in attending medical school are advised to consider the pre-med concentration. Those wishing to pursue this concentration should be aware that the requirements will differ from those listed in the regular psychology curriculum. The Psychology Department has a pre-med advisor. For more information on the pre-med curriculum contact the Office of Academic Assistance, College of Arts and Sciences, Room 724, General Classroom Building, phone 664-51-2201.

Minor and/or Additional Courses

1. Students majoring in psychology are not required to take a minor.
2. Additional courses in a department/field/interest outside the Psychology must be taken as electives to complete a minimum of 120 semester hours, exclusive of 100/2000 physical education or military science courses.
Minor Offerings

Students who wish to minor in psychology must take 15-18 hours in courses in psychology including at least 9 semester hours at the 3000 level or above. Students taking more than 15 hours in courses in psychology may count the additional hours toward their electives or may consider completing a double major (A grade of "C" or better is required in all courses counting toward the minor).

Residency Requirement

A minimum of 18 semester hours in courses at the 3000 level or above must be completed in residence at Georgia State University with an average grade of "C" or better.

Honors Program and Psi Chi

The department participates in the Honors Program (see "Honors Program," described previously) and sponsors a chapter of Psi Chi, the national honor society in psychology. Qualified students are encouraged to participate in these programs. The admission of students to the University Honors Program indicates that they graduate with honors in psychology.
3500 Religious Studies

Programs Offered:
Bachelor of Arts in Religious Studies
Minor in Religious Studies

Department of Religious Studies
34 Peachtree Street, 11th floor
404/651-2277

http://ww.gsu.edu/religion

Timothy Renick, Chair
Jonathan Herman, Director of Undergraduate Studies

Offerings in religious studies, all of which are taught from a non-sectarian perspective, include comparative courses on such topics as world religions, religious thought, religious ethics, mysticism, and women and religion, as well as a host of courses on specific religious traditions including Buddhism, Hinduism, Shinto, Taoism, Confucianism, Judaism, Christianity, and Islam. Students majoring in religious studies have the opportunity to take and have counted toward their major select courses in other departments and programs in the College of Arts and Sciences including African American studies, anthropology, art history, classics, history, music, political science, and sociology. Courses in religious studies contribute to a student’s understanding of the beliefs and actions of diverse peoples and cultures. They also contribute to the student’s self understanding through uncovering and exploring major tenets of his or her own culture. The major in religious studies is designed to provide a rich training in the liberal arts and is particularly appropriate for those students considering careers in government, health, law, education, international business, social work, the ministry, or media. Students in other fields are encouraged to consider the possibility of a double major with religious studies. Students can find a more detailed description of the Religious Studies Program and its offerings, as well as news about its faculty and upcoming events, on the Web at http://ww.gsu.edu/religion.

Program Admission
All undergraduates in good academic standing are eligible for the major and minor in religious studies.

Program Academic Regulations
Only courses in which students earn a C or higher may be applied to the major and minor in religious studies.

Program Degree Requirements
In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

B.A. in Religious Studies

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<thead>
<tr>
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<tbody>
<tr>
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</tr>
<tr>
<td>Bachelor of Arts</td>
</tr>
<tr>
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B.A. in Religious Studies

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</tr>
</tbody>
</table>

Department of Religious Studies
34 Peachtree Street, 11th floor
404/651-2277

http://ww.gsu.edu/religion

Timothy Renick, Chair
Jonathan Herman, Director of Undergraduate Studies

Offerings in religious studies, all of which are taught from a non-sectarian perspective, include comparative courses on such topics as world religions, religious thought, religious ethics, mysticism, and women and religion, as well as a host of courses on specific religious traditions including Buddhism, Hinduism, Shinto, Taoism, Confucianism, Judaism, Christianity, and Islam. Students majoring in religious studies have the opportunity to take and have counted toward their major select courses in other departments and programs in the College of Arts and Sciences including African American studies, anthropology, art history, classics, history, music, political science, and sociology. Courses in religious studies contribute to a student’s understanding of the beliefs and actions of diverse peoples and cultures. They also contribute to the student’s self understanding through uncovering and exploring major tenets of his or her own culture. The major in religious studies is designed to provide a rich training in the liberal arts and is particularly appropriate for those students considering careers in government, health, law, education, international business, social work, the ministry, or media. Students in other fields are encouraged to consider the possibility of a double major with religious studies. Students can find a more detailed description of the Religious Studies Program and its offerings, as well as news about its faculty and upcoming events, on the Web at http://ww.gsu.edu/religion.

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B.A. in Religious Studies

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</tr>
</tbody>
</table>
### Area F: Core Curriculum Requirements (40-45 hours)

**1. Required Courses (6)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lang 1002</td>
<td>Elementary Foreign Language II (3)</td>
<td></td>
</tr>
<tr>
<td>Lang 2001</td>
<td>Intermediate Foreign Language I (3)</td>
<td></td>
</tr>
<tr>
<td>Lang 2002</td>
<td>Intermediate Foreign Language II (3)</td>
<td></td>
</tr>
</tbody>
</table>

**2. Recommended Courses (6)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
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<tbody>
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<td></td>
</tr>
<tr>
<td>Lang 2002</td>
<td>Intermediate Foreign Language II (3)</td>
<td></td>
</tr>
</tbody>
</table>

**3. Select additional 1000-2000-level courses in humanities, social sciences, natural sciences, and fine arts to complete the 18 hours required in Area F. (6-12)**

*Note: The Department of Philosophy recommends, but does not require, that Religious Studies majors complete the foreign language sequence Lang 1002, 2001, and 2002. (See “Foreign Language Requirement for B.A. and B.S. Majors,” previously described.)*

### Area G: Major Courses (24)

A grade of C or better is required in all major courses.

To satisfy the requirements for the B.A. degree with a major in religious studies, a student must take a total of 24 semester hours (a minimum of 18 of these hours must be taken in upper division, 3000 or 4000-level courses, with a B grade or higher, including the following distribution requirements:)

**1. Major Requirements (6)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RelS 3050</td>
<td>Introduction to Religion</td>
<td>(3)</td>
</tr>
<tr>
<td>RelS 3270</td>
<td>World Religions</td>
<td>(3)</td>
</tr>
</tbody>
</table>

**2. Electives (18)**

Students must take an additional 18 credit hours in RelS courses at the 3000 and 4000 level to complete the major. Of these 18 hours, up to six semester hours may be taken in the following upper-division courses taught outside the Department of Philosophy and apply them to their B.A. major:

- AH 4020, AH 4200, Anth 4070, Clas 2202, Clas 2203, Hist 3510, Hist 4780, Mus 4300, PolS 4285, Soci 3228.

### Area H: Minor and Additional Courses

1. Students majoring in philosophy or religious studies are not required to take a minor.
2. Additional courses not in the major must be taken as electives to complete a minimum of 120 semester hours, exclusive of 1000/2000 physical education or military science courses. The department strongly recommends that philosophy and religious studies majors take the fourth semester of a foreign language as an elective course.

### Minor in Religious Studies

Students who wish to minor in religious studies must take at least 15 hours in courses with a RelS prefix, including at least nine semester hours at the 3000 level or above. Students taking more than 15 hours in courses with a RelS prefix may consider completing a double major. (A grade of C or higher is required in all courses counting toward the minor.)

### Minor in Religious Studies

Students who wish to minor in religious studies must take at least 15 hours in courses with a RelS prefix, including at least nine semester hours at the 3000 level or above. Students taking more than 15 hours in RelS courses must count the additional hours toward their electives or may consider completing a double major. (A grade of C or higher is required in all courses counting toward the minor.)
<table>
<thead>
<tr>
<th>Department of Sociology</th>
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<tbody>
<tr>
<td>1041 General Classroom Building, #304531</td>
</tr>
<tr>
<td>404/651-2285</td>
</tr>
<tr>
<td><a href="http://www.gsu.edu/sociology">http://www.gsu.edu/sociology</a></td>
</tr>
</tbody>
</table>

Donald C. Reitzes, Chair
Wendy Simonds, Undergraduate Director

Sociologists study power dynamics as they relate to family life, race, gender, class, sexuality, deviance, selfhood, social change, urbanization, aging, birth and death, and a host of applied topics. Students majoring in sociology explore the ways in which individual agency affects and is limited by social structures. Students majoring in sociology may choose one of six programs of study. Majors can follow the general program in sociology, or they can select a concentration in family, race and urban studies, gender and sexuality, gerontology, or social studies education. Students completing concentrations are awarded a certificate in their area of concentration from either the Department of Sociology or the Gerontology Institute.

### Program Academic Regulations
A grade of C or higher is required in all courses counting toward the major.

### Program Degree Requirements
In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

### B.A. in Sociology
Area F: Courses Appropriate to the Major (18)

1. Required Courses (9)
   - Soci 1101 Introductory Sociology (3)
   - Soci 1160 Introduction to Social Problems (3)
   - Lang 1002 Elementary Foreign Language II (3)
2. Select additional courses to complete the 18 hours in Area F from the following: AAS 2010, Anth 2020, CSc 2301, Econ 2105, Econ 2106, Geog 1101, Hist 1140, Hist 2110, Lang 2101, Lang 2102, Math 1070, Math 1111, Phil 2010, Phil 1010, PolS 2401

Area G: Major Courses (27)
Soci 1101 (Introductory Sociology) and Soci 1160 (Introduction to Social Problems) are required of all students who major in sociology. These six hours are in addition to the 27 upper-division hours in major courses. A grade of C or higher is required in all major courses.

General Program in Sociology (27)
1. Major Requirements (12)
   - Soci 3010 Social Statistics (3)
   - Soci 3020 Social Research Methods (3)
   - Soci 3030 Sociological Theory (3)
   - Soci 3201 Wealth, Power, and Inequality (3)

   Note: Students must take Soci 3010 and Soci 3020 in sequence, beginning with 3010, and may not take these courses during the same term.

2. Select an additional 15 hours in sociology courses at the 3000 level or above. (15)

Family Concentration (27)
The family concentration provides students with a comprehensive educational and training curriculum in the study of the family. The concentration is appropriate for students who plan to pursue careers in public and private agencies concerned with the family and family problems. This concentration is also appropriate for students preparing for admission to graduate or professional programs in a variety of fields (e.g., sociology, social work, family studies, or health science). Students completing the concentration are awarded a certificate in family sociology by the Department of Sociology.

1. Major Requirements (12)
   - Same as in section 1 of General Program in Sociology, described above

2. Family Core Course (3)
   - Soci 3101 Families and Society (3)

3. Select one course from the following list. (3)
   - Soci 3152 Birth and Parenthood (3)
   - Soci 3162 African-American Family (3)
   - Soci 4150 Sexual and Intimate Violence (3)

4. Select two courses from the following or the list in section 3 above. (6)
   - Soci 3110 Identity, Self, and Social Interaction (3)
   - Soci 3156 Sexuality and Society (3)
   - Soci 3212 Race and Ethnic Relations (3)
   - Soci 3216 Gender and Society (3)
   - Soci 3232 Poverty and Welfare (3)
   - Soci 3346 Drug Use and Abuse (3)
   - Soci 3352 Mental Illness in the United States (3)
   - Soci 3356 Sexual Identity (3)
   - Soci 4116 Aging and Society (3)
   - Soci 4122 Death, Dying, and Loss (3)
Gender and Sexuality Concentration (27)

This concentration provides students with a comprehensive educational and training curriculum in the study of gender and sexuality. It is appropriate for students who wish to pursue careers in public and private agencies dealing with issues such as domestic violence, sexual assault, legal equity and equal access issues, sexual health and education, and procreative issues. The concentration is also appropriate for students preparing for admission to graduate or professional programs in a variety of fields (e.g., sociology, social work, health sciences, family studies, or women’s studies). Students completing the gender and sexuality concentration will be awarded a certificate by the Department of Sociology.

1. Major Requirements (12)
   Same as in section 1 of General Program in Sociology, described above

2. Gender and Sexuality Core Courses (6)
   Soci 3156  Sexuality and Sociology (3)
   Soci 3216  Gender and Society (3)

3. Select two courses from the list below. (6)
   Soci 3101  Families and Society (3)
   Soci 3110  Identity, Self, and Social Interaction (3)
   Soci 3125  Birth and Parenthood (3)
   Soci 3142  African-American Family (3)
   Soci 4315  Sexual and Intimate Violence (3)
   Soci 4320  Social Inequality and Society (3)
   Soci 4321  Race and Ethnic Relations (3)
   Soci 4324  Sociology of Gender (3)
   Soci 4325  Crime and Punishment (3)
   Soci 4344  Drugs and Alcohol (3)
   Soci 4348  Mental Illness in the U.S. (3)
   Soci 4384  Aging and Society (3)
   Soci 4385  Death, Dying, and Loss (3)
   Soci 4386  Life in Society (3)
   Soci 4387  Sociology of Health and Illness (3)
   Soci 4388  Issues in the African-American Community (3)

4. Soci 4980  Internship (3-6)

Gerontology Concentration (30)

The gerontology concentration is designed to prepare students for admission to graduate and professional programs in a variety of fields that focus on issues of aging (e.g., sociology, social work, psychology, nursing, medicine, and public administration). The concentration also prepares students for careers and occupations that center around older persons (e.g., in senior centers, nursing homes, retirement residences, nutrition programs, and volunteer programs.) Completion of the concentration qualifies students for a certificate in gerontology. Students who wish to earn the certificate must apply to the program through the university’s Gerontology Institute, 605 One Park Place, as soon as the concentration is selected.

   Soci 4230  Sociology of Health and Illness (3)
   Soci 4310  Issues in the African-American Community (3)
   Soci 4315  Girls (3)
   Soci 4380  Educational Sociology (3)

5. Soci 4980  Internship (3-6)
1. Major Requirements (12)
Same as in section 1 of General Program in Sociology, described above

2. Gerontology Requirements (9)
Gero 4200 Health and the Older Adult (3)
Gero 4610 Psychology of Aging (3) (Prerequisite: Psy 1101)
Soci 4116 Aging and Society (3)

3. Select one course. (3)
Soci 4110 Aging Policy and Services (3)
SW 4260 Aging Practice, Policy and Research Issues (3)

4. Select one course. (3)
Gero 4475 Communication and Aging (3)
Soci 4110 Aging Policy and Services (3) (if not taken in section 3 above)
Soci 4122 Death, Dying, and Loss (3)
SW 4260 Aging Practice, Policy and Research Issues (3) (if not taken in section 3 above)

5. Gero 4910 Gerontology Internship (3-6)

Race and Urban Studies Concentration (27)
The race and urban studies concentration is designed to provide students with an understanding of the various social forces which shape race relations, urban politics, social inequality, and the ever changing relationship between city and suburb. This concentration is appropriate for students seeking training in careers or activism in non-profit organizations, city or state government, housing and urban advocacy organizations, social justice institutes, or any private organization that focuses on social or racial inequality. The program is of particular relevance to students preparing for admission to graduate or professional programs in a variety of fields (e.g., law, sociology, urban planning, and public health). Students completing the concentration are awarded a certificate in race and urban studies by the Department of Sociology.

1. Major Requirements (12)
Same as in section 1 of General Program in Sociology, described above

2. Race and Urban Studies Core Courses (6)
Soci 3212 Race and Ethnic Relations (3)
Soci 4226 Urban Sociology (3)

3. Select two courses (6)
Soci 3208 Work and Employment (3)
Soci 3214 American Racial-Ethnic Groups (3)
Soci 3220 Activism, Protest, and Revolution (3)
Soci 3222 Deviant Behavior (3)
Soci 3224 Crime and Punishment (3)
Soci 3225 Sociology of Popular Culture (3)
Soci 4116 Issues in the African-American Community (3)
Soci 4112 African-American Women in the United States (3)

4. Select two additional courses from the list in section 2 and sections 3 above (6)

5. Soci 4910 Internship (3-6)

Gerontology Concentration (27)
The gerontology concentration is designed to prepare students for admission to graduate and professional programs in a variety of fields that focus on issues of aging (e.g., sociology, social work, psychol-
The social studies education concentration in sociology is designed for students who wish to become public school teachers by completing the initial teacher preparation alternative M.Ed. program in Social Studies Education in the College of Education (or a similar master's level initial preparation program at another university). This concentration provides the content preparation for teaching sociology and other social studies courses at the middle and high school levels. Students pursuing this concentration must also choose three allied fields (minor areas) from the following departments, taking nine hours in each, for a total of 27 hours: economics, geography, history, or political science (see these departments for specific course requirements). Students choosing the Sociology Concentration may not select anthropology or psychology as an allied field. A certificate in Social Studies Education in Sociology will be awarded by the Department of Sociology upon completion of the program.

*Please note:* In order to gain teacher certification, students completing this degree program should also complete the requirements for a master's degree in social science education (see the College of Education for more details).

1. Major Requirements (12)
   (Same as in section 1 of General Program in Sociology, described above.)

2. Select one course from each group, for a total of five courses (15)
   a. Family and Life Course (3-6)
      - Soci 3101 Families and Society (3)
      - Soci 3110 Identity, Self, and Social Interaction (3)
      - Soci 3152 Birth and Parenthood (3)
      - Soci 3162 African-American Family (3)
      - Soci 4116 Aging and Society (3)
   b. Race and Urban (3-6)
      - Soci 3212 Race and Ethnic Relations (3)
      - Soci 4226 Urban Sociology (3)
      - Soci 4279 Metropolitan Atlanta (3)
      - Soci 4310 Issues in the African-American community (3)
      - Soci 4380 Educational Sociology (3)
   c. Gender and Sexuality (3-6)
      - Soci 3156 Sexuality and Society (3)
      - Soci 3216 Gender and Society (3)
      - Soci 3356 Sexual Identity (3)
      - Soci 4150 Sexual and Intimate Violence (3)
      - Soci 4311 African-American Male-Female Relationship (3)
      - Soci 4315 Girls (3)

3. Allied Field Concentration in Sociology for Pre-Education Majors in Other Social Science Departments (9)
   Note: This section applies only to students specializing in Social Studies Education. Select one course from each of the
   - Soci 4230 Sociology of Health and Illness (3)
   - Soci 4279 Metropolitan Atlanta (3)
   - Soci 4310 Issues in the African-American Community (3)
   - Soci 4312 African-American Women in the United States (3)
   - Soci 4360 Religion and Society (3)
   - Soci 4366 Law and Society (3)
   - Soci 4380 Educational Sociology (3)
   - Soci 4980 Internship (3-6)
following areas (9)

a. Family and Life Course (3)
   Soci 3101     Families and Society (3)
   Soci 3110     Identity, Self, and Social Interaction (3)
   Soci 3152     Birth and Parenthood (3)
   Soci 3162     African-American Family (3)
   Soci 4116     Aging and Society (3)

b. Race and Urban (3)
   Soci 3201     Wealth, Power, and Inequality (3)
   Soci 3212     Race and Ethnic Relations (3)
   Soci 4226     Urban Sociology (3)
   Soci 4279     Metropolitan Atlanta (3)
   Soci 4310     Issues in the African-American Community (3)
   Soci 4380     Educational Sociology (3)

c. Gender and Sexuality (3)
   Soci 3156     Sexuality and Society (3)
   Soci 3216     Gender and Society (3)
   Soci 3356     Sexual Identity (3)
   Soci 4150     Sexual and Intimate Violence (3)
   Soci 4311     African-American Male/Female Relationships (3)
   Soci 4315     Girls (3)

Area H: Minor and Additional Courses
1. Students majoring in sociology are not required to take a minor.
2. Additional courses not in the major must be taken as electives to complete a minimum of 120 semester hours, exclusive of 1000/2000 physical education or military science courses.

Minor in Sociology
Students who wish to minor in sociology must take 15-18 hours in courses in sociology, including at least nine semester hours at the 3000 level or above. Students taking more than 15 hours in courses in sociology may count the additional hours toward their electives or may consider completing a double major. (A grade of C or higher is required in all courses counting toward the minor.)

Sociology Club and Honor Society
The department sponsors a Sociology Club. The club is an academic, social and service organization. Interested students are encouraged to participate. Additional information can be obtained from the club email at socinfo@gsu.edu, or by contacting Dr. Lesley Reid at soclwr@langate.gsu.edu.
Programs Offered:
Bachelor of Arts in Spanish
Concentration in Literature
Concentration in Language and International Business Concentration in Foreign Language Education
Bachelor of Arts in Spanish and M.I.B. Joint Degree
Minor in Spanish

The Department of Modern and Classical Languages serves a threefold purpose: to encourage an appreciation of humanistic values through the study of foreign languages, literatures, and cultures; to teach foreign languages as a means of communication; and to prepare students for academic careers and the opportunities available in the field of international business. As part of a dynamic urban university in a city of growing international awareness and status, the department is fulfilling its responsibility to meet the increasing foreign language needs of the governmental, business and professional communities.

The department recognizes that an active command of the foreign language and a thorough exploration of the foreign culture form an essential basis for further study in the various areas of its curriculum. To this end, the department sponsors study-abroad programs in Paris, Madrid, Guadalajara (Mexico), and Bruges (Belgium).

The department has a Modern Language Acquisition and Resource Center with a 40-student capacity audio laboratory. There are also 15 computers at which students may advance their skills by using software programs that complement the textbooks used in elementary and intermediate courses. To assist in the development of the student's active language skills and to provide enriched cultural environment, the Language Acquisition and Resource Center contains a wide range of audiovisual materials, including videos and audio books.

The department sponsors two Freshman Learning Communities each year. One group is designed for students interested in using their foreign language in international business, and the other, sponsored jointly by the Department of Applied Linguistics/ESL, is in Language Studies.

For students who hope to teach at the K-12 levels, the department offers Spanish with a concentration that leads to certification.
For students who view language study as a preparation for a career in the business world, the department has two special programs: a concentration in the business language of Spanish, and a practicum in an internationally oriented business or service organization in the metro area for qualified and interested students in their senior year.

The department is also a testing center for diplomas certifying proficiency in business language and procedures. These diplomas are granted by chambers of commerce in various countries.

All Spanish majors are encouraged to consult regularly with their departmental adviser in designing and following a program of study that fits their own career objective and the requirements of their particular concentration.

### Program Degree Requirements

In addition to courses in the language major, you are advised to choose courses in other areas that complement your language study. Such courses include other languages, history, philosophy, art and music, business, and education. Faculty advisers in the department are eager to discuss your academic plans with you as you design your course of study.

In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

#### B.A. in Spanish

Area F: Courses Appropriate to the Major (18)

The following requirements and options are appropriate for majors in Spanish.

1. Majors must achieve competence at the intermediate level before beginning courses at the 3000 level. They may demonstrate competence through placement exam scores, including the CLEP exam, prior study, or courses taken at Georgia State University. The following may be counted in Area F, as required (0-12 hours): Span 1002, Span 2001, Span 2002, Span 2201 or 2501.

2. Students may complete Area F with any combination of the following (0-18 hours):
   a. Any courses in other foreign languages, 1001-2203/2501 level.
   b. Electives in the Department of Modern and Classical Languages.
      Clas 2201, Clas 2202, Clas 2203, Fren 2212, Fren 2216, Grmn 2216, Ital 2211, Span 2213, Span 2216
   c. Electives in other departments.
      AL 2101, AL 2102, Anth 2020, AH 1700, AH 1750, Econ 2105, Econ 2106, Engl 2110, Engl 2120, Engl 2130, EDUC 2110, EDUC 2120, EDUC 2130, EXC 4020, Film 1010, Hist 1111, Hist 1112, Jour 1010, Phil 2010, POLS 2401, WSt 2010

Area G: Major Courses (30)

The major in Spanish consists of 30 hours (ten courses) on the 3000/4000 level. Spanish 2203 or 2501 or its equivalent is prerequisite for all courses on the 3000 level. Prerequisite for all courses at the 4000 level is the completion of at least 3 courses at the 3000 level (for nonnative speakers).

1. Major Requirements (9)
   - Span 3303 Advanced Grammar I (3)
   - Span 3501 Advanced Spanish for Heritage Speakers (3)
   - Span 3307 Introduction to the Study of Literary Texts (3)

2. Concentration Courses (21)

---

### Degree Requirements

**Degrees Offered**

- Bachelor of Arts
  - Major in French
  - Major in German
  - Major in Spanish

**Note:** Students desiring a major in classics should consult the program in Classical Studies under the Bachelor of Interdisciplinary Studies.

Majors should complete the following:

1. "Undergraduate Core Curriculum," previously described (specific recommendations listed below).
2. "Area F: Courses Appropriate to the Major," listed below.
3. "Major Courses," listed below and
4. "Major and Additional Courses," listed below, if needed.

In each language major, students may choose from among the different concentrations: literature, teacher education, and language and civilizations. Specific requirements for each concentration are listed below for each language. Please note that prerequisites listed for specific courses will be strictly enforced.

In addition to the requirements listed, you are advised to choose courses in other areas that complement your language study. Such courses include other languages, history, philosophy, art and music, business, and education. Faculty advisers in the department are eager to discuss your academic plans with you as you design your course of study.

**Area A: Essential Skills (9)**

**Area B: Institutional Options (4)**

**Area C: Humanities and Fine Arts (6)**

**Area D: Science, Mathematics, and Technology (11)**

**Area E: Social Science (12)**

**Area F: Courses Appropriate to the Major (18)**

The following requirements and options are appropriate for majors in French, German, or Spanish:

1. Required Courses (2-5) (0-5 in Spanish)*
   - Fren/Grmn/Span 2203
   - Intermediate French/German/Spanish I (3)
   - Fren/Grmn/Span 2204
   - Intermediate French/German/Spanish II (3)

* Spanish majors must also take Span 1002.

**Area G: Major Courses (30)**

The major in Spanish consists of 30 hours (ten courses) on the 3000/4000 level. Spanish 2203 or 2501 or its equivalent is prerequisite for all courses on the 3000 level. Prerequisite for all courses at the 4000 level is the completion of at least 3 courses at the 3000 level (for nonnative speakers).

1. Major Requirements (9)
   - Span 3303 Advanced Grammar I (3)
   - Span 3501 Advanced Spanish for Heritage Speakers (3)
   - Span 3307 Introduction to the Study of Literary Texts (3)

2. Concentration Courses (21)
### Literature Concentration

a. Four literature courses above Span 3307. (12)

b. Three additional courses in Spanish at the 3000/4000 level. (9)

### Language and International Business Concentration

**Concentration Requirements** (9)
- Span 4405 Spanish for International Business I (3)
- Span 4407 Spanish for International Business II (3)
- Span 4409 Techniques of Translation (3)

b. One of the following courses (3)
- Span 4405 Techniques of Translation (3)
- Span 4445 Literature for Students of International Business (3)
- Busa 3000 Globalization and Business Practice (when taught in Spanish) (3)

c. One literature course above Span 3307. (3)
d. Three additional courses in Spanish at the 3000-4000 level. (9)

### Foreign Language Education Concentration

a. Span 3305 Advanced Conversation and Composition (3) (non-native speakers only)

b. Two literature courses above Span 3307. (6)

c. A second culture course from either Span 3309 (Spanish Culture and Civilization) or Span 3311 (Latin American Culture and Civilization) (3)
d. Three additional courses in Spanish at the 3000-4000 level. (9)

### Requirements for Teacher Certification

Students who wish to be certified to teach Spanish in the public schools of Georgia should choose the courses listed under the “Foreign Language Education Concentration” above and the following methodology courses in the Department of Modern and Classical Languages: ForL 3021, 3022, 4025, 4026, and 4030. All students will register for Student Teaching (ForL 4061/4062/4063).

All students seeking teaching certification in Spanish must pass the following courses in the College of Education with a grade of C or higher: EDUC 2110, EDUC 2120, EDUC 2130, IT 3210, and EXC 4020. Students must apply formally and be admitted to the Teacher Education program in foreign languages. Application forms are available in the department (841 GCB). See “Teacher Preparation Programs” chapter of this catalog. To qualify for the Student Teaching experience, students must receive a grade of B or higher on a departmental test of oral and written proficiency in their target languages. Specific information about date and place of these exams is available in the department office (841 GCB).

In order to be recommended for K-12 certification in Spanish, students must complete all courses taken in the Department of Modern and Classical Languages (the major and ForL courses) with a grade of B or higher.

### Area H: Minor and Additional Courses

1. Foreign language majors are not required to take a minor. Foreign language majors who choose a minor in another department/school/institute are encouraged to select courses that are appropriate to their area of concentration. Students are also urged to consider combining their major with a second major in another language or another discipline under the Double Major option.

2. Additional courses must be taken as electives to complete a minimum of 120 semester hours, exclusive of 1000/2000 physical education or military science courses. Up to six additional hours may be taken in the major.
Bachelor of Arts in Spanish and M.I.B. Joint Degree Program

Highly qualified and highly motivated students interested in languages and international business may apply for this joint-degree program that leads to an undergraduate degree in Spanish and a Master of International Business. It is a demanding program that combines classroom study of Spanish with the international business curriculum. There will be, at least, one mandatory internship abroad in the final year, with a second strongly recommended study or work experience abroad, usually during the third or fourth year. Completion of the program in five years will mean that students must be willing to attend classes in the summer, as necessary. For further information please contact: Department of Modern and Classical Languages, 841 General Classroom Building, 404/651-2265, Email: mclinfo@gsu.edu.

Bachelor of Arts Major in International Economics and Modern Languages

Program Admission

There are no admission requirements above the requirements for admission to the University for enrollment in the B. A. program with a major in international economics and modern languages.

Program Financial Information

There are no additional fees other than the tuition and fees charged by the University for enrollment in this program.

Program Degree Requirements

For degree credit, a minimum grade of C must be attained in Engl 1101 and 1102 and all courses in the economics common core curriculum and modern languages core curriculum. Complete descriptions of requirements for Areas A through E of the Undergraduate Core Curriculum can be found in the “University Degree Requirements and Graduation” chapter of this catalog. The number of semester credit hours required for each section is shown in parentheses.

Area F: Courses Appropriate to the Major (18)

Econ 2105   Principles of Macroeconomics
Econ 2106   Principles of Microeconomics
Math 1070   Elementary Statistics - If taken in Area D, a 1000/2000 level elective from Areas A-E may be substituted.
Span 2001   Intermediate Spanish I
Span 2002   Intermediate Spanish II

Note: Students who have not already attained elementary-level proficiency in their chosen language will be required to take prerequisite courses: Fren, Germ, or Span 1001 and/or 1002. In that case, the 1002 language course may be used to satisfy 3 credit hours of core requirements in Area C, Humanities and Fine Arts. Students with a concentration in Spanish must complete Span 2203/2501 as their Area F elective.

Students who have already attained intermediate-level competency in the primary language may substitute 1000/2000 level courses in another language for Fren, Germ or Span 2001/2002 (or Span 2203 or Span 2501) upon approval of the Department of Modern and Classical Languages advisor. Elective: one 1000/2000 level course chosen from Areas A-E.

Area G: Economics Common Core Curriculum (24) A minimum grade of C is required for all courses in this area.

Econ 3900   Macroeconomics
Econ 3910   Microeconomics
Econ 4600   Economic Development
Econ 4800   International Trade
Econ 4810   International Finance
Choose 3 elective 4000-level Econ courses (9)

**Area H: Modern Languages Common Core (24)** A minimum grade of C is required for all courses in this area.
Span 3303   Advanced Grammar or Span 3501 Advanced Spanish for Heritage Speakers
Span 3307   Introduction to Study of Literary Texts
Span 3309   Spanish Culture and Civilization or Span 3311 Latin American Culture & Civilization
Span 4405   Spanish for International Business I
Span 4407   Spanish for International Business II
Span 4409   Techniques for Translation
Choose two other Span 3000/4000 courses (6)

**Area I: Electives (12)** Choose any four 3000/4000 level courses, in consultation with the faculty advisor.

**Minor in Spanish**
Students who wish to minor in Spanish must take 15-18 hours in courses in the language, including at least nine semester hours at the 3000 level or above. Students taking more than 15 hours of courses in the language may count the additional hours toward their electives or may consider completing a double major. A grade of C or higher is required in all courses counting toward the minor.
Programs Offered:

Bachelor of Arts in Speech
Concentration in Public and Political Communication
Concentration in Communication across the Lifespan

Minor in Speech

Department of Communication
1040 One Park Place South
404/651-3200
http://communication.gsu.edu

David Cheshier, Chair
Kathryn Fuller-Seeley, Associate Chair
Doug Barthlow, Undergraduate Adviser

Speech communication explores the creation, transmission, analysis, and impact of differing kinds of spoken messages as they occur among individuals, groups, organizations, and cultures. Speech courses examine such areas as interpersonal and nonverbal communication, persuasion and argumentation, rhetorical criticism, public address, communication development, and communication disorders. The concepts and skills provided by the major in speech are useful in a wide variety of occupations, including business, law, politics, teaching, the ministry, and public relations, that require an understanding of the dynamics of human communication and proficiency in oral expression.

Credit for special projects and internships is available in all majors and concentrations. Internships enable students who already have completed the appropriate course work and have met departmental eligibility criteria to take advantage of expertise in a variety of professional sectors in the metropolitan area and to tailor programs to their specific career goals.

Program Degree Requirements

In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

B.A. in Speech

Area F: Courses Appropriate to the Major Field (18)

1. Lang 1002 Elementary Foreign Language II (3)
<table>
<thead>
<tr>
<th>Public and Political Communication Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select five courses (15)</td>
</tr>
<tr>
<td>Spch 3010. Advanced Public Speaking (3)</td>
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<tr>
<td>Spch 3060. Communication Law (3)</td>
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<tr>
<td>Spch 3210. Business and Professional Communication (3)</td>
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<tr>
<td>Spch 3510. Oral Techniques of Group Decision Making (3)</td>
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<tr>
<td>Spch 3550. Nonverbal Communication (3)</td>
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<tr>
<td>Spch 3690H. Honors Readings (3)</td>
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<td>Spch 3750. Intercultural Communication (3)</td>
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<tr>
<td>Spch 4250. Persuasion (3)</td>
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<tr>
<td>Spch 4410. Communication Disorders (3)</td>
</tr>
<tr>
<td>Spch 4460. Development of Communication and Language Across the Lifespan (3)</td>
</tr>
<tr>
<td>Spch 4470. Topics in Interpersonal Communication Theory and Research (4)</td>
</tr>
<tr>
<td>Spch 4490. Communication and Gender (3)</td>
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<tr>
<td>Spch 4880H. Honors Thesis: Writing (3)</td>
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<td>Spch 4890. Special Project (3)</td>
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<td>Spch 4980. Internship (3)</td>
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<tr>
<td>ENC 4360. Anatomy and Physiology for Communication (2)</td>
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<thead>
<tr>
<th>Lifespan Communication Concentration</th>
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<tr>
<td>Spch 2500. Communication Research and Information Technology (3)</td>
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<tr>
<td>Spch 2650. Interpersonal Communication (3)</td>
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</tbody>
</table>

3. Select two additional courses at the 1000/2000 level listed in Area B (Institutional Options) of the undergraduate core curriculum. (4) Courses can be drawn from the areas of Critical Thinking, Perspectives on Comparative Culture, or Scientific Perspectives on Global Problems.

Area G: Major Courses (24)
A grade of C or higher is required in all major courses.
1. Major Requirements (9)
   Spch 3050. Speech Communication Research Methods (3)
   Spch 4400. Development of Communication and Language Across the Lifespan (3)
   Spch 4450. Rhetorical Theory and Criticism (3)
2. Area Concentration: Choose five courses from one area of concentration. (15)

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(See “Foreign Language Requirement for B.A. and B.I.S. Majors,” previously described.)
2. Required Courses (minimum grade of C required) (11)
   Spch 1000. Human Communication (2)
   Spch 1500. Public Speaking (3)
   Spch 2500. Communication Research and Information Technology (3)
   Spch 2650. Interpersonal Communication (3)

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</table>
Minor and/or Additional Courses

Majors in the Department of Communication’s four B.A. programs must select a minor consisting of at least 15 hours of courses in a discipline within the Department of Communication other than the major (journalism, film/video, speech, or theater) or in another academic department/school/institute that offers a baccalaureate degree. At least 9 semester hours of minor courses must be at the 3000 level or above, unless otherwise specified by the minor-granting department/school/institute. (A grade of “C” or better is required in all minor courses.)

1. Additional courses from department/schools/institutes other than the major must be taken to complete a minimum of 120 semester hours exclusive of 1000/2000 level physical education or military science courses.

Minor Offerings

Students who wish to minor in one of the department’s four programs must take 15-18 hours in the specific area, including at least 9 semester hours at the 3000 level or above. Students taking more than 15 hours in courses in the specific area may count the additional hours toward their electives or may consider completing a double major. (A grade of “C” or better is required in all courses counting toward the minor.)

Residency Requirement

A minimum of 39 semester hours in courses at the 3000 level or above must be completed in residence at Georgia State University with an average of “C” or better.

Course Descriptions

Please refer to “Courses of Study” section in this catalog.

Select five courses (15)

- Sphc 3000 Phonetics (3)
- Sphc 3210 Business and Professional Communication (3)
- Sphc 3450 Non-Verbal Communication (3)
- Sphc 3550 Oral Techniques of Group Decision Making (3)
- Sphc 3690 Honors Readings (1-3)
- Sphc 3750 Intercultural Communication (3)
- Sphc 4250 Persuasion (3)
- Sphc 4410 Communication Disorders (3)
- Sphc 4470 Topics in Interpersonal Communication Theory and Research (3)
- Sphc 4475 Communication of Aging (3)
- Sphc 4490 Communication and Gender (3)
- Sphc 4540 Mediation and Conflict Resolution (3)
- Sphc 4880 Honors Thesis: Writing (3-6)
- Sphc 4890 Special Project (3)
- Sphc 4980 Internship (1-6)

Area H: Minor and Additional Courses

1. Majors in the Department of Communication’s three B.A. programs must select a minor consisting of at least 15 hours of courses in a discipline within the Department of Communication other than the major (journalism, film/video, or speech) or in another academic department/school/institute that offers a baccalaureate degree. At least nine semester hours of minor courses must be at the 3000 level or above, unless otherwise specified by the minor-granting department/school/institute. A grade of C or higher is required in all minor courses.

2. Additional courses from department/schools/institutes other than the major must be taken to complete a minimum of 120 semester hours exclusive of 1000/2000-level physical education or military science courses.

Minor in Speech

Students who wish to minor in one of the department’s three programs must take 15-18 hours in the specific area, including at least nine semester hours at the 3000 level or above. Students taking more than 15 hours in courses in the specific area may count the additional hours toward their electives or may consider completing a double major. (A grade of C or higher is required in all courses counting toward the minor.)
Programs Offered:

Bachelor of Interdisciplinary Studies in Theatre

Concentration in Performance Studies
Concentration in Design and Production

The BIS in theatre focuses on the history, theory and practice of creating live theatrical performance. Theatre courses are designed to promote the artistic development of students whose interests and talents will lead them to careers in theatre or allied arts, and the help students with other vocational interests to understand and appreciate the cultural heritage represented in drama and to improve their oral communication skills. The University Theatre and the Georgia State University Players, afford majors practical experience through participation in productions. Credit for special projects and internships are available so students can take advantage of the expertise in the professional sector of the metropolitan area and to tailor programs to their specific career goals.

Program Admission

A 2.0 Georgia State University GPA is required in order to apply to the program. Application materials can be obtained from the Office of Academic Assistance, 724 General Classroom Building, 404/651-2291. Students should apply to the program by the time they have earned 42 credit hours to avoid a delay in graduation. Theatre faculty in the Department of Communication are available to advise for the BIS in Theatre degree.

Program Degree Requirements

Please refer to the Bachelor of Interdisciplinary Studies section 3030.50 of this catalog for academic regulations for this program.

In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

Bachelor of Interdisciplinary Studies in Theatre

Area F. Courses appropriate to the major (18)

These courses are required for all Theatre students, regardless of concentration.

1. Required Courses (12)
   - Thea 1010 Theatrical Design and Production (4)
   - Thea 2000 Theatre Workshop (1) (Must be repeated 2 times)
   - Thea 2210 Acting I (3)
   - Language 1002

2. Select two courses. (6)
   - Be sure to take prerequisites for desired Allied Field courses if not already taken for Areas A-E)
   - AH 1700 Survey of Art I. History of Western Art I: Prehistoric through Medieval Art (3)
   - AH 1750 Survey of Art II. History of Western Art II: The Renaissance through Contemporary Art (3)
   - Art 1010 Drawing I (3)
   - Art 1020 Drawing II (3)
<table>
<thead>
<tr>
<th>Area Fi. Courses Appropriate to the Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. For Long 1042 Elementary Foreign Language II (3)</td>
</tr>
<tr>
<td>(See &quot;Foreign Language Requirements for B.A. and B.F.A. Majors,&quot; previously described.)</td>
</tr>
<tr>
<td>2. Required Courses (9)</td>
</tr>
<tr>
<td>Thea 1010 Theatre Design and Production (3)</td>
</tr>
<tr>
<td>Thea 2000 Theatre Workshop (1) (Must be repeated 3 times) (2)</td>
</tr>
<tr>
<td>Thea 2100 Acting I (3)</td>
</tr>
<tr>
<td>3. Arts Appreciation: Select one course (3)</td>
</tr>
<tr>
<td>Art 1750, Art 1755, Art 1850, Film 2700, Music 1500/5000, Music 1908, or Music 1918</td>
</tr>
<tr>
<td>4. General Elective: Select one course (3)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Major Courses (27)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(A minimum grade of “C” is required in all major courses.)</td>
</tr>
<tr>
<td>1. Major Requirements (22)</td>
</tr>
<tr>
<td>Thea 1100 Play Analysis (3)</td>
</tr>
<tr>
<td>Thea 1106 Western Theatre History (3) or Thea 4080, Non-Western Theatre History (3)</td>
</tr>
<tr>
<td>Thea 1100 Performance Theory and Practice (3)</td>
</tr>
<tr>
<td>Thea 4950 Senior Collaborative Seminar (3)</td>
</tr>
<tr>
<td>2. Areas of Concentration: Theatre majors should take five courses from one of the following concentrations (15)</td>
</tr>
</tbody>
</table>

**Playwriting Concentration**

<table>
<thead>
<tr>
<th>Required Courses (6)</th>
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</thead>
<tbody>
<tr>
<td>Thea 4050 Dramatic Writing for Stage and Screen (3)</td>
</tr>
<tr>
<td>Thea 4100 Advanced Playwriting (3)</td>
</tr>
<tr>
<td>3. Select three courses (9)</td>
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<tr>
<td>Thea 2550 Lighting Design for Theatre, Film, and Television (3)</td>
</tr>
<tr>
<td>Thea 4010 Acting for the Camera (3)</td>
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<tr>
<td>Thea 4290 African-American Theatre (3)</td>
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<tr>
<td>Thea 4510 Creative Dramatics (3)</td>
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<tr>
<td>Thea 4515 American Musical Theatre (3)</td>
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<td>Thea 4520 Gender and Performance (3)</td>
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<tr>
<td>Thea 4870 History of Theatre Research (3)</td>
</tr>
<tr>
<td>Thea 4880 History of Theatre Writing (3)</td>
</tr>
<tr>
<td>Thea 4980 Special Project (2)</td>
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<tr>
<td>Any 1000-4999-level course outside the student's area of concentration (2)</td>
</tr>
</tbody>
</table>

**Performance Concentration**

<table>
<thead>
<tr>
<th>Required Courses (9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thea 3100 Acting I (3)</td>
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<tr>
<td>Thea 4100 Acting Styles (3)</td>
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<tr>
<td>Thea 4500 Directing (3)</td>
</tr>
<tr>
<td>Select two courses from group 2 in playwriting concentration, above. (6)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area G. Area of Concentration – Performance Studies (27-28)</th>
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</thead>
<tbody>
<tr>
<td>1. Required Courses (9)</td>
</tr>
<tr>
<td>Thea 3100 Play Analysis (3)</td>
</tr>
<tr>
<td>Thea 4070 Western Theatre History (3) or Thea 4080 Non-Western Theatre History (3)</td>
</tr>
<tr>
<td>Thea 4950 Senior Collaborative Seminar (3)</td>
</tr>
<tr>
<td>2. Select two courses (6)</td>
</tr>
<tr>
<td>Thea 3210 Acting II (3)</td>
</tr>
<tr>
<td>Thea 4210 Acting Styles (3)</td>
</tr>
<tr>
<td>Thea 4850 Directing (3)</td>
</tr>
<tr>
<td>3. Select four courses (12-13)</td>
</tr>
<tr>
<td>Film 3300 Dramatic Writing for Stage and Screen (3)</td>
</tr>
<tr>
<td>Film 4000 Acting for the Camera (4)</td>
</tr>
<tr>
<td>Film 4310 Feature Screenwriting I (3)</td>
</tr>
<tr>
<td>Film 4320 Feature Screenwriting II (3)</td>
</tr>
<tr>
<td>Folk 3000 American Folklore (3)</td>
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<tr>
<td>Phil 4830 Philosophy of Art (3)</td>
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<tr>
<td>Spch 3000 Phonetics (3)</td>
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</tbody>
</table>

**Area H. Allied Field – Theory and Literature (15)**

<table>
<thead>
<tr>
<th>Required Course (3)</th>
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</thead>
<tbody>
<tr>
<td>Thea 4760 Performance Theory and Practice (3)</td>
</tr>
<tr>
<td>2. Select two courses from one of the sub-areas and one from each of the other two. (12)</td>
</tr>
<tr>
<td>a. Select one or two courses:</td>
</tr>
<tr>
<td>Eng 3150A Introduction to Creative Writing-Poetry (3)</td>
</tr>
<tr>
<td>Eng 3150B Introduction to Creative Writing-Fiction (3)</td>
</tr>
<tr>
<td>Eng 3160 Narrative Techniques (3) or Eng 3170 Poetic Techniques (3)</td>
</tr>
<tr>
<td>Eng 3250 Topics in Contemporary Theory (3)</td>
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<tr>
<td>Eng 3260 Theories of Popular Culture (3)</td>
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<tr>
<td>Eng 3280 English Drama (3)</td>
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<tr>
<td>Eng 3860 American Drama (3)</td>
</tr>
<tr>
<td>Eng 3890 Contemporary American Ethnic Literatures (3)</td>
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<tr>
<td>Eng 3930 Modern Drama (3)</td>
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<td>Course Code</td>
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<td>Engl 4130</td>
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<td>Engl 4140</td>
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<td>Engl 4310A</td>
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<td>AAS 4650</td>
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<td>AAS 4900</td>
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<td>AAS 4776</td>
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<td>WSt 3980</td>
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<td>WSt 3990</td>
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**Design & Production Concentration**

**Area G. Area of Concentration – Design & Production (27)**

1. **Required Courses (24)**
   - ID 3000 Architectural Drawing I: Drafting (3)
   - Phil 4830 Philosophy of Art (3)
   - Thea 3100 Play Analysis (3)
   - Thea 4070 Western Theatre History (3 or)
   - Thea 4080 Non-Western Theatre History (3)
   - Thea 4950 Senior Collaborative Seminar (3)
   - Thea 4860 Special Topics: Scene Painting (3)
   - Thea 4860 Special Topics: Scenography (3)
   - Thea 4860 Special Topics: Stage Management (3)

2. Select one course. (3)
   - Film 3000 Lighting Design for Theatre, Film and Television (4)
   - ID 3100 Architectural Drawing II: Presentation (3)
   - ID 4250 Architectural Drawing III: Computer-Aided Drafting and Design (2)*
   - ID 4350 Architectural Drawing IV: Three-Dimensional Computer-Aided Drafting and Design (2)*

*Note: If ID 4250 or ID 4350 is chosen to fulfill this requirement, the degree program will be one hour short of the 27 hours required in the area of concentration; students wishing to take either of those courses should add an additional course (either a two or three-hour course from this menu of options).

**Area H. Allied Field – Art and Design (15-16)**

1. Select five courses. (15-16)
   - DP 3100 Drawing and Composition (4)
   - ID 4100 Lighting Design (2)
   - Scul 3000 Sculpture I (3)
   - Scul 3100 Sculpture II (3)
   - Text 3000 Fibers, Colors, Dyes, and Dyeing (3)
   - Text 3100 Surface Design I (3)
<table>
<thead>
<tr>
<th>Text 3300</th>
<th>Three-Dimensional Fiber Structures (3)</th>
</tr>
</thead>
</table>

**Area J. Electives (12)**
Performance Studies Concentration (12 hours at 3000 level or above, including Thea 4980).
Design and Production Concentration (12 hours at 3000 level or above, including Thea 4980).
Additional electives may be needed to build the hours in Areas G-J to 60 hours, have 39 hours at Georgia State University taken at the 3000-4000 level for residency, and complete 120 hours required for graduation.
Women’s Studies

3560 Women’s Studies

Programs Offered:
- Bachelor of Arts in Women’s Studies
- Minor in Women’s Studies

Women’s Studies Institute
10th Floor Urban Life Building
404/651-4633
http://www.gsu.edu/womensstudies
Susan Talburt, Director
Julie Kubala, Undergraduate Studies Director

Women’s Studies offers feminist and womanist interdisciplinary explorations of the relationship of gender to race, class, ethnicity, nation, and sexuality. In order to examine subject formation across cultures and historical periods, it also takes into account globalization, colonialism, and transnational relations. Women’s Studies encourages critical thinking in order to open up categories, formulate new questions, and develop creative approaches to historical and contemporary issues. As such, the field provides useful preparation for a variety of opportunities in non-profit work, governmental agencies, private business, and academia.

Program Admission

Students wishing to major or minor in Women’s Studies must meet the requirements for the Bachelor of Arts degree as described earlier in this catalog. Students should come to the WSI office to receive advisement.

Program Academic Regulations

To take WSt 4920 (Senior Research), or WSt 4950 (Internship), or WSt 4999 (Directed Reading), students must first receive approval from the Women’s Studies Institute’s Director of Undergraduate Studies. Students are responsible for contacting sites and arranging for their own internships. A list of internship sites is available at http://www.gsu.edu/womensstudies.

Program Degree Requirements

In addition to the Program Degree Requirements, students must fulfill the College of Arts and Sciences Degree Requirements (see section 3030) and the University Degree Requirements (see section 1400).

B.A. in Women’s Studies

Area F: Courses Appropriate to the Major (18)
1. Required Courses (6)
   - ForL 1002 Elementary Foreign Language II (3)
   - WSt 2010 Introduction to Women’s Studies (3)
   - WSt 3010 Feminism (3)
2. Select one course (3)
   - WSt 4920 Senior Research (3)
   - WSt 4950 Internship (3)
3. Select seven additional women’s studies courses at the 3000 level or above (21)

Women’s Studies Interdisciplinary Minor (15-18)
- WSt 2010 Introduction to Women’s Studies (3)
- WSt 3010 Feminism (3)
- Select upper-division electives from WSt courses (9-15)

Area C: Humanities and Fine Arts (6)
- ForL 1002 Elementary Foreign Language II (3)
- WSt 2010 Introduction to Women’s Studies (3)

Area B: Institutional Options (4)

Area A: Essential Skills (9)

Area D: Science, Mathematics, and Technology (11)

Area E: Social Science (12)

Women’s Studies Concentration (30)
1. Required Courses (20)
   - WSt 2010 Introduction to Women’s Studies (3)
   - WSt 3010 Feminism (3)
2. Select one course (5)
   - WSt 4920 Senior Research (3)
   - WSt 4950 Internship (3)
3. Select seven additional women’s studies courses at the 3000 level or above (21)

Women’s Studies Institute
611 General Classroom Building, 404/577-6499
http://womensstudies.gsu.edu
Susan Talburt, Director

Degree Requirements

Bachelor of Interdisciplinary Studies
College of Arts and Sciences Concentration in Women’s Studies

Area A: Essential Skills (9)

Area B: Institutional Options (4)

Area C: Humanities and Fine Arts (6)

Area D: Science, Mathematics, and Technology (11)

Area E: Social Science (12)

Area F: Courses Appropriate to the Major (18)

Foreign Language at the 1002 level is required.

Recommended courses:

Women’s Studies Concentration (30)
1. Required Courses (20)
   - WSt 2010 Introduction to Women’s Studies (3)
   - WSt 3010 Feminism (3)
2. Select one course (5)
   - WSt 4920 Senior Research (3)
   - WSt 4950 Internship (3)
3. Select seven additional women’s studies courses at the 3000 level or above (21)

Women’s Studies Interdisciplinary Minor (15-18)
- WSt 2010 Introduction to Women’s Studies (3)
- WSt 3010 Feminism (3)
- Select upper-division electives from WSt courses (9-15)

Catalog 2007-2008
**Area G: Major Courses (30)**

1. **Required Course (3)**
   - WSt 3010 Feminist Theories (3)

2. **Select one course (3)**
   - WSt 4920 Senior Research (3)
   - WSt 4950 Internship (3)

3. **Remaining Courses in Major Field (24)**
   - Seven additional Women’s Studies courses or courses crosslisted with Women’s Studies, with at least nine hours in a single strand; these strands reflect areas of specialization within the field. Students may, if they wish, take nine hours in an additional strand, or they may choose additional WSt electives to fulfill the remaining 12 hours. Only courses with the WSt prefix count as Women’s Studies courses.

The strands include Sexualities, Race, Globalization, and Social Change.

**Sexualities:**
- WSt 3150 Sexuality and Society (3)
- WSt 3356 Sexual Identity (3)
- WSt 4050 Global Perspectives on Violence against Women (3)
- WSt 4060 Sexual and Intimate Violence (3)
- WSt 4210 Women in Cross-Cultural Perspective (3)
- WSt 4310 Girls (3)
- WSt 4620 Psychology of Women (3)
- WSt 4780 African-American Lesbian and Gay Activism (3)
- WSt 4790 Womanism (3)

**Race:**
- WSt 3960 African-American Literature by Women (3)
- WSt 4040 Gender, Race, and Class in Complex Societies (3)
- WSt 4110 African-American Female Activism (3)
- WSt 4590 Cultural Studies of Gender (3)
- WSt 4750 Black Feminist Thought (3)
- WSt 4760 Activism: History and Theory (3)
- WSt 4780 African-American Lesbian and Gay Activism (3)
- WSt 4790 Womanism (3)

**Globalization:**
- WSt 3990 Women’s Literature II (3)
- WSt 4040 Gender, Race, and Class in Complex Societies (3)
- WSt 4050 Global Perspectives on Violence against Women (3)
- WSt 4110 African-American Female Activism (3)
- WSt 4210 Women in Cross-Cultural Perspective (3)
- WSt 4370 Women and Religion (3)
- WSt 4772 Women in Africa (3)

**Social Change:**
- WSt 4070 Family Violence and Criminal Justice (3)
- WSt 4110 African-American Female Activism (3)
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<td>WSt 4510</td>
<td>Feminist Political Theory (3)</td>
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<tr>
<td>WSt 4620</td>
<td>Psychology of Women (3)</td>
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<td>WSt 4650</td>
<td>Women in Europe since 1500 (4)</td>
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<tr>
<td>WSt 4750</td>
<td>Black Feminist Thought (3)</td>
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<td>WSt 4760</td>
<td>Activism: History and Theory (3)</td>
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<tr>
<td>WSt 4780</td>
<td>African-American Lesbian and Gay Activism (3)</td>
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<td>WSt 4790</td>
<td>Womanism (3)</td>
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**Additional Electives:**

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<td>WSt 3120</td>
<td>Families and Society (3)</td>
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<tr>
<td>WSt 3130</td>
<td>Gender and Society (3)</td>
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<tr>
<td>WSt 3140</td>
<td>Birth and Parenthood (3)</td>
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<td>WSt 3980</td>
<td>Women’s Literature I (3)</td>
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<td>WSt 3995</td>
<td>Feminist Literary Criticism (3)</td>
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<td>WSt 4020</td>
<td>Gender in Criminal Justice (3)</td>
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<td>WSt 4116</td>
<td>Aging and Society (3)</td>
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<td>WSt 4130</td>
<td>Communication and Gender (3)</td>
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<td>WSt 4150</td>
<td>Women and Media (3)</td>
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<td>WSt 4360</td>
<td>Philosophical Perspectives on Women (3)</td>
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<td>WSt 4470</td>
<td>Visual Culture (4)</td>
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<td>WSt 4520</td>
<td>Feminism and Technology (3)</td>
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<tr>
<td>WSt 4740</td>
<td>Women Artists (3)</td>
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</tbody>
</table>

**Area H: Minor and Additional Courses**

1. Students majoring in Women’s Studies are required to complete a minor of at least 15 hours, at least 9 hours of which must be 3000 level or above. The minor may be taken through a department or institute, or it may be an interdisciplinary minor.

2. Additional courses not in the major or the minor must be taken as electives to complete a minimum of 120 semester hours, exclusive of 1000/2000 physical education or military science courses.

**Minor in Women’s Studies**

Students choosing to minor in Women’s Studies should complete WSt 2010, WSt 3010, and twelve additional hours of upper-division elective WSt courses, not all of which are in the same area and one of which is a cross-cultural course (as described above for majors). Only courses with the WSt prefix count as Women’s Studies courses.