COLLEGE OF ARTS AND SCIENCES

Historical Departmental Program Changes, 1998-2007
Graduate Programs

Following are the catalog listings for the graduate 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.

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.
Department of Applied Linguistics and English as a Second Language

Joaun Carson, Chair
Gayle Nelson, Director of Graduate Studies

Degree offered: Master of Science

The department offers a Master of Science (M.S.) degree in teaching English as a second language that integrates the study of second language acquisition theory with practical applications. Both the theoretical and practical aspects of the program focus on the language acquisition needs of adolescent and adult learners of English as a second language or English as a foreign language.

Programs Offered:
- Master of Arts in Applied Linguistics
- Doctor of Philosophy in Applied Linguistics
- Specialist in Education in Teaching and Learning with Concentration in English as a Second Language (in cooperation with the College of Education)

Department of Applied Linguistics and English as a Second Language
Georgia State University
P.O. Box 4099
Atlanta, Georgia 30302-4099
404/651-3650 or 404/651-3224
E-mail: dbelcher1@gsu.edu
http://www.gsu.edu/alesl

Gayle Nelson, Chair
Diane Belcher, Director of Graduate Studies

The department offers a Master of Arts (M.A.) degree in applied linguistics that integrates the study of second language acquisition theory with practical applications. Both the theoretical and practical aspects of the program focus on the language acquisition needs of adolescent and adult learners of English as a second language or English as a foreign language.

The department participates in the Master's International Program with the Peace Corps. This program enables students to obtain an M.A. degree and serve in the Peace Corps. Students take one year of coursework, serve two years in the Peace Corps (receiving 6 hours of course credit), and return to Georgia State University to finish their coursework.

Students may obtain additional information about the Department of Applied Linguistics and English as a Second Language by contacting the Director of Graduate Studies at the address above.

Additional Admission Requirements

In addition to the general requirements of the College of Arts and Sciences, the Department of Applied Linguistics and English as a Second Language has the following requirements:
1. A typed statement of professional and academic goals that is at least two to three pages in length.
2. Three letters of recommendation, preferably from academic references.
3. Foreign speakers of English, official scores on the Test of English as a Foreign Language, including the Test of Written English (TWE).

Degree Requirements

MASTER OF SCIENCE (36-hour program)

1. The following core courses:
   - AL 8240 General Linguistics
   - AL 8250 Second Language Acquisition
   - AL 8270 Sound System of English
   - AL 8350 Intercultural Communication
   - AL 8450 Approaches to Teaching Second Languages
   - AL 8460 English Grammar for ESL/ELT Teachers
   - AL 8560 Practicum in Teaching English to Speakers of Other Languages

2. Fifteen hours (5 courses) of elective courses from within the department.
3. Portfolio that includes a) Table of Contents, b) Essays, c) Classroom-Based Experience and Teaching Documentation, d) Master's Paper/Project, and e) Professional Development Documentation.
4. A Language Requirement that is intended to ensure that all graduates have had the experience of studying a second or foreign language. The requirement can be met in one of the following ways:
   a) Successful completion of one academic year of a university-level foreign language sequence (three quarters or two semesters of the same language), or
   b) Successful completion of two quarters or one semester of a non-Western language, or
   c) One year being studied abroad as an adult, or
   d) The acquisition of English as a second language for international students.

Students may obtain additional information about the Department of Applied Linguistics and English as a Second Language by contacting the

Director of Graduate Studies
Department of Applied Linguistics and English as a Second Language
Georgia State University
P.O. Box 4099
Atlanta, Georgia 30302-4099
(404) 651-3650 or (404) 651-3224
E-mail: dbelcher1@gsu.edu
http://www.gsu.edu/alesl
Ph.D. Program in Applied Linguistics

Program Description
The Department offers a Doctor of Philosophy (Ph.D.) program in response to societal needs resulting from the current status of English as the language of international communication. This worldwide use of English in programs and institutions of higher education has created a need in two areas. The first urgent need is research on an assortment of interrelated topics: language learning by adults who will use English for academic purposes, effective teaching of adult language learners, and the nature of English as an academic language. The second need is for doctoral faculty who can teach in educational programs that prepare master’s level teachers of English as a Second/Foreign Language. Ph.D. students may focus on a range of topics. Research, for example, may be related to issues in second language writing, reading, listening, or speaking; analysis of academic language; assessment; teacher cognition; classroom dynamics; sociolinguistics; or the role of culture in second language acquisition.

Admission to the Ph.D. Program
Requirements for admission include (1) a master’s degree in applied linguistics or a related field, (2) teaching experience in a second or foreign language, and (3) GRE scores appropriate for doctoral level work. Non-native speakers of English must submit TOEFL scores of at least 600 on the paper-based test or 250 on the computer-based test and a score of at least 5 on the Test of Written English or the TOEFL Writing Test, or if the Internet-based TOEFL is taken, a composite score of 97 and a writing score of 22 and a speaking score of 24 are required. At the master’s level, successful Ph.D. applicants would have had at least a GPA of 3.5 on a 4.0 scale with the strength of the M.A. program taken into consideration. Students who demonstrate prior experience with adult language learners and/or English for Academic Purposes will be preferred. In addition, students who demonstrate research potential based on an M.A. thesis or research papers submitted as part of the application process will be preferred. New students will be admitted only in the fall semester.

Applicants must submit the following materials:
1. Completed graduate program application form;
2. Two copies of official transcripts from all colleges attended;
3. Official verbal, qualitative and analytic scores on the GRE and, if applicable, official scores on the TOEFL, including the TWE;
4. Three letters from academic references;
5. Sample of academic writing (published or unpublished);
6. Statement of professional and academic goals that includes a response to the following: Why are you seeking a Ph.D. in Applied Linguistics (specifically in the Department of Applied Linguistics and ESL at Georgia State University)? What are your research interests? With what faculty member are you interested in studying?
7. Current C.V.
Ph.D. Program: Components and Requirements

The Ph.D. program in applied linguistics consists of five main components and requirements:

1. Required and elective coursework
2. Language requirement
3. Qualifying paper
4. Comprehensive exams
5. Dissertation

Coursework

In the first two years of doctoral study, students will take five required core courses (15 semester hours) in conjunction with an additional 15 semester hours of coursework and 21 semester hours of dissertation credit. For students whose M.A. is not in Applied Linguistics, check the website for prerequisite courses.

The courses in the program over three content areas include the following:

- **Area I:** Research Methods and Applications
- **Area II:** Language, Cognition, and Communication
- **Area III:** Language Teaching and Teacher Development

The five required core courses (15 hours) from Areas I to III are the following:

- AL 8960 Quantitative Research Methods (Area I)
- AL 8961 Qualitative Research Methods (Area I)
- AL 8970 Linguistic Theory in Applied Linguistics (Area II)
- AL 8980 Current Issues in Adult Second Language Acquisition (Area II)
- AL 8990 Current Issues in Preparation of Second Language Teachers (Area III)

Language Requirement

Teacher-scholars who work in the field of applied linguistics need to experience second language study and use. This experience may take different forms.

- Successful completion (a grade of “B” or higher) in a minimum of four semesters of university language study, or
- A minimum of one year living in a country where English is not the primary language and learning and using a language of the country, or
- The acquisition of additional language(s) as a child or adult.

Students whose language study does not fit one of these three categories are required to successfully complete four semesters of language study or an intensive program that covers at least four semesters of work.

Qualifying Paper

A Qualifying Paper demonstrating strong writing abilities must be submitted following completion of six courses in the program. It may be either a research study or a literature review and is usually based on a paper completed in a course within the program.

Comprehensive Examination

After students complete their coursework, they take comprehensive exams. Students receive three topics and have two weeks to write responses to all three. The questions will require the student to address issues in theory, research methodology, research topics of importance in the field, and/or topics related to the student's intended dissertation research. At least one of the topics will require consideration of issues that overlap the boundaries between language, cognition & communication and language teaching & language teacher development.

Dissertation
When students have passed their comprehensive exams, they officially begin work on their dissertation. The dissertation process consists of three stages: a proposal, research and writing, and an oral defense.
Department of Anthropology and Geography

Borden D. Dort, Chair
Paul Koepf, Director of Graduate Studies

Degree offered: Master of Arts

Master of Arts in Anthropology

The Master of Arts (M.A.) degree program in applied anthropology is designed to provide rigorous training in anthropological concepts, skills, and methods. The program is dedicated to the investigation of a broad range of issues, processes, and problems that bind and divide cities, suburbs, and rural regions. Students may choose to specialize in either applied urban or medical anthropology.

The program is of two years' duration. During the first year, all students are required to demonstrate competence in the basic theories and methods of applied sociocultural anthropology through completion of a four-course core curriculum. In the second year, students undertake advanced course work, an internship, and an M.A. thesis project.

The program is organized around the assumption that in order to make anthropological knowledge useful the complexity of anthropological problems must be understood within their sociocultural, political-economic, and historical contexts. Students are trained to use qualitative and quantitative methods to develop critical perspectives on contemporary social issues. At Georgia State, we are committed to exploring new ways in which anthropological knowledge may be applied and made relevant to our contemporary world. While most of our students find employment applying anthropological principles in non-academic settings, graduates of our program will also find themselves prepared to pursue further graduate work in anthropology, if they so desire.

During their second year students are expected to develop their own areas of interest and expertise within the broader framework of this program. Students are encouraged to take advantage of the resources of our sister program in geography, of other departments and schools at Georgia State University, and of neighboring institutions such as Emory University, Georgia Institute of Technology, the Atlanta University Center, and the Medical College of Georgia.

Applicants may obtain additional information about the Department of Anthropology by contacting the Director of Graduate Studies at the addresses above.

Additional Admission Requirements

In addition to the general requirements of the College of Arts and Sciences, the Department of Anthropology and Geography has the following requirements:

Center for Applied Research in Anthropology

The Center for Applied Research in Anthropology offers a program in cross-cultural research. The program involves the exchange of graduate students engaged in applied research projects between Georgia State University and private and public institutions in the United States, especially in Atlanta, and in Latin America.

3090 Anthropology

Programs Offered:

Master of Arts in Anthropology

Department of Anthropology
33 Gilmer Street
Georgia State University
P.O. Box 3998
Atlanta, Georgia 30303
404/651-3232
http://monarch.gsu.edu

Kathryn A. Kozaitis, Chair
Susan McCombie, Director of Graduate Studies

The Master of Arts (M.A.) degree program in anthropology is designed to provide rigorous training in anthropological theories, methods, and skills. The program is dedicated to the investigation of a broad range of issues, processes, and problems that shape human behavior and promote cultural change. The program is organized on the principle that for anthropological knowledge to be useful, human problems must be understood within their socio-cultural, political-economic, and historical contexts. The anthropology program utilizes resources in metropolitan Atlanta to promote student learning and emphasizes the study of complex society and public engagement in medical, educational, and other social service settings.

Students choose one of two tracks for graduate study depending on their career goals in anthropology. The General Program is designed for students seeking comprehensive training in anthropological method and theory, often in anticipation of pursuing an academic career in anthropology or enhancing their education in another discipline. The Applied Program provides more specialized training for a career in applied anthropology, emphasizing how anthropological knowledge can be used to address contemporary social problems. In order to provide graduate students with training specific to their career goals, both tracks offer a thesis and non-thesis option.

The M.A. program is designed to be completed in two years. During the first year, all students in both the general and applied tracks are required to demonstrate competence in the basic theories and methods of anthropology through completion of a four-course core curriculum. This includes training in the use of qualitative and quantitative methods to develop critical perspectives on socio-cultural issues. Additional coursework is completed in consultation with the faculty. During their second year, students are expected to develop their own areas of interest and expertise within the broader framework of the program. Students are encouraged to take advantage of resources in other departments and schools at Georgia State University, and of neighboring institutions such as Emory University, Georgia Institute of Technology, the Atlanta University Center, the Center for Disease Control and Prevention, and the Medical College of Georgia.

Applicants may obtain additional information about the Department of Anthropology by contacting the Director of Graduate Studies at the addresses above.

Additional Admission Requirements

In addition to the general requirements of the College of Arts and Sciences, the Department of Anthropology has the following requirements:
1. Applicants to the M.A. degree program in anthropology must submit:
   a. Three letters of recommendation from individuals who can evaluate the applicant’s potential to do graduate work in anthropology.
   b. A supplemental application form provided by the department.

2. Applicants to the M.A. degree program in geography must submit:
   a. Two letters of recommendation.
   b. A statement of academic career goals.

Degree Requirements

MASTER OF ARTS IN ANTHROPOLOGY (36-hour program)

General Program

Thesis Option (33 hours)
1. Nine hours of core courses:
   - Anth 6620  Anthropological Theory and Praxis
   - Anth 6630  Qualitative Methods in Anthropology
   - Anth 8000  Anthropological Theory and Praxis

2. Three hours of either Anth 8230, Methods and Theory in Medical Anthropology.

3. Three elective hours in the area of quantitative methods. This requirement may be satisfied by graduate courses in Geography, Sociology, or another department and must be approved by student’s advisor.

4. Nine hours of elective courses.

5. A general written and oral examination must be passed on or near the completion of coursework requirements.

6. Six hours of Anth 8999, Thesis Research (thesis option only)

Non-Thesis Option (36 hours)

7. Six semester hours of Anth 8990, Research Practicum (3) (non-thesis option only).

Applied Program

Thesis Option (33 hours)

1. Anth 6620  Quantitative Methods in Anthropology (4)
   - Anth 6630  Qualitative Methods in Anthropology (3)
   - Anth 8000  Anthropological Theory and Praxis (3)
   - Anth 8040  Seminar in Anthropology (3)

2. Up to six hours of graduate courses may be taken outside the anthropology program.

3. Additional 6000/8000-level anthropology courses in area of specialization to achieve a total of 27 semester hours for thesis option and 33 semester hours for non-thesis option.

4. Proficiency in a foreign language or approved research skill.

5. A general written and oral examination must be passed on or near the completion of coursework requirements.

6. Six semester hours of Anth 8999, Thesis Research (thesis option only)

7. Thesis defense (thesis option only).

8. Completion of Anth 8990, Research Practicum (3) (non-thesis option only).

Non-Thesis Option (36 hours)

1. Anth 6620  Quantitative Methods in Anthropology (4)
   - Anth 6630  Qualitative Methods in Anthropology (3)
   - Anth 8000  Anthropological Theory and Praxis (3)
   - Anth 8050  Seminar in Applied Anthropology (3)

2. Up to six hours of graduate courses may be taken outside the anthropology program.

3. Additional 6000/8000-level anthropology courses in area of specialization to achieve a total of 24 semester hours for thesis option and 33 semester hours for non-thesis option.

4. Proficiency in a foreign language or approved research skill.

5. A general written and oral examination must be passed on or near the completion of coursework requirements.

6. Anth 8910 Internship (3)

7. Six semester hours of Anth 8999, Thesis Research (thesis option only)

8. Thesis defense (thesis option only).
Programs Offered:

- Master of Arts with Concentration in Art History
- Master of Art Education
- Master of Fine Arts
- Doctor of Philosophy in Teaching and Learning with Concentration in Art Education (in cooperation with the College of Education)
- Specialist in Education in Teaching and Learning with Concentration in Art Education (in cooperation with the College of Education)

Ernest G. Welch School of Art and Design
Georgia State University
P.O. Box 4107
Atlanta, GA 30302-4107
404/651-0488
http://www.gsu.edu/~wwwart
E-mail: artgrad@gsu.edu
Cheryl Goldsleger, Director
Nancy Floyd, Director of Graduate Studies

The Master of Fine Arts (M.F.A.) degree program emphasizes the development of competence in seven areas of concentration: ceramics; drawing, painting and printmaking; graphic design; interior design; photography; sculpture; and textiles.

The Master of Art Education (M.A.Ed.) degree allows students to strengthen art content while developing skill in teaching the art at all levels. Students who hold degrees in either art or art education are encouraged to apply. Students with an art degree but not teacher certification will have to meet prerequisites for initial teacher certification before continuing work toward required master’s coursework. The program also prepares students for graduate work at the doctoral level.

All degree programs of the School of Art and Design are accredited by the National Association of Schools of Art and Design.

The School of Art and Design admits students from a variety of undergraduate backgrounds who have a record of academic excellence and demonstrated skill in a visual art discipline. The applicant should specify one of the above areas of concentration on the application form. Information and applications for graduate assistantships are available from the Office of Graduate Studies in the School of Art and Design.

Applications for graduate programs are reviewed on a rolling basis (for spring semester) and in the spring (for summer and fall semesters). Each applicant must satisfy the general requirements of the Graduate Division of the College of Arts and Sciences. Art work samples required for M.F.A. and M.A.Ed. applications should be submitted to the School of Art and Design, Director of Graduate Studies. Incomplete or improperly prepared applications and portfolios may not be reviewed.

Additional Admission Requirements

In addition to the general requirements of the College of Arts and Sciences, the School of Art and Design has the following requirements:

M.F.A. Degree
Applicants for the M.F.A. degree must submit:

1. A statement, not exceeding four hundred words, outlining the applicant’s purpose and goals in pursuing graduate study. This statement should be included with the other application materials sent to the Office of Graduate Studies, College of Arts and Sciences.

2. A portfolio containing a maximum of 20 examples of recent work (slides are preferable).
Works must be packaged in such a way that they can be easily transported and viewed. If slides and/or photographs are submitted, they should be labeled with the applicant's name and should be numbered to correspond to a list of slides on a separate sheet of paper. This sheet should contain dimensions, medium, date, title, and any other pertinent information about the work. The slide should have a red dot attached to the bottom left corner of the slide against the front side. All slides should be inserted into plastic slide sheets. Photographs reproducing work should be 8" x 10".

Work can be delivered by hand or mailed to the Director of Graduate Studies in the School of Art and Design. Portfolios may be picked up at the same location after applicant has received notification from the Director of Graduate Studies. Work sent by mail or express must arrive to be reviewed and must be accompanied by return postage. Applicants should check with the United States Post Office or an express mail company for size limitations. In order to be processed for review, sealed or shipped work must be postmarked by the deadline listed in the catalog.

Applications for the Art History and Studio programs are reviewed once a year, in the spring, for fall admissions. Applications for the Art Education program are reviewed in the fall (for spring admissions) and in the spring (for fall admissions). Each applicant must satisfy the general requirements of the Graduate Division of the College of Arts and Sciences. Incomplete or improperly prepared applications and portfolios will not be reviewed.

Additional Admission Requirements

In addition to the general requirements of the Graduate Division and the College, the School of Art and Design has the following requirements:

M.A. Degree

Applicants for the M.A. degree must submit the following items:

1. Three letters of recommendation. No form is required.
2. A one-to-two-page statement of purpose describing current academic interests, proposed area of specialization, and long-range career goals. The statement should also explain how the art history graduate program at Georgia State will serve those interests and goals.
3. A writing sample such as a term paper from an upper-level art history course.
4. GRE scores.

Specific admission requirements for the M.A. degree in art history include the following:

1. A high standard of overall undergraduate achievement.
2. Undergraduate coursework in art history. Applicants normally should have a minimum of five upper-level courses or the equivalent.

Applicants to the art history graduate program are also encouraged to meet personally with a member of the art history faculty.

Please note: Deadlines are not postmark deadlines but deadlines for completion of applications.

M.A.Ed. Degree

Applicants for the M.A.Ed. degree must submit the following items:

1. Three letters of recommendation. No form is required.
2. Statement of Intent: A one-to-two-page statement of purpose describing current academic interests, proposed area of specialization, and long-range career goals. The statement should also explain how the graduate program at Georgia State will serve those interests and goals.
3. Portfolio: A successful portfolio demonstrates creativity and commitment in a cohesive body of work. The portfolio should contain both two- and three-dimensional work. It should reflect basic skills in drawing and degrees and the area of concentration on the application form. Applicants interested in an assistantship should fill out an assistantship form and submit it with their application. All accepted applicants are considered for scholarships—no form is necessary.

Applications for the Art History and Studio programs are reviewed once a year, in the spring, for full admissions. Applications for the Art Education program are reviewed in the fall (for spring admissions) and in the spring (for fall admissions). Each applicant must satisfy the general requirements of the Graduate Division of the College of Arts and Sciences. Incomplete or improperly prepared applications and portfolios will not be reviewed.

Note: The School of Art and Design will take reasonable care of handling of portfolio materials but will not hold responsibility for damage or loss.

M.A.Ed. Degree

Specific admission requirements for the M.A.Ed. degree include the following:

1. An undergraduate major appropriate to the intended major at Georgia State University.
2. A standard of overall undergraduate achievement, usually a 3.0 average or better.
3. A statement, not to exceed four hundred words, outlining the applicant's purpose and goals in pursuing graduate study. This statement should include the other application materials sent to the Office of Graduate Admissions.
4. A portfolio of at least ten examples of the applicant's studio work. The portfolio should contain both two and three-dimensional work. It should reflect basic skills in drawing and design and sufficient advanced skill in one area for the applicant to successfully enter that area at the graduate level. Good quality slides are preferable in place of the actual work. Applicants should use the requirements for submissions of portfolios described above under the section on admission requirements for the M.F.A. degree.
5. A portfolio of at least ten examples of work by the applicant's students if the applicant has taught. The portfolio should represent a variety of media and reflect quality in design, craftsmanship, originality, complexity, and historical or cultural content. For the submission of actual work, slides or photographs of the applicant should be used. The portfolio should be submitted to the Office of Graduate Admissions no later than the deadline listed in the catalog.

Applicants to the M.A.Ed. degree program who would like to supplement their portfolios before making official application are encouraged to enroll in the School of Art and Design and pursue graduate work. Application forms may be obtained from the Undergraduate Admissions Office at Georgia State University. Applicants are encouraged to meet personally with a member of the art education faculty to familiarize themselves with requirements of the program before application.

M.F.A. Degree

Specific admission requirements for the M.F.A. degree in art history include the following:

1. A high standard of overall undergraduate achievement.
2. Undergraduate coursework in art history. Applicants normally should have a minimum of five upper-level courses or the equivalent.
3. A one-page statement of purpose describing the current interests in art history and an indication of long-range career goals.

Applicants are encouraged to submit a writing sample such as a term paper from an upper-level art history course. Applicants to the art history graduate program are also encouraged to meet personally with a member of the art history faculty.
design and sufficient advanced skill in one area. A total of twenty images should be submitted if the applicant is not a practicing art educator. If the applicant is a practicing art teacher, a minimum of ten images of personal studio work and up to ten images of student work are acceptable. Under no circumstances should more than twenty images be submitted. Examples of work by the applicant’s students should represent a variety of media and reflect quality in design, craftsmanship, originality, complexity, and historical or cultural content.

Submission guidelines for the statement and portfolio preparation are the same as the M.F.A. degree (listed below).

4. GRE or MAT scores.

Specific admission requirements for the M.A.Ed. degree include the following:

1. An undergraduate major appropriate to the intended major at Georgia State University.
2. A high standard of overall undergraduate achievement, usually a grade-point average of 3.0 or higher.

Applicants to the M.A.Ed. degree program who would like to supplement their portfolios before making official application are encouraged to enroll in the Welch School of Art and Design as post baccalaureate or nondegree graduate students. Application forms for post baccalaureate status may be requested from the Undergraduate Admissions Office at Georgia State University. Application forms for nondegree graduate status are available from the Graduate Office of the College of Arts and Sciences, 404/651-2297. Applicants are encouraged to meet personally with a member of the art education faculty to familiarize themselves with requirements of the program before application.

Please note: Deadlines are not postmark deadlines but deadlines for completion of applications.

All materials must be in the College of Arts and Sciences Graduate Office by the deadline. Due to the volume of applications submitted each year, a return receipt is highly recommended. It is also recommended that you submit all your materials a month in advance.

M.F.A. Degree:

Applicants for the M.F.A. degree must submit the following items:

1. Three letters of recommendation. No form is required.
2. A one-to-two-page statement of purpose describing current academic interests, proposed area of specialization, and long-range career goals. The statement should also explain how the graduate program at Georgia State will serve those interests and goals.
3. Portfolio: A successful portfolio demonstrates creativity and commitment in a cohesive body of work. Admissions portfolios may include slides/CD-ROMs/DVD-ROMs; film/video projects; videos of acting/dance/performance. Include no more than twenty images. A list with the title of the work, date, medium and dimensions should accompany slides or CD-ROM. Include a blank sheet listing the major components of the portfolio and the student’s role (e.g., director, actor, etc.) in each work.

Still image submissions:

Label all materials with name and area of study. Include no more than 20 images. A list with the title of the work, date, medium and dimensions should accompany slides or CD-ROM. Label all slides with name, slide number, title of work, date, medium and orientation of slide. Slides must be submitted in an 8 1/2 x 11 clear slide sheet. Label CD-ROM with name and area of study. Web-based portfolios should be copied to CD or DVD and sent with application.
Moving image/sound submissions:
Label all materials with name and area of study. Include no more than 6 minutes of audio-visual material. Work must be accompanied by a list with the title of the work, date, full running time, and the student’s role (e.g., director, actor, etc.) in each work; Cue tape to desired location; List starting point for DVD-ROM viewing; Label DVD-ROM with name and area of study. Web-based portfolios should be copied to DVD or CD and sent with application.

If an applicant wishes to include a mixture of stills, sound, or moving images, then the materials will be divided evenly. For example, if slides and video tape are submitted, 10 slides and 3 minutes of video are allowed.

More than one format for still images will not be accepted (choose slides or CD).
More than one format for moving images will not be accepted (choose 1/2" video or DVD).
No URLs will be accepted.
Do not send additional work. If more materials are included than requested, the committee will only view the first 20 images or first 6 minutes. Submitting additional work is looked upon unfavorably by the committee.
Do not submit work in folders or notebooks.
Include a 10.5" x 15" (inner size) or smaller SASE for return of portfolio materials. If a SASE is not included, work will be discarded.
We will take care to protect your work, but we cannot be held responsible for loss or damage.
DO NOT SEND ORIGINAL WORK.

Please note: Deadlines are not postmark deadlines but deadlines for completion of applications.
All materials must be in the College of Arts and Sciences Graduate Office by the deadline. Due to the volume of applications submitted each year, a return receipt is highly recommended. It is also recommended that you submit all your materials a month in advance.

Degree Requirements
Master of Arts in Art History (36-hour program)

1. Twenty-one hours of coursework consisting of core art history lecture courses or seminars with a minimum of three seminars (AH 6000 or AH 8000 level).
2. Three hours of AH 8010, Methodology and Historiography.
3. Six hours of electives in related area chosen with the approval of an advisor.

The seven required art history courses must be distributed in areas that are both related and unrelated to the student's major areas of concentration. The distribution of courses should be determined in consultation with the student's advisor.

Candidates for the Master of Arts degree in art history must demonstrate a reading knowledge of either French or German. The language requirement should be fulfilled no later than the end of the first year (or 18 hours) of graduate work. This requirement may be fulfilled by passing the Modern Language Graduate Foreign Language Examination (MSL), a standardized test administered by the Educational Testing Service, or a reading examination administered by the Department of Modern and Classical Languages. The reading tests, offered once a semester, emphasize translation ability. Students are permitted to take the exam more than once, if necessary.

Candidates for the Master of Arts degree in art history are required to pass a written comprehensive examination for understanding work on the thesis, normally no later than the semester in which their coursework is completed. Art History faculty can provide a detailed guideline for the exam to students upon acceptance to the program.

Applicants may obtain information about the School of Art and Design by contacting the:

Director of Graduate Studies
School of Art and Design
Georgia State University
University Plaza
Atlanta, Georgia 30308
(404) 651-2237
http://www.pda.kent.edu

Moving image/sound submissions:
Label all materials with name and area of study. Include no more than 6 minutes of audio-visual material. Work must be accompanied by a list with the title of the work, date, full running time, and the student’s role (e.g., director, actor, etc.) in each work; Cue tape to desired location; List starting point for DVD-ROM viewing; Label DVD-ROM with name and area of study. Web-based portfolios should be copied to DVD or CD and sent with application.

If an applicant wishes to include a mixture of stills, sound, or moving images, then the materials will be divided evenly. For example, if slides and video tape are submitted, 10 slides and 3 minutes of video are allowed.

More than one format for still images will not be accepted (choose slides or CD).
More than one format for moving images will not be accepted (choose 1/2" video or DVD).
No URLs will be accepted.
Do not send additional work. If more materials are included than requested, the committee will only view the first 20 images or first 6 minutes. Submitting additional work is looked upon unfavorably by the committee.
Do not submit work in folders or notebooks.
Include a 10.5" x 15" (inner size) or smaller SASE for return of portfolio materials. If a SASE is not included, work will be discarded.
We will take care to protect your work, but we cannot be held responsible for loss or damage. DO NOT SEND ORIGINAL WORK.

Please note: Deadlines are not postmark deadlines but deadlines for completion of applications.
All materials must be in the College of Arts and Sciences Graduate Office by the deadline. Due to the volume of applications submitted each year, a return receipt is highly recommended. It is also recommended that you submit all your materials a month in advance.

Degree Requirements
Master of Arts in Art History (36 hours)

Students should refer to the departmental program brochure for specific details concerning the art history degree program. The following information is a brief overview of the various degree requirements.

1. Twenty-one hours of coursework consisting of seven art history lecture courses or seminars with a minimum of three seminars (AH 6000 or AH 8000 level).
2. Three hours of AH 8010, Methodology and Historiography.
3. Six hours of electives in related areas chosen with the approval of an advisor.
5. Thesis proposal approved by the thesis committee.
7. Thesis approved by the thesis committee.

Upon entering the program, students must select advisers to direct their programs of study. Students are responsible for making appointments with their advisers and for being familiar with the requirements for the degree as set forth in the departmental program brochures. Students must work closely with their advisers to make sure that they correctly progress toward the degree.

Students should take one course in three of five general areas of study. These areas are: Ancient Art; Medieval, Renaissance, and Baroque Art; Modern Art; Art of Africa and the African Diaspora; and Art of the Americas. Students should determine the distribution of courses in consultation with their advisers.

Candidates for the Master of Arts degree in Art History must demonstrate a reading knowledge of either French or
German. The language requirement should be fulfilled no later than the end of the first year (or 18 hours) of graduate work. This requirement may be adjusted by petition of the student if his/her major area of research requires learning a language other than French or German. The foreign language reading requirement may be satisfied by passing a reading examination administered by the Department of Modern and Classical Languages. The reading tests, offered once a semester, emphasize translation ability. Students are permitted to take the exam more than once, if necessary.

Candidates for the Master of Arts degree in Art History are required to pass a written comprehensive examination after the completion of their course work and prior to undertaking work on the thesis. Art history faculty can provide detailed guidelines for the exam to students upon acceptance to the program.

### Master of Art Education (36 hours)

**Prerequisites:**

Students accepted into the program with a degree in art but without teacher certification must complete the following prerequisites that lead to initial teacher certification. Students should consult closely with an adviser on the sequencing of these courses, portfolio reviews, and tests required for initial certification. Students achieving certification through alternative routes may also need to complete additional coursework. Art education courses leading to initial certification may not be counted toward the M.A.Ed. Degree:

1. **The initial certification sequence includes:**
   - **AE 6200** Art for Preschool Through Fifth Grade (3)
   - **AE 6300** Art for Middle and Secondary Schools (3)
   - **AE 6400** Media, Technology, and Visual Presentation (3)
   - **AE 6900** Art Theory and Criticism in Art Education (3)

   Student must successfully pass the GACE Basic Skills exam prior to student teaching placement or enrollment in internship courses. AE 4750, AE 4760, AE 4700, AE 4780 (12) (one semester of student teaching) or AE 4785, 4786 and 4795, 4796 (two semesters of internships and seminars for students already teaching with a provisional certification). These courses are only offered at the undergraduate level and do not count toward the M.A.Ed.

2. **Nine hours of core courses in education are required for teaching certification.** Two of these graduate-level education courses will be accepted for certification and in the graduate program:
   - **EXC 4020** Characteristics and Instructional Strategies for Students with Disabilities (3)
   - **EPY 7080** The Psychology of Learning and the Learner (3)
   - **EPSF 7120** Social and Cultural Foundations of Education (3)

3. **Any art studio or art history course required as part of the undergraduate art education program and not previously taken. Coursework will be taken at the graduate level and counted toward certification and/or the M.A.Ed degree as required and appropriate.**

Students accepted into the graduate program with a degree in art but without teacher certification should discuss their career goals and plan of study with an art education adviser prior to registration in any coursework. Graduate applicants certified to teach art through an alternative route may be required to take additional coursework. Successful completion of GACE II tests in art education is required for certification in Georgia.

**Course of Study for M.A.Ed. Program in Art Education (36 hours after initial certification)**

1. **Three hours of art history coursework**
2. **Nine hours of coursework in a studio concentration**
3. **Nine hours of 8000 level art education coursework**
4. **Three hours of coursework in the area of the psychology of learning, to be selected from:**
   - **EPY 7080** The Psychology of Learning and Learners (3)
5. Three hours of coursework in the areas of philosophical and social foundations of education, to be selected from:
   EPSF 7100  Critical Pedagogy (3)
   EPSF 7110  Multicultural Education (3)
   EPSF 7120  Social and Cultural Foundations of Education (3)

6. Three hours of research methodology, to be selected from:
   EPRS 7900  Methods of Research in Education (3)
   EPRS 7910  Action Research (3) (preferred)
   EPRS 7920  Classroom Testing, Grading, and Assessment (3)

7. Six hours of AE 8999, Thesis Research.

The thesis in art education may concentrate solely on an art education issue, or explore a studio or art history oriented problem that is tied to an art education issue. Research in art education may focus on action research in the candidate’s own classroom as well as other research methodologies. Thesis research that includes a thesis exhibition is also acceptable.

**Master of Fine Arts, Studio (60 hours)**

1. Thirty hours of coursework in a studio concentration.
2. Twelve hours of coursework in art history.
3. Six hours of non-art electives or art electives from outside the area of concentration.
4. Twelve hours of thesis research in the appropriate studio area.
5. A written thesis.
6. A graduate thesis exhibition, presentation or screening.

Each student must pass a review after completing 24 hours of coursework. A list of required and recommended courses for each concentration is available from either the Office of the Welch School of Art and Design or the Director of Graduate Studies.
Department of Physics and Astronomy

William J. Nelson, Chair
Paul F. Wells, Director of Graduate Studies, Astronomy
Paul A. Grauer, Director of Graduate Studies, Physics

Degrees offered: Master of Science
Doctor of Philosophy

3120 Astronomy

Programs Offered:
Master of Science

- See: Physics Master of Science with a Concentration in Astronomy

Doctor of Philosophy

- Concentration in Astronomy

Department of Physics and Astronomy
Georgia State University
P.O. Box 4106
Atlanta, Georgia 30302-4106
404/651-3221 (for Physics)
404/651-1368 (for Astronomy)
http://www.phy-astr.gsu.edu
E-mail (admissions secretary): yhilare@gsu.edu
E-mail (astronomy): gies@chara.gsu.edu

Richard Miller, Chair
Douglas R. Gies, Director of Graduate Studies, Astronomy

The Department of Physics and Astronomy works closely with the graduate students on theoretical and experimental research in the following areas: atomic physics, biophysics, molecular physics, nuclear physics, condensed matter physics, astronomy, and astrophysics.

Applicants may obtain additional information about the Department of Physics and Astronomy by contacting the Director of Graduate Studies at the addresses above.

Degree Requirements

Doctor of Philosophy in Astronomy (71 hours beyond the baccalaureate degree)

1. Students must either complete or exempt Phys 6510, 6520, 6810, and 6810. Exemption from these courses may be granted on the basis of testing or of having successfully completed similar courses elsewhere. Students not exempting at least two courses must take more than the seventy-one minimum hours required for the degree.

2. Students must have competence in the following areas of mathematics: matrix algebra, vector and tensor analysis, partial differential equations, Fourier series and boundary value problems, and complex variables.

3a. Students seeking a Ph.D. degree in physics must complete at least twenty-two hours of core courses including:
- Phys 6100: Advanced Classical Mechanics
- Phys 6110: Advanced Electromagnetic Theory I
- Phys 6120: Advanced Electromagnetic Theory II
- Phys 6210: Quantum Mechanics 1
- Phys 6220: Statistical Mechanics

And two of the following courses:
- Astr 6000: Fundamentals of Astrophysics
- Astr 6200: Stellar Structure
- Astr 6300: Stellar Structure
- Astr 6400: The Interstellar Medium
- Astr 6500: Cosmology
- Astr 6600: Interstellar Astrophysics
- Phys 6120: Plasma Physics

3b. Students seeking a Ph.D. degree in astronomy must complete at least fifteen hours of core courses including:
- Astr 6000: Astronomical Techniques and Instrumentation
- Astr 6100: Fundamentals of Astrophysics

And at least three of the following:
- Phys 6010: Advanced Classical Mechanics
- Phys 6100: Advanced Electromagnetic Theory I
- Phys 6110: Advanced Electromagnetic Theory II
- Phys 6210: Quantum Mechanics 1
- Phys 6220: Statistical Mechanics

4a. Students seeking a Ph.D. degree in physics must complete:
1. Phys 6220: Quantum Mechanics II
2. At least twelve additional hours of 6000-level physics courses.

No more than three hours of Phys 6100 (Directed Study) can count towards the degree.
4. As an alternate to the standard program, applied physics options are available. Students seeking any of these options may have to satisfy specific course requirements. Contact the relevant graduate director for details.

4a. Students seeking a Ph.D. degree in astronomy must complete at least twenty-one additional hours of 8000-level astronomy courses, including at least two but no more than three hours of Astr 8000 (Seminar). No more than three hours of Astr 8910 (Directed Study) can count towards the degree.

5. Satisfactory completion of one hour of Phys 6590 or Astr 6300 (Teaching Physics/Astronomy) and two hours of Phys 6210 or Astr 6510 (Teaching Physics/Astronomy Lab Practicum).

6. A minimum of twenty hours of either Phys 5999 or Astr 5999 (Doctoral Dissertation Research) must be completed; only twenty hours counts towards the seventy-one hours for the Ph.D. The applied physics options will have more specific requirements. Contact the relevant graduate director for details.

7. Satisfaction of the foreign language/research skill requirement. (Contact the department for details.)

8. Students seeking a Ph.D. degree in physics must take the physics general examination, administered as a written examination, after passing Phys 8210, 8220, 8230, and either Astr 6600 or Phys 8210.

8a. Students seeking a Ph.D. degree in astronomy must take the first astronomy general examination, administered as a written examination, covering the fundamentals of astronomy, within a year of entering the program.

8b. Students pursuing a Ph.D. degree in astronomy must also take a second general examination, administered as a written and oral examination, after passing at least twelve hours of 8000-level astronomy courses and at least nine hours of required 8000-level physics courses.

9. Students pursuing the Ph.D. degree are strongly urged to satisfy the requirements for the M.S. (non-thesis option) as soon as possible after entering the program. See the appropriate director of graduate studies for details.

10. Prior to registration each semester, students must be advised by either the chair of the department or the appropriate director of graduate studies.

4. Students seeking a Ph.D. degree in Astronomy must complete at least 21 additional hours of 8000-level astronomy courses, including at least two (but no more than three) hours of Astr 8900 (Seminar). No more than three hours of Astr 8910 (Directed Study) can count towards the degree.

5. Satisfactory completion of one hour of Astr 6300 (Teaching Astronomy) and two hours of Astr 6310 (Teaching Astronomy Lab Practicum).

6. A minimum of 20 hours of Astr 9999 (Doctoral Dissertation Research) must be completed; only 21 counts towards the 71 hours for the Ph.D.

7. Satisfaction of the foreign language/research skill requirement. (Contact the department for details.)

8a. Students seeking a Ph.D. degree in Astronomy must take the first astronomy general examination, administered as a written examination covering the fundamentals of astronomy, within a year of entering the program.

8b. Students seeking a Ph.D. degree in Astronomy must also take the second general examination, administered as a written and oral examination, after passing at least twelve hours of 8000-level astronomy courses and at least nine hours of required 8000-level physics courses.

9. Students pursuing the Ph.D. degree are strongly urged to satisfy the requirements for the Physics M.S. with a Concentration in Astronomy (non-thesis option) as soon as possible after entering the program. See the director of graduate studies for details.

10. Prior to registration each semester, students must be advised by either the chair of the department or the director of graduate studies.

Applications may obtain additional information about the Department of Physics and Astronomy by contacting the

Director of Graduate Studies (unless either Physics or Astronomy)
Department of Physics and Astronomy
Georgia State University
University Plaza
Atlanta, Georgia 30302
(404) 688-3200 (Physics)
(404) 688-3207 (Astronomy)
http://www.physics.gsu.edu
email (Physics): physapp@sunray.gsu.edu
email (Astronomy): wade@chara.gsu.edu

Prior to registration each semester, students must be advised by either the chair of the department or the director of graduate studies.
## Program Offered:

### Master of Science in Biological Sciences
- General degree
- Concentration in Applied and Environmental Microbiology (AEM)
- Concentration in Cellular and Molecular Biology and Physiology (CMBP)
- Concentration in Molecular Genetics and Biochemistry (MGB)
- Concentration in Neurobiology and Behavior (NB&B)
- Concentration in Biotechnology

### Doctor of Philosophy in Biology
- Concentration in Applied and Environmental Microbiology (AEM)
- Concentration in Cellular and Molecular Biology and Physiology (CMBP)
- Concentration in Molecular Genetics and Biochemistry (MGB)
- Concentration in Neurobiology and Behavior (NB&B)
- Concentration in Molecular Genetics and Biochemistry with Interdisciplinary Specialization in Bioinformatics

### Interdisciplinary Emphasis in Bioinformatics

### Department of Biology

**Faculty Members:**
- Phang C. Tai, Chair
- Teryl Frey, Associate Chair
- Barbara Baumstark, Director of Instructional Programs
- W. W. Walthall, Director of Master’s Program
- George Pierce, Program Director, AEM
- Delon Barfuss, Program Director, CMBP
- Chung-Dar Lu, Program Director, MGB
- Vincent Rehder, Program Director, NB&B

**Research Focus:**
- Applied and environmental microbiology (AEM)
- Cellular and molecular biology and physiology (CMBP)
- Molecular genetics and biochemistry (MGB)
- Neurobiology and behavior (NB&B)

Graduate research assistantships and teaching assistantships are available to qualified students admitted to the graduate program. In addition, students may also qualify for support from grants and contracts in connection with their research programs.

### Admission Requirements

In addition to the general requirements of the College of Arts and Sciences, the Department of Biology has the following requirement:

1. Complete and submit the Supplemental Application Form for Biological Sciences.

### Degree Requirements

#### MASTER OF SCIENCE

Students are considered to be pursuing the nonthesis option unless otherwise noted. Acceptance into the thesis option requires the submission of a thesis proposal (approved by a three-member faculty committee that includes the thesis advisor) to the Departmental Committee on Graduate Studies.

**Nonthesis Option (48-hour program):**

1. Forty hours of classroom coursework, to be selected from 6000- and 8000-level courses, which must include:
   a. One course in biochemistry. This requirement may be waived if the student has taken and successfully completed an equivalent undergraduate course with a grade of B+ or better.
   b. Two hours of Bio 7700, Biology Seminar.
2. **A general examination.**

3. The successful completion of a laboratory- or literature-based research paper. In order to satisfy this requirement, the student should select a major professor and enroll in Bio 8800, Research. A maximum of four credit hours of Bio 8800 may be counted toward the 48-hour course requirement.

**Thesis Option (36-hour program):**

1. Twenty-six hours of classroom coursework, to be selected from 6000- and 8000-level courses, which must include:
   a. One course in biochemistry. This requirement may be waived if the student has taken and successfully completed an equivalent undergraduate course with a grade of B+ or better.
   b. Two hours of Bio 7700, Biology Seminar.
2. **A general examination.**

5. A final presentation, directed primarily to the defense of the thesis.

Biology faculty members are actively engaged in a wide variety of research endeavors. Research efforts are concentrated in the following specific areas: applied and environmental microbiology (AEM), cellular and molecular biology and physiology (CMBP), molecular genetics and biochemistry (MGB), and neurobiology and behavior (NB&B).

Graduate research assistantships and teaching assistantships in the department are available to qualified students admitted to the graduate program. In addition, students may also qualify for support from grants and contracts in connection with their research programs.

The Department of Biology accepts applications for all semesters. In order to be considered for graduate assistantships, applicants must have all application materials at the department by the posted deadline. Foreign applicants should allow at least two months for processing of their application materials.

Applicants may obtain additional information about the Department of Biology or specific disciplines by contacting the
Additional Admission Requirements

In addition to the general requirements of the College of Arts and Sciences, the Department of Biology has the following requirement:

Applicants must complete and submit the Supplemental Application form for Biological Sciences to the Biology Department.

Degree Requirements

Master of Science

Students may choose between two degree options. The non-thesis option emphasizes coursework and the thesis option emphasizes research. However, students enter under the non-thesis track. Transfer to the thesis option requires the approval of a thesis proposal by a three-member faculty committee that includes the thesis adviser.

In addition to the general degree plan, there are six discipline specific concentrations: applied and environmental microbiology (AEM), cellular and molecular biology and physiology (CMBP), molecular genetics and biochemistry (MGB), neurobiology and behavior (NB&B), bioinformatics, and biotechnology. Students wishing to concentrate in AEM or Biotechnology must apply directly to those programs.

All entering M.S. students are encouraged to obtain a copy of the departmental M.S. policy document.

Non-Thesis Option (40 hours):

1. Forty hours of classroom coursework, to be selected from 6000 and 8000-level courses, must include:
   a. One course in biochemistry. This requirement may be waived if the student has taken and successfully completed an equivalent undergraduate course with a grade of B or higher.
   b. Two hours of Seminar (Biol 6970 or 8700). Students may take one hour of each or two hours of 8700.
   c. The successful completion of a laboratory or literature-based research paper. In order to satisfy this requirement, the student must select a major professor and enroll in Biol 8888, Non-Thesis MS Research. A maximum of four credit hours of Bio 8888 may be counted toward the 40-hour course requirement.

Thesis Option (40 hours):

1. Twenty-six hours of classroom coursework, selected from 6000 and 8000-level courses, must include:
   a. One course in biochemistry. This requirement may be waived if the student has taken and successfully completed an equivalent undergraduate course with a grade of B or higher.
   b. Two hours of Seminar (Biol 6970 or 8700). Students may take one hour of each or two hours of 8700.
   c. An orally defended thesis proposal.
   d. Fourteen hours of Biol 8999, Thesis Research.
   e. A thesis.
   f. A final presentation, directed primarily to the defense of the thesis.

M.S. in Biology with a concentration in Biotechnology

Application/Acceptance:

Students must apply in writing for admission. Students not currently enrolled in the M.S. programs must concomitantly apply for admission to the M.S. program; admission will be into both the M.S. program and the biotechnology concentration. In addition to the M.S. program admission requirements, applicants to the Biotechnology concentration must have completed Chem6600 (Biochemistry) or its equivalent with a grade of “B” or higher. Admission to the concentration will be made by the Biotechnology Area Committee on the basis of credentials and is dependent on space availability.

Non-Thesis Option (40 hours):

1. Prerequisite (5):
Chem 6600           Biochemistry I (5)

2. Core Courses (5):
   Biol 6696           Laboratory in Molecular Biological Techniques (4)
   Biol8970           Topics in Molecular Biological Sciences (1)

3. Laboratory Practica (15):
   Biol8800           Research (15) (Minimester; 5 credit hours each time taken)

   Biol8888           Non-Thesis Master’s Research (4)

5. Seminar (2 sections):
   Biol8700           Biology Seminar (1)

6. Electives (9) (Approved by Biotechnology Committee)

7. Laboratory Practica: Both technique-based and project-based rotations will be offered. Students will meet with
   an adviser upon entering the concentration to determine rotations that best suit the student’s goals and needs.

8. Research Paper: Upon completing of each rotation, the student will submit a progress report covering activities
   engaged in during the rotation. An adviser will mentor the student in the writing process. The three progress reports will
   constitute the non-thesis research paper and will comprise the basis of a portfolio, which the student can use as
   evidence of training and accomplishments.

Thesis Option (40 hours):

For admission into the Thesis option, the student must have a Thesis proposal accepted.

1. Prerequisite (5):
   Chem 6600           Biochemistry I (5)

2. Core Courses (5):
   Biol 6696           Laboratory in Molecular Biological Techniques (4)
   Biol 8970           Topics in Molecular Biological Sciences (1)

3. Laboratory Practica (15):
   Biol 8800           Research (15) (Minimester; 5 credit hours each time taken)

4. Thesis Research (4):
   Biol 8999           Thesis Research (4)
   Up to 10 credit hours of Biol 8800 (Practica) can be applied towards the Thesis Research requirement. 4 credits
   must come from 8999.

5. Seminar (2 sections):
   Biol 8700           Biology Seminar (1)

6. Electives (9) (Approved by Biotechnology Committee)

7. Laboratory Practica: Both technique-based and project-based rotations will be offered. Students will meet with
   an adviser upon entrance into the concentration to determine rotations that best suit the student’s goals and needs.

8. Research Paper: The student will submit a Thesis proposal to be accepted by a Thesis Committee. The student will
   complete a Thesis to be defended before the Thesis Committee. The thesis may be based upon research done during
   the rotations.


Requirements for Biology M.S. Program with Interdisciplinary Emphasis in Bioinformatics

Bioinformatics has grown from the creation of large biological databases that required computational approaches for
efficient manipulation and analysis to a multi-faceted discipline that also includes microarray technology, statistical analysis, and
molecular modeling. We offer non-thesis and thesis options for this interdisciplinary degree. The non-thesis option requires a
minimum of 40 semester credit hours of coursework and a non-thesis report. The thesis option requires a minimum of 26
semester hours of coursework and 14 credit hours of research.

Biology and Chemistry courses must be selected from courses numbered 6000 and 8000. (Biol and Chem 7000-7999 are not applicable toward the M.S. Degree in Biology.) Math and Computer Science courses at the 7000 level that serve as prerequisites for 6000 and 8000-level interdisciplinary courses may be applied towards the coursework requirement.

Coursework must include:

a. One course in biochemistry of at least three hours [normally Chem 6600 (5 hours) or Chem 6610 (3 hours)], although higher level courses may be selected. This requirement may be waived if the student has successfully passed an equivalent undergraduate course with a grade of B or better (in the case that the biochemistry work is waived, the student must still complete requisite hours of coursework).
b. Biol 6564 Advanced Genetics (4)
c. Biol 6640 Fundamentals of Bioinformatics (4)
d. Two hours of Biol 6970 or Biol 8700. Students may take one hour of each or two hours of Biol 8700.
e. Twelve hours of interdisciplinary coursework to be selected from among the following:
   * CSc 6310 Parallel and Distributed Computing (4) Prerequisites: *CSc 7350 (Java) and *CSc 7351 (C++) (these two programming courses provide credits toward the Bioinformatics degree.
   * CSc 6350 Software Engineering (4) Prerequisites: CSc 6999 (Data Structures), CSc 7350 and 7351 are prerequisites for CSc 6999
   * CSc 6710 Database Systems (4) Prerequisites: CSc 6999 (Data Structures), CSc 7350 and 7351 are prerequisites for CSc 6999
   * CSc 6730 Scientific Visualization (4) Prerequisites: CSc 7350 (Java) and CSc 7351 (C++)
   * CSc 8710 Deductive Databases and Logic Programming (4) Prerequisite: CSc 6710
   * Math 6544 Biostatistics (3)
   * Math 6548 Methods of Regression and Analysis of Variance (3) Prerequisite: Math 6544 or Biol 6744 (Biostatistics)
   * Stat 8050 Statistics for Bioinformatics (3) Prerequisite: Math 6544 or Biol 6744
   * Stat 8540 Advanced Methodologies in Biostatistics (3) Prerequisite: Math 6544 or Biol 6744

* Course counts towards degree requirements.

For the Non-Thesis Option:
1. Thirteen hours of electives which may include:
   a. Biology courses including four hours of research (Biol 8800)
   b. Chem 6110, Physical Chemistry I (3) and Chem 6450, Molecular Modeling Methods (3)
   c. Additional computer science or math and statistics courses in excess of the 12 hour requirement.
2. The successful completion of a laboratory or literature-based research paper on a topic that includes a relevant bioinformatics component. The guidelines for the research paper are similar to those for the Biology, M.S. non-thesis research paper; however, one of the committee members must be from the math or computer science department.

For the Thesis Option:
1. An approved and successfully defended thesis proposal. The guidelines for the written proposal and oral defense are similar to those for the Biology M.S. thesis proposal; however, the thesis topic must be on a topic that includes a relevant bioinformatics component and one of the thesis committee must be from the math or computer science department.
2. Fourteen hours of Biol 8999 (Thesis Research).
4. A final oral presentation directed primarily to defense of the thesis.
Doctor of Philosophy

The Department of Biology offers programs leading to the Doctor of Philosophy (Ph.D.) degree in Biological Sciences. Specialized programs of study are provided in the following core disciplines: applied and environmental microbiology, cellular and molecular biology and physiology, molecular genetics and biochemistry, and neurobiology and behavior, molecular genetics & biochemistry with interdisciplinary specialization in bioinformatics.

General Requirements: At least 90 hours of graduate credit are required for the Ph.D. in Biological Sciences. To satisfy the minimum requirements for the degree, the student must complete successfully:

1. 90 hours of graduate classroom coursework, which must include:
   a. Discipline-specific core courses (8 hours)
   b. Discipline-specific electives (8 hours)
   c. Discipline-specific topics/concepts and seminar (14 hours, which must include at least 4 hours of topics or concepts and one hour of Biol 8550 and three hours of Biol 6801).
2. Proficiency in biochemistry. This requirement can be fulfilled by completion of Chem 6600 or waived if the student has completed an equivalent undergraduate or graduate level course with a grade of B or higher. Substitution of an equivalent discipline-related subject (appropriate to the student’s program of study) will be considered on a case-by-case basis and requires prior written approval of the Area Program Director.
3. Sixty hours of biology research (Biol 8800 or 9999). At least 30 hours must be Biol 9999.
4. A qualifying examination.
6. A final oral presentation, directed primarily to the defense of the dissertation.

Specific Requirements: The following coursework constitutes the minimum core requirements for each discipline. Substitutions in the curriculum may be made based on the recommendation of the student’s research adviser and require the prior written approval of the Biology Graduate Committee. Students will be expected, however, to demonstrate knowledge of all material covered in discipline-specific core courses (below) during the qualifying examination.

Applied and Environmental Microbiology: Biol 8410 and 8610.
Cellular and Molecular Biology and Physiology: Biol 8220, 8248, and 8620 (any two)
Molecular Genetics and Biochemistry: Biol 8610 and 8620.
Molecular Genetics & Biochemistry with Interdisciplinary Specialization in Bioinformatics: Biol 8610 and Biol 8620
Neurobiology and Behavior: Biol 8010 and 8020.

Requirements for Biology (MGB) Ph.D. Program with Interdisciplinary Specialization in Bioinformatics

Departmental Requirements (4 hours; may be used to meet Elective requirement)
  Biol 6640 Fundamentals of Bioinformatics (4)

Interdisciplinary Requirements (12 hours)

Courses in Bioinformatics offered by the Mathematics and Statistics and/or Computer Science Departments (specified prerequisites may be used to satisfy the 12 hour requirement). In consultation with the Major adviser, the student will submit a course plan to meet these requirements for approval by the MGB Graduate Director. Interdisciplinary courses include:

Math 6544 Biostatistics (3)
Math 6548 Methods of Regression and Analysis of Variance (3) Prerequisite: Math 6544 or Biol 6744 (Biostatistics)
Stat 8050 Statistics for Bioinformatics (3) Prerequisite: Math 6544 or Biol 6744 (Biostatistics)
Stat 8540 Advanced Methodologies in Biostatistics (3) Prerequisite: Math 6454 or Biol 6744 (Biostatistics)
CSc 6310 Parallel and Distributed Computing (4) Prerequisites: CSc 7350 (Java) and CSc 7351 (C++)
CSc 6350 Software Engineering (4) Prerequisite: CSc 6999 (Data Structure), CSc 7350 and CSc 7351 are prerequisites for
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
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<tbody>
<tr>
<td>CSc 6710</td>
<td>Database Systems (4)</td>
<td>Prerequisite: CSe 6999 (Data Structure), CSe 7350 and CSc 7351 are prerequisites for CSe 6999</td>
</tr>
<tr>
<td>CSc 6730</td>
<td>Scientific Visualization (4)</td>
<td>Prerequisites: CSc 7350 (Java) and CSc 7351 (C++)</td>
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<tr>
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<td>Deductive Databases and Logic Programming</td>
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3140 Chemistry

Programs Offered:

- Master of Science in Chemistry*
- Doctor of Philosophy*
- Concentration in Biochemistry
- Concentration in Organic Chemistry
- Concentration in Biophysical Chemistry
- Concentration in Analytical Chemistry

Interdisciplinary Emphasis in Bioinformatics is available.

Department of Chemistry
Georgia State University
P.O. Box 4098
Atlanta, Georgia 30302-4098
Phone: 404/651-1664
Fax: 404/651-1416
E-mail: chegsc@langate.gsu.edu
http://chemistry.gsu.edu/about.php

Alfons L. Baumstark, Chair
Markus W. Germann, Director of Graduate Studies
Giovanni Gadda, Associate Director of Graduate Studies

Chemistry faculty members are actively engaged in a wide variety of research projects. Active research programs are pursued in analytical, organic and biophysical chemistry and biochemistry with an option in bioinformatics. The department currently brings in over five million dollars in external research funds annually.

Graduate assistantships are available to qualified students. In addition, students may qualify for support from grants and contracts in connection with their research program. The David Withers Boykin Graduate Fellowship in Medicinal Chemistry is awarded to a doctoral student studying in the field of medicinal chemistry. Other available awards include the Ambrose Pendergrass Fellowship (organic chemistry/biochemistry) and the Solvay Fellowships (analytical chemistry). In addition, approximately 14 graduate assistantships at $22,000 per year are offered in Molecular Basis of Disease (MBD) and Brains and Behavior (BB) areas. Four to six GAANN fellowships are available to qualified Ph.D. students at $22,500. Support is contingent on remaining in good standing and maintaining satisfactory progress toward the degree. Inquiries concerning assistantships and other support should be made to the Graduate Coordinator in the Department of Chemistry. The Department of Chemistry accepts applications for all semesters. Early submission is encouraged for assistantship considerations.

Applicants may obtain additional information about the Department of Chemistry by contacting Graduate Coordinator at chemgradstudent@gsu.edu.

Additional Admission Requirements

In addition to the general requirements of the College of Arts and Sciences, the Department of Chemistry has the following requirements:

1. Applicants should have an undergraduate degree in chemistry. However, consideration will be given to applicants with undergraduate degrees in biology, physics, or related fields who have substantial background in and knowledge of chemistry.

Department of Chemistry

Mathematically, the department offers:

- Master of Science in Chemistry
- Doctor of Philosophy
- Concentration in Biochemistry
- Concentration in Organic Chemistry
- Concentration in Biophysical Chemistry
- Concentration in Analytical Chemistry

Interdisciplinary Emphasis in Bioinformatics is available.

Department of Chemistry
Georgia State University
P.O. Box 4098
Atlanta, Georgia 30302-4098
Phone: 404/651-1664
Fax: 404/651-1416
E-mail: chegsc@langate.gsu.edu
http://chemistry.gsu.edu/about.php

Alfons L. Baumstark, Chair
Markus W. Germann, Director of Graduate Studies
Giovanni Gadda, Associate Director of Graduate Studies

Chemistry faculty members are actively engaged in a wide variety of research projects. Active research programs are pursued in analytical, organic and biophysical chemistry and biochemistry with an option in bioinformatics. The department currently brings in over five million dollars in external research funds annually.

Graduate assistantships are available to qualified students. In addition, students may qualify for support from grants and contracts in connection with their research program. The David Withers Boykin Graduate Fellowship in Medicinal Chemistry is awarded to a doctoral student studying in the field of medicinal chemistry. Other available awards include the Ambrose Pendergrass Fellowship (organic chemistry/biochemistry) and the Solvay Fellowships (analytical chemistry). In addition, approximately 14 graduate assistantships at $22,000 per year are offered in Molecular Basis of Disease (MBD) and Brains and Behavior (BB) areas. Four to six GAANN fellowships are available to qualified Ph.D. students at $22,500. Support is contingent on remaining in good standing and maintaining satisfactory progress toward the degree. Inquiries concerning assistantships and other support should be made to the Graduate Coordinator in the Department of Chemistry. The Department of Chemistry accepts applications for all semesters. Early submission is encouraged for assistantship considerations.

Applicants may obtain additional information about the Department of Chemistry by contacting Graduate Coordinator at chemgradstudent@gsu.edu.

Additional Admission Requirements

In addition to the general requirements of the College of Arts and Sciences, the Department of Chemistry has the following requirements:

1. Applicants should have an undergraduate degree in chemistry. However, consideration will be given to applicants with undergraduate degrees in biology, physics, or related fields who have substantial background in and knowledge of chemistry.

Degree Requirements

Note: Students should refer to the detailed departmental programmatic brochures for the specific details for each degree program. The following information is a brief overview of the various degree options.

MASTER OF SCIENCE, thesis option (32-hour program).

Satisfactory completion of:

1. Twenty-six hours of approved graduate coursework selected from 6000- and 8000-level courses. Eight of the twenty-six hours may be taken in a related field or fields (upon approval). Two hours of Chem 8800 are required.
3. Proficiency in a foreign language or in an approved research skill.
4. A general examination.
5. A thesis.

MASTER OF SCIENCE, non-thesis option (36 hour program).

Satisfactory completion of:

1. A minimum of thirty-six hours of approved coursework to be selected from 6000- and 8000-level courses:
   a. Eight hours of graduate-level biology or related field coursework may be applied toward the degree upon approval.
   b. One hour of Chem 8800, Seminar in Chemistry, must be included.
   c. Three hours of Chem 8910 may be counted toward the thirty-six hour required course requirement.
2. M.S. program: Applicants to the M.S. program must submit a list of three individuals who can evaluate the applicant’s potential to do graduate work in chemistry (submission of reference letters helpful but optional), and a statement of educational/career goals.

3. Ph.D. program:
   a. Applicants to the Ph.D. program must arrange for submission of three letters of recommendation from individuals who can evaluate the applicant’s potential to do graduate work in chemistry.
   b. A detailed statement of educational/career goals and research interests must be provided.

Degree Requirements

Students should refer to the departmental program brochures for the specific details for each degree program. The following information is a brief overview of the various degree options.

Master of Science, thesis option (32 hours)

Satisfactory completion of:
1. Twenty-six hours of approved graduate coursework selected from 6000 and 8000-level courses. Eight of the 26 hours may be taken in a related field or fields (upon approval). Two hours of Chem 8800 are required.
3. Proficiency in a foreign language or in an approved research skill.
4. A general examination.
5. A thesis.

Master of Science, non-thesis option (36 hours)

Satisfactory completion of:
1. A minimum of 36 hours of approved coursework to be selected from 6000 and 8000-level courses:
   a. Eight hours of graduate-level biology or related field coursework may be applied toward the degree upon departmental approval.
   b. One hour of Chem 8800, Seminar in Chemistry, must be included.
   c. Three hours of Chem 8910 may be counted toward the 36-hour required course requirement.
   d. The coursework must be approved by the Director of Graduate Studies in the Department of Chemistry.
2. Proficiency in a foreign language or in an approved research skill.
3. The successful completion of an approved laboratory or literature research paper under the direction of a faculty adviser.

Chemistry M.S. Program with Interdisciplinary Emphasis in Bioinformatics

Bioinformatics has grown from the creation of large databases that required computational approaches for efficient manipulation and analysis to a multi-faceted discipline that also includes microarray technology, statistical analysis, and molecular modeling.

The department M.S. degree with emphasis in bioinformatics is available in both the non-thesis and thesis options described above with the following modifications.

Math and computer science classes at the 7000 level that serve as prerequisites for 6000 and 8000-level interdisciplinary classes may be applied toward interdisciplinary coursework requirement. At least one course in biochemistry (Chem 6600 or above) and Chem 8630 or equivalent must be included in requirement 1 above. In addition, 12 hours of interdisciplinary coursework may be applied toward the degree selected from the following partial listing:

- Biol 6500 Human Genetics (4) [Prerequisite: Biol 3900 (Genetics)]
- Biol 6564 Advanced Genetics (4) [Prerequisite: Biol 3900 (Genetics)]
ORGANIC CHEMISTRY
A. Core courses (9 hours)
   Chem 6410, 6411, and 6420, or approved substitutes;
B. Area Electives (6 hours)—To be selected from:
   Chem 6680, 6610, 6630, or approved substitutes;
C. Interdisciplinary Electives in Biology (6 hours) or approved substitutes;
D. Topics, Electives and Seminar (6-19 hours)—To be selected from:
   Chem 6520, 6540, 6580, 6890, 8910, 8970, or approved substitutes;
E. Research (36 hours) Chem 8900, 8910, 9999 (at least 20 hours must be 9999).

ANALYTICAL CHEMISTRY
A. Core courses (9 hours)
   Chem 6310, 6380, and one of the following: Chem 6410, 6610, 6630 or 6680, or approved substitutes;
B. Area Electives (6 hours)—To be selected from:
   Chem 6370, 6410, 6410, 8510, or approved substitutes;
C. Interdisciplinary Electives in Biology (6 hours) or approved substitutes;
D. Topics, Electives and Seminar (6-19 hours)—To be selected from:
   Chem 8890, 8910, 9999, (at least 20 hours must be 9999).
E. Research (36 hours) Chem 8900, 8910, 9999, (at least 20 hours must be 9999).

Detailed information about graduate degree programs in the Department of Chemistry may be obtained by contacting:
Graduate Secretary
Department of Chemistry
Georgia State University
University Plaza
Atlanta, Georgia 30303
Phone: 404-651-5120
FAX: 404-651-1191
e-mail: chemde@panther.gsu.edu
http://home.gsu.edu

CSc 6310 Parallel and Distributed Computing (4) [Prerequisites: CSc 7350 (Java) and CSc 7351 (C++)]
CSc 6730 Scientific Visualization (4) [Prerequisites: CSc 7350 (Java) and CSc 7351 (C++)]
Math 6548 Methods of Regression and Analysis of Variance (3) [Prerequisite: Math 6544 or Biol 6744 (Biostatistics)]
Stat 8050 Statistics for Bioinformatics (3) [Prerequisite: Math 6544 or Biol 6744 (Biostatistics)]
Stat 8540 Advanced Methodology in Biostatistics (3) [Prerequisite: Math 6544 or Biol 6744 (Biostatistics)]
Biol 6744/Math 6544 (Biostatistics) (3) is required to fulfill the research skill requirement.

For the non-thesis option, the approved laboratory or literature research paper must be on a topic within the area of bioinformatics. For the thesis option, one of the thesis committee members must be from outside the department.

Doctor of Philosophy
The Department of Chemistry offers a program leading to the Doctor of Philosophy (Ph.D.) degree in Chemistry. The Ph.D. degree is offered in biochemistry, organic chemistry, biophysical chemistry, and analytical chemistry. A bioinformatics option is available in each of the four core disciplines.

At least 80 hours of graduate credit are required for the Ph.D. degree. In order to satisfy the minimum requirements for the degree, students must complete successfully:
1. Thirty hours of approved graduate core coursework.
2. Forty hours of research, at least 20 hours of which must be Dissertation Research.
3. Ten additional hours of graduate course electives or research.
4. Satisfaction of the foreign language (research skill) requirement.*
5. A written and an oral qualifying general examination.
7. A final oral examination, directed primarily to the defense of the dissertation.

*Foreign Language/Research Skill Requirement: A reading proficiency in one foreign language or an equivalent research skill—e.g., computer language, technical writing, advanced statistics, electronics, etc.—(departmental approval necessary) is required. Students with M.S. degrees have already satisfied the language requirement. Credit hours used to fulfill this requirement do not count in the 80 hours.

Specific requirements: The following coursework illustrates the minimum curriculum requirements for each discipline. Substitutions in the curriculum may be made based on the recommendation of the student’s research adviser and require the prior written approval of the Director of Graduate Studies and the departmental chair. Students will be expected to demonstrate knowledge of all material covered in the core courses during the qualifying examination.

Biochemistry
A. Core courses (9 hours) - To be selected from Chem 6600, 6610, 6840, 8360, 8370, or approved substitutes;
B. Area Electives (6 hours) - To be selected from Chem 6400, 6410, 8510, or approved substitutes;
C. Interdisciplinary Electives in Biology (6 hours) or approved substitutes;
D. Topics, Electives and Seminar (6-19 hours) - To be selected from Chem 6050, 6450, 8800, 8900, 8910, 8970, or approved substitutes;
E. Research (40 hours) Chem 8900, 8910, or 9999 (at least 20 hours must be 9999).

Biophysical Chemistry
A. Core courses (9 hours) - Chem 6110, 6120, and/or 8510 and choice of Chem 6190, 6370, 6740, 6792, 8360, 8370, or approved substitutes;
B. Area Electives: (6 hours) - To be selected from Chem 6600, 6610 and/or Chem 6400, 6410 and/or Biol 6890,
8500, 8750 or approved substitutes;
C. Interdisciplinary Electives in Biology (6 hours) or approved substitutes;
D. Topics, Electives and Seminar (6-19 hours) - To be selected from Biol/Chem 8970, Biol 8700; Chem 6050, 6450, 8800 and other approved electives;
E. Research (40 hours) Chem 8900, 8910, or 9999 (at least 20 hours must be 9999).

Organic Chemistry
A. Core courses (9 hours) - Chem 6400, 6410, and 6330, 8400, or approved substitutes;
B. Area Electives (6 hours) - To be selected from Chem 6600, 6610, 6370, 8510, or approved substitutes;
C. Interdisciplinary Electives in Biology (6 hours) or approved substitutes;
D. Topics, Electives and Seminar (6-19 hours)- To be selected from Bio/Chem 8970, Bio 8700, Chem 6050, 6450, 8800, 8900, 8910, 8970, or approved substitutes;
E. Research (40 hours) Chem 8900, 8910, or 9999 (at least 20 hours must be 9999).

Analytical Chemistry
A. Core courses (9 hours) - Chem 6015, 6850, and 6870 (Chem 6860) or approved substitutes;
B. Area Electives (6 hours) to be selected from Chem 6370, 6400, 6410, 8510, or approved substitutes;
C. Interdisciplinary Electives in Biology (6 hours) or approved substitutes;
D. Topics, Electives and Seminar (6-19 hours) to be selected from Bio/Chem 8970, Bio 8700, Chem 6050, 6450, 8800, 8900, 8910, 8970, or approved substitutes;
E. Research (40 hours) Chem 8900, 8910, or 9999 (at least 20 hours must be 9999).

Bioinformatics
A. Core courses (9 hours) - Biochemistry/Organic/Biophysical Analysis
B. Area Electives: Appropriate electives for core discipline selected in A or approved substitutes.
C. Interdisciplinary Electives in Biology (6) or approved substitutes.
D. Computer Science Courses (Electives and Seminar) (19)
1. 12 hours from CSc*, Math and/or Chem/Bio Informatics courses or approved substitutes
*[CSc 6260, 6310, 6730, 6840, 8710, 8711, and Stat 8090, 8440, 8540, 8561, 8630, 8660, and 8670 are possible choices.]
2. Chem/Bio courses to fulfill requirement or approved substitutes.
E. Research (40) Approved research courses (at least 20 hours must be 9999).
### 3150 Communication

**Programs Offered:**
- Master of Arts in Communication
  - Concentration in Film, Video, and Digital Imaging
  - Concentration in Human Communication
  - Concentration in Mass Communication
- Doctor of Philosophy in Communication Studies
  - Concentration in Public Communication
  - Concentration in Moving Image Studies

**Department of Communication**
Georgia State University
P.O. Box 4000
Atlanta, GA 30302-4000
404/651-3200
E-mail: mbruner@gsu.edu or arestivo@gsu.edu
http://communication.gsu.edu

David Cheshier, Chair
Kathryn Fuller-Seeley, Associate Chair
Michael Bruner, Area Director of Graduate Studies (M.A. in Human Communication and Mass Communication; Ph.D. in Public Communication)
Angelo Restivo, Area Director of Graduate Studies (M.A. in Film, Video, and Digital Imaging; Ph.D. in Moving Image Studies)

The Master of Arts degree in Communication is a multidisciplinary degree designed to prepare communication professionals and academicians for the demands of the twenty-first century. Each student may select an area of concentration from the following: (1) film, video, and digital imaging; (2) human communication and social influence; and (3) mass communication. Required core classes are designed to provide coherence to the multidisciplinary offerings of the program by providing an overview of the communications field and by introducing concepts common and debated in all areas of communication.

### Degree Requirements

**Master of Arts (Thesis option: minimum 36 hour program)**

1. Six hours of core courses: Content 8000 and Content 8200.
2. Eighteen to twenty-four hours of courses designated by the area of concentration.
3. Up to six hours of coursework in related fields.
4. Proficiency in a foreign language or approved research skill.
5. A written comprehensive examination.

**Master of Arts (Nonthesis option: minimum 36 hour program)**

1. Six hours of core courses: Content 8000 and Content 8200.
2. Eighteen to twenty-four hours of courses designated by the area of concentration.

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### General Catalog 1998-1999

**Department of Communication**
Carol K. Winkler, Chair
William Evans, Director of Graduate Studies

**Degree offered: Master of Arts**

The Master of Arts degree in communication is a multidisciplinary degree designed to prepare communication professionals and academicians for the demands of the 21st century. Each student may select an area of concentration from the following: (1) public relations, (2) television and digital imaging, (3) mass communication, and (4) human communication and social influence. Required core classes are designed to provide coherence to the multidisciplinary offerings of the program by providing an overview of the communications field and by introducing concepts common and debated in all areas of communication.

**Degree offered: Ph.D. in Writing for Mass Audiences**

This program is offered jointly by the Department of Communication and the Department of English. Please refer to the Department of English for degree requirements and admission requirements.

**Admissions Requirements**

In addition to the general requirements of the College of Arts and Sciences, the Department of Communication has the following requirements:

1. A statement of educational or career goals
2. Two letters of recommendation from individuals who can evaluate the applicant's potential to do graduate work in communication
3. An above-average undergraduate grade-point average (a minimally qualified applicant typically will achieve at least a 3.0)
4. An advanced placement high score on the verbal portion of the Graduate Records Examination prior consideration for acceptance into the graduate degree program

Students who have substantial records of professional experience in a communication field may also provide a one-page summary of their experience.

**Note:** The Department of Communication reviews applications for spring and fall sessions. The application deadline is October 1 for spring and April 1 for fall semester. In addition, the department will not consider requests for Special Graduate Status admission.

**Degree Requirements**

**Master of Arts (Thesis option: minimum 36 hour program)**

1. Six hours of core courses: Content 8000 and Content 8200.
2. Eighteen to twenty-four hours of courses designated by the area of concentration.
3. Up to six hours of coursework in related fields.
4. Proficiency in a foreign language or approved research skill.
5. A written comprehensive examination.

**Master of Arts (Nonthesis option: minimum 36 hour program)**

1. Six hours of core courses: Content 8000 and Content 8200.
2. Eighteen to twenty-four hours of courses designated by the area of concentration.
Graduate Studies at the addresses above.

**Additional Admission Requirements**

In addition to the general requirements of the College of Arts and Sciences, the Department of Communication has the following requirements:

1. Applicants to the M.A. program must submit:
   a. A statement of educational or career goals.
   b. Two letters of recommendation from individuals who can evaluate the applicant’s potential to do graduate work in Communication.
   c. An above-average undergraduate grade-point average (a minimally qualified applicant typically will achieve at least a 3.0).
   d. A sufficiently high score on the verbal portion of the Graduate Records Examination prior to consideration for acceptance into the graduate degree program.

2. Applicants to the Ph.D. program must submit:
   a. A statement of educational or career goals.
   b. Three letters of recommendation from individuals who can evaluate the applicant’s potential to do graduate work in Communication.
   c. An above-average undergraduate and master’s grade point average.
   d. Satisfactory scores on the General Test of the GRE (and, for international students, the TOEFL Examination).
   e. A writing sample that demonstrates their ability to conduct and effectively present academic research.

   NOTE: All applicants for the Ph.D. in Communication must have earned a master’s degree before entering the program. Students who have substantial records of professional experience in a communication field may also provide a one-page summary of their experience.

   The Department of Communication reviews applications for spring and fall semesters for applicants to most M.A. programs. Applicants for the digital production emphasis of the Film/Video/Digital Imaging concentration and Ph.D. applicants will be admitted in the fall only. To be assured of consideration for funding, applications must be received in the department by February 15. Deadline for application for domestic students is April 15 for fall semester and October 15 for spring semester. Deadline for applications for international students is March 15 for fall semester and September 15 for spring semester. The department will not consider requests for Special Graduate Status admission.

**Degree Requirements**

**Master of Arts (Research Thesis option: minimum 36 hours)**

1. Six hours of core courses: Comm 6010 and Comm 6030.
2. Eighteen to twenty-four hours of courses designated by the area of concentration.
3. Up to six hours of coursework in related fields.
4. Proficiency in a foreign language or approved research skill.
6. A successful prospectus defense.
8. A successful research thesis defense.

**Master of Arts (Creative thesis option: minimum 36 hours)**

1. Six hours of core courses: Comm 6010 and Comm 6030.
2. Eighteen to twenty-seven hours of courses designated by the area of concentration.
3. Up to nine hours of coursework in related fields.
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<td>4.</td>
<td>Proficiency in a foreign language or approved research skill.</td>
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<td>5.</td>
<td>Three hours of Comm 6990, Thesis Research</td>
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<td>6.</td>
<td>A successful prospectus defense.</td>
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<td>A creative thesis project.</td>
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**Doctor of Philosophy in Communication Studies (Minimum of 68 hours beyond the master's degree)**

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<td>1.</td>
<td>Nine hours of core courses (Ph.D. Proseminar and three hours of Communication Pedagogy).</td>
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<td>2.</td>
<td>Twenty-seven hours in area of concentration (public communication or moving image studies).</td>
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<td>3.</td>
<td>Nine to twelve hours of research tools (approved courses that fall within the general categories of research design, observational methods, ethnography, computer programming, statistics, foreign language, and digital media methods).</td>
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<td>4.</td>
<td>Twenty hours of dissertation research.</td>
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<td>5.</td>
<td>A written comprehensive examination.</td>
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<td>6.</td>
<td>An oral examination.</td>
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The Department of Computer Science offers a program leading to the Doctor of Philosophy (Ph.D.) degree in Computer Science. A bioinformatics option is available. A baccalaureate or master’s degree in computer science, or its equivalent, is required for admission. The department encourages applications from high-tech and teaching professionals and those with non-computer science but closely related degrees. Pursuing the Ph.D. program part-time is possible, so working professionals are encouraged to consider applying. Competitive financial aid is available for full-time Ph.D. students along with tuition waivers.

The M.S. degree program in computer science provides students with advanced training in the fundamental principles and processes of computation. The program focuses on the technical aspects of both software and hardware. Computer Science faculty are actively engaged in a wide variety of research endeavors. Research efforts are concentrated in artificial intelligence and neural nets, computer architecture, database, graphics and visualization, networks, parallel and distributed computing, programming languages, simulation, and software engineering. A bioinformatics option is available. Graduate laboratory, research, and teaching assistantships are available to graduate students.

The computer science department accepts applications for the M.S. program each semester and for the Ph.D. program only fall semester with the general deadlines applying. However, in order to be considered for graduate assistantships, applicants must have all application materials in by February 15 for fall semester and by August 15 for spring semester. No financial aid is offered to new applicants for summer semesters.

Hard copies of the forms for letters of recommendations, statement of background and goals, and financial aid may be obtained from the department, or downloaded from the department’s website at [http://www.cs.gsu.edu](http://www.cs.gsu.edu).

Applicants may obtain additional information about the Department of Computer Science by contacting the Director of Graduate Studies at the addresses above.

**Admission Requirements**

**Master of Science**

In addition to the general requirements of the College of Arts and Sciences, the Department of Computer Science has the following requirements:

1. A baccalaureate degree in computer science, or its equivalent. While we welcome capable students with non-
M.S. Degree Requirements

1. Foundation coursework: If any of the following foundation courses in Computer Science or Mathematics have not been taken in another program, these must be completed at the earliest. 4000-level foundation courses must be taken as their 6000-level counterparts by graduate students.
   a. Foundation coursework in computer science with a grade of B or higher in each.
      CSc 3410 Data Structures (3)
      CSc 4210/6210 Computer Architecture (4)
      CSc 4320/6320 Operating Systems (4)
      CSc 4330/6330 Programming Language Concepts (4)
      CSc 4350/6350 Software Engineering (4)
      CSc 4510/6510 Automata (4)
      CSc 4520/6520 Design and Analysis of Algorithms (4)
   b. Foundation coursework in mathematics that includes a standard elementary calculus sequence, and courses equivalent to the following.
      MATH 2211 Linear Algebra (4)
      MATH 2212 Numerical Analysis I (4)
      MATH 2420 Discrete Mathematics (4)

2. CSc 8900 Seminar in Computer Science (1). A research training course which must be taken in the first semester.

3. Twenty-four hours of graduate-level courses in the Department of Computer Science selected in consultation with an academic adviser, and approved by the Director of Graduate Studies, with a grade of B or higher in each course.
   a. Sixteen hours of computer science courses at the 8000-level, exclusive of Research, Thesis Research, and Independent Study courses.
   b. An additional eight hours of graduate-level coursework, exclusive of Research, Thesis Research and Independent Study courses.

4. Thesis/Project (6-8)
   a. Thesis Option: Six hours of Thesis Research (CSc 8999) A thesis committee must be set up no later than two semesters after completing any foundation courses. This work should culminate in the writing of a thesis. The thesis must be defended successfully in an oral examination. This examination will pertain to, but is not limited to, the subject matter of the thesis.
   b. Project Option: Four hours of CSc 8930 in which the student completes a project and an additional four hours...
of graduate-level coursework in computer science at the 6000 level or above exclusive of Foundation Research, Thesis Research, and Independent Study courses. The project must be supervised by a computer science graduate faculty adviser. The student must write a report on the project and pass an oral final examination given by an ad hoc faculty committee headed by the project adviser. This examination will pertain to, but is not limited to, the subject matter of the project.

Master of Science in Computer Science
Interdisciplinary Emphasis in Bioinformatics Degree Requirements

1. Foundation Coursework (any that are not done): Math 2211, 2212, 2420, CSc 3410, 4210, 4320, 4350, 4510, 4520, 4630 with B or better in each.
2. Graduate Coursework (26 hours): Computer Science (12 hours): CSc 8630 and two other 8000-level classroom taught courses. Biology (8 hours): Biol 7800, Molecular Cell Biology; Biol 7810, Molecular Cell Biology Laboratory; and Biol 7900, Genetics; or Biol 6564, Advanced Genetics. Chemistry (3 hours): Chem 6150, Introduction to Biophysical Chemistry. Alternatives to Chem 6150 include Chem 6110 or 6120, or 6600 or 8900. Mathematics/Statistics (3 hours): Math 6544, Biostatistics.
3. Thesis/Project (6-8 hours): 6 hours of CSc 8999 (thesis) or 4 hours of CSc 8930 (project) and an additional classroom taught 6000-level or higher computer science course.

Ph.D. Degree Requirements

Note: Must maintain 3.5 GPA in coursework at Georgia State University.

I. Foundation Coursework. If any of the following foundation courses in computer science or mathematics has not been taken in another program, these must be completed at the earliest. 4000-level foundation courses must be taken as their 6000-level counterparts by graduate students.
   a. Foundation coursework in computer science with a grade of B or higher in each.
      CSc 3410 Data Structures (3)
      CSc 4210/6210 Computer Architecture (4)
      CSc 4320/6320 Operating Systems (4)
      CSc 4330/6330 Programming Language Concepts (4)
      CSc 4350/6350 Software Engineering (4)
      CSc 4510/6510 Automata (4)
      CSc 450/6510 Design and Analysis of Algorithms (4)
   b. Foundation coursework mathematics that includes a standard elementary calculus sequence (Math 2211 and Math 2212) and Discrete Mathematics (Math 2420) with a grade of B or higher in each.

II. Ph.D. Coursework (48 hours)
   Of these 48 hours, no more than 12 hours can be taken at the 6000 level. These 12 hours exclude any of the foundation courses previously listed.
   • CSc 9900 Seminar in Computer Science (1). A research training course which must be taken in the first semester.
   • Required Coursework (24 hours)
   Choose six of the following seven topics (take one classroom-taught CSc course from each topic):
      1. Algorithms (8520, 8530, 8540, 8550)
      2. Computer Architecture (6230, 6250, 8210, 8215)
      3. Operating Systems (6220, 8220, 8221, 8320, 8370)
      4. Parallel and Distributed Computing (6310, 8320, 8530)
5. Programming Languages (6340, 8330, 8710)
6. Software Engineering (6360, 8350)
7. Theory of Computation (8510)

- Electives (23 hours)
  1. To be chosen in concert with dissertation committee and approved by dissertation committee and should reflect student interest, coursework related to research area, etc.
  2. A maximum of 11 hours can be directed study or research.
  3. A minimum of three hours and a maximum of nine hours from outside the department.

III. Qualifying Examination
- Student will choose 2 of 3 areas: Automata, Architecture, and Algorithms and will request a third exam from an area of interest (e.g. Databases, Software Engineering, Operating Systems, AI, etc.)
- The exams will be conducted 3 times a year (January, May, and September). Students who are admitted with an MS in Computer Science from GSU will be required to take the first attempt in January. Other students will take their first attempt by in May. The second attempt will be the next offering of the exam.
- The student must PASS all three exams by their second attempt.

IV. Dissertation Committee
- Major adviser plus at least three other members.
- One member must be from outside the department. Major adviser and at least two other members must be computer science graduate faculty.
- To be formed as soon as potential research area and a major adviser has been identified.
- This committee should be consulted to plan electives and possibly required courses to ensure depth in the research area. (If this committee has not been set up, the initial faculty adviser assigned to the student must be consulted.)
- Additional technical writing, mathematics, or computer skill courses may also be suggested by this committee based on the student’s background.

V. Candidacy Examination (within two years of qualifying examination)
The candidacy examination consists of two parts, both administered at around the same time:
- Research Proficiency
  - To be administered by the dissertation committee to assess the student’s ability to conduct independent research in and around the student’s research area.
  - Format and content to be determined by dissertation committee; typically would be a combination of written and oral components in some courses related to the research area and may involve literature surveys and critical reviews.
- Research Proposal
  - Written proposal on research to be carried out, and an oral presentation to the dissertation committee.
  - Upon successful completion of the candidacy examination, a student is declared a candidate for the doctoral degree. An unsuccessful result in the candidacy examination would require the student to take the candidacy examination a second and last time within three semesters (excluding summer).

VI. Dissertation (24 hours of CSc 9999).
VII. Written dissertation and oral defense.

Ph.D. Degree Requirements Bioinformatics Concentration
I. Foundation Coursework. If any of the following foundation courses in computer science or mathematics has not been taken in another program, these must be completed at the earliest. 4000-level foundation courses must be taken as their 6000-level counterparts by graduate students.
a. Foundation coursework in computer science with a grade of B or higher in each.
CSc 3410  Data Structures (3)
CSc 4210/6210  Computer Architecture (4)
CSc 4320/6320  Operating Systems (4)
CSc 4330/6330  Programming Language Concepts (4)
CSc 4350/6350  Software Engineering (4)
CSc 4510/6510  Automata (4)
CSc 4520/6520  Design and Analysis of Algorithms (4)
b. Foundation coursework mathematics that includes a standard elementary calculus sequence (Math 2211 and Math 2212) and Discrete Mathematics (Math 2420) with a grade of B or higher in each.

II. Ph.D. Coursework (48 hours)
Of these 48 hours, no more than 8 hours can be taken at the 6000 level. These 8 hours exclude any of the foundation courses previously listed. No more than 5 hours can be directed study or research.
• CSc 9900 Seminar in Computer Science (1). A research training course which must be taken in the first semester.
• Required Coursework (24 hours)
Choose six of the following seven topics (take one classroom-taught CSc course from each topic):
1. Algorithms (8520, 8530, 8540, 8550)
2. Computer Architecture (6230, 6250, 8210, 8215)
3. Operating Systems (6220, 8220, 8221, 8320, 8370)
4. Parallel and Distributed Computing (6310, 8320, 8530)
5. Programming Languages (6340, 8330, 8710)
6. Software Engineering (6360, 8350)
7. Theory of Computation (8510)
• Electives (23 hours)
Must include CSc 8630 (4 hours); Biology (8 hours): Biol 7800 Molecular Cell Biology, Biol 7810 Molecular Cell Biology Laboratory, and Biol 7900 Genetics or Biol 6564 Advanced Genetics; Chemistry (3 hours): Chem 6150 Introduction to Biophysical Chemistry. Alternatives to Chem 6150 include Chem 6110, Chem 6120, Chem 6660, or Chem 8900; Math/Stat (3 hours): Math 6544 Biostatistics.

III. Qualifying Examination: same as in regular Ph.D. requirements.
IV. Dissertation Committee: same as in regular Ph.D. requirements except one member must be a biologist or chemist.
V. Candidacy Examination: same as in regular Ph.D. requirements.
VI. Dissertation (24 hours of CSc 9999): Research should involve a current topic in bioinformatics.
VII. Written Dissertation and Oral Defense.
The Department of English offers programs leading to the Master of Arts (M.A.) in English, with several specializations (literature in English, creative writing, and rhetoric and composition); the Master of Fine Arts (M.F.A.) in Creative Writing (poetry or fiction); and the Doctor of Philosophy (Ph.D.), also with several specializations (literature in English, creative writing, and rhetoric and composition), an interdisciplinary degree, and a degree in writing for mass audiences. The graduate faculty consists of 28 members whose specialties cover the range of literature in English, the history and applications of rhetoric, creative writing, poetry and fiction, philosophy, and advanced writing. In most specializations two or less faculty at different stages of their careers instead of differentiated student resources. The Master of Arts programs are designed to prepare students for teaching, writing, editing, or business and also for preparation for further graduate education in English in the United States and abroad. Students from these programs have placed well in teaching positions and in competitions for fellowships in other excellence Ph.D. programs. Our Ph.D. students have gone to the academic and professional worlds of business as a city with many opportunities in the arts and in media. Atlanta is an excellent resource for a broad cultural environment not far setting for the variety of interests of contemporary students who graduate study.

Additional Admission Requirements

The Department of English considers several factors when making decisions about admission to graduate programs. All incoming graduate students should submit strong portfolios of poetry or fiction and demonstrate serious in character, education, and genre forms and a high level of the writing. Students applying to all programs must be evaluated jointly. The English major's score on the Graduate Record Examination (GRE) is used as a subject test score, a recommendation, and writing samples. Students without a sufficient background in language study and in English and American literature should expect to take undergraduate courses in order to qualify themselves for admission to our programs.

In addition to the general admission requirements for the College of Arts and Sciences, the Department of English has the following requirements:

1. Applicants to the M.A. program must submit:
   a. Acceptable scores (no more than four years old) on the General Test of the GRE.
   b. Two recommendation forms from individuals who can evaluate the applicant's potential to do graduate work in English.
   c. A bachelor's degree in English or its equivalent.
   d. A "B" average (3.0 GPA on a scale of 4.0) in the undergraduate major.

2. Applicants to the M.F.A. program must submit:
   a. Acceptable scores (no more than four years old) on the General Test of the GRE.
   b. Two recommendation forms from individuals who can evaluate the applicant's potential to do graduate work in English.
   c. A bachelor's degree with at least a "B" average (3.0 on a scale of 4.0) in the undergraduate major.
   d. Appropriate portfolio sent directly to the Department of English.

3. Applicants to the Ph.D. program must submit:
   a. Acceptable scores (no more than four years old) on the General Test of the GRE.
   b. Acceptable scores (no more than four years old) on the Subject Test of the GRE.
   c. Two recommendation forms from individuals who can evaluate the applicant's potential to do graduate work in English.
   d. A master's degree in English or its equivalent. Exceptionally well qualified students may apply to the Ph.D. program with a B.A. degree in English.
   e. A statement of educational goals and career objectives.

Transfer Credit

No more than six semester hours or two courses of graduate work completed at another accredited college or university and approved by Georgia State University may be applied to a graduate degree in English. All transferred
coursework must correspond to courses offered in the Georgia State Department of English. Such transferred coursework must have a grade of B (3.0 grade-point average) or higher.

Financial Aid

Students interested in scholarships and student loans should consult the Office of Student Financial Aid. The Department of English has a limited number of graduate assistantships for M.A., M.F.A., and Ph.D. students. Students interested in such assistantships should request an application from the Department of English. Also, there is a limited number of Graduate Teaching Assistantships, providing tuition waivers and stipends for up to six years, awarded by the Department of English to beginning doctoral students with superior qualifications. The Paul Bowles Graduate Fellowship is awarded annually to an entering fiction writing student who has been admitted to the M.F.A. or Ph.D. program. Further information about these assistant- ships and application forms are available from the Department of English.

Grades

Throughout their coursework students must maintain a B average or higher. Only those courses in which students earn an A or a B will be credited toward a degree.

Academic Warning and Dismissal

A graduate student whose cumulative grade-point average (GPA) falls below 3.0 at the end of any semester will receive a warning from the Graduate Office of the College of Arts and Sciences. At the end of the next 18 hours of enrollment, the student must achieve a 3.0 cumulative GPA, or the College of Arts and Sciences will dismiss the student.

Non-Degree and Transient Student Admission

Students may be admitted on a non-degree status only if classroom space is available. Preference will be given to degree students. Students must complete an application, submit two transcripts of all previous college or university work, and provide a list of courses they wish to take. Only six credit hours earned while on non-degree status may later be applied to degree pro- grams. Transient students must reapply each semester.

Further Information

Application forms and information about the Graduate Record Examination (GRE) and other materials are available at [http://english.gsu.edu/graduate/applicationinfo.html](http://english.gsu.edu/graduate/applicationinfo.html) or from the Director of Graduate Studies. If you have any questions about graduate studies in English, please call 404/654-6166 to make an appointment to see the Director of Graduate Studies or write to the Director of Graduate Studies, Department of English, Georgia State University, University Plaza, Atlanta, GA 30302-3970.

Master of Arts

The Department of English offers four master’s degree programs:

1. Master of Arts, Concentration in Literary Studies;
2. Master of Arts, Concentration in Rhetoric, Composition, and Technical and Professional Writing;
3. Master of Arts, Concentration in Creative Writing; and
4. Master of Fine Arts in Creative Writing (M.F.A.).

Admission
Applicants should be aware that admission is competitive and that meeting the minimum admission requirements does not guarantee admission to the M.A. program. Before entering the program a student must have completed a bachelor’s degree with a major in English or its equivalent from an accredited college or university with at least a B average (3.0) in the undergraduate major. The Department of English admits students to its graduate programs only in the fall semester of the academic year. The Director of Graduate Studies in English will consider only complete admission files. Applicants are responsible for seeing that their admission files are complete by the deadlines for admission published in the current edition of this catalog. All application materials, unless otherwise noted, should be sent to the Graduate Office:

Georgia State University
College of Arts & Sciences
Office of Graduate Studies
75 Ponce de Leon Avenue, Suite 810
P.O. Box 3970
Atlanta, Georgia 30302

The applicant should supply the following materials:

1. A statement of purpose that includes a brief explanation of what the student hopes to accomplish, a clear indication of which degree program the applicant is seeking admission to, and (if the applicant has not yet completed a bachelor’s degree) an indication of the term in which the applicant expects to receive the degree;
2. Competitive scores (no more than five years old) on the general GRE test;
3. Two official transcripts of all previous college or university work;
4. Three letters of recommendation sent directly from persons who testify to the applicant’s ability to do graduate work (copies of the required forms are available in the Graduate Office, College of Arts and Sciences, in the Department of English or on the application website);
5. A critical writing sample of approximately eight to twelve pages. The critical sample is not required for the creative M.A. or M.F.A.
6. Applications for the M.A., Concentration in Creative Writing, and the M.F.A. program must also contain the following: a portfolio consisting of a minimum of 10 poems; or 3 short stories totaling no fewer than 30 and no more than 50 pages; or 50 pages of a novel in progress.

The portfolio should not be sent with the rest of the application to the Graduate Office of Arts and Sciences. Instead, it should be sent to the Director of Graduate Studies, Department of English, Georgia State University, University Plaza, Atlanta, GA 30302-3970. A cover letter accompanying the portfolio must include the applicant’s desired degree program, intended semester of enrollment, and security number, and a C.V. should be attached. The M.F.A. is a more rigorous and substantial degree than the M.A. with an emphasis in creative writing. Only students whose portfolios show exceptional promise will be admitted to the M.F.A. program. The Master of Arts in English, Concentration in Creative Writing is appropriate for those prospective students who wish to complete a non-terminal degree, and can also serve as an initial graduate degree for those who plan to continue their work at the doctoral level.

Registration and Advisement

Approximately one week before registration begins, the Office of the Registrar will post registration time-ticket assignments on the web and students can find out the date and time of their registration by entering the GoSOLAR site. The Director of Graduate Studies in the Department of English will act as adviser to all entering M.A. students. Students are responsible for making appointments with the Director of Graduate Studies for advisement and
Plan I: Written Composition

1. After admission, students must complete at least 30 semester hours of coursework (ten courses) beyond the M.A., plus 20 hours of English 8999. Dissertation Research. Students coming directly from the Ph.D. program from the undergraduate degree must complete at least 54 semester hours of coursework (eighteen courses) and the 20 hours of dissertation research. In either case, candidates for the Ph.D. must have credit for all course requirements before they are listed below, or their equivalents, either from their M.A. or Ph.D. program. The relevance of equivalent courses from the M.A. or other programs will be determined by the Director of Graduate Studies and the graduate faculty in English. 

Foreign Language

Candidates for the M.A. degree must demonstrate reading proficiency in one foreign language or proficiency in an approved research skill in order to complete the degree program. Students who choose French, German, or Spanish may meet this requirement by achieving a Level 2 pass in the chosen language of the CLEP Examination (College Level Examination Program, administered monthly by the University’s Testing Service). Students who choose these and other foreign languages may also meet this requirement by passing the foreign language reading proficiency examination offered by the Department of Modern and Classical Languages, or by receiving a grade of B or higher in an appropriate foreign language course at the level of 2002 or higher taken during the M.A. program. Foreign language courses taken during the undergraduate or post-baccalaureate enrollment may not be used for the second option, though they should enable the student to pass one of the proficiency examinations. Foreign language reading courses that use only English translations of foreign language texts are not applicable at any time. Alternative research skills are approved by the Director of Graduate Studies in English. 

Time Limit

All requirements for a master’s degree must be completed within seven years.

Master of Arts, Concentration in Literary Studies

This program requires completion of 27 credit hours (9 courses), plus 6 hours of thesis credit, and a critical thesis (40-60 pages, excluding notes and reference material) approved by a thesis committee consisting of a director and two other faculty members.

Coursework

In the interests of facilitating broad historical and disciplinary coverage across the areas of language, literature, and culture, the following courses are required:

1. Engl 8000      Bibliography and Research Methods;
2. Six hours composed of courses in language study (8090 History of the English Language; 8210 Old English; 8250 Middle English; 8230 American English); literary theory (8060 Literary Criticism; 8065 Foundations of Modern Critical Theory; 8070 Contemporary Literary Theory); or folklore (6020, 6100, 6110, or 8200), in any combination (note: M.A. students considering pursuing the Ph.D. in English at Georgia State University should consult area 3 in the doctoral program course requirements before deciding how to fulfill this requirement);
3. Six hours literature before circa 1800;
4. Six hours literature after circa 1800;
5. A minimum of three hours in British literature and a minimum of three hours in American literature (of the twelve stipulated in 3 and 4 above);
6. Six hours of electives (may be taken in a related field or fields of study if desired);
7. Six hours of 8999 (Thesis Research).

Thesis

It is the student’s responsibility to select a topic and to find a faculty member who will direct the thesis and two others who will serve on the thesis committee. Only members of the graduate faculty may direct theses.
Before beginning to write the thesis, M.A. students must submit a written prospectus for approval by their thesis committee. The prospectus should include the following:

1. A description of the subject, including a statement of the way the proposed approach to the subject differs from, contributes to, or modifies the existing scholarship on the subject;

2. A description of the proposed method of treatment and an account of the research necessary to complete it; and

3. A preliminary bibliography, including a discussion of the availability of materials.

The thesis must conform in all matters of documentation to the most recent edition of *The MLA Style Manual*. The Graduate Office of the College of Arts and Sciences has specific standard requirements for format. The student is responsible for conforming to those standards. The thesis must be between 40 and 60 pages in length, excluding notes and reference material. By the time the thesis is completed, a student must have registered for at least six hours of English 8999 (Thesis Research).

### Master of Arts, Concentration in Rhetoric, Composition, and Technical and Professional Writing

**Coursework**

Candidates for the M.A. with an emphasis in rhetoric, composition, and technical and professional writing must satisfactorily complete 27 hours of graduate coursework, including 21 hours of rhetoric and composition courses, plus 6 hours of thesis research. Engl 8125 (Writing and Research Methodology) is required. Students should take this course as early as possible in their programs.

**Thesis**

Thesis research may involve digital and workplace projects as well as textual studies, and the thesis can be a substantial (40–60 page) academic paper or a multimedia/digital project with approval of the advisor. The proposal for thesis research must be submitted and approved by the student’s committee the semester prior to writing the thesis. See [www.rhetcomp.gsu.edu](http://www.rhetcomp.gsu.edu) for thesis guidelines and other information.

### Master of Arts, Concentration in Creative Writing

For a comparison between this program and the M.F.A. program, see the section on the M.F.A.

**Coursework**

Candidates for the M.A., Concentration in Creative Writing must satisfactorily complete 27 hours of graduate coursework, including 12 hours of creative writing, and 6 hours of thesis credit. A student must complete either Engl 8160 (Form and Theory of Literary Craft), Engl 8201 (Contemporary Poetry), or Engl 8202 (Contemporary Fiction Craft). Rather than narrowly specializing in a particular area, a student should select courses that complement the student’s undergraduate program in order to achieve a lively understanding of a broad range of English and American literature.

**Thesis**

The creative writing thesis must contain at least 35 pages of poetry or 60 to 100 pages of fiction. It must include an introduction or an afterword in which the student discusses his or her approaches, styles, methods, and influences. By the time the thesis is completed, a student must have registered for at least six hours of English 8999 (Thesis Research).
Master of Fine Arts in Creative Writing

The requirements for completion of the M.F.A. in Creative Writing are more demanding than for the M.A. in English, Concentration in Creative Writing. The Master of Fine Arts in Creative Writing is a terminal degree that prepares students to write and to teach. It is also the degree that provides students an excellent foundation if they choose to continue their graduate work at the doctoral level. Upon attaining the M.F.A. degree, students will have acquired a productive specific knowledge of their chosen genre/area of specialization (either poetry or fiction).

Coursework

The M.F.A. student must complete satisfactorily at least 48 hours of graduate coursework. Any student who receives more than one C during his or her program will be dropped from the M.F.A. program. The coursework must include the following:

1. 15 to 21 hours of English 8020 (Poetry Writing) or 8030 (Fiction Writing);
2. 15 to 21 hours of English and American literature and/or folklore;
3. 3 hours of English 8160 (Form and Theory of Literary Craft) in the student’s chosen genre;
4. 3 hours of English 8201 (Contemporary Poetry) or English 8202 (Contemporary Fiction Craft); and
5. 6 hours of 8999 (Thesis Research)

Students who enter the M.F.A. program with an M.A. in English or creative writing must satisfy a different set of course requirements totaling 36 hours:

1. 15 to 18 hours of English 8020 (Poetry Writing) or 8030 (Fiction Writing);
2. 6 to 9 hours of English and American literature and/or folklore;
3. 3 hours of English 8160 (Form and Theory of Literary Craft) in the student’s chosen genre;
4. 3 hours of English 8201 (Contemporary Poetry) or English 8202 (Contemporary Fiction Craft); and
5. 6 hours of English 8999 (Thesis Research).

M.F.A. Examination

Before students can take the M.F.A. examination, they must have completed all coursework and the foreign language requirement. The M.F.A. examination is a two-part written test based on a reading list available to students when they enter the program. The examination will be administered in two four-hour sessions on separate days. A student may take this exam in either spring or fall semester. Students must give the Director of Graduate Studies written notification of their intention to take the examination by the departmental deadline. Each examination will be graded by at least three faculty members who will not be informed of the identity of the examinee.

Thesis

The M.F.A. thesis must be a minimum of 50 pages long for a manuscript of poems or a minimum of 150 pages for a manuscript of prose fiction. After students have completed initial work on the manuscript, they will meet with their committee to edit the thesis. By the time the thesis is completed, a student must have registered for at least six hours of English 8999 (Thesis Research).

Doctor of Philosophy

The Ph.D. degree programs prepare students to write, to teach on the college and university levels, and to conduct scholarly research. At the end of their Ph.D. coursework, students will have acquired a productive general knowledge of the various fields of literary study in English and will have developed a concentrated preparation in their areas of
specialization.

Admission

Applicants should be aware that admission is competitive and that meeting the minimum admission requirements does not guarantee admission to the Ph.D. program. Before entering the Ph.D. program, students are generally expected to have completed a master’s degree in English or a closely related discipline from an accredited college or university. The Department of English admits students to its doctoral programs only in the fall semester of the academic year. The Director of Graduate Studies in English will consider only complete admission files. Applicants are responsible for seeing that their admission files are complete by the deadlines for admission published in this catalog. All application materials, unless otherwise noted, should be sent to:

Georgia State University College of Arts & Sciences Office of Graduate Studies
75 Poplar Street, Suite 800
P.O. Box 3993
Atlanta, Georgia 30302

All applicants must submit the following materials:
1. Two official transcripts of all previous college or university work;
2. Three letters of recommendation sent directly from persons who testify to the applicant’s ability to do graduate work. Applicants from the M.A. program in English at Georgia State must submit new letters of recommendation, preferably from English department faculty (copies of the required forms are available in the Graduate Office, College of Arts and Sciences, or in the Department of English);
3. Competitive scores (no more than five years old) on General portion of the GRE;
4. An essay composed by the applicant stating goals and career objectives; and
A student who wishes to specialize in creative writing must also submit the following:
6. A portfolio consisting of a minimum of 10 poems; or 3 short stories totaling no fewer than 30 and no more than 50 pages; or 50 pages of a novel in progress.

The portfolio should not be sent with the rest of the application to the Graduate Office of Arts and Sciences. Instead, it should be sent to the Director of Graduate Studies, Department of English, Georgia State University, University Plaza, Atlanta, GA 30303-3083. With the portfolio, the student must submit a cover letter stating the applicant’s desired degree program, intended semester of enrollment, and social security number.

Advisement

The Director of Graduate Studies will serve as the student’s initial faculty adviser, whom the student should consult regularly. However, very early in the program, the student should begin to design a course of study leading towards the areas of primary and secondary specialization upon which the student will be tested in the doctoral examinations (the examinations and the coursework required for taking them are described below). Optimally in the first semester of the doctoral program, but certainly before the end of the second semester, the student should form a three-member faculty advisory committee composed of two faculty members representing the primary area of specialization and one representing the secondary area of specialization. Working with this committee, the student will define and develop the areas of specialization and determine the courses that can be used to satisfy the specialization requirements.
Doctoral Degree Plans

Students may choose to follow one of three plans. Plan 1 focuses on literary studies. Plan 2 emphasizes rhetoric and advanced writing courses. Plan 3 emphasizes creative writing.

Basic Coursework and Residency Requirements

Depending on the plan chosen by a student, the total credit hours required vary from 50 to 59 beyond the M.A. (30-39 hours of coursework plus 20 hours of dissertation research). To fulfill the residency requirement for the Ph.D. degree, students must enroll for a minimum of 6 hours per term for 4 semesters. Two of these semesters must be consecutive. Each plan has further particular coursework requirements which are specified below.

Foreign Language

A reading proficiency in one foreign language appropriate to the area of specialization is required. Although an alternative research skill (such as digital rhetoric) may be used to satisfy the language requirement at the M.A. level, at the doctoral level the language requirement must be fulfilled by demonstrating reading proficiency in a foreign language: e.g., French, Spanish, German, Italian, or another foreign language appropriate to the area of specialization (appropriateness is to be determined by the Director of Graduate Studies). If the student fulfilled the M.A. language requirement with a foreign language as described above, that language fulfills the Ph.D. foreign language requirement. If the student fulfilled the M.A. language requirement with a course in digital rhetoric or another alternative research skill, that course does not fulfill the Ph.D. foreign language requirement: proficiency in a foreign language as described above must be demonstrated.

Students who choose French, German, or Spanish may meet this requirement by achieving a Level 2 pass in the chosen language of the CLEP Examination (College Level Examination Program, administered monthly by the University’s Testing Service). Students who choose these and other foreign languages may also meet this requirement by passing the foreign language reading proficiency examination offered by the Department of Modern and Classical Languages, or by receiving a grade of B or higher in an appropriate foreign language course at the level of 2002 or higher taken during the M.A. or Ph.D. programs. Foreign language courses taken during the undergraduate of post baccalaureate enrollment may not be used for the second option, though they should enable the student to pass one of the proficiency examinations. Foreign language reading courses that use only English translations of foreign language texts are not applicable at any time.

Doctoral Examinations

Students must pass two on-site examinations, one in an area of primary specialization and another in an area of secondary specialization.

The primary specialization examination will be the area in which the student plans to write the dissertation and will last four hours. As described in the list of required courses below, in order to take an examination in an area of primary specialization, the student must have completed 12 hours of courses in or strongly related to that area. The exam itself will be based on a reading list composed of no fewer than forty texts, devised by the student in consultation with the faculty adviser who will be the primary reader of the exam. The examination reading list must be composed, and approved by the faculty adviser, at least one semester prior to the semester in which the student will take the exam. The examination itself must be approved by the Director and Associate Director of Graduate Studies.

The secondary specialization examination may be in an area that compliments, augments, or contrasts with the primary area and will last three hours. As described in list of required courses below, in order to take an examination in an area of secondary specialization, the student must have completed 9 hours of courses in or strongly related to that area. The exam itself will be based on a reading list composed of no fewer than thirty texts, devised by the student in consultation with the faculty adviser who will be the primary reader of the exam. The examination reading list must be
composed, and approved by the faculty adviser, at least one semester before the semester in which the student will take
the exam. The examination itself must be approved by the Director and Associate Director of Graduate Studies.
The two examinations may be (but need not be) taken in the same semester. Examinations are not offered in the
summer. Students must give the Director of Graduate Studies in English written notification of their intention to
take either a primary or secondary examination by the departmental deadline. Suggested areas for examination,
which in practice may be subdivided, include but are not limited to the following:
- English Language
- Medieval Literature
- Renaissance Literature
- Restoration and Eighteenth-Century Literature
- Nineteenth-Century Literature
- Modern British Literature
- Twentieth Century World English Literature (British Isles, Commonwealth, Post-Colonial)
- American Literature to 1830
- American Literature from 1830 to 1914
- American Literature from 1914 to the present
- Rhetoric, Composition, and Technical and Professional Writing
- Literary Theory
- Fiction (restricted to creative writing students)
- Poetry (restricted to creative writing students)

Students pursuing the Ph.D. with an emphasis in creative writing must take their examinations in Fiction and
Poetry. The English Language examination will cover three of the following fields: Old English, Middle English, History
of the English Language, and American English. A student who chooses to write an English Language examination
(either major or minor) must indicate in the letter of intent the three fields on which he or she wishes to be tested.
Examinations in Rhetoric, Composition, and Professional and Technical Writing may draw on several different sub-
areas for both primary and secondary specialization, and this is generally possible for other area examinations.

Each doctoral examination will be graded by at least three faculty members. A student must pass each examination
on either the first or second try in order to remain in the Ph.D. program. Examples of past examination questions and of
successful answers are available to students preparing for the examination.

**Doctoral Candidacy**

After passing the Ph.D. qualifying examinations, students must register for candidacy by completing a form
available from the Director of Graduate Studies in English.

**Dissertation**

Doctoral students must submit a dissertation acceptable to the Department of English and to the Graduate Office of
the College of Arts and Sciences. Stages in the preparation of the dissertation include the following: choosing a
dissertation director and dissertation committee, submitting a dissertation prospectus, defending the dissertation
prospectus, writing the dissertation, defending the dissertation.

Soon after completing written doctoral examinations, a doctoral student must submit to his or her dissertation
committee a written dissertation prospectus that should include the following:
1. A description of the subject, including a statement of the way the proposed approach to the subject differs
   from, contributes to, or modifies the existing scholarship on the subject;
2. A description of the proposed method of treatment and an account of the research necessary to complete it; and
3. A preliminary bibliography, including a discussion of the availability of materials.

After consulting informally with the dissertation director and the other members of the student’s dissertation committee, the student must defend the prospectus orally in a meeting with the committee and the Director of Graduate Studies. If the committee judges the student’s prospectus to be acceptable, the student will be given permission to proceed with the project.

While writing the dissertation, the student must register for at least 20 hours of English 8999 (Thesis Research). Each student must pass an oral defense of the dissertation administered by the members of the student’s dissertation committee and the departmental Director of Graduate Studies.

**Time Limit**

Work on the doctorate must be completed within ten years of admission to the program.

**Particular Requirements of Individual Ph.D. Plans:**

**Plan 1: Literary Studies**

In the interests of facilitating professional specialization within the broad fields of linguistic, literary, and cultural study, the following are required:

1. Thirty hours of course work beyond the M.A. level (including, if desired, a maximum of nine hours of coursework in related fields offered by other departments);
2. Fulfillment of the M.A. course requirements;
3. An additional 3–6 hours in language study OR theory (note: if the student satisfied the six hour requirement stipulated in section 2 of the M.A. course requirements by taking three hours in language study and three in theory, then this requirement can be satisfied with a course of the student’s choice, either language study or theory; if, however, the student satisfied section 2 with six hours in language study only, or theory only, then this requirement must be satisfied with 3 hours in the field not covered in the M.A.; finally, if the student satisfied section 2 with six hours in folklore or has not taken a language study or theory class at the M.A. level, a language study class AND a theory class—6 hours—are required);
4. Twelve hours of courses in or strongly related to the area of primary examination specialty (may include courses taken at the M.A. level and a maximum of one course in a strongly related field offered by another department);
5. Nine hours of courses in or strongly related to the area of secondary examination specialty (may include courses taken at the M.A. level and a maximum of one course in a strongly related field offered by another department);
6. Electives as needed to complete the 30-hour requirement;
7. Twenty hours 8999 (Thesis Research).

**Plan 2: Rhetoric, Composition, and Technical and Professional Writing**

Students in this plan must complete at least 30 hours of coursework beyond the M.A. level, plus 20 hours of dissertation research. The following coursework requirements must be completed during the Ph.D. program unless they have already been satisfied during a student’s M.A. program:

1. Six hours of language, theory, literature, or some contiguous field outside of English, upon approval from the student’s adviser and the Director of Graduate Studies;
2. English 8125 and 90012;
3. Twenty-one hours of rhetoric, composition, and technical and professional writing courses.
**Plan 3: Creative Writing**

Students who specialize in creative writing must take either poetry or fiction as their major examination and must choose the other genre as their minor area. They must complete 30-39 hours of graduate coursework beyond the M.A. level, with 12 of those hours in creative writing workshops in the student's major genre, plus 20 hours of dissertation research. The following coursework requirements must be completed during the Ph.D. program unless they have already been satisfied during a student’s M.A. or M.F.A. program:

1. Twelve hours of workshop in major genre;
2. Nine to twelve hours of courses in or strongly related to area of primary examination specialty, including 3 hours of Form and Theory in major genre and 3 hours of *Contemporary Poetry or Fiction Craft in major genre*;
3. Nine hours of courses in or strongly related to area of secondary examination specialty, including 3 hours of Form and Theory in secondary genre;
4. Three hours of *language study*, unless satisfied at M.A. level;
5. Three hours of *theory*, unless satisfied at the M.A. level.
The Department of Modern and Classical Languages offers the Master of Arts (M.A.) degree in French, German, and Spanish. The Master of Arts degree emphasizes advanced study in the language, culture, and literature of the student’s specialty, including courses of particular interest to foreign language teachers.

**Additional Admission Requirements**

In addition to the general requirements of the College of Arts & Sciences, the Department of Modern and Classical Languages has the following requirements:

1. An undergraduate major or its equivalent in the language to be studied.
2. A minimum of three literature courses, including the introductory course, or equivalent.
3. A complete dossier which must include: (a) a letter of intent expressing the objectives of the student in entering the program; (b) two letters of recommendation from people familiar with the candidate’s academic work; (c) a writing sample of an analytical nature in the target language. (At the discretion of the Graduate Committee, an entrance exam may be required.)

**Degree Requirements**

**Master of Arts (30-hour Program)**

1. Basic Requirements:
   a. Twenty-four hours of coursework, of which a minimum of eighteen must be taken in the student’s major field.
   b. A written general examination.
   c. An oral examination.
   d. Proficiency in a foreign language other than the student’s major.
2. Thesis Option:
   b. Six hours of thesis research.
   c. A thesis.
3. Non-Thesis Option:
   a. Six hours of additional graduate coursework.
   b. A research paper.

Applicants may obtain additional information about the Department of Modern and Classical Languages by contacting the Director of Graduate Studies.

Director of Graduate Studies
Department of Modern and Classical Languages
Georgia State University
University Plaza
Atlanta, Georgia 30303
http://www.gsu.edu/languages
email: gperx@gsu.edu

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### 3180 French

**Program Offered:**

Master of Arts in French
Specialist in Education in Teaching and Learning with Concentration in Foreign Language Education
(In cooperation with the College of Education)

Department of Modern and Classical Languages
Georgia State University
University Plaza
Atlanta, Georgia 30303

E-mail: bbraunrot@gsu.edu or mclgraduate@gsu.edu
http://www.gsu.edu/languages
Kathleen Hardesty Doig, Chair
Bruno Braunrot, Director of Graduate Studies

The Department of Modern and Classical Languages offers the Master of Arts (M.A.) degree in French, German, and Spanish. The Master of Arts degree emphasizes advanced study in the language, culture, and literature of the student’s specialty, including courses of particular interest to foreign language teachers. The Department of Modern and Classical Languages also supervises an Ed.S. program through the College of Education. For further information please contact the Director of Graduate Studies, Department of Middle-Secondary Education and Instructional Technology, Georgia State University.

Applicants may obtain additional information about the Department of Modern and Classical Languages by contacting the Director of Graduate Studies at the addresses above.

**Additional Admission Requirements**

In addition to the general requirements of the College of Arts & Sciences, the Department of Modern and Classical Languages has the following requirements:

1. An undergraduate major or its equivalent in the language to be studied.
2. A minimum of three literature courses, including the introductory course, or equivalent.
3. A complete dossier which must include: (a) a letter of intent expressing the objectives of the student in entering the program; (b) two letters of recommendation from people familiar with the candidate’s academic work (dossiers will not be considered without both letters); and (c) a writing sample of an analytical nature in the target language. (At the discretion of the Graduate Committee, an entrance exam may be required.)

**Degree Requirements**

**Master of Arts**

A. Literature Option (30 hours):

1. Basic Requirements:
   a. Twenty-four hours of coursework of which 18 hours must be taken in the student’s major field
   b. A written examination
c. An oral exit examination
d. Proficiency in a foreign language other than the student’s major

2a. Thesis Option:
a. A written thesis proposal
b. Six hours of thesis research
c. A thesis

2b. Non-Thesis Option:
a. Six hours of additional graduate coursework in the student’s major field
b. A research paper.

B. Language, Pedagogy, and Applied Linguistics Option (30 hours)

Basic Requirements:
1. Eighteen hours of coursework in Literature, Language, and Culture in the student’s major field
2. Twelve hours of coursework in Applied Linguistics and Pedagogy
3. A written examination
4. An oral examination
5. A portfolio

A student must have a grade-point average of 3.0 or higher in all courses counting towards the Master of Arts degree. Only courses passed with a grade of B or higher will count toward the degree.
Master of Arts in Geography

The department offers the Master of Arts (M.A.) degree in geography with thesis and non-thesis options. All students seeking the M.A. degree in geography must develop a specialization in either urban studies, geotechnology, or physical geography/environmental studies. Further information concerning specific course applicable to each of these specializations is available in the departmental publications, *Guidelines for Graduate Studies in Geography*, which may be obtained from the department.

Students with professional goals are encouraged to enroll in the departmental internship program. This program is coordinated by the geography faculty, who assist students in selecting an appropriate sponsor. Geography students have interned with a diverse group of sponsors, including local and regional planning agencies, federal and state departments, and numerous private corporations. Graduate credit earned in the internship course may be applied toward minimum credit requirements. Applications and internship qualifications may be obtained from the department.

Additional Admission Requirements

In addition to the general requirements of the College of Arts and Sciences, the Department of Anthropology and Geography has the following requirements:

1. Applicants to the M.A. degree program in anthropology must submit:
   a. Three letters of recommendation from individuals who can evaluate the applicant’s potential to do graduate work in anthropology.
   b. A supplemental application form provided by the department.
2. Applicants to the M.A. degree program in geography must submit:
   a. Two letters of recommendation.
   b. A statement of educational/career goals.

3190 Geosciences

Programs Offered:

- Master of Arts in Geography
- Master of Science in Geology
- Doctor of Philosophy in Chemistry with Concentration in Geology
- Professional Certificate in Geographic Information Science
- Advanced Certificate in Hydrogeology

Department of Geosciences
24 Peachtree Center Ave.
340 Kell Hall
P.O. Box 4105
Atlanta, Georgia 30303
404/651-2272
Fax: 404/651-1376
http://monarch.gsu.edu/geosciences/

Timothy E. La Tour, Chair
Jeremy Crampton, Director of Graduate Studies for Geography
W. Crawford Elliott, Director of Graduate Studies for Geology

The Department of Geosciences was formed January 1, 2006 from the Department of Geology and the Geography Program within the former Department of Anthropology and Geography. The graduate degree programs in the former departments of Geology and Anthropology-Geography are planned to be combined into the M.S. degree in Geosciences for 07-08 Academic Year. This new degree will have concentrations in Geography and in Geology. In the meantime, the M.S. degree in Geology, M.A. degree in Geography, the Certificate in Geographic Information Science and the Advanced Certificate in Hydrogeology continue as is for the 06-07 academic year.

Applicants may obtain additional information about the Department of Geosciences by contacting the Directors of Graduate Studies at the addresses above.

Master of Arts in Geography

The department offers the Master of Arts (M.A.) degree in geography with thesis and non-thesis options. Students seeking the M.A. degree in geography may develop a specialization in urban studies, geotechnology, or physical geography/environmental studies. Further information concerning specific courses applicable to each of these specializations is available in the departmental publication, *Guide to Graduate Studies in Geography*, which may be obtained from the department.

Students with professional goals are encouraged to enroll in the departmental internship program. This program is coordinated by the geography faculty who assist students in selecting an appropriate sponsor. Geography students have interned with a diverse group of sponsors, including local and regional planning agencies, federal and state governments, and numerous private corporations. Graduate credit earned in the internship course may be applied toward minimum credit requirements. Applications and internship qualifications can be obtained from the department.

Students in the geography program can pursue an M.S. degree with a concentration in earth science through a collaborative degree program with the geology department. The M.S. Degree in Geology with Earth Science
concentrations follows all admission requirements of the M.S. degree in Geology; the degree is conferred by the geology department. The program has three concentrations: hydrologic sciences, natural resource management and environmental studies, and Geographic Information Science. Thirty-six hours are required for completion of this degree. Thesis and non-thesis options are available. Further information is provided at http://monarch.gsu.edu/geosciences.

Master of Science in Geology

The Master of Science (M.S.) degree program in the Department of Geosciences offers a broad range of courses that prepare students for research and careers as professionals. Both thesis and non-thesis option programs are offered. The non-thesis option is normally selected within the first year of study. Research efforts are in the following broad areas: geochemistry (analytical, aqueous, igneous, metamorphic, and sedimentary), mineralogy, hydrogeology, petrology, sedimentology, and structural geology.

An M.S. degree in Geology with concentrations in Earth Science is also offered in addition to the traditional M.S. degree option described in the previous paragraph. The M.S. degree in Geology with Earth Science Concentrations follows all admission requirements of the current M.S. degree in Geology. The program has three concentrations: hydrologic sciences, natural resources management and environmental studies, and Geographic Information Science. Thirty-six hours are required for completion of the M.S. degree in Geology with Earth Science Concentrations. Thesis and non-thesis options are available. Further information is provided at http://monarch.gsu.edu/geosciences.

The Doctor of Philosophy degree in Chemistry with a concentration in Geology is offered in collaboration with the Department of Chemistry. This program culminates in a dissertation containing the results of distinctive and original research scholarship carried out by the candidate. The dissertation must be defended publicly and judged to be a significant contribution in the advancement of science.

Graduate assistantships are available for qualified thesis-option Master’s students and Ph.D. students. Masters students in the non-thesis option must participate in an internship or equivalent limited research project, directed study and submit a report to the graduate faculty on the findings of this project.

Applications for admission are accepted for all three semesters. International students and students requesting graduate assistantships must have submitted their complete application by April 15 to be considered for admission fall semester and by November 15 for spring semester.

Additional Admission Requirements Geography

In addition to the general requirements of the College of Arts and Sciences, the Department of Geosciences has the following admission requirements:

1. Applicants to the M.A. degree program in geography must submit three letters of recommendation from professional sources.
2. A statement of educational/career goals.

Additional Admission Requirements Geology

In addition to the general requirements of the College of Arts and Sciences, the Department of Geosciences has the following admission requirements:

1. Three letters of recommendation from individuals who can evaluate the applicant’s potential for graduate work in geology.
2. A statement of educational or career goals.
3. A bachelor’s degree in geology or other physical science or engineering.
4. Foundation coursework (0-46 hours)
These courses are assigned as part of the admission process. They can be exempted if equivalent work has been completed with grades of C or higher. Note: Field Geology requirement may be satisfied by presenting evidence of supervised field work in Geology performed at the upper-division undergraduate level.

a.  Geology (0-26 hours)
   - Geol 1121K                          Introductory Geosciences I (4)
   - Geol 1222K                          Introductory Geosciences II (4)
   - Geol 3002                           Introduction to Earth Materials (4)
   - Geol 4006                           Sedimentary Environments and Stratigraphy (4)
   - Geol 4013                           Structural Geology (4)
   - Geol 4120 and Geol 4121           Field Geology (6)

b.  Allied Disciplines (0-20 hours)
   - Calculus: Math 2211 (4) and Math 2212 (4)
   - Physics: Phys 1111K (4) or Phys 2211K (4)
   - Chemistry: Chem 1211K (4) and Chem 1212K (4)

Degree Requirements Geography
Master of Arts in Geography
Thesis option (36 hours)

Early in their coursework, students must select advisers to direct their programs of study and to appoint either their general examination and thesis or their research project committees; these appointments must be approved by the chair of the department.

1. Geog 8001, Methods of Geographic Research, to be taken the first time offered after the student's admission to the program.
2. Cartography training equivalent to Geog 6522, Thematic Cartography, or Geog 6528, Mapping Fundamentals for Geographic Information System. This course may count toward the departmental minimum credit hour requirements.
3. Geog 6520, Quantitative Spatial Analysis (This requirement may be waived if student has equivalent training).
4. Nine hours in the student's area of specialization.
5. At least twelve hours of coursework chosen from 7000-8999 level seminar courses.
6. Remaining courses chosen from graduate level courses.
7. Six hours of Geog 8999, Thesis Research.

Note: Students taking the non-thesis option must take six hours of graduate level coursework in lieu of Geog 8999, and a thesis research project. Students may attempt to fulfill the practicum requirement twice.

8. Proficiency in a foreign language or in an approved research skill.
9. A general written and oral examination must be passed on or near the completion of coursework requirements.
10. Thesis (Thesis option only).

Non-Thesis Option (36 hours)

Students taking the non-thesis option must take three additional semester hours of graduate level coursework in lieu of Geog 8999 and complete a non-thesis research project (Geog 8990 Practicum). Students may attempt to fulfill the practicum requirement twice, but only three semester hours of Geog 8990 can be counted toward their degree requirements.

Professional Certificate in Geographic Information Science
Geographic Information Science (GIS) is a rapidly growing discipline, with applications in numerous fields, including government planning, natural resources management, environmental studies, real estate analysis, marketing, transportation planning and management, crime analysis, epidemiology, and urban growth management. A strong demand exists for proficient users of geospatial technology. The graduate-level Professional Certificate Program in GIS is designed to facilitate those students working toward graduate degrees in a variety of disciplines, as well as those who
use GIS in the workplace and would like to obtain systematic training in the technology without having to complete a
graduate degree. The Certificate Program consists of five courses with a total of 16-18 credit hours, including elective
courses from a variety of departments/programs. Please contact the Department of Geosciences for more information.

GIS Certificate Requirements (16-18)
1. Admission to the program: B.A. or B.S. in a related field. A statement of intent, GRE scores, and
transcripts must be provided to the Graduate School as part of the application. Students lacking appropriate background may be required to take prerequisite courses.
2. Required Courses (12)
The student must take the following courses:
- Geog 6518 Digital Cartography (4)
- Geog 2206* Introductory Mapping and Geographic Information Science (4)
- Geog 6532 Introduction to Geographic Information Systems (4)
  * Geog 2206 is the prerequisite for GEOG 6518. This prerequisite may be waived if the student has taken a
  similar course before or can demonstrate equivalent experience.
Select one:
- Geog 6530 Introduction to Remote Sensing (4)
- Geog 6534 Advanced Geographic Information Systems (4)
3. Elective Courses (4)
The student must take one of the following courses:
- Geog 6533 Introduction to GIS Applications (4)
- Geog 6536 Internet GIS and Visualisation (4)
- Geog 6648 Biogeography (4)
- Geog 6762 Economic Geography (4)
- Geog 6764 Urban Geography (4)
- Geog 6766 Urban Transportation (4)
- Anth 6200 Urban Anthropology (4)
- Anth 6440 Epidemiology and Anthropology (4)
- Anth 6550 Field School in Anthropology (4)
- Anth 6590 Archaeological Methods (4)
With the approval of the department Director of Graduate Studies, one of the following courses from
other departments/programs at Georgia State University may be substituted for the elective course:
- Biol 6053K Field Ecology (4)
- Geog 6530 Introduction to Remote Sensing (4) (if not taken in section 2)
- Geog 6640 Geomorphology (4)
- Geog 6650 Applied Hydrology
- Geol 6007 Hydrogeology (4)
- Hist 8600 Introduction to Historic Preservation (3)
- MK 8200 Marketing Research (3)
- PAUS 8021 Urban Policy Planning (3)
- PoIS 8115 Urban Political Behavior (3)
- Psy 6520 Environmental Psychology (3)
- RE 8000 Applied Real Estate Market Analysis (3)
- Soci 8226 Urban Sociology (3)
4. Practical Training (1-3)
- Geog 6832 Geography Internship (3)
Department of Geology

David A. Vail, Chair
Thomas Zehnder, Director of Graduate Studies

Degree offered: Master of Science

The Master of Science (M.S.) degree program in the Department of Geology offers a broad range of courses that prepare students for research and careers as professionals. Both thesis option and non-thesis option programs are offered. Research efforts are concentrated in the following broad areas: geochemistry, hydrogeology, paleontology, sedimentology, and structural geology.

Graduate laboratory assistantships are available for qualified students, and graduate research assistantships or support from grants and contracts are available for qualified thesis-option students. Students in the non-thesis option must participate in an internship or equivalent non-research project. Applications for admission are accepted for all three semesters. However, in order to be considered for graduate assistantships beginning in the fall semester, applications should be completed by April 1 of the previous academic year.

Additional Admission Requirements
In addition to the general requirements of the College of Arts and Sciences, the Department of Geology has the following requirements:

1. Three letters of recommendation from individuals who can evaluate the applicant’s potential to do graduate work in geology.
2. A statement of educational or career goals.
3. Foundation Courses (0-46 hours):
   These courses are in addition to the 36 hours of required courses (below) and are assigned as part of the admission process. They can be completed if equivalent work has been completed with grades of “C” or higher.
   a. Geology (0-36 hours)
      - Geol 1111: Introductory Geosciences (4)
      - Geol 1200: Introductory Geosciences (1)
      - Geol 2007: Introduction to Earth Materials (4)
      - Geol 3003: Structural Geology and Tectonics (4)
      - Geol 5004: Sedimentary Geomorphology and Stratigraphy (4)
      - Geol 6019: Fluid Geology (4)
   b. Allied Disciplines (0-20 hours)
      - Calculus: Math 2211 (4) and Math 2212 (4)
      - Physics: Phys 1111 (4) or Phys 2111 (4)
      - Chemistry: Chem 1110 (4) or Chem 1210 (4)
4. Extra departmental courses (0-6 hours): An approved list of courses is available from the Geology Department.
5. Foreign language: Proficiency in a foreign language or in an approved research skill in computer programming. This requirement can be fulfilled by taking an approved course or by taking an examination.
6. Thesis Research (Geol 8999) (9 hours).

Degree Requirements Geology

Master of Science, thesis option (36 hours)

1. Geology courses (19-23 hours)
   - Geol 6002: Oceanography (3)
   - Geol 6003: Aqueous Geochemistry (4)
   - Geol 6005: Geology of Georgia (3)
   - Geol 6006: Sedimentary Environments and Stratigraphy (4)
   - Geol 6007: Hydrogeology (4)
   - Geol 6008: Rock Fracture and Fluid Flow (4)
   - Geol 6011: Principles of Paleontology (4)
   - Geol 6012: Advanced Quantitative Geology (3)
   - Geol 6013: Structural Geology (4)
   - Geol 6042: Analytical Methods (2)
   - Geol 6097: Topics in Geological Sciences (1-3)
   - Geol 6120: Introductory Geosciences (4)
   - Geol 6121: Advanced Field Geology (3)
   - Geol 6130: Analytical Methods (2)
   - Geol 6150: Advanced Physical and Historical Geology (4)
   - Geol 6151: Soils, Clays, and Weathering (4)
   - Geol 6153: Radiogenic Isotope Geology (3)
   - Geol 6157: Life of Cenozoic Era (4)
   - Geol 6158: Chemical Petrology (3)
   - Geol 6159: Deformation and Tectonics (4)
   - Geol 6160: Seminar in Environmental Issues (4)
   - Geol 6170: Directed Study in Geology (1-15)
   - Geol 6180: Advanced Physical and Historical Geology (4)
   - Geol 6190: Soils, Clays, and Weathering (4)
   - Geol 6193: Radiogenic Isotope Geology (3)
   - Geol 6197: Life of Cenozoic Era (4)
   - Geol 6198: Chemical Petrology (3)
   - Geol 6204: Deformation and Tectonics (4)
   - Geol 6205: Seminar in Environmental Issues (4)
   - Geol 6207: Directed Study in Geology (1-15)
   - Geol 6208: Introduction to Geophysics (4)
   - Seminar (1-2 hours) Geol 6095 Seminar in Geological Sciences
2. Seminar (1-2 hours) Geol 6095 Seminar in Geological Sciences
3. Extra departmental courses (3-6 hours): An approved list of courses is available from the Geology Department.
4. Foreign language: Proficiency in a foreign language or in an approved research skill in computer programming. This requirement can be fulfilled by taking an approved course or by taking an examination.
5. Thesis Research (Geol 8999) (9 hours).

Master of Science, Non-Thesis Option (36 hours)

1. Geology Courses (22-26)
Geol 6002 Oceanography (3)
Geol 6003 Aqueous Geochemistry (4)
Geol 6005 Geology of Georgia (3)
Geol 6006 Sedimentary Environments and Stratigraphy (4)
Geol 6007 Hydrogeology (4)
Geol 6008 Rock Fracture and Fluid Flow (4)
Geol 6011 Principles of Paleontology (4)
Geol 6012 Advanced Quantitative Hydrogeology (3)
Geol 6013 Structural Geology (4)
Geol 6042 Analytical Methods (2)
Geol 6097 Topics in Geological Sciences (1-3)
Geol 6120 Basic Field Geology (3)
Geol 6121 Advanced Field Geology (3)
Geol 6640 Geomorphology (4)
Geol 6650 Applied Hydrology (4)
Geol 8000 Advanced Physical and Historical Geology (4)
Geol 8001 Soils, Clays, and Weathering (4)
Geol 8003 Radiogenic Isotope Geology (3)
Geol 8007 Life of Cenozoic Era (4)
Geol 8010 Chemical Petrology (3)
Geol 8014 Deformation and Tectonics (4)
Geol 8050 Seminar in Environmental Issues (4)
Geol 8097 Directed Study in Geology (1-15)
Geol 8500 Introduction to Geophysics (4)
Geol 8500 Seminar in Geological Sciences
2. Seminar (1-2 hours) Geol 6095 Seminar in Geological Sciences
3. Extra departmental Courses (6-9 hours). An approved list of courses is available from the department
4. Directed Study (3 hours) Geol 8097 Directed Study in Geology
5. Comprehensive Examination: Pass a general written examination taken within the first year of study.
6. Foreign language: Proficiency in a foreign language or an approved research skill in computer programming. This can be fulfilled by taking a course or taking an examination.
7. Submission and approval of research project paper.

Doctor of Philosophy
The Doctor of Philosophy (Ph.D.) degree in Chemistry with a concentration in Geology is offered in collaboration with the Department of Chemistry. At least 80 hours of graduate credit are required for the Ph.D. degree. In order to satisfy the minimum requirements for the degree, students must complete successfully:
1. Thirty hours of approved graduate core coursework.
2. Forty hours of research, at least 20 hours of which must be Dissertation Research.
3. Ten additional hours of graduate course electives.
4. Satisfaction of the foreign language (research skill) requirement.
5. A written and oral qualifying general examination.
7. A final oral examination directed primarily to the defense of the dissertation.

Specific requirements: In the list of requirements that follows, the minimum number of credit hours required in each category is indicated and the courses that can be taken to fulfill these requirements are listed in parentheses.
Credit will be given only for those geology courses in which the student receives a grade of B or higher. Category C may be used as the minor area of specialization if approved by the examination committee. Substitutions may be made by the graduate director in Category C with written approval of the Department of Geosciences.

A. Core courses: Geology (11 hours). To be selected from Geol 6003, 8001, 8003, 8010, or other approved substitutes;

B. Minor Area electives: (13 hours). To be selected from Geology: Geol 6004, 6006, 6009; Analytical Chemistry: Chem 6850, 6860, 6800, 8900; Biophysical Chemistry: Chem 6000, 6010, 6190, 6110, 6580; Organic Chemistry: Chem 6400, 6410, 6450, 8900; or other approved substitutes;

C. Interdisciplinary elective: (6 hours). To be selected from Chemistry or Biology or approved substitutes;

D. Special Topics, Electives, and Seminar: (10 hours). To be selected from Geol 6008, 6009, 6079, 6640, 6650; Biol 6349, 6458; Chem 6600, 6610, 6490; or other approved substitutes; and

E. Research: (40 hours). To be selected from Geol 8097 or Geol 9999 (a minimum of 20 hours are selected from Geol 9999). Foreign language/research skill requirement: A reading proficiency in one foreign language is required. An equivalent research skill such as computer language, technical writing, advanced statistics, electronics, etc. may be substituted for the foreign language (departmental approval required). Students with M.S. degrees which had a foreign language requirement satisfy the foreign language requirement. Note: credit hours used to fulfill the language requirement do not count in the 80 hours.

Advanced Certificate in Hydrogeology

The goals of the advanced certificate in hydrogeology program in the Department of Geosciences are to provide students with a comprehensive education in the theoretical and applied aspects of hydrogeology, to provide usable skills for professional employment with state and federal agencies and private industry, to serve as a resource for the protection and management of groundwater resources of the state and region, and to serve as a resource for the extension and expansion of current knowledge in hydrogeology. The program in hydrogeology addresses the areas of groundwater quality, groundwater availability, and management strategies. Students have access to computers, logging equipment, drilling equipment, geophysical and water quality instrumentation, and vehicles.

Additional Admission Requirements

In addition to the general requirements of the College of Arts and Sciences, the Department of Geology has the following requirements for the certificate program in hydrogeology:

1. Three letters of recommendation from individuals who can evaluate the applicant’s potential to do graduate work in geology. Professionals working in the field of groundwater hydrology must submit at least one letter of recommendation from their employers, documenting the applicant’s professional experience and performance.

2. A statement of interests and career goals.

3. A baccalaureate degree in geology. Non-geologists with degrees in engineering or physical sciences also will be considered, but they must complete coursework in physical and historical geology. In order to satisfy this requirement, the applicant must take Geol 1121 and Chem 1122 prior to applying. Ordinarily, grades of A will be expected in order to demonstrate mastery of the subject.

4. All students must have completed coursework equivalent to the following:

   Calculus: MATH 2211 (4) and MATH 2212 (4)

   Physics: PHYS 1111K (4) or PHYS 2211 (4)

   Chemistry: CHEM 1210 (4) and CHEM 1220 (4)

Certificate Requirements

1. Students must complete a grade of C or letter six semester hours in hydrogeology, and pass a comprehensive examination.

2. Students must complete the program with a minimum 3.0 grade-point average in order to receive a certificate.
### Programs Offered:

**Master of Arts in German**

**Specialist in Education in Teaching and Learning with Concentration in Foreign Language Education**

*(in cooperation with the College of Education)*

Department of Modern and Classical Languages  
Georgia State University  
University Plaza  
Atlanta, Georgia 30303  
404/651-226  
E-mail: bbraunrot@gsu.edu or mclgraduate@gsu.edu  
http://www.gsu.edu/languages

Kathleen Hardesty Doig, Chair  
Bruno Braunrot, Director of Graduate Studies

The Department of Modern and Classical Languages offers the Master of Arts (M.A.) degree in French, German, and Spanish. The Master of Arts degree emphasizes advanced study in the language, culture, and literature of the student’s specialty, including courses of particular interest to foreign language teachers. The Department of Modern and Classical Languages also supervises an Ed.S. program through the College of Education. For further information please contact the Director of Graduate Studies, Department of Middle-Secondary Education and Instructional Technology, Georgia State University.

Applicants may obtain additional information about the Department of Modern and Classical Languages by contacting the Director of Graduate Studies at the addresses above.

### Additional Admission Requirements

In addition to the general requirements of the College of Arts & Sciences, the Department of Modern and Classical Languages has the following requirements:

1. An undergraduate major or its equivalent in the language to be studied.
2. A minimum of three literature courses, including the introductory course, or equivalent.
3. A departmental entrance examination.

### Degree Requirements

**Master of Arts**

**Literature Option** (30 hours):

A. Basic Requirements:
   a. Twenty-four hours of coursework, of which a minimum of eighteen must be taken in the student’s major field.
   b. A written general examination.
   c. An oral examination.
   d. Proficiency in a foreign language other than the student’s major.

B. Thesis Option:
   b. Six hours of thesis research.
   c. A thesis.
   d. A thesis defense.

C. Non-Thesis Option:
   a. Six hours of additional graduate coursework.
   b. A research paper.

Applicants may obtain additional information about the Department of Modern and Classical Languages by contacting the Director of Graduate Studies at the addresses above.
b. A written exit examination
c. An oral exit examination
d. Proficiency in a foreign language other than the student’s major

2a. Thesis Option:
   a. A written thesis proposal
   b. Six hours of thesis research
   c. A thesis

2b. Non-Thesis Option:
   a. Six hours of additional graduate coursework in the student’s major field
   b. A research paper.

**B. Language, Pedagogy, and Applied Linguistics Option (30 hours)**

Basic Requirements:
1. Eighteen hours of coursework in Literature, Language, and Culture in the student’s major field
2. Twelve hours of coursework in Applied Linguistics and Pedagogy
3. A written examination
4. An oral examination
5. A portfolio

A student must have a grade-point average of 3.0 or higher in all courses counting towards the Master of Arts degree. Only courses passed with a grade of B or higher will count toward the degree.
Gerontology is more than an academic subject; it provides a way of understanding ourselves and our families as we move across the life course, and it seeks to explain how our society and the world are being revolutionized by an aging population. We know that the aging process is universal and that every one of us will develop, become old, and die. Gerontology shows us how this process is bounded by our genes, our mind, our culture, and our social network, and it acknowledges the harsh realities that often beset old age. But the aging process also can be malleable and meaningful. Gerontology provides us with powerful tools for understanding the forces that are fundamentally altering our society as well as how they will shape our own future selves.

The Gerontology Institute offers a Master of Arts (M.A.) and a Certificate in Gerontology for students who wish to prepare for careers in the field of aging and focus their graduate studies in the area of gerontology. Students pursuing the M.A. degree may choose either the program administration track or the research track. The program administration track prepares students to work in aging services and administration and emphasizes program design and administration, while the research track prepares students to work in aging services and administration and emphasizes program design and management. The research track prepares students for careers in aging research.

The Graduate Certificate in Gerontology is designed to integrate knowledge of gerontology into students’ own disciplinary fields. It is offered for students preparing for a variety of careers in the aging field and for professionals already working in such areas as health care, social services, recreation, government, and business.

Applicants may obtain additional information about the Gerontology Institute by contacting the Director of Graduate Studies at the addresses above.

Additional Admission Requirements
In addition to the general requirements of the College of Arts and Sciences, the Gerontology Institute has the
following requirements:
1. Graduate Record Exam (GRE) scores.
2. Three letters of recommendation.
3. A statement of educational and career goals.
4. A current résumé.

**Degree Requirements**

**Master of Arts (36 hours)**
Prerequisite required of students without previous coursework in statistics.
Soci 3010 Social Statistics (3) or another approved statistics course

1. Core courses (18 hours)
   - Gero 7110 Aging Policy and Services (3)
   - Gero 7200 Health and the Older Adult (3)
   - Gero 8000 Seminar in Gerontology (3)
   - Gero 8100 Research Methods in Gerontology (3)
   - Gero 8116 Sociology of Aging (3)
   Select one of the following courses:
     - Gero 7610 Psychology of Aging (3)
     - Gero 8260 Psychology of Adulthood and Aging (3)

2. Elective courses (6 hours)
   Select two of the following courses:
   - Gero 6475 Communication and Aging (3)
   - Gero 7260 Social Work with the Aging (3) (if not required in track)
   - Gero 8102 Life Course Sociology (3)
   - Gero 8119 Global Aging and Social Policies (3)
   - Gero 8122 Death, Dying, and Loss (3)
   - Gero 8124 Ethnicity and Aging (3) (if not required in track)
   - Gero 8200 Aging Program Administration (3) (if not required in track)
   - Gero 8700 Special Topics in Gerontology (3)
   - Gero 8800 Directed Reading in Gerontology (3)

3. Track requirements (12 hours). Select one of the following tracks.
a. Aging Program Administration Track
   - Gero 7260 Social Work with the Aging (3)
   - Gero 8200 Aging Program Administration (3)
   - Gero 8910 Gerontology Internship (1-6)
   - Gero 8999 Thesis Research (1-9)
b. Research Track
   - Gero 8110 Evaluation Research in Gerontology (3) or another approved graduate statistics or research methods course
   - Gero 8124 Ethnicity and Aging (3)
4. A thesis approved by the student’s thesis committee and the director of the Gerontology Institute

**Graduate Certificate in Gerontology**

The certificate program is open to students enrolled in graduate degree programs and in good standing at Georgia State University. In addition, non-enrolled students may apply for the certificate program using the same procedure as the M.A. degree.

**Certificate Requirements (21 hours)**

1. **Core courses (12 hours)**
   - Gero 7200  Health and the Older Adult (3)
   - Gero 8116  Sociology of Aging (3)
   - Select one of the following courses:
     - Gero 7610  Psychology of Aging (3)
     - Gero 8260  Psychology of Adulthood and Aging (3)
   - Select one of the following courses:
     - Gero 7110  Aging Policy and Services (3)
     - Gero 7260  Social Work with the Aging (3)

2. **Elective courses (6 hours)**
   - Gero 6475  Communication and Aging (3)
   - Gero 7110  Aging Policy and Services (3) (if not taken in core)
   - Gero 7260  Social Work with the Aging (3) (if not taken in core)
   - Gero 8102  Life Course Sociology (3)
   - Gero 8119  Global Aging and Social Policies (3)
   - Gero 8122  Death, Dying, and Loss (3)
   - Gero 8124  Ethnicity and Aging (3)
   - Gero 8200  Aging Program Administration (3)
   - Gero 8700  Special Topics in Gerontology (3)
   - Gero 8800  Directed Reading in Gerontology (3)

3. **Internship (3 hours)**
   - Gero 8910  Gerontology Internship (1-6) or an approved alternate internship course
General Catalog 1998-1999

Program in Heritage Preservation

Max Page, Director

Degree offered: Master of Heritage Preservation

The Master of Heritage Preservation (M.H.P.) degree program is designed to train professionals in the field of cultural resource management. The program seeks, first, to acquaint students with the broad range of disciplines that constitute the field of heritage preservation. Second, it seeks to develop skills in administration, research, analysis, field survey, and interpretation that will be necessary in professional practice. Third, it provides practical experience in heritage preservation through classroom projects, team research, internships, and field projects. The program seeks to provide trained personnel for careers in (1) cultural resource planning and management on the local, state, and federal levels; (2) administration of historical sites, historical societies, and museums; and (3) research positions in public and private agencies.

Heritage Preservation Program
Georgia State University
P.O. Box 4117
Atlanta, GA 30302-4117
404/463-9096
E-mail: rlaub@gsu.edu
http://www.gsu.edu/heritagepr

Richard Laub, Director

The Master of Heritage Preservation (M.H.P.) degree program is designed to train professionals in the field of cultural resource management. The program seeks first to acquaint students with the broad range of disciplines that constitute the field of heritage preservation. Second, it seeks to develop skills in administration, research, analysis, field survey, and interpretation that will be necessary in professional practice. Third, it provides practical experience in heritage conservation through classroom projects, team research, and internships in the field.

The Program in Heritage Preservation offers a degree in which the student can choose to concentrate in either historic preservation or public history.

The program seeks to provide trained personnel for careers in (1) cultural resource planning and management on the local, state, and federal levels; (2) administration of historical sites, historical societies and commissions, and museums; and (3) research positions in public and private agencies.

The program consists of a series of overview courses in the field including archeology, history, folklore, architectural history, and cultural geography, and in preservation administration and law. Students choose a specialty area for more coursework, such as archeology, planning, architectural history, historical research. Finally, students engage in research projects through an interdisciplinary research seminar and an internship in a preservation agency.

Additional Admission Requirements

In addition to the general requirements of the College of Arts and Sciences, the Program in Heritage Preservation has the following requirements:

1. Three letters of recommendation from individuals who can evaluate the applicant’s potential to do graduate work.
2. A statement of educational and career goals.

Degree Requirements

MASTHER OF HERITAGE PRESERVATION (45-hour program)

1. Forty-five hours of graduate coursework, distributed among the following four areas;
   Area 1: Cultural Resources (15 hours)
   Area 2: Administration and Law (0 hours)
   Area 3: Buildings and Environment (6 hours)

2. Each student must complete five of the following six courses: Historical Archaeology, Cultural Geography of the United States, Introduction to Historic Preservation, Seminar in Urban History, and Seminar in Cultural Resources. No student may be exempted by the program director from one or more courses in Area 1.

3. Additional Admission Requirements

   In addition to the general requirements of the College of Arts and Sciences, the Program in Heritage Preservation has the following requirements:

   1. Three letters of recommendation from individuals who can evaluate the applicant’s potential to do graduate work.
   2. A statement of educational and career goals.

Catalog 2007-2008

Program Offered:

- Master of Heritage Preservation
- Concentration in Historic Preservation
- Concentration in Public History
- Certificate in Historic Preservation
- Certificate in Public History

Heritage Preservation Program
Georgia State University
P.O. Box 4117
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Richard Laub, Director
Degree Requirements
Master of Heritage Preservation

Historic Preservation Track (45 hours)

Area 1: Cultural Resources (12 hours)

To gain an overview of the field of heritage preservation, students must take four of the following five courses. Students with undergraduate or graduate backgrounds in one of these disciplines may be exempted by the program director from one or more courses in Area 1.

Folk 8200 Folklore (3)
Hist 8600 Introduction to Historic Preservation (3)
Hist 8690 American Architectural History (3)
Hist 8635 The U.S. City (3)
Hist 8620 Conservation of Historic Building Materials (3)

Area 2: Buildings and Environment (15 hours)

In order to understand the preservation building interiors, legal, cultural, and landscaped environments, students will take courses in the history of preservation law, interior design, and landscape architecture as well as courses in preservation planning and public archaeology. Students should select five out of the six courses below.

Anth 8240 Public Archaeology (3)
Hist 8610 Preservation Law (3)
Hist 8640 Preservation Planning (3)
Hist 8645 Historic Resource Evaluation (3)
Hist 8650 Historic American Landscapes and Gardens (3)
ID 8650 History of Interior Design I: Antiquities to the Nineteenth Century (3)

Area 3: Area of Concentration (12 hours minimum)

In order to tailor their programs to such career interests as neighborhood revitalization, preservation planning, preservation administration, research and analysis, restoration finance, or architectural evaluation, students will select appropriate courses from preservation disciplines represented in the program. Courses may be taken from one or several disciplines and will be selected with the approval of the program director. Below is a list of possible options:

Anth 6200 Urban Anthropology (4)
Anth 6590 Archeological Methods (4)
Folk 6200 American Folk Crafts (3)
Folk 8200 Folklife (3)
Geog 6532 Introduction to Geographic Information Systems (4)
Geog 6774 Contemporary Urban Theory and Issues (3)
Hadm 8500 Economic and Cultural Impact of Travel and Tourism (3)
Hist 6320 Metropolitan Atlanta (3)
Hist 6940 Administration and Use of Historical Archives (3)
Hist 8640 Preservation Planning (3)
Hist 8645 Historic Resources Evaluation (3)
Hist 8660 Case Studies in International Preservation (3)
Hist 8710 History and the Public (3)
Hist 8720 Museum Studies (3)
Area 4: Applied Studies (6-9 hours).
In order to gain experience in the practical work of heritage preservation, students will take courses that require preservation research projects and that offer the opportunity to see the operations of preservation organizations. For these purposes, there are internships, directed studies, and thesis options available to students where classroom and seminar knowledge may be applied to actual preservation needs. Students will take the following courses, or appropriate substitutes, approved by the program director:

Hist 8700  Case Studies in Historic Preservation (3)
Hist 8680  Internship (3-6 hours)

Area 5: Oral Examination
Students must pass a general oral examination in order to graduate.

Master of Heritage Preservation
Public History Track (45 hours)

Area 1: Historical Foundations (15 hours).
To gain an overview of the field of public history, students must take five out of the six courses listed.

Hist 8710  History and the Public (3) (required)
Hist 6920  Oral History (4)
Hist 7010  Issues and Interpretations in American History (4)
Hist 8000  Introduction to Historical Methods and Theory (4)
Hist 8060  Seminar in the History of the South (4)
Hist 8635  U.S. Cities (3)

Area 2: Professional Concentrations (15 hours).
In order to understand the diverse options in the field of public history, students will take courses in folk studies, archives, preservation, and museum operations. Students should select five out of the seven courses below.

Folk 6020  American Folk Crafts (3)
Hist 6940  Administration and Use of Historical Archives (3)
Hist 8600  Introduction to Historic Preservation (3)
Hist 8640  Preservation Planning (3)
Hist 8700  Case Studies in Historic Preservation (3)
Hist 8720  Museum Studies (3)
Paus 8211  Nonprofit Management (3)

Area 3: Electives (9 hours).
In order to tailor their programs to such career interests, students will select appropriate courses from preservation and public history disciplines represented in the program. Other graduate courses in history may be substituted at the discretion of the program director. Other courses in documentary film, etc., can be substituted at the discretion of program director and with permission of other program directors. Below is a list of possible options:

Anth 6480  Ethnographic Analysis (4)
Anth 8240  Public Archaeology (3)
Folk 6020  American Folk Crafts (3)
Folk 8200  Folklore (3)
Geog 6644  Environmental Conservation (4)
Geog 6760  Cultural Geography (3)
Geog 8025  Seminar in Cultural Geography of the United States (3)
Hist 6320  Metropolitan Atlanta (3)
Hist 8050  Southern Cities (3)
Hist 8060  Seminar in the History of the South (4)
Hist 8600  Introduction to Historic Preservation (3)
Hist 8610  Preservation Law (3)
Hist 8620  Conservation of Historic Building Materials (3)
Hist 8640  Preservation Planning (3)
Hist 8645  Historic Resource Evaluation (3)
Hist 8650  Historic American Landscapes and Gardens (3)
Hist 8660  Case Studies in International Preservation (3)
Hist 8670  Seminar in Archives Administration and Use (3)
Hist 8690  American Architectural History (3)
Hist 8840  Seminar in Urban History (4)
Paus 8211  Nonprofit Management (3)
Paus 8221  Fundraising for Voluntary Nonprofit Organizations (3)
Paus 8231  Nonprofit Leadership and Management (3)
Paus 8241  Marketing in the Nonprofit Sector (3)

Area 4: Capstone Courses (6 hours).
In order to gain experience in the practical work of public history, students will take courses that require research projects and that offer the opportunity to see the operations of public history organizations. For these purposes, there are internships, directed studies, and thesis options available to students where classroom and seminar knowledge may be applied to actual preservation needs. Students will take the following courses, or appropriate substitutes, approved by the program director:

Hist 8680  Internship (1-15)
Hist 8890  Special Topics in History (3-4)

Area 5 Oral Examination
Students must pass a general oral examination in order to graduate.

Certificate Programs in Heritage Preservation

The College of Arts and Sciences offers two certificates in heritage preservation, one in Historic Preservation and the other in Public History. The certificate program is open to students who are enrolled in graduate degree programs and in good academic standing at Georgia State University or other graduate institutions in such programs as history, anthropology, geography, urban studies, public administration, and real estate. Others may apply for the certificate program using the same procedure as that used to apply for the MHP degree, and the same standards will apply. Students accepted into the certificate program will have student standing, with all the attendant responsibilities and privileges.

The certificate in heritage preservation requires completion of 18 hours of course work and successful completion of a general examination. Students must maintain a 3.0 grade-point average in order to receive a certificate. While
graduate credit from other institutions may, by petition, be applied toward the certificate, normally not more than six hours will be accepted.

**Certificate in Historic Preservation**

Students must complete 18 hours of graduate study divided among the three following areas;

**Area 1: Preservation Overview (6 hours).**
Hist 8600 Introduction to Historic Preservation (3)
Hist 8700 Case Studies in Historic Preservation (3)

**Area 2: Cultural Resources (6 hours).**
Anth 8240 Public Archaeology (3)
Folk 8200 Folklore (3)
Geog 8025 Seminar in Cultural Geography of the United States (3)
Hist 8635 U.S. Cities (3)
Hist 8645 Historic Resource Evaluation (3)
Hist 8690 American Architectural History (3)

**Area 3: Preservation Specialties (6 hours).**
Hist 6320 Metropolitan Atlanta (3)
Hist 8050 Southern Cities (3)
Hist 8610 Preservation Law (3)
Hist 8620 Conservation of Historic Building Materials (3)
Hist 8640 Preservation Planning (3)
Hist 8650 Historic American Landscapes and Gardens (3)
Hist 8660 Case Studies in International Preservation (3)

Other courses may be approved by the director of the program.

Students must pass a general written examination.

**Certificate in Public History**

Students must complete 18 hours of graduate study divided among the three following areas;

**Area 1: Public History Overview (6 hours).**
Hist 8710 History and the Public (3)
Hist 8800 Directed Study in Public History (3)

**Area 2: Historical Foundations (6 hours).**
Hist 6920 Oral History (4)
Hist 6940 Administration and Use of Historical Archives (3)
Hist 7010 Issues and Interpretations in American History (4)
Hist 8000 Introduction to Historical methods and Theory (4)
Hist 8060 Seminar in the History of the South (4)
Hist 8635 U.S. Cities (3)

**Area 3: Public History Specialties (6 hours).**
Folk 6020 American Folk Crafts (3)
Hist 6940 Administration and Use of Historical Archives (3)
Hist 8640 Preservation Planning (3)
Hist 8650 Historic American Landscapes and Gardens (3)
Hist 8690 American Architectural History (3)
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<thead>
<tr>
<th>Course Code</th>
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<tr>
<td>Hist 8700</td>
<td>Case Studies in Historic Preservation (3)</td>
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<td>Hist 8720</td>
<td>Museum Studies (3)</td>
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<td>Hist 8730</td>
<td>Exhibit Planning and Production (3)</td>
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<td>Paus 8211</td>
<td>Nonprofit Management (3)</td>
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Other courses may be approved by the director of the program.

Students must pass a general written examination.
Programs Offered:

- Master of Arts in History
  - Concentration in World History

- Doctor of Philosophy in History

Department of History
Georgia State University
P.O. Box 4117
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404/651-2250
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Hugh Hudson, Chair
Michelle Brattain, Director of Graduate Studies

The Master of Arts (M.A.) degree program prepares students to teach in junior, community, or small liberal arts colleges; for careers in the management and use of historical records in archives or museums and in historic preservation; and for admission into a doctoral program in history.

The Doctor of Philosophy (Ph.D.) degree program concentrates primarily on United States history and European history, with additional fields in Asian, Latin American, African and Middle-Eastern history. Students are encouraged to specialize in a broad range of areas including labor, urban, twentieth-century United States, and twentieth-century European history; historic preservation; and archival use and administration. The program prepares students to teach in junior, community, small liberal arts, and senior colleges; for productive postdoctoral research in history; and for careers in public service.

Applicants may obtain additional information about the Department of History by contacting the Director of Graduate Studies at the addresses above.

Additional Admission Requirements

In addition to the general requirements of the College of Arts and Sciences, the Department of History has the following requirements:

1. Three letters of recommendation, preferably from faculty members who have taught the student in a history course or courses.
2. Applicants to the Ph.D. program must:
   a. Demonstrate proficiency in at least one foreign language.
   b. Show evidence of research ability, such as a thesis, and submit a writing sample.
   c. Normally have a master's degree in history.
3. Ph.D. students are admitted to the program once a year only (to begin fall semester). Applications must be completed by February 1, 1999, for the fall semester 1999, and decisions will be made by approximately March 15, 1999.

Degree Requirements

M.A. in History (30 hour program)

1. Eighteen hours of graduate coursework in history, twelve of which must be courses offered exclusively for graduate students, and which must include:
   a. Three hours of coursework in American history.
   b. Three hours of coursework in European history.
   c. Three hours of coursework in Asian, African, Latin American, or Middle Eastern history.
   d. Three hours of Hist 8000, Introduction to Historical Research.
   e. Three hours of either Hist 7010, 7020, or 7030.
   f. Six hours of work in history.
   g. Six hours of work in a related field of study, which may either be in the Department of History or in another academic department.
   h. A foreign language proficiency requirement.
   i. An oral or written examination, to be taken within one semester after the completion of coursework.
5a. Thesis option:
   2. A thesis prospectus, approved by a director and a second reader, and a thesis.
5b. Non-thesis option:
   1. Two hours of 600-level directed research.
   2. Two acceptable articles of journal length, based on original research, one of which shall be submitted for publication. A separate review board composed of the student's advisor and two other faculty members will judge the acceptability of each article.
DOCTOR OF PHILOSOHY (56-hour program beyond the master's degree) 

1. A high standard of undergraduate achievement, in undergraduate and graduate work, especially in the major field.
2. Ordinarily, the M.A. degree in history. Additional course work may be required if the department deems previous graduate work inadequate for Ph.D. study in history.
3. Acceptable scores on the General (Aptitude) Test of the Graduate Record Examination.
4. Language skills deemed adequate by the department. This will normally include evidence of proficiency in at least one alternate language.
5. Positive evidence of research aptitude and skill, such as the M.A. thesis, and a sample of the applicant’s research and written work.
6. A statement of the applicant’s educational and professional goals.
7. Official transcripts of all previous college and graduate level work.

Procedural Rules
1. The Department of History may require a personal interview with the Ph.D. applicant.
2. Admission to the Ph.D. program is not automatic on the conclusion of the M.A. in history at Georgia State University.
3. Normally, a student may not take three degrees—the bachelor’s, master’s, and doctorate—in the Department of History at Georgia State University.

Degree Requirements

Master of Arts

M.A. students are required to take a total of nine courses. These courses include:
1. Six courses in history. Four of these must be courses offered exclusively for graduate students. For students entering after Fall 2005, one of these six courses must be a research seminar. These six courses should include:
   a. One course in U.S. history
   b. One course in European history
   c. One course in African, Asian, Latin American, or Middle Eastern history
   d. Hist 8000 Introduction to Historical Methods and Theory
   e. One course from among History 7010, 7020, or 7030. (This course may also be used to satisfy a., b., or c. above.)
   f. One (or two) courses of electives in history, in order to reach a total of six. Two courses in a related field of study, which may be in the Department of History or another academic department
   1. Certain conditions an approved research seminar may be substituted for one foreign language.
   2. A written and oral general examination.
   3. A prospectus for the dissertation, to be approved by the student’s dissertation committee.
   4. Twenty hours of Hist 8999, Dissertation Research.

Doctor of Philosophy—Requirements for Full Graduate Status Admission

1. Thirty-six hours of coursework, of which thirty must be in graduate history courses and up to six may be taken in an allied field of study. Of these thirty-six hours, at least twenty-four must be earned toward the degree. A grade of B or higher is expected in all courses.
2. A high standard of undergraduate achievement, in undergraduate and graduate work, especially in the major field.
3. Acceptable scores on the General (Aptitude) Test of the Graduate Record Examination.
4. Language skills deemed adequate by the department. This will normally include evidence of proficiency in at least one alternate language.
5. Positive evidence of research aptitude and skill, such as the M.A. thesis, and a sample of the applicant’s research and written work.
6. A statement of the applicant’s educational and professional goals.
7. Official transcripts of all previous college and graduate level work.

Procedural Rules
1. The Department of History may require a personal interview with the Ph.D. applicant.
2. Admission to the Ph.D. program is not automatic on the conclusion of the M.A. in history at Georgia State University.
3. Normally, a student may not take three degrees—the bachelor’s, master’s, and doctorate—in the Department of History at Georgia State University.

Degree Requirements

Master of Arts

M.A. students are required to take a total of nine courses. These courses include:
1. Six courses in history. Four of these must be courses offered exclusively for graduate students. For students entering after Fall 2005, one of these six courses must be a research seminar. These six courses should include:
   a. One course in U.S. history
   b. One course in European history
   c. One course in African, Asian, Latin American, or Middle Eastern history
   d. Hist 8000 Introduction to Historical Methods and Theory
   e. One course from among History 7010, 7020, or 7030. (This course may also be used to satisfy a., b., or c. above.)
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2. A high standard of undergraduate achievement, in undergraduate and graduate work, especially in the major field.
3. Acceptable scores on the General (Aptitude) Test of the Graduate Record Examination.
4. Language skills deemed adequate by the department. This will normally include evidence of proficiency in at least one alternate language.
5. Positive evidence of research aptitude and skill, such as the M.A. thesis, and a sample of the applicant’s research and written work.
6. A statement of the applicant’s educational and professional goals.
7. Official transcripts of all previous college and graduate level work.
2. A thesis prospectus, approved by a director and a second reader, and a thesis.

6b. Non-Thesis Option

1. Three additional graduate history classes. When possible, these classes should be chosen to form a concentration. Concentrations can be defined geographically (as in Areas A, B, or C, see below) or thematically (as in Area D, see below), in consultation with the student's advisor.

2. A written examination, to be administered by an examination committee, which will consist of the advisor and one additional faculty member.

World History Concentration

The History Department offers a concentration in World History at the M.A. level. The concentration combines the theoretical and empirical frameworks of world history with opportunities to conduct more detailed research within chosen areas of interest. Students will apply theoretical approaches and empirical methodologies that support the comparative study of societies and cultures as well as the interconnections among different world regions.

The requirements fit into the framework of a regular M.A. in history, with several more specific stipulations as noted below:

1. As in the regular History M.A., the six required history courses, including one each in (a) U.S.; (b) European; and (c) African, Asian, Latin American, or Middle Eastern history. Either the U.S. or the European course should have a world dimension, which is also desirable for the course chosen above under (c). In addition, students must take:
   Hist 7030 Issues and Interpretations in World History (4)
   Hist 8000 Introduction to Historical Methods and Theory (4)
   One of the two elective history courses must be in world history.

2. One of the two required courses in a related field of study must be from another department.

3. Foreign language, oral examination, and requirements for the thesis or non-thesis option are the same as for a regular MA.

The Program Director will advise students on courses qualifying as world history. Students may petition the World History Committee for the inclusion of other courses with conspicuous world dimensions.

Master of Heritage Preservation

The Department also offers a Masters Degree in Heritage Preservation. This program is divided into two tracks of study: one in Historic Preservation and one in Public History. The program is designed to train professionals in the fields of cultural resource management and the interpretation of history to a broad audience. For more information about the Heritage Preservation Program contact the Director of the program website at [http://www.gsu.edu/heritagepr](http://www.gsu.edu/heritagepr).

Doctor of Philosophy

1. Twelve courses, of which ten must be graduate history courses. Two may be taken in an allied field outside the department. Each student must take two classes at the 7000 level. One of these classes must be Hist 7030. Students, in consultation with their adviser may choose between Hist 7010 and 7020. Each student will select four fields from the areas listed below to prepare for their General Examination:
   a. One each from A, B, and C
   b. One from any of the four areas (A, B, C, D)

AREA A: United States History

1. United States before 1800
2. United States in the Nineteenth Century
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<td>4. United States Foreign Relations</td>
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<td>5. The American South</td>
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<td>6. African-American History</td>
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<th>AREA B: European History</th>
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<td>1. Ancient History</td>
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<td>2. Medieval and Renaissance</td>
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<td>3. Early Modern Europe</td>
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<td>5. Early Modern Britain</td>
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<td>6. Modern Britain, Ireland, and the British Empire</td>
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<td>7. Russian and Soviet History</td>
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<th>AREA C: African, Asian, Latin American, and Middle Eastern</th>
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<td>1. Africa</td>
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<td>2. East Asia</td>
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<td>3. South Asia</td>
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<td>4. Latin America</td>
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<td>5. Middle East</td>
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<th>AREA D: Topics in History and Allied Fields</th>
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<td>1. Archival Administration</td>
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<td>2. Historic Preservation and Public History</td>
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<td>3. History of Gender</td>
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<td>4. Labor History</td>
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<td>5. Urban History</td>
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<td>6. World History</td>
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<tr>
<td>7. An appropriate field approved in consultation with the student’s adviser and the graduate director.</td>
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</table>

2. History 8000 Introduction of Historical Methods and Theory (unless completed at the M.A. level).
3. History 8005 Introduction to Graduate Studies in History (unless completed at the M.A. level).
4. The student must successfully complete a reading-knowledge examination in two alternate languages (see Section VII). In certain circumstances an alternate research skill may be substituted for one foreign language.
5. Students in the doctoral program are required to be in residence for four semesters, two of which must be consecutive. In all four semesters the students must register for at least eight hours of coursework.
6. Upon completion of the language requirements and the course work in the doctoral program, the doctoral student will be required to complete successfully a general examination (consisting of written and oral parts) which shall be administered by an examination committee.
   a. The general examination will cover the four fields which the student has chosen from the areas listed above. There will be two major fields in which the student will be required to take both written and oral examinations. One of these fields must be that in which the student intends to write the doctoral dissertation. There will be two minor fields in which the student will be required only to take an oral examination.
   b. The oral part of the general examination will be scheduled within one week of the completion of the last part of the written examination. All members of the examination committee will participate in the oral part
of the examination.
c. At the conclusion of the general examination, the members of the examination committee will determine whether the student has passed or failed. A unanimous vote of the committee is required to pass. Should a student fail the general examination, the committee shall determine the conditions under which the student will be permitted to re-take the examination or portions thereof in accordance with the regulations of the Graduate Division of the College of Arts and Sciences. The examination may be repeated once following a minimum interval of six months. A student who fails the examination a second time will be subject to termination. The examination must be passed at least one academic year prior to the conferral of the degree.

7. On the successful completion of the written and oral parts of the general examination, the student will be required to submit a prospectus of the dissertation to a scheduled meeting of members of the dissertation committee (which will normally comprise three professors of the Department of History faculty), who are nominated by the student and appointed by the chair of the department. The prospectus will include a carefully prepared and closely reasoned statement or exposition of the topic or subject which the student has chosen to research in consultation with the dissertation adviser. The acceptance or rejection of the student’s prospectus and dissertation will be the responsibility of the dissertation committee.

8. After completing the language, course work, general examination and dissertation prospectus requirements, the student will be admitted to candidacy for the degree.

9. The student must complete satisfactorily a dissertation and earn not less than twenty hours of credit in History 9999 Dissertation Research), supervised by the dissertation director.

10. Dissertation Defense. Upon completion of the dissertation, the candidate will be required to pass a final examination which shall be devoted to a defense of the dissertation. The examination will be conducted by the candidate’s dissertation committee.
The Master of Arts for Teachers (M.A.T.) degree program provides advanced training for secondary-school teachers of mathematics. This program combines advanced work in mathematics and education to deepen, strengthen, and broaden the student's understanding of mathematics and the teaching of mathematics.

Employment opportunities for mathematics and computer science majors have increased dramatically since 1975. Jobs are available with three categories of employers: business, industry (including industrial and government/military). Within each of these three categories there are several subcategories of employers who hire significant numbers of mathematics and computer science majors. These technologies are:

1. Business
   a. Accounting/public
   b. Banking, finance, and insurance
   c. Marketing/retail, wholesale, and services
2. Manufacturing/Industrial
   a. Aerospace, electronics, and instruments
   b. Computers and business machinery
   c. Electrical machinery and equipment
   d. Research and/or consulting organizations

The Master of Arts for Teachers (M.A.T.) degree program provides advanced training for secondary-school teachers of mathematics. This program combines advanced work in both mathematics and education to deepen, strengthen, and broaden the student's understanding of mathematics and the teaching of mathematics. Majors are encouraged to consider carefully the career objectives they wish to pursue after graduation. Early selection of these objectives may suggest the degree programs or concentrations that will prepare students for their chosen careers. Faculty who serve as advisers for graduate majors will discuss with majors the degree programs and concentrations available to them.

The Master of Science (M.S.) degree programs in mathematics provide education at the graduate level in algebra, analysis, applied mathematics, and statistics. Students completing these degrees are prepared for positions in industry, government, business, and college teaching, and for advanced study in mathematics.

The M.S. degree in mathematics is offered with four concentrations. Two of the concentrations are in statistics, one in computer information systems, and one in computer science.

The M.S. degree in mathematics with concentration in computer information systems is offered in cooperation with the Department of Computer Information Systems. This program is designed for students with undergraduate degrees in mathematics, science, or engineering who wish to prepare for careers in mathematics and computer information systems. The program provides graduate study in algebra, analysis, statistics, and computer information systems.

The M.S. degree with concentration in discrete mathematics is designed for persons with undergraduate degrees in mathematics, science, or engineering who wish to prepare for careers in mathematics and computer science. The program provides graduate study in algebra, analysis, statistics, and computer science.

The M.S. degree with concentration in statistics is designed for persons who wish to prepare for careers as professional statisticians in industry, business, or government. This program provides advanced training in applied statistics for those who are presently working in areas that use statistics, as well as for those who plan to enter these areas. The program presents an optimal balance among the broad range of statistical techniques, mathematical methods, and computation. The M.S. degree with concentration in statistics and allied field provides the opportunity to balance statistical techniques and methods with a broad range of coursework in the field of application.

The M.S. degree in computer science degree program provides students with strong preparatory in the fundamental principles and processes of computer science, and the mathematics upon which these principles and processes depend. In addition, the program provides for the application of these principles to problems in the area of business administration.

The Master of Arts for Teachers (M.A.T.) degree program provides advanced training for secondary-school teachers of mathematics. This program combines advanced work in both mathematics and education to deepen, strengthen, and broaden the student’s understanding of mathematics and the teaching of mathematics. Majors are encouraged to consider carefully the career objectives they wish to pursue after graduation. Early selection of these objectives may suggest the degree programs or concentrations that will prepare students for their chosen careers. Faculty who serve as advisers for graduate majors will discuss with majors the degree programs and concentrations available to them.
The Department of Mathematics and Statistics accepts applications for all three semesters. However, in order to be considered for graduate assistantships for the fall semester, applicants must complete the application process in the Graduate Office in sufficient time for the department to receive it by March 1. This process often takes several weeks. International applicants should allow at least two additional months for processing of applications for admission.

Applicants may obtain additional information about the Department of Mathematics and Statistics by contacting the Directors of Graduate Studies at the addresses above.

**Master of Science in Mathematics (with thesis)**

**Additional Admission Requirements**

In addition to the general requirements of the College of Arts and Sciences, the Department of Mathematics and Statistics has the following requirements:

1. A baccalaureate degree in mathematics or its equivalent.
2. Courses in mathematics equivalent to the following:
   - Math 4435/6435 Linear Algebra (3)
   - Math 4441/6441 Modern Algebra I (3)
   - Math 4661/6661 Analysis I (3)

**Degree Requirements**

1. Twenty-four hours of graduate level courses (exclusive of 8820 and 8999 courses).
   a. The following courses are required:
      - Math 8110 Real Analysis I (3)
      - Math 8120 Real Analysis II (3)
      - Math 8200 Advanced Matrix Analysis (3)
      - Math 8220 Abstract Algebra (3)
   b. One additional three-hour 8000-level course in Mathematics.
   c. Nine additional hours of graduate level course work from the Department of Mathematics and Statistics or in a related field selected in consultation with an adviser and approved by the Director of Graduate Studies. These may include no more than six hours (e.g., two courses) in a related field. Any courses which are used in area 2 of the “Additional Admission Requirements” section of this catalog cannot be applied toward the degree.
2. Six hours of Thesis Research (Math 8999)
3. Additional Requirements
   a. A thesis
   b. A thesis defense

**Concentration in Bioinformatics (with thesis)**

**Additional Admission Requirements**

In addition to the general requirements of the College of Arts and Sciences, the Department of Mathematics and Statistics has the following requirements:

1. A baccalaureate degree in mathematics, statistics, or its equivalent.
2. Courses in mathematics equivalent to:
   - Math 4435/6435 Linear Algebra (3)
   - Math 4751/6751 Mathematical Statistics I (3)
   - Math 4752/6752 Mathematical Statistics II (3)
Degree Requirements

1. A minimum of 27 hours of graduate-level courses (exclusive of 8820 and 8999 courses). The required courses must come from all of the three core groups.

Statistics Core:
The following courses are required:
Stat 8050  Statistics for Bioinformatics (3)
Stat 8540  Advanced Methods in Biostatistics (3)
Stat 8561  Linear Statistical Analysis I (3)

Either:
Stat 8660  Statistical Analysis of Directions, Shapes and Images (3)
Stat 8670  Computational Methods in Statistics (3)

Biology Core:
The following courses are required:
Biol 8630  Advanced Bioinformatics (4)

Either:
Biol 6564  Advanced Genetics (4) or
Chem 6600  Biochemistry I (5) or
Chem 6610  Biochemistry II (3)

Computer Science Core:
Choose two courses from the following list:
CSc 6310  Parallel and Distributed Computing (4)
CSc 6350  Software Engineering (4)
CSc 6710  Database Systems (4)
CSc 6730  Scientific Visualization (4)
CSc 8710  Deductive Databases and Logic Programming (4)

2. Six hours of Thesis Research (Stat 8999)

3. Additional requirements:
a. thesis
b. thesis defense

Concentration in Biostatistics (with thesis)

Additional Admission Requirements

In addition to the general requirements of the College of Arts and Sciences, the Department of Mathematics and Statistics has the following requirements:

1. A baccalaureate degree in mathematics, statistics, or its equivalent.

2. Courses in mathematics equivalent to:
   Math 4435/6435  Linear Algebra (3)
   Math 4751/6751  Mathematical Statistics I (3)
   Math 4752/6752  Mathematical Statistics II (3)

3. Courses in computer science or computer information systems equivalent to:
   Csc 2310 and 2331, Principles of Computer Programming I and II;
   Csc 3110, Computer Organization and Programming;
   Csc 3410, Data Structures
Degree Requirements:

1. Thirty hours of graduate-level courses (exclusive of 8820 and 8999 courses), selected in consultation with an adviser, and approved by the Director of Graduate Studies.

   a. Math 6751/4751 and 6752/4752, Mathematical Statistics 1 and II, must be taken if not already taken as part of another program.
   b. The following three courses are required:
      Math 8110, Real Analysis I;
      Math 8200, Advanced Matrix Analysis;
      Math 8251, Linear Statistical Analysis I.
   c. Additional graduate-level courses from the Department of Mathematics and Computer Science selected in consultation with an adviser, and approved by the Director of Graduate Studies.

2. Six hours of Thesis Research (Math 8999).

3. Additional Requirements
   a. A thesis
   b. A thesis defense

Concentration in Discrete Mathematics (with thesis)

Additional Admission Requirements

In addition to the general requirements of the College of Arts and Sciences, the Department of Mathematics and Statistics has the following requirements:

1. A baccalaureate degree in mathematics or its equivalent.
2. Courses in mathematics equivalent to at least two of the following:
   Math 4420/6420   Graph Theory (3)
   Math 4435/6435   Linear Algebra (3)
   Math 4441/6441   Modern Algebra I (3)

Degree Requirements

1. Twenty-four hours of graduate-level courses (exclusive of 8820 and 8999 courses).

   a. The following courses are required:
      Math 8200 Advanced Matrix Analysis (3)
      Math 8220 Abstract Algebra (3)
      Math 8420 Advanced Graph Theory (3)
      Math 8440 Combinatorics (3)
   b. One additional 8000-level course in mathematics
   c. Nine additional hours of graduate-level coursework from the Department of Mathematics and Statistics or in a related field selected in consultation with an adviser, and approved by the Director of Graduate Studies. These courses may include no more than six hours (e.g., two courses) in a related field. At most one of the courses listed in section 2 of “Additional Admission Requirements” above can be applied toward the degree.

2. Six hours of Thesis Research (Math 8999).

3. Additional requirements
   a. thesis
   b. thesis defense

Concentration in Scientific Computing (with thesis)

Additional Admission Requirements

In addition to the general requirements of the College of Arts and Sciences, the Department of Mathematics and Statistics has the following requirements:

- Stat 8540 Advanced Methodologies in Biostatistics (3)
- Stat 8561 Linear Statistical Analysis (3)
- Nine additional hours of Statistics courses at the 8000-level, from the Department of Mathematics and Statistics.
- Six additional hours of graduate-level coursework from the Department of Mathematics and Statistics in a related field selected in consultation with an adviser and approved by the Director of Graduate Studies. The courses listed as Additional Admission Requirements in section 2 above and other 6000-level Statistics courses are excluded.
- Six hours of Thesis Research (Math 8999).
- Additional Requirements
  a. A thesis
  b. A thesis defense

Concentration in Discrete Mathematics (with thesis)

Additional Admission Requirements

In addition to the general examinations of the College of Arts and Sciences, the Department of Mathematics and Statistics has the following requirements:

1. A baccalaureate degree in mathematics or its equivalent.
2. Courses in mathematics equivalent to at least two of the following:
   Math 4420/6420   Graph Theory (3)
   Math 4435/6435   Linear Algebra (3)
   Math 4441/6441   Modern Algebra I (3)

Degree Requirements

1. Twenty-four hours of graduate-level courses (exclusive of 8820 and 8999 courses).

   a. The following courses are required:
      Math 8200 Advanced Matrix Analysis (3)
      Math 8220 Abstract Algebra (3)
      Math 8420 Advanced Graph Theory (3)
      Math 8440 Combinatorics (3)
   b. One additional 8000-level course in mathematics
   c. Nine additional hours of graduate-level coursework from the Department of Mathematics and Statistics or in a related field selected in consultation with an adviser, and approved by the Director of Graduate Studies. These may include no more than six hours (e.g., two courses) in a related field. At most one of the courses listed in section 2 of “Additional Admission Requirements” above can be applied toward the degree.

2. Six hours of Thesis Research (Math 8999).

3. Additional requirements
   a. thesis
   b. thesis defense

Concentration in Scientific Computing (with thesis)

Additional Admission Requirements

In addition to the general requirements of the College of Arts and Sciences, the Department of Mathematics and Statistics has the following requirements:

- Stat 8540 Advanced Methodologies in Biostatistics (3)
- Stat 8561 Linear Statistical Analysis (3)
- Nine additional hours of Statistics courses at the 8000-level, from the Department of Mathematics and Statistics.
- Six additional hours of graduate-level coursework from the Department of Mathematics and Statistics in a related field selected in consultation with an adviser and approved by the Director of Graduate Studies. The courses listed as Additional Admission Requirements in section 2 above and other 6000-level Statistics courses are excluded.
- Six hours of Thesis Research (Math 8999).
- Additional Requirements
  a. A thesis
  b. A thesis defense
MASTER OF SCIENCE IN MATHEMATICS
CONCENTRATION IN COMPUTER SCIENCE
THESIS OPTION

ADDITIONAL ADMISSION REQUIREMENTS.
In addition to the general requirements of the College of Arts and Sciences, the Department of Mathematics and Computer Science has the following requirements:

1. A baccalaureate degree in mathematics, computer science or its equivalent.
2. Courses in mathematics and computer science equivalent to the following:
   - Math 3260: Differential Equations (3)
   - Math 4435/6435: Linear Algebra (3)
   - Math 4610/6610: Numerical Analysis I (3)

DEGREE REQUIREMENTS:

1. Twenty-four hours of graduate level courses (exclusive of 8820 and 8999 courses).
   a. The following courses are required:
      - Math 8200: Advanced Matrix Analysis (3)
      - Math 8610: Advanced Numerical Analysis (3)
      - Math 8620: Numerical Linear Algebra (3)
      If an equivalent course has not already been taken as part of another program:
      - Math 6265: Partial Differential Equations (3)
      - Math 6620: Numerical Analysis II (3)
   b. Six additional hours of 8000-level coursework selected in consultation with an adviser and approved by the Director of Graduate Studies.
   c. Additional graduate-level courses in mathematics, computer science, or a related field to total 24 hours selected in consultation with an adviser and approved by the Director of Graduate Studies.
      - Math 6211: Optimization (3)
      - Math 6253: Introduction to Operations Research (3)
      - Math 8510: Applied Mathematics (3)
      - Math 8530: Topics in Applied Mathematics (3)
      - CSC 6330: Programming Language Concepts (4)
      - CSC 6730: Scientific Visualization (4)
      - CSC 6820: Computer Graphics Algorithms (4)
      - CSC 8520: Applied Combinatorics and Graph Theory (3)
   2. Six hours of Thesis Research (Math 8999)
   3. Additional Requirements
      a. A thesis defense

Concentration in Statistics (with thesis)

ADDITIONAL ADMISSION REQUIREMENTS
In addition to the general requirements of the College of Arts and Sciences, the Department of Mathematics and Statistics has the following requirements:

1. A baccalaureate degree in mathematics, statistics, or its equivalent.
2. Courses in mathematics equivalent to:
   - Math 4435/6435: Linear Algebra (3)
   - Math 4751/6751: Mathematical Statistics I (3)
   - Math 4752/6752: Mathematical Statistics II (3)

DEGREE REQUIREMENTS

1. Twenty-four hours of graduate level courses (exclusive of 8820 and 8999 courses).
Concentration in Statistics (non-thesis option)

Additional Admission Requirements
In addition to the general requirements of the College of Arts and Sciences, the Department of Mathematics and Statistics has the following requirements:

1. A baccalaureate degree in mathematics, statistics or its equivalent.
2. Courses in mathematics equivalent to:
   - Math 4435/6435 Linear Algebra (3)
   - Math 4751/6751 Mathematics Statistics I (3)
   - Math 4751/6752 Mathematics Statistics II (3)
3. Additional Admission Requirements
   a. The following courses are required:
      - Math 8200 Advanced Matrix Analysis (3)
      - Stat 8561 Linear Statistical Analysis I (3)
   b. Twelve additional hours of Statistics courses at the 8000-level, from the Department of Mathematics and Statistics.
   c. Six additional hours of graduate level coursework from the Department of Mathematics and Statistics or in a related field selected in consultation with an adviser, and approved by the Director of Graduate Studies. The courses listed as Additional Admission Requirements in section 2 above and other 6000-level Statistics courses are excluded.
5. Additional Requirements
   a. A thesis
   b. A thesis defense

Concentration in Statistics and Allied Field

Additional Admission Requirements
In addition to the general requirements of the College of Arts and Sciences, the Department of Mathematics and Statistics has the following requirements:

1. A baccalaureate degree in mathematics, statistics or its equivalent.
2. Eighteen additional hours of Statistics courses at the 8000-level from the Department of Mathematics and Statistics.
3. Twelve additional hours of graduate level coursework. At least six of these from the Department of Mathematics and Statistics, and at most six hours in a related field selected in consultation with an adviser and approved by the Director of Graduate Studies. The courses listed as Additional Admission Requirements in section 2 above and other 6000-level Statistics courses are excluded.
4. At most three hours of the 36 can be in Stat 8820.

2. Additional Requirements
   a. A general examination
   b. A research paper or written report of a laboratory experience. This requirement can be satisfied by taking Stat 8820 Research.
MASTER OF SCIENCE IN MATHEMATICS
CONCENTRATED IN STATISTICS
THESIS OPTION

ADDITIONAL ADMISSION REQUIREMENTS:
In addition to the general requirements of the College of Arts and Sciences, the Department of Mathematics and Computer Science has the following requirements:

1. A baccalaureate degree in mathematics or statistics or its equivalent.
2. Courses in mathematics and statistics equivalent to the following:
   Math 4435/6435 Linear Algebra (3)
   Math 7316/6731 Mathematical Statistics I (3)
   Math 7520/6752 Mathematical Statistics II (3)

DEGREE REQUIREMENTS:

I. Twenty-seven to thirty hours of graduate-level courses (exclusive of 8999 courses).
   A. The following two courses are required:
      Math 8200 Advanced Matrix Analysis (3)
      Stat 8090 Applied Multivariate Statistics (3)
   B. Eighteen additional hours of Statistics courses at the 8000-level, from the Department of Mathematics and Computer Science
   C. There are six additional hours of graduate-level coursework from the Department of Mathematics and Computer Science or in a "related field", selected in consultation with an academic advisor and approved by the Director of Graduate Studies. These courses are taken in a nine-hour sixth term.

II. Six to nine hours of Thesis Research (Stat 8999).

III. Additional Requirements:
   A. A thesis
   B. A thesis defense

MASTER OF SCIENCE IN MATHEMATICS
CONCENTRATED IN STATISTICS
NON-THESIS OPTION

ADDITIONAL ADMISSION REQUIREMENTS:
In addition to the general requirements of the College of Arts and Sciences, the Department of Mathematics and Computer Science has the following requirements:

1. A baccalaureate degree in mathematics or statistics or its equivalent.
2. Courses in mathematics and statistics equivalent to the following:
   Math 4435/6435 Linear Algebra (3)
   Math 7316/6731 Mathematical Statistics I (3)
   Math 7520/6752 Mathematical Statistics II (3)

DEGREE REQUIREMENTS:

I. Thirty-six hours of graduate-level courses (exclusive of 8999 courses).
   A. The following two courses are required:
      Math 8200 Advanced Matrix Analysis (3)
      Stat 8090 Applied Multivariate Statistics (3)
   B. Stat 8561 Linear Statistical Analysis I (3)
   C. Stat 8630 Experimental Designs (3)
   D. At least three hours of Statistics courses at the 8000-level. These courses are taken in a nine-hour sixth term.

II. Additional Requirements:
   a. A general examination
   b. An oral examination

Master of Arts for Teachers in Mathematics

The philosophy and theme of the Master of Arts for Teachers degree are as follows.

Philosophy: The faculty believes that mathematics should be taught for understanding and derives its philosophy of teacher education from this belief. The philosophy is to develop in prospective teachers an understanding of mathematics, an enthusiasm for mathematics, and a desire to communicate that understanding and enthusiasm to students in secondary schools.

Theme: The teacher as enthusiastic communicator of mathematical understanding.

Additional Admission Requirements:
In addition to the general requirements of the College of Arts and Sciences, the Department of Mathematics and Statistics has the following requirements:

1. Be a graduate of an accredited college with a baccalaureate degree in mathematics, mathematics education, or its equivalent.
2. Have an earned, current license to teach mathematics from the Professional Standards Commission of the state of Georgia; for more information about this requirement visit: http://www.gapsc.com/.
3. Have earned a minimum 2.5 undergraduate grade-point average calculated on all work attempted in which letter grades were awarded.
4. Present acceptable scores on the Graduate Record Examination.
5. A prospective applicant must also submit two transcripts from each college attended, and names, addresses, and telephone numbers of at least two persons who will give an estimate of the aptitude and capacity of the applicant for graduate study.
6. Courses in mathematics equivalent to at least two of the following:
   Math 4435/6435  Linear Algebra (3)
   Math 4661/6661  Analysis I (3)
   Math 4751/6751  Mathematical Statistics I (3)

**Degree Requirements**

1. Thirty-six hours of graduate-level courses (exclusive of 8999 courses).
   a. One of the following three courses:
      Math 8200  Advanced Matrix Analysis (3)
      Math 8220  Abstract Algebra (3)
      Stat 8561  Linear Statistical Analysis I (3)
   b. Eight additional (three-hour) graduate-level mathematics courses, including at least three courses (nine semester hours) numbered above 7100. Math 6751 must be one of these courses unless a course equivalent to Math 4751/6751 was completed prior to being admitted.
   c. Three education courses are required, as follows:
      i. Either EPRS 7900 Methods of Research in Education or EPRS 7910 Action Research;
      ii. One of the three courses:
          EPSF 7100  Critical Pedagogy (3)
          EPSF 7110  Multicultural Education (3)
          EPSF 7120  Social and Cultural Foundations of Education (3)
      iii. EPY 7080  The Psychology of Learning and Learners (3)
DEGREE REQUIREMENTS:

I. Thirty-six hours of graduate-level courses (exclusive of 6999 course).
A. The following five courses are required:
   Math 600, Advanced Linear Algebra;
   Stat 600, Applied Multivariate Statistics;
   Stat 6351, Linear Statistical Analysis 1;
   Stat 6310, Experimental Designs;
B. Twelve additional hours of graduate Statistics courses, at least six hours at the 6000-level, from the
   Department of Mathematics and Computer Science.
C. Twelve hours of graduate courses in an "allied field" — a single area of application selected in
   consultation with an advisor and approved by the Department of Mathematics and Computer
   Science.
D. At least three hours of the thirty-six can be in Math 6420 or Stat 6820.
II. Additional Requirements:
A. A general examination.
B. A research paper or a written report of a laboratory experiment.
   [This requirement can be satisfied by taking Stat 6823.]

MASTER OF SCIENCE IN COMPUTER SCIENCE

ADDITIONAL ADMISSION REQUIREMENTS:
In addition to the general requirements of the College of Arts and Sciences, the Department of Mathematics and
Computer Science has the following requirements:
1. Three letters of recommendation from individuals who can evaluate the applicant's potential to do graduate
   work in computer science.
2. A bachelor's degree in computer science, or its equivalent.
3. Coursework in computer science that includes: principles of programming in a structured language, data
   structures, and assembly language programming.
4. At least four of the following five courses:
   - Algorithm Analysis (CSC 4520)
   - Programming Languages (CSC 4310)
   - Software Engineering (CSC 4510)
   - Operating Systems (CSC 4220)
   - Computer Architecture (CSC 4210)
5. Coursework in mathematics that includes a standard elementary calculus sequence, and course equivalent to
   at least two of the following:
   - Discrete Mathematics (Math 2430)
   - Linear Algebra (Math 4254/4435)
   - Numerical Analysis I (CSC 4610/5610)
   - Mathematical Statistics I (Math 4721/6721)

DEGREE REQUIREMENTS:

I. Twenty-seven hours of graduate-level courses (exclusive of Research and Thesis Research courses) in the
   Department of Mathematics and Computer Science, selected in consultation with an academic advisor, and
   approved by the Director of Graduate Studies.
A. Fifteen hours of computer science courses at the 6000-level
B. An additional twelve hours of graduate-level coursework.
   If one of the courses listed in Admission Requirements #1 above has not been taken in another
   program or if the courses Automata (CSC 4310) and Numerical Analysis I (CSC 4610) have not
   been taken, they must be included as part of this program (at the 6000-level).
MAJOR OF ARTS FOR TEACHERS

The philosophy and theme of the Major of Arts for Teachers degree are as follows:

Philosophy: The faculty believes that mathematics should be taught for understanding and derives its philosophy of teacher education from this belief. The philosophy is to develop in prospective teachers an understanding of mathematics, an enthusiasm for mathematics, and a desire to communicate that understanding and enthusiasm to students in secondary schools.

Theme: The teacher as an enthusiastic communicator of mathematical understanding.

ADDITIONAL ADMISSION REQUIREMENTS.

In addition to the general requirements of the College of Arts and Sciences, the Department of Mathematics and Computer Science has the following requirements:

1. Be a graduate of an accredited college with a bachelor's degree in mathematics, mathematics education, or its equivalent.
2. Have earned, current license to teach mathematics from the Professional Standards Commission of the state of Georgia.
3. Have earned a minimum 2.5 undergraduate grade-point average calculated on all work attempted in which letter grades were assigned.
4. Present acceptable scores on the Graduate Record Examination.
5. A prospective applicant must also submit two unsolicited letters of recommendation from a professor selected by the candidate and two references of the applicant for graduate study.
6. Courses in mathematics equivalent to at least two of the following:
   - Math 443/445, Linear Algebra
   - Math 641/645, Advanced Calculus I
   - Math 471/671, Mathematical Statistics I

DEGREE REQUIREMENTS:

1. Thirty-six hours of graduate level courses (exclusive of 5999 courses), including:
   A. One of the following three courses:
      - Math 220, Advanced Linear Algebra
      - Math 221, Abstract Algebra
      - Math 225, Linear Algebra
   B. Eight additional (three-hour) graduate-level mathematics courses, including at least three courses (nine semester hours) numbered above 5100.
   C. Three education courses, as follows:
      - Either ERES 7900, Methods of Research in Education, or ERES 9960, Action Research.
      - One of the three courses:
        - EPSF 7100, Critical Pedagogy
        - EPSF 7110, Multicultural Education
        - EPSF 7120, Social and Cultural Foundations of Education


3. Additional Requirements:
   A. A thesis.
   B. A thesis defense.
II. Additional Requirement
A general examination.

Applicants may obtain additional information about the Department of Mathematics and Computer Science by contacting:

Director of Graduate Studies
Department of Mathematics and Computer Science
C recognizable State University
University Heights
Albany, Georgia 31307
Phone: 651-1234
Fax: 651-4321
http://www.cs.gsu.edu
School of Music

John R. Stowell, Director
David E. Myers, Associate Director
James R. Lykes, Director of Graduate Studies
Degree offered: Master of Music

Programs Offered:
- Master of Music
  - Concentration in Performance
  - Concentration in Composition
  - Concentration in Choral Conducting
  - Concentration in Instrumental Conducting
  - Concentration in Piano Pedagogy
  - Concentration in Jazz Studies
  - Concentration in Music Education

- Doctor of Philosophy in Teaching and Learning with Concentration in Music Education (in cooperation with the College of Education)
- Specialist in Education in Teaching and Learning with Concentration in Music Education (in cooperation with the College of Education)

Office of Admissions and Enrollment
School of Music
Georgia State University
P.O. Box 4097
Atlanta, GA 30302-4097
404/651-3513; 651-3676
E-mail: somadmissions@gsu.edu
http://www.music.gsu.edu/

John B. Haberlen, Director
David E. Myers, Associate Director and Director of Graduate Studies

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.

The School of Music offers a Master of Music degree that prepares students for careers in music and for further specialized study in music at the doctoral level. The graduate degree includes specializations in performance (keyboard instruments, orchestral instruments, and voice), composition, choral conducting, instrumental conducting, piano pedagogy, sound music, jazz studies, and music education. Complete descriptions of these programs may be obtained by contacting the Graduate Office of the School of Music.

In addition to courses and ensembles, the School of Music offers concerts, recitals, lectures, and workshops that are open to all students and to the community. The School of Music is an accredited institutional member of the National Association of Schools of Music.

The School of Music is located in the historic Fairlie Poplar District in downtown Atlanta. The four buildings which comprise the Music Complex are all located in the same block. They are 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

3260 Music
Programs Offered:
- Master of Music
- Concentration in Performance
- Concentration in Composition
- Concentration in Choral Conducting
- Concentration in Instrumental Conducting
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John B. Haberlen, Director
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The School of Music is located in the historic Fairlie Poplar District in downtown Atlanta. The four buildings which comprise the Music Complex are all located in the same block. They are 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. Some classes are held in the Art and Humanities Building at 10 Peachtree Center Avenue. Chamber music concerts and faculty and student recitals are presented in the Recital Hall in the Art and Humanities Building while large ensembles perform in the newly renovated Rialto Center Theater, a state-of-the-art performance venue seating 950. The administrative offices are on the fifth floor of the Haas-Howell Building.

A Specialist in Education (Ed.S.) degree with a major in teaching and learning with a concentration in music education is offered by the College of Education in conjunction with the School of Music of the College of Arts and Sciences. A Ph.D. in Teaching and Learning with a concentration in music education is also offered through the College of Education. Students may contact the School of Music for further information on the Ed.S. and Ph.D. programs. General admission and program requirements are outlined in the College of Education chapter of this catalog.

Applicants may obtain additional information about the School of Music by contacting the Director of Graduate Studies at the addresses above.

Additional Admission Requirements

In addition to the general requirements of the College of Arts and Sciences, the School of Music has the following requirements:

1. Applicants must have an undergraduate degree or concentration in music, or the equivalent.
2. Applicants in music education and composition must submit GRE scores. Miller Analogies Test (MAT) may be substituted in music education.
3. Applicants in some programs must audition and/or submit a portfolio (see below).
4. Applicants are required to take placement examinations in music history and music theory before registering for coursework. Those applicants whose examination scores reveal deficiencies will be required to take appropriate additional coursework, which will not be applied to the graduate degree.

Degree Requirements

Complete course requirements for all programs are available at http://www.music.gsu.edu or through the School of Music Admissions and Enrollment Office. In addition to performance, musical studies, and concentration courses required across all programs, individual program requirements for admission and graduation are indicated below.

Concentration in Performance: (35 to 36-hour program, depending on concentration)

In order to be admitted to these concentrations, applicants must demonstrate outstanding performance ability in an audition before a faculty committee. Auditions should be arranged in accordance with the schedule available from the School of Music Admissions and Enrollment Office. Applicants for a concentration in performance should contact the School of Music for details concerning audition requirements and to obtain an audition appointment.

Piano Performance: (36 hours)

1. A piano proficiency examination to be taken after the second semester of enrollment or 20 hours of study, or successful completion of Mus 6360 Advanced Keyboard Skills.
2. A lecture recital.
3. Two recitals: Mus 8490 Chamber or Ensemble Recital, and Mus 8590 Solo Recital.

Organ Performance: (35 hours)

1. Mus 8490 Chamber or Ensemble Recital, and Mus 8590 Solo Recital.
2. Mus 8900, Choral Conducting Project.
3. A comprehensive examination.

**CONCENTRATION IN INSTRUMENTAL CONDUCTING (36-hour program)**

Applicants must submit the following:

1. A video of a rehearsal and an audition or videotape of one or more recent performances by an ensemble that they have conducted.
2. A list of works that they have conducted in the past three years.
3. A list of works performed in the major instrument at the undergraduate level.
4. Evidence of current employment as an instrumental conductor or access to an appropriate instrumental ensemble.
5. Two letters of reference.

Applicants should also expect to demonstrate in a live performance their conducting and rehearsal techniques with either their own ensemble or a university ensemble.

1. Thirty-six hours of graduate credits.
2. Mus 8900, Instrumental Conducting Project.
3. A comprehensive examination.

**Students may choose one of two tracks: an orchestral track or a band/visceral ensemble track.**

**CONCENTRATION IN PIANO PEDAGOGY (36-hour program)**

Applicants to this concentration are required to play an audition including works from four historical periods. All works must be performed from memory. Applicants should audition in accordance with the schedule available from the School of Music.

1. Thirty-six hours of graduate credits.
2. A piano proficiency examination to be taken after the second semester of enrollment or twenty hours of study, or successful completion of Mus 6360.
3. Teaching in the Piano Pedagogy Laboratory Program.
4. A piano pedagogy project. Mus 7970, Piano Pedagogy III.
5. A recital. Mus 8420, Piano Pedagogy Degree Recital.
6. A comprehensive examination.

**CONCENTRATION IN SACRED MUSIC (36-hour program)**

Applicants to this concentration must demonstrate performance ability either as organist or choral conductor through an audition or videotape.

1. Thirty-six hours of graduate credits.
3. A comprehensive examination.

**CONCENTRATION IN JAZZ STUDIES (36-hour program)**

Admission to the concentration in jazz studies is based on the audition of one or more of the following: engine competencies, arrangements, written work, auditions, and past professional experience.

A tape or live audition is required. The applicant must have prior experience in improvisation. In the audition, the applicant must demonstrate an acceptable level of proficiency in the styles of swing, bebop, free, and contemporary jazz. The evaluation will take into consideration the applicant’s background, interests, and orientation.

2. Comprehensive examination.

**Orchestral Instrument Performance: (36 hours)**

1. Mus 8490 Chamber or Ensemble Recital, and Mus 8590 Solo Recital
2. Comprehensive examination.

**Voice Performance: (36 hours)**

Applicants must submit undergraduate recital programs and a list of repertoire studied at the undergraduate level.

1. Mus 8590 Solo Recital.
2. Comprehensive examination.

**Other Concentrations:**

**Composition (36 hours)**

Applicants must submit GRE scores, a portfolio of original music scores, and recordings of composed works.

1. A piano proficiency examination to be taken after the second semester of enrollment or 20 hours of study.
2. Mus 8890 Composition Recital.
3. Mus 8910 Final project in composition.

**Choral Conducting (36 hours)**

Applicants must submit the following materials: an audio or video recording of a recent choral concert; at least three printed programs of concerts or church services that have been performed within the last four years; a repertory list of choral music conducted and sung and music performed in applied areas. Each applicant should also have concurrent employment as a choir director. Evidence of such employment should accompany the application.

1. Mus 8690 Choral Conducting Project/Recital.
2. Comprehensive examination.

**Instrumental Conducting (36 hours) (Orchestral or Wind Band Track)**

Applicants must submit the following: a video of a rehearsal and an audiotape or videotape of one or more recent performances by an ensemble that they have conducted; a list of works that they have conducted in the past three years; a list of works performed on their major instrument at the undergraduate level; evidence of current employment as an instrumental conductor or access to an appropriate instrumental ensemble; applicants should expect to demonstrate their conducting and rehearsal techniques in a live performance with their own ensemble or a university ensemble.

1. Mus 8970 Instrumental Conducting Project/Recital.
2. Comprehensive examination.

**Piano Pedagogy (36 hours)**

Applicants to this concentration are required to play an audition including works from four historical periods. All works must be performed from memory.

1. Piano proficiency examination to be taken after the second semester of enrollment or 20 hours of study, or successful completion of Mus 6360 Advanced Keyboard Skills.
2. Teaching in the Piano Pedagogy Laboratory Program.
3. Piano pedagogy project: Mus 7970 Piano Pedagogy III.
4. Recital: Mus 8420 Piano Pedagogy Degree Recital.
5. Comprehensive examination.

Jazz Studies (36 hours)

Admission to the concentration in jazz studies is based on examination of one or more of the following: original compositions, arrangements, scholarly papers, audition, and professional experience.

An audition is required. The applicant must have had prior experience in improvisation. At the audition the applicant must demonstrate an acceptable level of proficiency in the styles of swing, bebop, funk, and contemporary jazz.

1. Thirty-six hours of graduate credit.
2. A final project consisting of a public performance.
3. A comprehensive examination.

Music Education (36 hours)

Each applicant should (1) have either a teaching certificate in music from the state of Georgia or an equivalent certificate, or be eligible to receive such certification, and (2) have concurrent or prior teaching experience of at least one year. Applicants to this concentration must submit acceptable scores from either the Graduate Record Examination or from the Miller Analogies Test.

1. Thirty-six hours of graduate credit.
2. MUS 7210 Directed Study in Music Education.
3. A comprehensive examination.

Applied Music Levels

Applied music at the 6000 (1 credit), 7000 (2 credits), and 8000 (3 credits) levels is available for students who have been admitted to a degree program in the School of Music in Full or Special Graduate Status. Applied music levels carrying one, two, or three hours of credit are assigned to individuals by the School of Music, and lessons are arranged by the student and the assigned instructor. Students should consult the School of Music office for the appropriate course and computer number.

Applicants may obtain additional information about the School of Music by contacting the:

Office of Graduate Studies
School of Music
Georgia State University
P.O. Box 4007
Atlanta, GA 30302-4007
404-651-3133
404-651-3176
http://www.gsu.edu/music/musinfo@music.gsuneo.edu

5. Comprehensive examination.

Jazz Studies (36 hours)

Admission to the concentration in jazz studies is based on examination of one or more of the following: original compositions, arrangements, scholarly papers, audition, and professional experience.

An audition is required. The applicant must have had prior experience in improvisation. At the audition the applicant must demonstrate an acceptable level of proficiency in the styles of swing, bebop, funk, and contemporary jazz.

1. Thirty-six hours of graduate credit.
2. A final project consisting of a public performance.
3. A comprehensive examination.

Music Education (36 hours)

Each applicant should (1) have either a teaching certificate in music from the state of Georgia or an equivalent certificate, or be eligible to receive such certification, and (2) have concurrent or prior teaching experience of at least one year. Applicants to this concentration must submit acceptable scores from either the Graduate Record Examination or from the Miller Analogies Test.

1. Thirty-six hours of graduate credit.
2. A comprehensive examination.

Applied Music Levels

Applied music at the 6000 (1 credit), 7000 (2 credits), and 8000 (3 credits) levels is available for students who have been admitted to a degree program in the School of Music in Full or Special Graduate Status. Applied music levels carrying one, two, or three hours of credit are assigned to individuals by the School of Music, and lessons are arranged by the student and the assigned instructor. Students should consult the School of Music office for the appropriate course and computer number. The 6000-level is generally for secondary study or for students in programs that do not require applied music lessons. The 7000 level is a one-hour lesson per week for students in jazz studies or in programs not requiring applied lessons. The 8000 level is for a one-hour lesson in performance programs. There is an applied music fee of $150 per semester for a one-hour lesson and $75 per semester for a half-hour lesson.
General Catalog 1998-1999

3270 Philosophy

Programs Offered:

- Master of Arts in Philosophy
- Concentration in Brains and Behavior
- Joint Degrees in Master of Arts in Philosophy and Juris Doctor in Law (in cooperation with the College of Law)

Department of Philosophy
Georgia State University
P.O. Box 4089
Atlanta, Georgia 30302-4089
404/651-2277
E-mail: philgrad@gsu.edu
http://www.gsu.edu/philosophy

George Rainbolt, Chair
Timothy O’Keefe, Director of Graduate Studies

The department’s M.A. program serves two different communities of students. First, it serves those who desire the preparation an M.A. provides before seeking admission to a Ph.D. program. Second, it serves those who seek the M.A. as a terminal degree to advance their chosen careers. In addition to a traditional M.A. in Philosophy, the Department offers two special programs: an M.A. in Philosophy with a specialization in empirically based philosophy of mind (the Brains & Behavior Track) and, in conjunction with the College of Law, a J.D./M.A. program. The J.D./M.A. track allows students to receive the M.A. in philosophy and the J.D. in four years instead of five that would normally be required.

Applicants interested in the religious studies track should be aware that it has been phased out. The Department of Philosophy highly recommends that students interested in religion consider applying to the M.A. program in Religious Studies. See Section 3360 of this Catalog. Applicants may obtain additional information about the Department of Philosophy by contacting the Director of Graduate Studies at the addresses above.

Degree Requirements

1. Twenty-seven hours of graduate coursework in philosophy, including (1) at least one course from each of the following three groups: (A) 6220, 6199, 6400, 6606, 6620, (E) 6706, 6650, (E) 6610, 6623, 6125, 6140, 6265, and (2) at least two 600-level courses (not to include 6950 or 8990).
2. Six hours of Phil 8995, Thesis Research.

- Logic requirement
  - Phil 6520 Symbolic Logic
  - Students may obtain credit by examination for this course by passing the departmental examination in symbolic logic.

- History requirement
  - At least one history course. See below for the list of courses in this area.

- Ethics and Social/Political requirement
  - At least one course in ethics or social/political philosophy. See below for the list of courses in this area.

- Metaphysics and Epistemology requirement
  - At least one course in metaphysics or epistemology. See below for the list of courses in this area.
c. Seminar requirement

At least three courses with the word “Seminar” in the title.

3. Six hours of thesis research.
5. An oral thesis defense.

History Courses

- Phil 6010  Plato (3)
- Phil 6020  Aristotle (3)
- Phil 6030  Special Topics in Ancient Philosophy (3)
- Phil 6040  Augustine and Aquinas (3) (Formerly Phil 6120)
- Phil 6050  Topics in Modern Philosophy (3) (Formerly Phil 6150)
- Phil 6055  Hume (3)
- Phil 6060  Kant (3) (Formerly Phil 6160)
- Phil 6070  Marxism (3) (Formerly Phil 6790)
- Phil 6075  Topics in 19th Century Philosophy (3)
- Phil 6080  Wittgenstein (3) (Formerly Phil 6170)
- Phil 6090  Special Topics in Continental Philosophy (3) (Formerly Phil 6190)
- Phil 6095  Topics in Analytic Philosophy (3)
- Phil 8030  Seminar in Ancient Philosophy (3)
- Phil 8050  Seminar in Analytic Philosophy (3)
- Phil 8060  Seminar in Modern Philosophy (3)
- Phil 8090  Seminar in Continental Philosophy (3)

Ethics and Social/Political Courses

- Phil 6650  Religion and Ethics (3)
- Phil 6680  War, Peace, and Religion (3)
- Phil 6700  Ethics (3)
- Phil 6720  Environmental Ethics (3)
- Phil 6740  Advanced Biomedical Ethics (3)
- Phil 6750  Topics in Ethics (3)
- Phil 6800  Social and Political Philosophy (3) (Formerly 6760)
- Phil 6820  Philosophy of Law (3) (Formerly Phil 6720)
- Phil 6822  Topics in Philosophy of Law (3)
- Phil 6830  Philosophy of Art (3)
- Phil 6850  African American Ethical and Legal Issues (3) (Formerly Phil 6750)
- Phil 6860  Philosophical Perspectives on Women (3) (Formerly Phil 6870)
- Phil 6890  Topics in Social and Political Philosophy (3)
- Phil 8700  Seminar in Ethics (3)
- Phil 8740  Seminar in Biomedical Ethics (3)
- Phil 8810  Seminar in Social and Political Philosophy (3)
- Phil 8820  Seminar in Philosophy of Law (3)
- Phil 8870  Seminar in Feminist Philosophy (3)

Metaphysics and Epistemology Courses

- Phil 6100  Epistemology (3) (Formerly Phil 6420)
### Phil 6130  Philosophy of Science (3) (Formerly Phil 6430)

### Phil 6150  Topics in Epistemology (3)

### Phil 6300  Metaphysics (3) (Formerly Phil 6600)

### Phil 6330  Philosophy of Mind (3) (Formerly Phil 6440)

### Phil 6350  Topics in Metaphysics (3)

### Phil 6530  Philosophy of Language (3) (Formerly Phil 6400)

### Phil 8100  Seminar in Epistemology (3)

### Phil 8300  Seminar in Metaphysics (3)

### Phil 8330  Seminar in Philosophy of Mind (3)

### Phil 8520  Seminar in Logic (3)

### Phil 8530  Seminar in Philosophy of Language (3)

### Brains and Behaviors Track

In addition to meeting the requirements noted above, students on the Brains and Behavior track have the following additional requirements:

1. Phil 6330, Philosophy of Mind, or Phil 8330, Seminar in Philosophy of Mind.
2. Six hours at the graduate level in another Brains and Behavior department. (These courses count towards the 27-hour requirement and must be approved, in advance, by the Philosophy Brains and Behavior Faculty and the Philosophy Director of Graduate Studies.)

### The J.D./M.A. Track

The J.D./M.A. track, offered in conjunction with the College of Law at Georgia State University, allows students to receive the M.A. in philosophy and the J.D. in four years instead of the usual five.

The J.D./M.A. track is a demanding course of study. Each student in the track is assigned an adviser from the College of Law faculty and an adviser from the faculty of the Department of Philosophy. Students must work closely with their advisers to make sure that they correctly progress towards the degrees.

1. Nine hours of qualifying courses in law. (The student will, in consultation with her or his advisers, select the most appropriate three courses.)
2. Fifteen hours of graduate coursework in philosophy with the following distribution requirements:
   a. One seminar course.
   b. Either Phil 6700 Ethics or Phil 6800 Social and Political Philosophy.
   c. In addition to the courses taken to fulfill requirements 2.b., at least one of the following courses:
      - Phil 6700 Ethics (3)
      - Phil 6740 Advanced Biomedical Ethics (3)
      - Phil 6820 Philosophy of Law (3) (Formerly Phil 6720) (If the student has already taken Law 7295 Jurisprudence, credit for Phil 6820 will be given only if the J.D. adviser and the M.A. adviser determine that Phil 6820 Philosophy of Law, would not substantially duplicate Law 7295.)
      - Phil 6800 Social and Political Philosophy (3) (Formerly Phil 6760)
      - Phil 6822 Topics in Philosophy of Law (3)
      - Phil 6850 African American Ethical and Legal Issues (3) (Formerly Phil 6750)
      - Phil 6860 Philosophical Perspectives on Women (3) (Formerly Phil 6770)
      - Phil 8700 Seminar in Ethics (3) (Formerly Phil 8400)
      - Phil 8740 Seminar in Biomedical Ethics (3)
      - Phil 8802 Seminar in Classical and Early Modern Political Thought (3)
      - Phil 8804 Seminar in Modern Political Thought (3)
Phil 8810  Seminar in Social and Political Philosophy (3)
Phil 8820  Seminar in Philosophy of Law (3)
Phil 8870  Seminar in Feminist Philosophy (3) (Formerly Phil 8500)
d. Epistemology Requirement—at least one of the following courses:
Phil 6100  Epistemology (3)
Phil 6130  Philosophy of Science (3)
Phil 8100  Seminar in Epistemology (3)
e. Metaphysics Requirement—at least one of the following courses:
Phil 6300  Metaphysics (3) (Formerly Phil 6600)
Phil 6330  Philosophy of Mind (3) (Formerly Phil 6440)
Phil 6530  Philosophy of Language (3) (Formerly Phil 6400)
Phil 8300  Seminar in Metaphysics (3) (Formerly Phil 8150)
Phil 8330  Seminar in Philosophy of Mind (3)
Phil 8530  Seminar in Philosophy of Language (3)

3. Either Phil 6820 Philosophy of Law or Law 7295 Jurisprudence. Phil 6820 Philosophy of Law counts towards requirement 2.C. and Law 7295 Jurisprudence, counts towards requirement 1. (If one of these two courses has been taken, credit for the second will be given only if the J.D. adviser and the M.A. adviser determine that the second would not substantially duplicate the first.)

4. A general examination or an additional seminar course. Students interested in pursuing the Ph.D. are encouraged to take and pass the general examination. An additional seminar course used to satisfy this requirement does not count towards the 24 hours of graduate coursework required for the degree.

5. Six hours of thesis research.

Other Notes Concerning the J.D./M.A. Track

Students must independently meet the admission requirements of the Department of Philosophy and the College of Law. Admission to the College of Law creates no presumption favoring admission to the Department of Philosophy. Admission to the Department of Philosophy creates no presumption favoring admission to the College of Law. Students on the J.D./M.A. track may, if they wish, count one seminar course towards both the seminar requirement and one other requirement. For example, Phil 8300 might fulfill both the seminar requirement and the Metaphysics Requirement.

The Department of Philosophy will only grant credit for those law courses in which the student earns a grade of 80 or higher. Law students may not take any philosophy courses while completing the first year law curriculum. The J.D. degree must be completed within six years of the initial semester of enrollment in the J.D. program. Students enrolled in the J.D./M.A. program may subsequently elect not to pursue both degrees and may remain in either the J.D. or M.A. program, but any hours earned in a degree program from which a student withdraws will not be credited toward a degree granted by the program in which the student remains.

Additional Restrictions Which Apply to All Tracks

1. Only one Phil 8950 Directed Readings course may be counted towards the degree. Additional Phil 8950 courses may be taken but they will not count towards the degree.
2. Other than the exceptions specifically indicated above, only six hours of credit earned outside the Department of Philosophy at Georgia State University may be applied towards the Georgia State M.A. in philosophy.
The M.A. with Distinction

Students who meet all of the following four requirements shall be awarded the M.A. with distinction:

1. A graduate Georgia State philosophy GPA of 3.50 or higher.
2. A thesis that, upon vote of the committee grading the thesis, is judged to merit distinction.
3. The Director of Graduate Studies judges that the student’s record at Georgia State University is one of distinction. Applicants are strongly encouraged to review the additional information about the Department of Philosophy which has been placed on its website, [http://www.gsu.edu/philosophy](http://www.gsu.edu/philosophy).
### Department of Physics and Astronomy

#### Programs Offered:
- **Master of Science**
  - Concentration in Astronomy
- **Doctor of Philosophy**
  - Concentration in Atomic Physics
  - Concentration in Biophysics
  - Concentration in Molecular Physics
  - Concentration in Nuclear Physics
  - Concentration in Condensed Matter Physics
  - Concentration in Astrophysics
  - Concentration in Applied Physics

#### Degree Requirements

##### Master of Science (30-hour program)
1. Twenty-four hours of graduate coursework, which must include the following thirteen hours of 8000-level courses:
   - Phys 8010: Advanced Classical Mechanics (4)
   - Phys 8100: Electromagnetic Theory I (3)
   - Phys 8110: Electromagnetic Theory II (3)
   - Phys 8210: Quantum Mechanics I (3)
   - Phys 8220: Quantum Mechanics II (3)
2. No more than one hour of Astr/Phys 6300 and one hour of Astr/Phys 6310 can be applied to the M.S. degree.
3. Proficiency in a foreign language or in an approved research skill.
4. A general examination.

##### Master of Science, concentration in Astronomy (18-hour program)
1. Twenty-four hours of graduate coursework, which must include:
   - Nine additional hours of 8000-level graduate astronomy courses.
2. No more than one hour of Astr/Phys 6300 and one hour of Astr/Phys 6310 can be applied to the M.S. degree.
3. Proficiency in a foreign language or in an approved research skill.
4. A general examination.

##### Master of Science, non-thesis option (36-hour program)
1. Students pursuing a non-thesis M.S. with a concentration in physics must complete all four of the following core courses and a non-thesis M.S. with a concentration in astronomy must complete Astr 6000 and at least two of the following four more courses:
   - Phys 8010: Advanced Classical Mechanics (4)
   - Phys 8100: Electromagnetic Theory I (3)
   - Phys 8110: Electromagnetic Theory II (3)
   - Phys 8210: Quantum Mechanics I (3)
   - Phys 8220: Quantum Mechanics II (3)
   - All students must also complete at least two of the following courses:
     - Phys 8120: Plasma Physics
     - Phys 8230: Quantum Mechanics II

### 3280 Physics

#### Programs Offered:
- **Master of Science**
  - Concentration in Astronomy
- **Doctor of Philosophy**
  - Concentration in Atomic Physics
  - Concentration in Biophysics
  - Concentration in Molecular Physics
  - Concentration in Nuclear Physics
  - Concentration in Condensed Matter Physics
  - Concentration in Astrophysics
  - Concentration in Applied Physics

#### Degree Requirements

##### Master of Science (30 hours)
1. Twenty-four hours of graduate coursework, which must include the following 13 hours of 8000-level courses:
   - Phys 8010: Advanced Classical Mechanics (4)
   - Phys 8100: Electromagnetic Theory I (3)
   - Phys 8110: Electromagnetic Theory II (3)
   - Phys 8210: Quantum Mechanics I (3)
   - Phys 8220: Quantum Mechanics II (3)
   - Other course requirements may apply for Biophysics and Applied Physics options. Contact the relevant graduate director for details.
2. No more than one hour of Astr/Phys 6300 and one hour of Astr/Phys 6310 can be applied to the M.S. degree.
### Master of Science, Concentration in Astronomy (30 hours)
1. Twenty-four hours of graduate coursework, which must include:
   - b. Nine additional hours of 8000-level graduate astronomy courses.
   - c. No more than one hour of Astr/Phys 6300 and one hour of Astr/Phys 6310 can be applied to the M.S. degree.
2. Proficiency in a foreign language or in an approved research skill.
3. A general examination.
5. A thesis.

### Master of Science, Non-Thesis Option (36 hours)
1. Students pursuing a non-thesis M.S. with a concentration in Physics must complete all four of the following core courses. Students pursuing a non-thesis M.S. with a concentration in Astronomy must complete Astr 6000 and at least two of the following four core courses:
   - Phys 8010 Advanced Classical Mechanics (4)
   - Phys 8100 Electromagnetic Theory I (3)
   - Phys 8110 Electromagnetic Theory II (3)
   - Phys 8210 Quantum Mechanics I (3)
   - All students must also complete at least two of the following courses:
     - Phys 8120 Plasma Physics (3)
     - Phys 8220 Quantum Mechanics II (3)
     - Phys 8310 Statistical Mechanics (3)
     - Phys 8410 Atomic Physics (3)
     - Phys 8510 Solid State Physics (3)
     - Phys 8610 Nuclear Physics (3)
     - Phys 8650 Fundamentals of Particles and Interactions (3)
     - Astr 8000 Stellar Atmospheres (3)
     - Astr 8100 Stellar Structure and Evolution (4)
     - Astr 8200 Galactic Structure (3)
     - Astr 8300 The Interstellar Medium (3)
     - Astr 8400 Extragalactic Astronomy (3)
     - Astr 8600 Stellar Spectroscopy (3)
     - Astr 8700 Relativistic Astrophysics and Cosmology (4)
2. No more than one hour of Astr/Phys 6300 and one hour of Astr/Phys 6310 can be applied to the M.S. degree.
3. Proficiency in a foreign language or in an approved research skill.
4. A general examination.
5. A research paper.

### Doctor of Philosophy in Physics (71 hours beyond the baccalaureate degree)
3. Proficiency in a foreign language or in an approved research skill.
4. A general examination.
5. Six hours of Phys 8999 Thesis Research.

**Doctor of Philosophy in Physics (71 hours beyond the baccalaureate degree)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>Phys 8210</td>
<td>Statistical Mechanics</td>
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<tr>
<td>Phys 8410</td>
<td>Atomic Physics</td>
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<td>Phys 8510</td>
<td>Condensed Matter Physics</td>
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<td>Phys 8610</td>
<td>Nuclear Physics</td>
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<td>Phys 8850</td>
<td>Fundamentals of Particles and Interactions</td>
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<td>Astr 8300</td>
<td>Stellar Atmospheres</td>
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<tr>
<td>Astr 8400</td>
<td>Stellar Structure and Evolution</td>
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<tr>
<td>Astr 8500</td>
<td>Stellar Interiors</td>
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<tr>
<td>Phys 9500</td>
<td>Cosmology</td>
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<tr>
<td>Astr 9600</td>
<td>Relativistic Astrophysics</td>
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<tr>
<td>Phys 8120</td>
<td>Advanced Classical Mechanics</td>
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<tr>
<td>Phys 8130</td>
<td>Advanced Electromagnetic Theory I</td>
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<tr>
<td>Phys 8140</td>
<td>Advanced Electromagnetic Theory II</td>
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<tr>
<td>Phys 8210</td>
<td>Quantum Mechanics I</td>
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<td>Phys 8310</td>
<td>Quantum Mechanics II</td>
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<td>Phys 8410</td>
<td>Quantum Mechanics III</td>
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<td>Phys 8510</td>
<td>Quantum Mechanics IV</td>
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<td>Phys 8610</td>
<td>Quantum Mechanics V</td>
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<td>Phys 8710</td>
<td>Quantum Mechanics VI</td>
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<tr>
<td>Astr 8800</td>
<td>Stellar Spectroscopy</td>
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<tr>
<td>Phys 8900</td>
<td>Stellar Spectroscopy and Cosmology</td>
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</table>

And at least three of the following:

- Phys 8910 Advanced Classical Mechanics
- Phys 8920 Advanced Electromagnetic Theory I
- Phys 8930 Advanced Electromagnetic Theory II
- Phys 8940 Quantum Mechanics I
- Phys 8950 Quantum Mechanics II
- Phys 8960 Quantum Mechanics III
- Phys 8970 Quantum Mechanics IV
- Phys 8980 Quantum Mechanics V
- Phys 8990 Quantum Mechanics VI

And at least three of the following:

- Phys 9000 Advanced Classical Mechanics
- Phys 9010 Advanced Electromagnetic Theory I
- Phys 9020 Advanced Electromagnetic Theory II
- Phys 9030 Quantum Mechanics I
- Phys 9040 Quantum Mechanics II
- Phys 9050 Quantum Mechanics III
- Phys 9060 Quantum Mechanics IV

4. Students seeking a Ph.D. degree in physics must complete:
   1. Phys 8220 Quantum Mechanics III
   2. At least five additional hours of 8000-level physics courses
   3. No more than three hours of Phys 8910 (Directed Study) can count towards this degree.
1. Students must either complete or exempt Phys 6510, 6520, 6810 and 7600. Exemption from these courses may be granted on the basis of testing or of having successfully completed similar courses elsewhere. Students not exempting at least two courses must take more than the 71 minimum hours required for the degree.

2. Students must have competence in the following areas of mathematics: matrix algebra, vector and tensor analysis, partial differential equations, Fourier series and boundary value problems, and complex variables.

3. Students seeking a Ph.D. degree in Physics must complete at least 22 hours of core courses (biophysics or applied physics options may replace some of the core courses with other relevant courses) including:

   Phys 8010 Advanced Classical Mechanics (4)
   Phys 8100 Electromagnetic Theory I (3)
   Phys 8110 Electromagnetic Theory II (3)
   Phys 8210 Quantum Mechanics I (3)
   Phys 8310 Statistical Mechanics (3)

   And two of the following courses with a minimum of six credits. Course choices should be selected after discussion with your research adviser, and approval of the graduate director. Other options may be possible. (Applied Physics options may replace some of the above core courses with other relevant courses). See graduate director for details.

   Astr 6000 Fundamentals of Astrophysics (3)
   Astr 8000 Stellar Atmospheres (3)
   Astr 8100 Stellar Structure and Evolution (3)
   Astr 8200 Galactic Structure (3)
   Astr 8300 The Interstellar Medium (3)
   Astr 8400 Extragalactic Astronomy (3)
   Astr 8700 Relativistic Astrophysics and Cosmology (4)
   Phys 8120 Plasma Physics (3)
   Biol 6094 Developmental Neurobiology (4)
   Biol 6114 Neural Mechanisms of Regulatory Behavior (4)
   Biol 6180 Neurobiology Laboratory (4)
   Biol 6680 Laboratory in Molecular Biological Techniques (4)
   Biol 8060 Behavioral Neuroscience (3)
   Biol 8100 Neuroscience II: Cellular Neurobiology (4)
   Chem 6190 Instrumental Methods III: Spectroscopy (3)
   Chem 6450 Molecular Modeling Methods (3)
   Chem 6650 Biochemistry I (5)
   Chem 6810 Biophysical Chemistry (4)
   Chem 8200 Computational Chemistry (3)

4a. Students seeking a Ph.D. degree in physics must complete:
   Phys 8220 Quantum Mechanics II (3)
   At least 12 additional hours of 8000-level physics courses. No more than three hours of Phys 8910 (Directed Study) can count towards the degree.

4b. Students seeking a Ph.D. degree in Physics with concentration in Biophysics must complete 15 additional hours of 8000 level courses, of which 9 hours must be in the area of concentration. The remaining hours may be in the area of concentration or in physics. No more than three hours of directed study (Phys 8910) can count towards the degree. Students pursuing the Applied Physics option may have to satisfy specific course requirements. Contact the relevant graduate director for details.

5. Satisfactory completion of one hour of Phys 6300 or Astr 6300 (Teaching Physics/Astronomy) and two hours of Phys 6310 or Astr 6310 (Teaching Physics/Astronomy Lab Practicum).

6. A minimum of 20 hours of either Phys 9999 or Astr 9999 (Doctoral Dissertation Research) must be completed.
only 21 counts towards the 71 hours for the Ph.D. Only fifteen hours of Phys 9999 counts towards the 71 hours for the students in Biophysics concentration. The Applied Physics option will have more specific requirements. Contact the research adviser/graduate director for details.

7. Satisfaction of the foreign language/research skill requirement. (Contact the department for details.)

8. Students seeking a Ph.D. degree in Physics must take the physics general examination, administered as a written examination, after taking Phys 8210, 8010, 8100, and either Astr 6000 or Phys 8310, Chem 6190 or Biol 6114. The qualifying exam for the graduate program in Physics with a concentration in Astrophysics or Biophysics will include three out of four exams standard for the Physics program, and will replace the fourth area examination with one in Astrophysics or Biophysics as appropriate. This replacement needs to be approved in advance by the student’s adviser and the Graduate Director of the program.

9. Students pursuing the Ph.D. degree are strongly urged to satisfy the requirements for the M.S. (non-thesis option) as soon as possible after entering the program. See the appropriate director of graduate studies for details.

10. An oral presentation discussing the student’s proposed dissertation research.


Prior to registration each semester, students must be advised by either the chair of the department or the appropriate director of graduate studies.
### 3290 Political Science

**Programs Offered:**
- Master of Arts in Political Science
- General Political Science
- Concentration in American Politics
- Concentration in International and Comparative Politics
- Concentration in Professional Political and Governmental Practices
- Joint Master of Arts in Political Science and Master of International Business (in cooperation with Robinson College of Business)
- Doctor of Philosophy in Political Science

**Department of Political Science**
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E-mail: polgraddirector@langate.gsu.edu
http://www.gsu.edu/~wwwpol

William M. Downs, Chair
Carrie Manning, Director of Graduate Studies

The purpose of the Master of Arts (M.A.) degree program is to guide students in the development of analytical and critical capacities through inquiry into political and governmental processes. The objective of the program is to provide education for persons interested in pursuing careers in teaching, research, or the professional practice of public service and politics. Students may choose either a degree program that will provide them with a general knowledge of the discipline, or one that will provide them with a specialization in international affairs or professional practice of government and politics.

A Doctor of Philosophy (Ph.D.) degree is primarily a teaching and research degree. Students enhance their skills by furthering their knowledge of the literature of the discipline, increasing their methodological ability, and writing a dissertation.

### Additional Admission Requirements

In addition to the general requirements of the College of Arts and Sciences, the Department of Political Science has the following requirements:

1. Applicants to the M.A. degree program must:
   a. Submit acceptable scores on the verbal, quantitative, and analytical sections of the Graduate Record Examination.
   b. Have a 3.0 cumulative undergraduate grade-point average and an academic background in Political Science.
   c. Submit two letters of recommendation from individuals who can evaluate the applicant’s potential to do graduate work in political science.

2. Applicants to the Ph.D. degree program must:
   a. Submit acceptable scores on the verbal, quantitative, and analytical sections of the Graduate Record Examination.
   b. Have a 3.5 cumulative undergraduate grade-point average and an advanced precore coursework in Political Science.
   c. Submit three letters of recommendation from individuals who can evaluate the applicant’s potential to do graduate work in political science.

### Degree Requirements

**MASTER OF ARTS (36-hour program)**

**Tracks:**
- General Political Science
- International Affairs
- Professional Political and Governmental Practices

**Specialization in General Political Science**

2. Seven graduate courses. Students should take one course in each of five areas of study. These areas include American government and politics, comparative politics, international politics, public policy, and administrative and political theory. Two of the seven courses may be taken outside the Department with the approval of the Graduate Director.
3. A general written examination. This examination may be taken once. Students must register the last three hours of Poli 8900 during the semester of the exam.
4. Thesis Options:
   a. A minimum of six hours of Poli 8999, Thesis Research
2. Applicants to the Ph.D. degree program must:
   a. Submit acceptable scores on the verbal, quantitative, and analytical sections of the GRE.
   b. Have a 3.3 cumulative master’s grade-point average and substantial prior coursework in political science, preferably with a thesis.
   c. Submit three letters of recommendation from individuals who can evaluate the applicant’s potential to do graduate work in political science.
   d. Submit official transcripts from all colleges and/or universities attended.
   e. Submit personal statement of goals for political science degree.
   f. Submit a writing sample demonstrating graduate level research capabilities.
   g. Applicants who intend to pursue comparative politics as their major field should have at least one year of college level training in a foreign language.

Degree Requirements
Both masters and doctoral students must be registered for a minimum of three (3) semester hours the semester of completion of all degree requirements.

Master of Arts (33 hours)

American Politics
International and Comparative Politics
Professional Political and Governmental Practices
Joint Master of Arts in Political Science and Master of International Business

General Political Science
1. PoIS 8800 Elements of Research Design and PoIS 8810 Uses of Intermediate Statistical Methods in Political Science Research (3).
2. Seven graduate courses. Students should take one course 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. Two of the seven courses may be taken outside the department, with the approval of the Graduate Director.
3. Thesis Option:
   a. A minimum of six hours of PoIS 8999 Thesis Research.
   b. A thesis, written following successful defense of proposal before three-member faculty committee.
   c. A thesis defense.
4. Non-Thesis Option (Students wishing to pursue a doctoral degree should not choose this option.):
   a. Six hours of additional graduate courses in political science.
   b. A research paper completed according to departmental guidelines.

Specialization in American Politics
1. PoIS 8800 Elements of Research Design and PoIS 8810 Uses of Intermediate Statistical Methods in Political Science Research (3).
Science Research (3).
2. PolS 8100 Seminar in American Politics (3)
3. Six courses chosen from general American offerings, Public Law, American Institutions, or American Political Behavior
4. Thesis Option:
   a. A minimum of six hours of PolS 8999 Thesis Research.
   b. A thesis, written following successful defense of proposal before three-member faculty committee.
   c. A thesis defense.
5. Non-Thesis Option (Students wishing to pursue a doctoral degree should not choose this option):
   a. Six additional hours of graduate courses in American politics
   b. A research paper completed according to departmental guidelines

Specialization in International and Comparative Politics
1. PolS 8800 Elements of Research Design (3) and PolS 8810 Uses of Intermediate Statistical Methods in Political Science Research (3).
2. PolS 8200 Comparative Political Analysis (3) and PolS 8400 International Politics (3).
3. Five courses chosen from the areas of comparative and international politics. Two of these courses may be taken in other departments with the advanced approval of the departmental Director of Graduate Studies.
4. Thesis Option:
   a. A minimum of six hours of PolS 8999 Thesis Research
   b. A thesis, written following successful defense of proposal before three-member faculty committee
   c. A thesis defense.
5. Non-Thesis Option (Students wishing to pursue a doctoral degree should not choose this option):
   a. Six additional hours of graduate courses in comparative and international politics.
   b. A research paper completed according to departmental guidelines

Specialization in Professional Governmental and Political Practices
Based on the belief that career paths in public service and politics require individuals to have multiple professional and political skills, the department offers this concentration. This program is generally pursued as a terminal degree with a non-thesis option. Students wishing to pursue a doctorate, however, should write a thesis.
1. Each student should take 11 courses from the following areas of practice. Six of these courses should be ones with asterisks beside them, and there should be two courses with an asterisk in at least three of the eight areas below. All students must include within the 11 courses the two courses in methods with two asterisks beside them.
   A. Political Communication and Negotiation Practices
      * Public Opinion and Political Communication
      * Political Negotiation
      * Media and Politics
   B. Campaign and Election Practices
      * Electoral Behavior
      * Campaign Organization and Management
      * Survey Research
   C. Lobbying Practices and Group Behavior
      * Studies in American Legislative Process
      * Studies in Political Parties and Interest Groups
Presidential Politics
Southern Politics
African-American Politics
Women and Politics

D. Administrative Practices
* Bureaucratic Politics
* Public Budgeting and Finance
* Administrative Law
  Program Planning and Evaluation
  Comparative Administrative Systems
  Organizational Behavior

E. Federal Practices
* American Constitutional Law
* Seminar in Civil Liberties
* State Government
* Urban Government

American Political Thought

F. Public Policy and Political Economy Practices
* Comparative Political Economy
* Politics of the Environment
* Politics of Social Welfare
* Politics of Education
* Studies in Public Policy

G. International and Comparative Practices
* International Political Economy
* International Law
* International Development
* International Organizations
* European Politics
* Latin American Politics
* U.S.-China Relations
* Asian Politics
* Middle East Politics
* African Politics
* U.S. Foreign Policy

H. Methodological Practices
** Research Design
** Intermediate Statistics
  Survey Research
  Applied Political Research and Demography
  Studies in Political Research

** Internship (3 or 6 hours)

2. Up to three courses in departments outside of Political Science may be used if relevant and with permission of the Graduate Director.

3. A non-thesis research paper completed according to departmental guidelines

4. Students may earn credentials in each of the following areas of professional political practice:
A. Political Communication and Campaigning
   Requirements: Take five courses from areas A, B, and C above and have a grade point average of 3.3 in those courses.

B. American Federalism and Administrative Practices
   Requirements: Take five courses in Areas D and E and earn a grade point average of 3.3 in those courses.

C. Policy Analysis and Political Economy
   Requirements: Take five courses in Area F and H (not including Research Design and Intermediate Statistics) and earn a grade point average of 3.3 in those courses.

D. International and Comparative Practices
   Requirements: Take five courses in Area G and earn a grade point average of 3.3 in those courses.

E. Applied Methodological and Social Science Statistical Skills
   Requirements: Take five courses from Area H in Professional Practices curriculum and earn a grade point average of 3.3 in those courses.

Joint Master of Arts in Political Science and Master of International Business

The purpose of this joint degree is to prepare students for business and/or governmental careers in the new global economy. Increasingly, international businesses in nation-states just as national politics and international agreements impact business operations. The joint curriculum that this program offers proposes to combine political economy and international processes in order to meet this emerging educational and professional need.

Each student must apply and be accepted separately to the graduate programs of the Department of Political Science and the Department of International Business. Students must complete the requirements for each degree. For students who are applying to the political science program as part of the joint degree program, GMAT scores may be submitted instead of GRE scores. Upon completion of the requirements, students will be awarded both a master’s in political science and a master’s in international business. The joint degree program allows students to use some courses in each department to satisfy the requirements of the other. Students reduce the total number of credit hours needed to complete both programs from 66 to 48 by pursuing the joint degree. Please see the Master of International Business section for more information on the International Business degree.

Degree Requirements

1. PolS 8800 Elements of Research Design (3)
   PolS 8810 Uses of Intermediate Statistical Methods in Political Science Research (3)
2. PolS 8200 Comparative Political Analysis (3)
   PolS 8400 International Politics (3)
3. Seven courses (21 hours) from the areas of comparative and international politics. The Department of Political Science will accept the three required courses in the Master of International Business curriculum toward the 21 hours required for the elective coursework portion of the degree.
4. A thesis completed according to departmental guidelines (students register for 6 hours of Thesis Research, PolS 8999), or a non-thesis research paper (requiring 2 additional courses in comparative or international politics) completed according to departmental guidelines.

Doctor of Philosophy

1. PolS 8800 Elements of Research Design (3)
   PolS 8810 Uses of Intermediate Statistical Methods in Political Science Research (3)
2. A minimum of thirty hours beyond the M.A., excluding PolS 8800 and PolS 8810. All students must take at
least three of the five core field courses offered by the department, which include: PolS 8100 (American), PolS 8200 (Comparative), PolS 8400 (International), PolS 8700 or PAUS 9331 (Public Administration), and PolS 8560 or 8570 (Classical or Modern Political Thought).

3. Written examinations in three of the following fields: American government and politics, comparative politics, international politics, public policy and administration, and political theory. All students are expected to take their comprehensive exams after completing no more than 42 credit hours of coursework in political science at Georgia State beyond the MA. In order to take these exams, a student must have a 3.4 grade-point average in political science courses taken in the Ph.D. program at Georgia State University. Students who do not have the required 3.4 GPA for graduate Political Science courses taken at Georgia State after 30 hours will be issued a scholastic warning. Students who have failed to achieve the required 3.4 GPA to take the comprehensive exams after 42 hours will be subject to scholastic termination. Students must also have taken at least three courses in each of their examining fields in preparation for the comprehensive exams. Students may choose to take examinations in two fields if they also take a subfield examination in one of these two fields. Students must register for PolS 8900 during the semester of the exams. Students may take the exams twice if necessary.

4. Oral examination in each of the written comprehensive examination fields.

5. Satisfaction of the foreign language and research skill requirement: In addition to the required PolS 8800 and 8810, students must demonstrate further research competency by either taking one additional methodology course (to be approved by the Graduate Director) or passing a foreign language proficiency examination administered by the Department of Modern and Classical Languages. Ph.D. students with a major in Comparative Politics must present a foreign language. The Department strongly urges students to complete this requirement before taking the comprehensive examination.

6. Twenty hours of PolS 8999 Thesis Research. Students must defend a dissertation proposal by the end of the second semester after having completed the oral comprehensive exam.

7. Dissertation written and approved by a three-member faculty committee according to departmental guidelines.
3300 Psychology

Programs Offered:
- Master of Arts in Psychology
  - Doctor of Philosophy in Psychology
  - Concentration in Clinical Psychology
  - Concentration in Community Psychology
  - Concentration in Developmental Psychology
  - Concentration in Neuropsychology and Behavioral Neuroscience
  - Concentration in Social and Cognitive Psychology

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David Washburn, Chair
Marise Parent, Director of Graduate Studies

The Department of Psychology offers courses of study leading primarily to the Doctor of Philosophy (Ph.D.) degree. A Master of Arts (M.A.) degree is completed by students as part of their course of study. The master’s level education of graduate students focuses on basic psychological knowledge and methodologies common to the science and profession of psychology in general. Although students typically begin more specialized coursework at this level, the master’s degree is intended as preparation toward continuing graduate study toward the doctoral degree.

Doctoral students may then undertake more specialized coursework and supervised experiences in the Department’s five program areas. The program areas are Clinical Psychology, Developmental Psychology, Neuropsychology and Behavioral Neuroscience, and Social/Cognitive Psychology. The areas of specialization within the program areas are defined by the interests of the faculty and will change as the interests of the faculty change. This reflects the intent of the faculty that the affairs of the department will be conducted within a scholarly context that encourages diversity, growth, and change.

The facilities of the department permit work in cognition, development, neuropsychology, learning, infant behavior, sensation and perception, evocative, aging, social psychology, assessment, individual psychotherapy, group and family therapy, behavior therapy, and community psychology. Students may work with both human and nonhuman populations. Human populations include all age ranges and a variety of ethnic and socioeconomic backgrounds. Nonhuman populations include several species ranging from humans to the great apes.

The graduate program in clinical psychology is accredited by the American Psychological Association. A specialization program of study in clinical psychology is offered to psychologists who have earned the Doctor of Philosophy degree from the Department of Psychology at an accredited institution.

Policy on Nondegree Admission:

Students must take no more than six hours of coursework in nondegree status without permission from the Department of Psychology.

Applicants must be admitted to the degree program and must apply for admission to a graduate degree program in the department for one year following the semester in which the nondegree coursework was taken. Applications for nondegree admission may be obtained from the Department of Psychology. Application deadlines for nondegree status are the same as the general deadlines for the College of Arts and Sciences and can be found in the section of this catalog entitled "Admission Policies."

Admission Deadlines for the 1998-99 and 1999-2000 Academic Years

Clinical Psychology Program:

Applications for the Clinical Psychology program are considered for the fall semester only. Applications must meet two deadlines. First, the applications for graduate study and the GAS applications for the fall semester must be received by December 1, 1997, for admission in the fall semester of 1998. Second, all supporting materials (transcripts, letters, and supplemental forms) must be postmarked by January 31, 1998, for fall semester 1998 and January 31, 1999, for fall semester 1999.

Community Psychology Program:

Applications for Community Psychology are accepted for the fall semester only. The deadline is March 1, 1998, for fall semester 1998. Applicants seeking the joint admission to the Clinical and Community Psychology programs must meet the Clinical Psychology Program deadlines. For fall semester 1999, the deadlines are the same as described for the Clinical Psychology Program for both Community Psychology and joint Clinical/Community Psychology.

The graduate program in clinical psychology is accredited by the American Psychological Association. Applicants may obtain additional information about the Department of Psychology by contacting the Director of Graduate Studies at the address above.
Policy on Non-Degree Admission

Students may take no more than six hours of coursework in non-degree status without petitioning the department for an exception to this policy. Students enrolled in non-degree status in a psychology graduate course may not at the same time be applicants to a degree program and may not apply for admission to a graduate degree program in the department for one year following the semester in which the non-degree course was taken. Applications for non-degree admission may be obtained from the College of Arts and Sciences. Application deadlines for non-degree status are the same as the general deadlines for the College of Arts and Sciences and can be found in the section of the catalog entitled “Admission Policies.”

Admission Deadlines

Applications for all programs are considered for the fall semester only. The Application for Graduate Study, $50 application fee, and all supporting materials (transcripts, GRE scores, letters, and supplemental form) must be postmarked by the posted deadline for admission the following fall.

Additional Admission Requirements

In addition to the general requirements of the College of Arts and Sciences, the Department of Psychology has the following requirements:

1. Applicants are expected to have a background in psychology, although an undergraduate major is not required. A minimum of four courses in required psychology statistics, a course in research methods in psychology, plus two or more content courses in psychology on the junior or senior level. It is recommended that applicants to the clinical program take abnormal psychology and one of the content courses.

2. The applicant must submit scores that are well above average on the Graduate Record Examination.

3. A student in possession of a graduate degree or coursework who is admitted to graduate study may be accorded advanced standing after an evaluation of previous graduate work. The evaluation ordinarily will be conducted during the first semester of enrollment. The student’s previous graduate work did not include courses equivalent to the required core courses and a thesis, these will be required. Students given full credit for master’s work elsewhere will have one year in which to complete all work stipulated as conditions of admission or transfer of credit.

4. Each student must fill out the Supplementary Form for Graduate Study in Psychology.

Degree Requirements

Master of Arts (33 hours)

A complete statement of the departmental requirements for the Master of Arts degree may be obtained from the Department of Psychology. General requirements are indicated below. Satisfactory progress through the program is expected in a timely manner, and when students fail to meet progress guidelines set by the department they may be dismissed. Furthermore, there are departmental regulations concerning maintenance of active status, leaves of absence, and reentry into the program. Graduate students must be aware of these regulations. The M.A. degree requires a thesis and thirty-six hours of coursework as outlined below.

1. Fifteen hours of core courses.
2. Twelve additional hours of graduate psychology courses.
3. Nine hours of Psyc 8999, Master’s Thesis Research.

Doctor of Philosophy

A complete statement of the departmental requirements for the Master of Arts and Doctor of Philosophy degrees may be obtained from the Department of Psychology. General requirements are indicated below. Satisfactory progress through the program is expected in a timely manner, and when students fail to meet progress guidelines set by the department they may be dismissed. Furthermore, there are departmental regulations concerning maintenance of active status, leaves of absence, and reentry into the program. Graduate students must be aware of these regulations. The M.A. degree requires a thesis and 33 hours of coursework as outlined below:

1. Fifteen hours of core courses.
2. Twelve additional hours of graduate psychology courses.
3. Six hours of Psyc 8999 Master’s Thesis Research.
A minimum of 95 post-baccalaureate hours, 62 of which must be taken at Georgia State University, are required for the Doctor of Philosophy degree. Credit for up to 33 hours is possible for students with master’s degrees from other institutions with the approval of the departmental Graduate Program Committee and the College of Arts and Sciences Division of Graduate Studies. Upon petition, 6 hours of work may be taken at other institutions. Students meeting particular program area requirements frequently find it necessary to take more than the minimum of 95 hours of credit.

Additional requirements include:

1. A master’s degree based on a written thesis.
2. A minimum of one year’s full-time residence.
3. Sixty-two credit hours of coursework beyond the master’s degree.
4. Nine hours of Psyc 9980, Readings for General Examination.
5. Twenty hours of Psyc 9999, Doctoral Dissertation Research.
6. Satisfactory completion of the foreign language requirement.
7. A general examination, which consists of both written and oral parts, to be taken after the student has completed the coursework required by the program.
10. Clinical Psychology students: one year of internship at a site approved by the American Psychological Association. (The majority of these sites are outside the state of Georgia.)

A minimum of 95 post-baccalaureate hours, 62 of which must be taken at Georgia State University, are required for the Doctor of Philosophy degree. Credit for up to 33 hours is possible for students with master’s degrees from other institutions with the approval of the departmental Graduate Program Committee and the College of Arts and Sciences Division of Graduate Studies. Upon petition, 6 hours of work may be taken at other institutions. Students meeting particular program area requirements frequently find it necessary to take more than the minimum of 95 hours of credit.

Additional requirements include:

1. A master’s degree based on a written thesis.
2. A minimum of one year’s full-time residence.
3. Sixty-two credit hours of coursework beyond the master’s degree.
4. Nine hours of Psyc 9980, Readings for General Examination.
5. Twenty hours of Psyc 9999, Doctoral Dissertation Research.
6. A general examination, which consists of both written and oral parts, to be taken after the student has completed the coursework required by the program.
9. Clinical Psychology students: one year of internship at a site approved by the American Psychological Association. (The majority of these sites are outside the state of Georgia.)

Applicants may obtain additional information about the Department of Psychology by contacting the:

Graduate Admission Advisor
Department of Psychology
Georgia State University
University Plaza
Atlanta, Georgia 30303
404-651-5599
http://www.gsu.edu/psych
email: psycadm@gsu.edu
Founded in the past century, the modern field of Religious Studies endeavors to better understand religion by means of modern academic approaches. The Department of Religious Studies offers a Masters of Arts in Religious Studies that trains students in a range of world religious traditions and theoretical perspectives. All students gain a general understanding of comparative approaches to the study of religion while having the opportunity to specialize in one or more specific religion(s). Graduates of the program have gone on to study at Harvard, Yale, Oxford, Cambridge, Chicago, Berkeley, and other top graduate programs and have entered successful careers in such fields as academia, international journalism, immigration law, public service, and the ministry.

Students who plan to seek a Ph.D. in the field are strongly encouraged to discuss their intentions with the Religious Studies faculty as soon as possible so that a course of study can be determined to prepare them for doctoral work. Applicants may obtain additional information about the Department of Religious Studies by contacting the Director of Graduate Studies at the addresses above.

Additional Admissions Requirements
In addition to the general requirements of the College of Arts and Sciences, the Department of Religious Studies has the following requirements:
1. Three letters of recommendation addressing the ability of the student to undertake graduate study.
2. All applicants should submit a sample of their written work. See the electronic application for details.

Degree Requirements
In order to receive the Masters of Religious Studies, a student must complete 30 hours of coursework. These courses must include:
1. Twenty-four hours of non-thesis course work. As part of these twenty-four hours, a student successfully must complete:
   a. One course in approaches to the study of religion:
      ReS 620   Theories of Religion (3)
      ReS 6260  Religion and Literature (3)
      ReS 6630  Comparative Study of Mysticism (3)
RelS 6650 Religion and Ethics (3)
b. One course in comparative themes in religion:
   RelS 6240 Death and the Afterlife (3)
   RelS 6270 Women and Religion (3)
   RelS 6290 Pilgrimage (3)
   RelS 6670 Church and State (3)
   RelS 6680 War, Peace and Religion (3)
c. At least one course from each of the following areas (6):
   Western Religious Traditions: RelS 6040, RelS 6200, RelS 6210, RelS 6215, RelS 6250, RelS 6260, RelS 6450, RelS 6460, RelS 6480, RelS 6490, RelS 6570, RelS 6580
   Eastern Religious Traditions: RelS 6610, RelS 6612, RelS 6615, RelS 6620, RelS 6625, RelS 6628
d. RelS 8210 Seminar in Religious Studies (3)
e. Additional electives from either Religious Studies or affiliated courses (see below) to bring the total to twenty-four hours. Because the interests and goals of each student are distinct, students are highly encouraged to consult their academic adviser when selecting courses to complete the program of study.

2. Six hours of RelS 8999 Thesis Research
3. A thesis
4. An oral thesis defense

Affiliated Courses
Most students will concentrate their coursework within the Religious Studies Department. (See course listings under Religious Studies later in this catalog.) Other departments and programs within Georgia State University also offer courses directly bearing on the academic study of religion. When Religious Studies Masters students satisfy the prerequisites for the courses, they may take and have applied toward their degree requirements, no more than two of the following non-departmental courses:

   Anth 6070 Beliefs, Symbols, and Systems of Thought (4)
   Anth 6210 Native Cultures of North America (3)
   AH 6000 African Art (3)
   AH 6010 Art of Ancient Egypt and Nubia (3)
   AH 6011 Art and Architecture of Ancient Egypt I: 4000–1600 B.C. (3)
   AH 6012 Art and Architecture of Ancient Egypt II: 1600–31 B.C. (3)
   AH 6020 Art and Architecture of the Ancient Near East (3)
   AH 6200 Art and Architecture of the Middle Ages (3)
   AH 6310 Art of Northern Europe in the Renaissance Era (3)
   Engl 8290 Topics in Medieval Literature (3)
   Engl 8390 Milton (3)
   Folk 6110 Irish Folk Culture (3)
   Folk 8200 Folklore (3)
   Geog 6404 Geography of East Asia (4)
   Geog 6408 Geography of the Middle East and North Africa (4)
   Hist 6920 Oral History (4)
   Hist 8210 Seminar in European Medieval History (4)
   Hist 8430 Seminar in South Asian History (4)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hist 8440</td>
<td>Seminar in East Asian History</td>
<td>4</td>
</tr>
<tr>
<td>Hist 8450</td>
<td>Seminar in Middle Eastern History</td>
<td>4</td>
</tr>
<tr>
<td>Mus 6300</td>
<td>Music, Liturgy, and Theology</td>
<td>3</td>
</tr>
<tr>
<td>Phil 6300</td>
<td>Metaphysics</td>
<td>3</td>
</tr>
<tr>
<td>Phil 8090</td>
<td>Seminar in Continental Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PoIS 8215</td>
<td>Politics of Peace</td>
<td>3</td>
</tr>
<tr>
<td>PoIS 8260</td>
<td>Politics of the Middle East and North Africa</td>
<td>3</td>
</tr>
<tr>
<td>Soci 8122</td>
<td>Death, Dying and Loss</td>
<td>3</td>
</tr>
<tr>
<td>Soci 8156</td>
<td>Sexuality and Society</td>
<td>3</td>
</tr>
<tr>
<td>Soci 8212</td>
<td>Race and Ethnic Relations</td>
<td>3</td>
</tr>
<tr>
<td>Soci 8220</td>
<td>Social Movements</td>
<td>3</td>
</tr>
<tr>
<td>Soci 8360</td>
<td>Sociology of Religion</td>
<td>3</td>
</tr>
<tr>
<td>WSt 6210</td>
<td>Women in Cross-Cultural Perspective</td>
<td>3</td>
</tr>
<tr>
<td>WSt 6370</td>
<td>Women and Religion</td>
<td>3</td>
</tr>
<tr>
<td>WSt 8002</td>
<td>Globalization and Gender</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: While the above courses have particular pertinence to the Masters in Religious Studies, not all listed courses will be appropriate for the program of study of every student. Students should select courses in consultation with their advisers. Additionally, courses not included on the above list may be appropriate to the program of study of certain students within the Religious Studies M.A program. Upon approval of the Director of Graduate Studies, such courses may be counted toward the degree on a case-by-case basis.

**Restrictions**

1. Only six hours of credit transferred from another institution may be applied towards the Georgia State M.A.
2. Of the hours taken at Georgia State and applied toward the M.A, no more than six hours may be from outside the Department of Religious Studies.

**Foreign Language Competencies**

Depending upon their area(s) of concentration, students who wish to go on to pursue a Ph.D. in Religious Studies may need to initiate or complete studies in a particular language or languages before beginning doctoral studies. Students are urged to consult with their advisers for advice and direction concerning language competencies.

**The M.A. with Distinction**

Students who meet all of the following requirements shall be awarded the M.A. with distinction:

1. A graduate Georgia State GPA of 3.50 or higher in courses applicable to the Religious Studies M.A.
2. A thesis that, upon vote of the committee grading the thesis, is judged to merit distinction.
3. A determination by the Director of Graduate Studies that the student’s graduate record at Georgia State University is one of distinction.

Applicants are strongly encouraged to review the additional information about the Department of Religious Studies which is on its website at [http://www.gsu.edu/religion](http://www.gsu.edu/religion).
The Department of Sociology offers the Master of Arts (M.A.) degree program and the Doctor of Philosophy (Ph.D.) degree programs, providing students with both a broad exposure to the discipline of sociology as well as an in-depth study in special areas of expertise. The broad knowledge of sociology comes through course work in a variety of substantive areas, as well as through training in research methodology, statistics, and theory. Most of the faculty’s interest and expertise lies in two broad areas: Family, Health, and the Life Course and Social Conflict and Inequality. The Department’s approach is to enable students to apply sociological principles in a real-world environment and to foster a close working relationship between faculty and graduate students. The Department of Sociology has established a Program for the Study of Social and Cultural Change (PSSCC) to support research, writing, and collaboration. PSSCC brings together students and faculty for social change through a wider audience and draws outside scholars and agendas into collaborative efforts with the Department.

The goal of the Department is to provide the following: (1) a general intellectual foundation that supports the student’s analytic understanding of social life; (2) a sound methodological background that prepares the student for social research and policy evaluation; and (3) a rich and specialized body of knowledge that equips the student for the practice of sociology in both the public and private sectors. Students are offered many opportunities to become actively involved in the discipline at the state, regional, or national levels.

The Master of Arts (M.A.) degree program prepares students for positions in research, middle-level management, community service, or continued education toward a doctoral degree. The Doctor of Philosophy (Ph.D.) degree program prepares students for careers in teaching, research, community service, or management.

Additional Admission Requirements
In addition to the general requirements of the College of Arts and Sciences, the Department of Sociology has the following requirements:

1. Students applying for the Master of Arts program:
   a. Applicants must submit scores on the verbal, quantitative, and analytical sections of the Graduate Record Examination.
   b. Although an undergraduate major in sociology is not required, applicants must have completed undergraduate courses in research methodology and social statistics. Applicants seeking the Master of Arts degree who have not completed these courses should complete them at another school or apply for and complete them at postgraduate level at State University.
   c. Applicants must complete the supplementary application form provided by the Department of Sociology.
   d. Two letters of recommendation are required.
   e. Applicants are encouraged to submit a sample of their written work.

2. Students applying for the Doctor of Philosophy program:
   a. Applicants must submit scores on the verbal, quantitative, and analytical sections of the Graduate Record Examination.
   b. Although a master’s degree in sociology is not required, only students who have an accredited master's degree, or who have nearly completed the master's degree will be considered. For the Ph.D. program on M.A. degree, applicants must have successfully entered the Ph.D. program. Applicants must complete undergraduate course work in research methodology and social statistics, and if they have not had a master’s level course work in methodology, then they must complete these additional courses prior to enrolling in Ph.D. courses in these areas.
   c. Applicants must complete the supplementary application form provided by the Department of Sociology.
   d. Applicants must submit three letters of recommendation from those personally acquainted with the applicant’s achievements.
   e. Applicants must submit a sample of their written scholarly work (e.g., their master’s thesis or a term research paper).

The Department of Sociology offers the Doctor of Philosophy (Ph.D.) degree program and the Master of Arts (M.A.) degree program, providing students with both a broad exposure to the discipline of sociology as well as an in-depth study in special areas of expertise. Qualified students are accepted into the Ph.D. program after their completion of either a baccalaureate degree (Joint M.A./Ph.D. Track) or a master's degree (Ph.D.-Only Track). Qualified students are also accepted into the M.A. program after their completion of a baccalaureate degree (M.A.-Only Track). The broad knowledge of sociology comes through coursework in a variety of substantive areas, as well as through training in research methodology, statistics, and theory. Most of the faculty’s interest and expertise lie in three broad areas: (1) Family, Health, and the Life Course, (2) Gender and Sexuality, and (3) Race and Urban Studies. The Department’s approach is to enable students to apply sociological principles in a real-world environment and to foster a close working relationship between faculty and graduate students.

The goal of the department is to provide the following: (1) a general intellectual foundation that supports the student’s analytic understanding of social life; (2) a sound methodological background that prepares the student for social research and policy evaluation; and (3) a rich and specialized body of knowledge that equips the student for the practice of sociology in both the public and private sectors. Students are offered many opportunities to become actively involved in the discipline at the state, regional, or national levels.

The Doctor of Philosophy (Ph.D.) degree prepares students for careers in teaching, research, community service, or management. The Master of Arts (M.A.) degree prepares students for positions in research, middle-level management, community service, or continued education toward a doctoral degree.

Applicants may obtain additional information about the Department of Sociology by contacting the Director of Graduate Studies at the addresses above.
Additional Admission Requirements

In addition to the general requirements of the College of Arts and Sciences, the Department of Sociology has the following requirements:

1. Students applying for the Master of Arts program (M.A.-Only Track):
   a. Applicants must submit scores on the verbal, quantitative, and analytical sections of the Graduate Record Examination.
   b. Although an undergraduate major in sociology is not required, applicants should have completed undergraduate courses in research methods and social statistics. Applicants seeking the Master of Arts degree who have not completed these courses can complete them at another school or apply for and complete them in post baccalaureate status at Georgia State University.
   c. Applicants must complete the supplementary application form provided by the Department of Sociology.
   d. Two letters of recommendation, preferably from faculty personally acquainted with the applicant’s academic achievements.
   e. Applicants are encouraged to submit a sample of their written work.

2. Students applying for the Doctor of Philosophy program from a baccalaureate program (Joint M.A./Ph.D. Track):
   a. Applicants must submit scores on the verbal, quantitative, and analytical sections of the GRE.
   b. Although an undergraduate major in sociology is not required, applicants should have completed undergraduate courses in research methods and social statistics. Applicants seeking the Doctor of Philosophy degree who have not completed these courses can complete them at another school or apply for and complete them in post baccalaureate status at Georgia State University.
   c. Applicants must complete the supplementary application form provided by the Department of Sociology.
   d. Applicants must submit three (3) letters of recommendation from faculty personally acquainted with the applicant’s academic achievements.
   e. Applicants must submit a sample of their written scholarly work (e.g., their term/research paper).

3. Students applying for the Doctor of Philosophy program from a master’s program (Ph.D.-Only Track):
   a. Applicants must submit scores on the verbal, quantitative, and analytical sections of the Graduate Record Examination.
   b. Although a master’s degree in sociology is not required, only students who have an accredited master’s degree, or who have nearly completed the master’s degree, will be considered for the Ph.D. program. Applicants should have completed master’s level coursework in research methods, statistics, and sociological theory. If they have not had these courses, they must complete them as additional courses prior to enrolling in Ph.D. courses in these areas.
   c. Applicants must complete the supplementary application form provided by the Department of Sociology.
   d. Applicants must submit three (3) letters of recommendation from faculty personally acquainted with the applicant’s academic achievements.
   e. Applicants must submit a sample of their written scholarly work (e.g., their Master’s thesis or term/research paper).

Degree Requirements

M.A.-Only Track

Thirty-six semester credit hours (26 semester hours of course work and 12 semester hours of non-course work including thesis proposal and thesis research hours) beyond the Baccalaureate degree, consisting of a Master’s Core (A), Master’s Electives (B), and Other Master’s Requirements (C).

A. Master’s Core Required Course Work (12 hours):
   Soci 8000  Proseminar in Sociology (3)
DOCTOR OF PHILOSOPHY

Sixty-nine (69) semester credit hours beyond the Master of Arts degree, consisting of a Doctoral Core plus Specialty Course Work (B or C).

A. Doctoral Core Required Course Work (18 hours):
- Soci 5910: Multivariate Sociological Data Analysis (6 hours)
- Soci 8920: Advanced Research Methodology (3 hours)
- Soci 8930: Sociological Theory I (3 hours)

NOTE: The prerequisites for Soci 8920: Advanced Research Methodology in Soci 3020: Research Methodology, the prerequisite for Soci 5910: Multivariate Sociological Data Analysis in Soci 8010: Intermediate Sociological Statistics, and the prerequisites for Soci 8930: Sociological Theory I in Soci 8030: Sociological Theory I, if a student has not completed a prerequisite (or its equivalent) in their M.A. program, then the needed prerequisite course must be completed first, and the credit hours for it may not be applied toward the doctoral degree. Students who do not have an M.A. degree in sociology must complete Soci 8000: Proseminar in Sociology, and the credit hours for it may not be applied toward the doctoral degree.

B. Social Conflict and Inequality Specialty (SCI Specialty)

1. SCI Required Course Work (6 hours)
   Soci 2001: Social Inequality
   Soci 2002: Social Conflict

2. SCI Electives (12 hours)
   Soci 6279: Metropolitan Atlanta
   Soci 6280: Work and Occupations
   Soci 6281: Industrial Sociology
   Soci 6212: Race and Ethnic Relations
   Soci 6316: Sociology of Gender
   Soci 6318: Political Sociology
   Soci 6326: Social Movements
   Soci 6322: Deviance and Social Control
   Soci 6324: Criminology
   Soci 6224: Urban Sociology
   Soci 6229: Contemporary Urban Research
   Soci 6256: Medical Sociology
   Soci 6253: Poverty and Wealth

Soci 8010: Intermediate Sociological Statistics (3)
Soci 8020: Research Methodology (3)
Soci 8030: Sociological Theory I (3)

NOTE: If a student needs to take Soci 3010: Social Statistics, Soci 3020: Research Methods, and/or Soci 3030: Sociological Theory (or their equivalents, as determined by the Director of Graduate Studies), these courses must be taken as non-credit prerequisites for Soci 8010, Soci 8020, and Soci 8030.

B. Master’s Elective Course Work (12 hours or 4 courses):
   Students with post-Bachelor’s degree course work from other accredited institutions may petition to transfer up to 6 hours (2 courses) of course work towards the M.A. degree following petition to, and approval by, the departmental Director of Graduate Studies. With the approval of the departmental Director of Graduate Studies, up to 6 hours (2 courses) may be taken in a related field or fields and/or up to 6 hours of Soci 8970 Directed Readings may be taken.

C. Other Master’s Requirements (12 hours of non-course work):
   Soci 8998: Thesis Proposal (3)
   Soci 8999: Thesis Research (9)
   A thesis proposal and oral defense.

NOTES:
1. Students must maintain a cumulative grade point average of 3.0 (“B”) or better and must receive a grade of B or better in each of the required courses. If a student receives a grade below a B in a required course, the student must repeat the course the very next time the course is offered to rectify the grade.
2. The total number of hours must include a minimum of 30 hours in sociology, 18 hours of which must have been earned in regularly scheduled courses in the Department of Sociology at Georgia State University.
3. Students must register for Soci 8990 Research Practicum and Soci 8981 Teaching Practicum while they are appointed as a GRA, GTA, and/or GLA.
4. Students must take 2 hours of Soci 8000 in the Fall semester and 2 hours of Soci 8000 in the Spring semester of their first year in the M.A.-Only Program.

Joint M.A./Ph.D. Track

One hundred and eight semester credit hours (61 semester hours of course work and 47 semester hours of non-course work including thesis proposal, thesis research, qualifying examination readings, dissertation proposal, and dissertation research hours) beyond the Baccalaureate degree, consisting of a Master’s Core (A), Master’s Electives (B), Other Master’s Requirements (C), Doctoral Core (D), Doctoral Specialty Core (E, F, or G), Doctoral Electives (H), and Other Doctoral Requirements (I).

A. Master’s Core Required Course Work (12 hours):
   Soci 8000: Proseminar in Sociology (3)
   Soci 8010: Intermediate Sociological Statistics (3)
   Soci 8020: Research Methodology (3)
   Soci 8030: Sociological Theory I (3)

NOTE: If a student needs to take Soci 3010: Social Statistics, Soci 3020: Research Methods, and/or Soci 3030: Sociological Theory (or their equivalents, as determined by the Director of Graduate Studies), these courses must be taken as non-credit prerequisites for Soci 8010, Soci 8020, and Soci 8030.

B. Master’s Elective Course Work (12 hours or 4 courses):
   Students with post-Bachelor’s degree course work from other accredited institutions may petition to transfer up to 6 hours (2 courses) of course work towards the M.A. degree following petition to, and approval by, the departmental Director of Graduate Studies. With the approval of the departmental Director of Graduate Studies, up to 6 hours (2 courses) may be taken in a related field or fields and/or up to 6 hours of Soci 8970 Directed Readings may be taken.
C. Other Master's Requirements (12 hours of non-course work):
Soci 8998 Thesis Proposal (3)
A thesis proposal and oral defense.
Soci 8999 Thesis Research (9)
A thesis and oral defense.

D. Doctoral Core Required Course Work (16 hours):
Soci 8201 Social Inequality (3)
Soci 8342 Qualitative Methods in Sociology (3)
Soci 9010 Multivariate Sociological Data Analysis (4)
Soci 9020 Advanced Research Methodology (3)
Soci 9030 Sociological Theory II (3)

E. Family, Health, and Life Course (FHLC) Specialty Required Course Work (6 hours):
Soci 8101 Family Sociology (3)
Soci 8102 Life Course Sociology (3)

F. Gender and Sexuality (GS) Specialty Required Course Work (6 hours):
Soci 8156 Sexuality and Society (3)
Soci 8216 Gender and Society (3)

G. Race and Urban Studies (RUS) Specialty Required Course Work (6 hours):
Soci 8212 Race and Ethnic Relations (3)
Soci 8226 Urban Sociology (3)

H. Doctoral Elective Course Work (15 hours or 5 courses):
With the approval of the departmental Director of Graduate Studies, up to 6 hours (2 courses) may be taken in a related field of studies and/or up to 6 hours of Soci 8970: Directed Readings may be taken.

I. Other Doctoral Requirements (35 hours of non-course work):
Soci 9970 Readings for Qualifying Examination (6)
Written qualifying examinations in theory and methodology/statistics.
Soci 9998 Dissertation Proposal (9)
A dissertation proposal and oral defense.
Soci 9999 Dissertation Research (20)
A dissertation and oral defense.

NOTES:
1. Students must maintain a cumulative grade point average of 3.0 ("B") or higher and must receive a grade of B or higher in each of the required courses. If a student receives a grade below a B in a required course, the student must repeat the course the very next time the course is offered to rectify the grade.
2. The total number of hours must include a minimum of 90 hours in sociology, 49 hours of which must have been earned in regularly scheduled courses in the Department of Sociology at Georgia State University.
3. Students must register for Soci 9970 Readings in the semester in which they prepare for the Ph.D. qualifying examinations.
4. Students who are appointed as a GTA III must successfully complete Soci 9000 Teaching Sociology and Soci 9001 Teaching Internship prior to their appointment.
5. Students who are appointed as a GTA III must successfully complete Soci 9000 Teaching Sociology and Soci 9001 Teaching Internship prior to their appointment.
6. Doctoral students may take Soci 9000 Teaching Sociology and Soci 9002 Writing for Publication but only three credit hours can be applied to the Ph.D. degree. Soci 9001 Teaching Internship hours cannot be applied to the Ph.D. degree.
7. Students must take 2 hours of Soci 8000 in the Fall semester and 2 hours of Soci 8000 in the Spring semester of their first year in the Joint M.A./Ph.D. Program.
Ph.D.-Only Track

Seventy-two semester credit hours (40 semester hours of course work and 32 semester hours of non-course work including qualifying examination readings, dissertation proposal, and dissertation research hours) beyond the Master’s degree, consisting of a Doctoral Core (A), Doctoral Specialty Core (B, C, or D), Doctoral Electives (E), and Other Doctoral Requirements (F).

A. Doctoral Core Required Course Work (19 hours):
   - Soci 8000 Proseminar in Sociology (3)
   - Soci 8201 Social Inequality (3)
   - Soci 8342 Qualitative Methods in Sociology (3)
   - Soci 9010 Multivariate Sociological Data Analysis (4)
   - Soci 9020 Advanced Research Methodology (3)
   - Soci 9030 Sociological Theory II (3)

   NOTE: If a student needs to take Soci 8010 Intermediate Social Statistics, Soci 8020 Research Methods, and/or Soci 8030 Sociological Theory I (or their equivalents, as determined by the Director of Graduate Studies), these courses must be taken as non-credit prerequisites for Soci 9010, Soci 9020, and Soci 9030.

B. Family, Health, and Life Course (FHLC) Specialty Required Course Work (6 hours):
   - Soci 8101 Family Sociology (3)
   - Soci 8102 Life Course Sociology (3)

C. Gender and Sexuality (GS) Specialty Required Course Work (6 hours):
   - Soci 8156 Sexuality and Society (3)
   - Soci 8216 Gender and Society (3)

D. Race and Urban Studies (RUS) Specialty Required Course Work (6 hours):
   - Soci 8212 Race and Ethnic Relations (3)

E. Doctoral Elective Course Work (15 hours or 5 courses):
   - With the approval of the departmental Director of Graduate Studies, up to 6 hours (2 courses) may be taken in a related field or fields and/or up to 6 hours of Soci 8970 Directed Readings may be taken.

E. Other Doctoral Requirements (32 hours of non-course work):
   - Soci 9970 Readings for Qualifying Examination (3)
   - Written qualifying examinations in theory and methodology/statistics.
   - Soci 9998 Dissertation Proposal (9)
   - A dissertation proposal and oral defense.
   - Soci 9999 Dissertation Research (20)
   - A dissertation and oral defense.

NOTES:
1. Students must maintain a cumulative grade point average of 3.0 (“B”) or better and must receive a grade of B or better in each of the required courses. If a student receives a grade below a B in a required course, the student must repeat the course the very next time the course is offered to rectify the grade.
2. The total number of hours must include a minimum of 60 hours in sociology, 34 hours of which must have been earned in regularly scheduled courses in the Department of Sociology at Georgia State University.
3. Students must register for Soci 9970 Readings for Qualifying Examinations in the semester in which they prepare for the Ph.D. qualifying examinations.
4. Students must register for Soci 8990 Research Practicum and Soci 8991 Teaching Practicum while they are appointed as a GRA, GTA, and/or GLA.
5. Students who are appointed as a GTA III must successfully complete Soci 9000 Teaching Sociology and Soci...
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<tbody>
<tr>
<td>9001 Teaching Internship prior to their appointment.</td>
<td>6. Doctoral students may take Soci 9000 Teaching Sociology and Soci 9002 Writing for Publication but only three credit hours can be applied to the Ph.D. degree. Soci 9001 Teaching Internship hours cannot be applied to the Ph.D. degree.</td>
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<tr>
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<td>7. Students must take 2 hours of Soci 8000 in the Fall semester and 2 hours of Soci 8000 in the Spring semester of their first year in the Ph.D.-Only Program.</td>
</tr>
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Programs Offered:
Master of Arts in Spanish
Specialist in Education in Teaching and Learning with Concentration in Foreign Language Education
(in cooperation with the College of Education)

Department of Modern and Classical Languages
Georgia State University
University Plaza
Atlanta, Georgia 30303
404/651-226
E-mail: braunrot@gsu.edu or mclgraduate@gsu.edu
http://www.gsu.edu/languages

Kathleen Hardesty Doig, Chair
Bruno Braunrot, Director of Graduate Studies

The Department of Modern and Classical Languages offers the Master of Arts (M.A.) degree in French, German, and Spanish. The Master of Arts degree emphasizes advanced study in the language, culture, and literature of the student’s specialty, including courses of particular interest to foreign language teachers.

The Department of Modern and Classical Languages also supervises an Ed.S. program through the College of Education. For further information please contact the Director of Graduate Studies, Department of Middle-Secondary Education and Instructional Technology, Georgia State University.

Applicants may obtain additional information about the Department of Modern and Classical Languages by contacting the Director of Graduate Studies at the addresses above.

Additional Admission Requirements
In addition to the general requirements of the College of Arts & Sciences, the Department of Modern and Classical Languages has the following requirements:

1. An undergraduate major or its equivalent in the language to be studied.
2. A minimum of three literature courses, including the introductory course, or equivalent.
3. A departmental entrance examination.

Degree Requirements

MART OF ARTS (30-hour Program)

1. Basic Requirements:
   a. Twelve hours of coursework, of which a minimum of eight must be taken in the student’s major field.
   b. A written general examination.
   c. An oral examination.
   d. Proficiency in a foreign language other than the student’s major.
2. Thesis Option:
   b. Six hours of thesis research.
   c. A thesis.
   d. A thesis defense.
3. Non-Thesis Option:
   a. Six hours of additional coursework.
   b. A research paper.

Applicants may obtain additional information about the Department of Modern and Classical Languages by contacting:

Director of Graduate Studies
Department of Modern and Classical Languages
Georgia State University
University Plaza
Atlanta, Georgia 30303
http://www.gsu.edu/languages
email: mclgraduate@gsu.edu

Degree Requirements

Master of Arts

A. Literature and Culture Option (30 hours):
   1. Basic Requirements:
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<tbody>
<tr>
<td><strong>a.</strong></td>
<td>Twenty-four hours of coursework of which 18 hours must be taken in the student’s major field</td>
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<tr>
<td><strong>b.</strong></td>
<td>A written exit examination</td>
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<td><strong>c.</strong></td>
<td>An oral exit examination</td>
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<td><strong>d.</strong></td>
<td>Proficiency in a foreign language other than the student’s major</td>
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<td><strong>2a.</strong></td>
<td>Thesis Option:</td>
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<tr>
<td><strong>a.</strong></td>
<td>A written thesis proposal</td>
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<tr>
<td><strong>b.</strong></td>
<td>Six hours of thesis research</td>
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<tr>
<td><strong>c.</strong></td>
<td>A thesis</td>
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<td><strong>2b.</strong></td>
<td>Non-Thesis Option:</td>
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<tr>
<td><strong>a.</strong></td>
<td>Six hours of additional graduate coursework in the student’s major field</td>
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<td><strong>b.</strong></td>
<td>A research paper.</td>
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<td><strong>B.</strong></td>
<td>Language, Pedagogy, and Applied Linguistics Option (30 hours):</td>
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<td><strong>Basic Requirements:</strong></td>
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<tr>
<td><strong>1.</strong></td>
<td>Eighteen hours of coursework in Literature, Language, and Culture in the student’s major field</td>
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<td><strong>2.</strong></td>
<td>Twelve hours of coursework in Applied Linguistics and Pedagogy</td>
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<td><strong>3.</strong></td>
<td>A written examination</td>
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<td><strong>4.</strong></td>
<td>An oral examination</td>
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<tr>
<td><strong>5.</strong></td>
<td>A portfolio</td>
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</table>

A student must have a grade-point average of 3.0 or higher in all courses counting towards the Master of Arts degree. Only courses passed with a grade of B or higher will count toward the degree.
Qualification for entrance into either program is based on achievements on an appropriate proficiency examination. Candidates for the program in translation must pass a written examination in English and in the language of specialization. Candidates for the program in interpretation must pass a written and oral examination in both the source and target language. Candidates who are not considered admissible because of insufficient knowledge of the proposed working language or deficiencies in their general background will be advised to consider preparatory courses in the Department of Modern and Classical Languages or in another department. The entrance examination is offered at regular intervals each year for entrance in the fall semester. However, the course sequence in Translation or Interpretation cannot be initiated unless there is a sufficient enrollment. Thus, there is no guarantee that the Translation and Interpretation programs in French, German, and Spanish can be offered routinely every year. In some cases there will be a delay in initiating a sequence until a critical mass of qualified students is available.

In addition to demonstrating proficiency by means of the admission examination(s), candidates must demonstrate an appropriate educational background. Candidates without a baccalaureate degree must provide evidence of behavioral and professional activities and accomplishments indicating that they have the prior experience needed to be successful in translation or interpretation. Students accepted into the program will not be permitted to enroll in graduate courses taught outside the Program in Translation and Interpretation unless they have applied and been admitted to the M. A. program in the Department of Modern and Classical Languages. Students with a baccalaureate degree (or the equivalent) from an accredited institution are eligible to take undergraduate courses.

Translation

This program provides professional training in written translation for students who wish to acquire proficiency in a specific language combination. The student's progress will be monitored closely, and the student's potential for completing the program will be evaluated at the end of each individual course.

The course of study includes three hours of comparative stylistics, six hours of advanced general translation and six hours of advanced technical translation. Students must complete three courses with a grade lower than "B", and must receive a score of at least "PS" on the exit examination in order to receive a certificate.

Interpretation

This program provides professional training in both simultaneous and consecutive interpretation for those who wish to become consecutive interpreters. Admission to the program in interpretation presupposes completion of the course of study in translation, or demonstration of proficiency in written translation at a comparable level, in addition to an appropriate proficiency in the student's source and target languages.

The program consists of courses in simultaneous and consecutive interpretation and courses in the theoretical background of the student's area of specialization. The course of study in interpretation includes both written examination and a written translation. In addition, students must complete a research project. Students must complete three courses with a grade lower than "B", and must receive a score of at least "PS" on the exit examination in order to receive a certificate.

NOTE: Although individual courses in both areas are assigned graduate credit, none of the 700-level courses listed below may be used to fulfill requirements in regular degree programs of the Department of Modern and Classical Languages.

All courses in each program are required and must be taken in the prescribed sequence.

Applicants may obtain additional information about the program in translation and interpretation by writing to:

Dr. James C. Murray
Department of Modern and Classical Languages
Georgia State University
University Plaza
Atlanta, Georgia 30302-3083
(404) 651-2265
http://www.gsu.edu/language
email: mclgraduate@gsu.edu

3340 Translation and Interpretation

Programs Offered:

Graduate Certificate in Translation
Graduate Certificate in Interpretation (Spanish)

Department of Modern and Classical Languages
Georgia State University
P.O. Box 3970
Atlanta, Georgia 30302-3070
404/651-2265
E-mail: mclgraduate@gsu.edu
http://www.gsu.edu/languages

Annette G. Cash, Director

Qualification for entrance into either program is based on achievements on an appropriate proficiency examination. Candidates for the program in translation must pass a written examination in English and in the language of specialization. Candidates for the program in interpretation must pass written and oral examinations in both the source and target languages. Candidates who are not considered admissible because of insufficient knowledge of the proposed working language or deficiencies in their general backgrounds will be advised to consider preparatory courses in the Department of Modern and Classical Languages or in another department. The entrance examination is offered at regular intervals each year for entrance in the fall semester. However, the course sequence in Translation or Interpretation cannot be initiated unless there is a sufficient enrollment. Thus, there is no guarantee that the Translation and Interpretation programs in French, German, and Spanish can be offered routinely every year. In some cases there will be a delay in initiating a sequence until a critical mass of qualified students is available.

In addition to demonstrating proficiency by means of the admission examination(s), candidates must demonstrate an appropriate educational background. Normally, applicants will be expected to have an American undergraduate degree or the equivalent. Candidates without a baccalaureate degree must provide evidence of educational and professional activities and accomplishments indicating that they have the prior experience needed to be successful in translation or interpretation. Students accepted into the program will not be permitted to enroll in graduate courses taught outside the Program in Translation and Interpretation unless they have applied and been admitted to the M. A. program in the Department of Modern and Classical Languages. Students with a baccalaureate degree (or the equivalent) from an accredited institution are eligible to take undergraduate courses.

Applicants may obtain additional information about the Program in Translation and Interpretation by contacting the Director at the addresses above.

Translation

This program provides professional training in written translation for students who wish to acquire proficiency in a specific language combination. The student’s progress will be monitored closely, and the student’s potential for completing the program will be evaluated at the end of each individual course.

The program includes one class in comparative stylistics, one class in general translation, two classes in specialized translation, and a final translation workshop. Students must complete each of these courses with a grade of B or higher and must receive a score of at least a grade of B on the exit examination in order to receive a
Certificate.

**Interpretation**

This program provides professional training in both medical and legal interpretation for those who wish to become interpreters. At the present time, the program is only offered in Spanish. Admission to the program in interpretation presupposes completion of the course of study in translation, or demonstration of proficiency in written translation at a comparable level, in addition to oral proficiency in the student’s source and target languages.

The program is comprised of classes in medical and legal (state court) interpretation. The interpretation program involves a class in the introduction to the field of interpretation, a class in consecutive simultaneous and sight interpretation, a class in medical interpretation, and one class in legal interpretation (state court system). Each student’s progress and potential for successful completion of the program will be evaluated each semester. Students must complete these courses with a grade of B or higher, and must receive a score of at least a B on the exit examination in order to receive a certificate.

Although individual courses in both areas are assigned graduate credit, none of the 7000-level courses listed below may be used to fulfill requirements in regular degree programs of the Department of Modern and Classical Languages.

All courses in each program are required and should be taken in the prescribed sequence.

The following courses comprise the translation sequence in French, German, and Spanish: Fren 7135, 7140, 7142, 7145, and 7146; Grmn 7135, 7140, 7142, 7145, and 7146; Span 7135, 7140, 7142, 7145, and 7146.

The following courses comprise the interpretation sequence in Spanish: Span 7150, 7152, 7154, and 7157.
Women's Studies Institute
Linda A. Bell, Director

Degree offered: Master of Arts

The Master of Arts (M.A.) degree program prepares students for doctoral work in women's studies or in a related discipline or enhances careers in which students regularly address issues related to the condition of women's lives.

Additional Admission Requirements
In addition to the general requirements of the College of Arts and Sciences, the Women's Studies Institute has the following requirements:

1. Two letters of recommendation addressing the ability of the student to undertake graduate study.
2. A statement of educational and/or career goals.
3. Students are admitted to the program once a year (to begin in fall semester). Applicants seeking graduate assistantship or the Gladys W. and Eldon B. Nash Fellowship in the Development of Women must submit all application materials to the Office of Graduate Studies, College of Arts and Sciences by February 1. All other students submit completed applications to the Office of Graduate Studies, College of Arts and Sciences by April 1.

Degree Requirements

MASTER OF ARTS (36-hour program)

1. Thirty hours of graduate coursework, fifteen hours of which are required (WSt 8001 and WSt 8002 taken together in the first semester, WSt 8003 and WSt 8004 taken in the second, followed by WSt 8010) and fifteen hours of which must be taken from the Institute. Sixteen hours of coursework are not available in any one year.
2. Six hours of WSt 8999, Thesis Research, a thesis prepared by a director and two other readers, and a thesis.

Applicants may obtain additional information about the Women's Studies Institute by contacting:

Susan Talburt, Director
Layli Phillips, Director of Graduate Studies

http://www.gsu.edu/womensstudies

Applicants may obtain additional information about the Women's Studies Institute by contacting the Director of Graduate Studies at the addresses above.

Additional Admission Requirements
In addition to the general requirements of the College of Arts and Sciences, the Women's Studies Institute has the following requirements:

1. Three letters of recommendation addressing the ability of the student to undertake graduate study.
2. A statement of educational and/or career goals.
3. Students seeking a M.A. degree are admitted to the program once a year (to begin in fall semester). Applicants seeking graduate assistantship or the Gladys W. and Eldon B. Nash Fellowship in the Development of Women must submit all application materials to the Office of Graduate Studies, College of Arts and Sciences by February 1 to be considered for the first decision-making process. Later applications may be considered, depending upon availability of funds.

Degree Requirements

Master of Arts (36 hours)

1. Thirty hours of graduate coursework, 12 hours of which are required (WSt 8001, WSt 8002, WSt 8003, and WSt 8004) and 18 hours of WSt courses, courses with a WSt prefix crosslisted with other departments, or...
approved courses in other departments.
2. Proficiency in a foreign language or in an approved alternative research skill. A list of courses that can be used to meet the alternative research skill requirement is available from the WSI office. Courses taken to meet this requirement are in addition to the thirty hours of coursework required for the M.A. degree in Women’s Studies.
3. A written comprehensive examination.
4. A minimum of six hours of Thesis Research (WSt 8999)

**Graduate Certificate in Women's Studies**

**Requirements:**
A Graduate Certificate in Women’s Studies is available to eligible graduate students who successfully complete four graduate courses in Women’s Studies. “Successful completion” means a grade of B or higher in each. Two of those must be WSt 8001, WSt 8002, WSt 8003, or WSt 8004. The other two courses must be drawn from courses bearing a WSt prefix and only one course can originate from the student’s home department.

**Eligibility:**
The following individuals are eligible:
- Students who are enrolled in an M.A. or Ph.D. program in another department or institute at Georgia State University, who declare in writing to the Women’s Studies Institute their intentions to work on the certificate before taking a third WSt course, and who submit evidence to the Institute when the requirement for the certificate has been completed;
- Students in the Women’s Studies Institute M.A. degree program who are unable to complete the program and who have completed the requisite coursework.