## Calendar of Events

### SUMMER SESSION 2008

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 2, Wednesday</td>
<td>Registration begins</td>
</tr>
<tr>
<td>May 19, Monday</td>
<td>MBA classes begin</td>
</tr>
<tr>
<td>May 21, Wednesday</td>
<td>First summer session classes begin</td>
</tr>
<tr>
<td>May 22, Thursday</td>
<td>Last day to register for Section 01 course(s)</td>
</tr>
<tr>
<td>May 23, Friday</td>
<td>Last day to drop Section 01 course(s) for a refund</td>
</tr>
<tr>
<td>May 28, Wednesday</td>
<td>Deadline for graduate students to apply to graduate in summer 2008</td>
</tr>
<tr>
<td>June 9, Saturday</td>
<td>Last day to drop a Section 01 course without academic penalty</td>
</tr>
<tr>
<td>June 24, Tuesday</td>
<td>First summer session final examinations (Last day of class)</td>
</tr>
<tr>
<td>June 27, Friday</td>
<td>MBA classes end</td>
</tr>
</tbody>
</table>

### SECOND SESSION: June 26–July 31

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 26, Thursday</td>
<td>Second summer session classes begin</td>
</tr>
<tr>
<td>June 27, Friday</td>
<td>Last day to register for Section 11 course(s)</td>
</tr>
<tr>
<td>June 28, Saturday</td>
<td>Last day to drop Section 11 course(s) for a refund</td>
</tr>
<tr>
<td>June 30, Monday</td>
<td>MBA classes begin</td>
</tr>
<tr>
<td>July 4, Friday</td>
<td>Independence Day holiday; classes dismissed; offices closed</td>
</tr>
<tr>
<td>July 10, Thursday</td>
<td>Final date for oral examinations for August doctoral candidates</td>
</tr>
<tr>
<td>July 14, Monday</td>
<td>Filing deadline for one approval copy of thesis, The Graduate School</td>
</tr>
<tr>
<td></td>
<td>Last day to drop a Section 11 course without academic penalty</td>
</tr>
<tr>
<td>July 18, Friday</td>
<td>Filing deadline for one signed approval copy of dissertation, The Graduate School</td>
</tr>
<tr>
<td>July 31, Thursday</td>
<td>Second summer session final examinations (Last day of class)</td>
</tr>
<tr>
<td>August 1, Friday</td>
<td>Final date for complete clearance of August candidates for degrees, including submission of final copy of thesis or dissertation to The Graduate School and payment of fees owed the University</td>
</tr>
<tr>
<td>August 8, Friday</td>
<td>MBA classes end</td>
</tr>
<tr>
<td>August 11, Monday</td>
<td>Summer graduation date</td>
</tr>
</tbody>
</table>

### FALL SEMESTER 2008

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 19, Tuesday</td>
<td>Fall semester opens</td>
</tr>
<tr>
<td>August 19, Tuesday</td>
<td>Orientation for new graduate students, 6:00 P.M.</td>
</tr>
<tr>
<td>August 19–23, Tues.–Sat.</td>
<td>Registration for all students based on student population classification</td>
</tr>
<tr>
<td>August 20, Wednesday</td>
<td>State of the Campus Address and Faculty Convocation</td>
</tr>
<tr>
<td>August 21, Thursday</td>
<td>Orientation for new graduate students, 9:00 A.M.</td>
</tr>
<tr>
<td>August 22, Friday</td>
<td>Mandatory training for Teaching Assistants, 8:00 A.M.</td>
</tr>
<tr>
<td>August 25, Monday</td>
<td>Classes begin, 8:00 A.M.</td>
</tr>
<tr>
<td>August 25–29, Mon.–Fri.</td>
<td>Late registration and schedule adjustment</td>
</tr>
</tbody>
</table>

Contact the UNCG Counseling and Testing Center for exact dates of qualifying examinations. Students are responsible for complying with all deadlines for their individual programs of study.
### Calendar of Events

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>August 29, Friday</strong></td>
<td>Last day to:</td>
</tr>
<tr>
<td></td>
<td>- Change courses or course sections without special permission</td>
</tr>
<tr>
<td></td>
<td>- Drop course(s) for tuition and fees refund</td>
</tr>
<tr>
<td></td>
<td>- Appeal Financial Aid satisfactory academic progress</td>
</tr>
<tr>
<td></td>
<td>- Drop course(s) for Financial Aid satisfactory progress locked hours</td>
</tr>
<tr>
<td><strong>September 1, Monday</strong></td>
<td><strong>Deadline for graduate students to apply to graduate in December 2008</strong></td>
</tr>
<tr>
<td></td>
<td>Labor Day holiday. Classes dismissed; offices closed</td>
</tr>
<tr>
<td><strong>October 6, Monday</strong></td>
<td>117th Founders Day</td>
</tr>
<tr>
<td><strong>October 17, Friday</strong></td>
<td>Instruction ends for Fall Break, 6:00 P.M.</td>
</tr>
<tr>
<td></td>
<td>Last day to drop courses without academic penalty</td>
</tr>
<tr>
<td><strong>October 22, Wednesday</strong></td>
<td>Classes resume after Fall Break, 8:00 A.M.</td>
</tr>
<tr>
<td><strong>November 3–23</strong></td>
<td>Spring 2009 registration for continuing students</td>
</tr>
<tr>
<td><strong>November 3, Monday</strong></td>
<td>Final date for oral examinations for December doctoral candidates</td>
</tr>
<tr>
<td><strong>November 17, Friday</strong></td>
<td>Filing deadline for one <strong>signed</strong> approval copy of dissertation, The Graduate School</td>
</tr>
<tr>
<td><strong>November 25, Tuesday</strong></td>
<td>Instruction ends for Thanksgiving holiday, 10:00 P.M.</td>
</tr>
<tr>
<td><strong>December 1, Monday</strong></td>
<td>Classes resume, 8:00 A.M.</td>
</tr>
<tr>
<td></td>
<td>Filing deadline for one approval copy of thesis, The Graduate School</td>
</tr>
<tr>
<td><strong>December 8, Monday</strong></td>
<td>Last day of classes</td>
</tr>
<tr>
<td><strong>December 9, Tuesday</strong></td>
<td>Reading Day</td>
</tr>
<tr>
<td></td>
<td>Final date for complete clearance of December graduate degree candidates, including submission of final copy of thesis or dissertation to The Graduate School and payment of fees owed the University</td>
</tr>
<tr>
<td><strong>December 10–12, 15–17</strong></td>
<td>Final examinations</td>
</tr>
<tr>
<td><strong>December 18, Thursday</strong></td>
<td>December Commencement, Greensboro Coliseum</td>
</tr>
</tbody>
</table>

#### SPRING SEMESTER 2009

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>January 13–17, Tues.–Sat.</strong></td>
<td>Registration for all students based on student population and classification</td>
</tr>
<tr>
<td><strong>January 19, Monday</strong></td>
<td>Dr. Martin Luther King Jr. holiday. Offices closed.</td>
</tr>
<tr>
<td><strong>January 20, Tuesday</strong></td>
<td>Classes begin, 8 A.M.</td>
</tr>
<tr>
<td><strong>January 20–26, Tues.–Mon.</strong></td>
<td>Late registration and schedule adjustment</td>
</tr>
<tr>
<td><strong>January 26, Monday</strong></td>
<td>Last day to:</td>
</tr>
<tr>
<td></td>
<td>- Change courses or course sections without special permission</td>
</tr>
<tr>
<td></td>
<td>- Drop course(s) for tuition and fees refund</td>
</tr>
<tr>
<td></td>
<td>- Appeal Financial Aid satisfactory academic progress</td>
</tr>
<tr>
<td></td>
<td>- Drop course(s) for Financial Aid satisfactory progress locked hours</td>
</tr>
<tr>
<td><strong>January 27, Tuesday</strong></td>
<td><strong>Deadline for graduate students to apply to graduate in May 2009</strong></td>
</tr>
<tr>
<td><strong>March 2, Monday</strong></td>
<td>Financial Aid priority filing date for 2009–10 academic year</td>
</tr>
<tr>
<td><strong>March 7, Saturday</strong></td>
<td>Instruction ends for Spring Break, 1:00 P.M.</td>
</tr>
<tr>
<td><strong>March 16, Monday</strong></td>
<td>Classes resume after Spring Break, 8:00 A.M.</td>
</tr>
<tr>
<td><strong>March 17, Tuesday</strong></td>
<td>Last day to drop course(s) without academic penalty</td>
</tr>
<tr>
<td><strong>March 25, Wednesday</strong></td>
<td>Final date for oral examinations for May doctoral candidates</td>
</tr>
<tr>
<td><strong>April 6–29</strong></td>
<td>Summer and/or fall 2009 registration for continuing students</td>
</tr>
<tr>
<td><strong>April 8, Wednesday</strong></td>
<td>Filing deadline for one <strong>signed</strong> approval copy of dissertation, The Graduate School</td>
</tr>
<tr>
<td><strong>April 10, Friday</strong></td>
<td>Spring Holiday. Classes dismissed; offices closed</td>
</tr>
<tr>
<td><strong>April 21, Tuesday</strong></td>
<td>Filing deadline for one approval copy of thesis, The Graduate School</td>
</tr>
<tr>
<td><strong>May 5, Tuesday</strong></td>
<td>Last day of classes (University follows Friday schedule)</td>
</tr>
<tr>
<td><strong>May 6, Wednesday</strong></td>
<td>Reading Day</td>
</tr>
<tr>
<td></td>
<td>Excellence Day</td>
</tr>
<tr>
<td></td>
<td>Final date for complete clearance of May candidates for graduate degrees, including submission of final copy of thesis or dissertation to The Graduate School and payment of fees owed the University</td>
</tr>
<tr>
<td><strong>May 7–9, 11–13</strong></td>
<td>Final Examinations</td>
</tr>
<tr>
<td><strong>May 15, Friday</strong></td>
<td>May Commencement, Greensboro Coliseum</td>
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On behalf of The University of North Carolina at Greensboro, I am pleased to provide you with information about The Graduate School. In this Bulletin you will find descriptions of our master’s, doctoral, and certificate programs and the departments offering them. The Bulletin also contains important academic regulations, degree requirements, and University policies. Additional information about graduate education is available at our website: ggs.uncg.edu.

Our current graduate student enrollment is nearly 3,800 in a total student population of more than 17,000. As one of the doctoral granting campuses in The University of North Carolina System, we are large enough to offer a wide range of graduate programs yet small enough to provide the opportunity for each student to work closely with a community of scholars in a particular field. Our outstanding faculty and University staff, excellent library, strong facilities, and other resources are here to provide every student with the sophistication and intellectual excitement that are the hallmarks of graduate education.

If you have questions about any aspect of graduate school, I invite you to call this office at (336) 334-5596.

James C. Petersen
Dean of The Graduate School
Graduate Programs

The University is organized into the College of Arts and Sciences and six professional schools: Joseph M. Bryan School of Business and Economics, School of Education, School of Health and Human Performance, School of Human Environmental Sciences, School of Music, and School of Nursing.

The Graduate School has general supervision of graduate study throughout the College and schools. The University offers four doctoral degrees in 25 areas of study, five Master of Fine Arts degrees, master’s degrees in a wide variety of concentrations, and a number of Post-Baccalaureate and Post-Master’s Certificates. Each of these programs, with majors, concentrations, requirements, prerequisites, faculty, and courses, are described in the departmental listings.

The Graduate Dean is the chief administrative officer of The Graduate School, taking general responsibility for the development, improvement, and administration of all graduate study at The University. The Dean of The Graduate School serves as admissions officer and administers services to graduate students and programs. All matters of policy, procedures, and graduate curriculum are developed, approved, and implemented in consultation with programs and the Graduate Studies Committee.

Graduate study is offered in the following areas:

College of Arts and Sciences
Art—M.F.A.
Biochemistry—M.S.
Biology—M.S.
Communication Studies—M.A.
Computational Mathematics (Mathematics and Statistics)—Ph.D.
Computer Science—M.S.
Creative Writing (English)—M.F.A.
Drama (Broadcasting and Cinema and Theatre)—M.F.A.
English—M.A., M.Ed., Ph.D., Post-Baccalaureate Certificate
Geography—M.A., Ph.D., Post-Baccalaureate Certificate
History—M.A., Ph.D., Post-Baccalaureate Certificate
Latin (Classical Studies)—M.Ed.
Mathematics—M.A., Post-Baccalaureate Certificate
Medicinal Biochemistry (Chemistry and Biochemistry)—Ph.D.
Political Science—M.A., Post-Baccalaureate Certificate
Public Affairs (Political Science)—M.P.A., Post-Baccalaureate Certificate
Psychology—M.A., Ph.D.
Romance Languages and Literatures—M.A. (French and Spanish), Post-Baccalaureate Certificate
Sociology—M.A.
Theatre Education—M.Ed.
Women’s and Gender Studies—M.A., Post-Baccalaureate Certificate

Joseph M. Bryan School of Business and Economics
Accounting—M.S.
Business Administration—M.B.A., M.S.N./M.B.A., M.S. (gerontology)/M.B.A., Post-Master’s Certificates, Post-Baccalaureate Certificate
Economics—M.A., Ph.D.
Information Systems and Operations Management—M.S., Ph.D., Post-Baccalaureate Certificates, Post-Master’s Certificate

School of Education
Computer Education (Curriculum and Instruction and Library and Information Studies)—Post-Baccalaureate Certificate
Counseling and Counselor Education—Ph.D., Ed.D.
Counseling and Development—M.S., M.S./Ed.S., Post-Master’s Certificates
Curriculum and Instruction—M.Ed. (chemistry, elementary grades, English as a second language, French, mathematics, instructional technology, middle grades, reading, science, social studies, Spanish), Post-Baccalaureate Certificates, Post-Master’s Certificate
Curriculum and Teaching (Curriculum and Instruction and Educational Leadership and Cultural Foundations)—Ph.D.
Educational Leadership—Ed.S, Ed.D.
Educational Research, Measurement and Evaluation—M.S., Ph.D.
Educational Supervision (Curriculum and Instruction)—M.Ed.
Library and Information Studies—M.L.I.S.
NC TEACH Initial Teaching Licensure (Teachers Academy)—Post-Baccalaureate Certificate
School Administration (Educational Leadership and Cultural Foundations)—M.S.A.
Special Education—M.Ed., Ph.D., Post-Baccalaureate Alternative Initial Teacher Licensure, Post-Baccalaureate Certificate
Student Personnel Administration in Higher Education (Curriculum and Instruction)—M.Ed.

School of Health and Human Performance
Athletic Training (Exercise and Sport Science)—M.S.A.T.
Communication Sciences and Disorders—Ph.D.
Dance—M.A., M.F.A.
Exercise and Sport Science—M.S., M.Ed., Ed.D., Ph.D.
Parks and Recreation Management (Recreation, Tourism, and Hospitality Management)—M.S.
Public Health—M.P.H., Dr.P.H.
Speech-Language Pathology (Communication Sciences and Disorders)—M.A.

School of Human Environmental Sciences
Consumer, Apparel, and Retail Studies—M.S., Ph.D.
Human Development and Family Studies—M.S., M.Ed., Ph.D., Post-Baccalaureate Certificate
Interior Architecture—M.S., Post-Baccalaureate Certificate
Nutrition—M.S., Ph.D.
Social Work—M.S.W.

School of Music
Composition—M.M.
Music Education—M.M., Ph.D.
Music Performance—M.M., D.M.A. (Conducting, Instrumental, Vocal)
Music Theory—M.M.
Music Theory Pedagogy—Post-Master’s Certificate

School of Nursing
Health Management—M.S.N./M.B.A.
Nursing—M.S.N., Ph.D., Post-Master’s Certificates, Post-Baccalaureate Certificates

Special Academic Programs
Conflict Resolution—M.A., Post-Baccalaureate Certificate
Genetic Counseling—M.S.
Gerontology—M.S., M.S./M.B.A., Post-Baccalaureate Certificate
Liberal Studies (Division of Continual Learning)—M.A.

Students may pursue only one degree program of a given level at a time. Graduates who have been awarded a degree by UNCG will not be able to convert that degree to another if later the name of the degree is changed.

The Master of Fine Arts Degree
The M.F.A. programs offer graduate-level work in the fields of creative writing, dance, drama/film/video, and studio arts. Graduates are presumed to be professionals in composition, performance or design in the art form selected.

The University of North Carolina at Greensboro boasts a long tradition of excellence in the creative and performing arts. The graduate programs build on the strength in the humanities, which distinguished the Woman’s College. They draw support from the lively artistic community of the Triad. They are shaped by an outstanding staff of resident artist-teachers.

Accreditation
The University of North Carolina at Greensboro is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia, 30033-4007; 404-679-4501) to award Bachelor’s, Master’s, Specialist’s, and Doctor’s degrees.

Teacher Education programs have been approved at the state level by the North Carolina Department of Public Instruction and at the national level by the National Council of Accreditation in Teacher Education.

Programs in the professional schools and in certain departments of the College of Arts and Sciences are also accredited by relevant professional agencies.

Licensure for Teachers and Professional School Personnel

Licensure-only Programs
Persons who hold a baccalaureate degree and would like to complete a licensure program should contact the Teachers Academy Alternative Licensure Advisor at (336) 334-3415. Persons interested in licensure-only in Special Education should contact the Department of Specialized Education Services at (336) 334-5843.

Advanced Licensure
UNCG offers a number of options for advanced study in professional education. Master’s degree programs are offered in 26 professional licensure areas, including teaching, school counseling, media,
administration, and social work. Several departments offer programs for students who have completed a bachelor’s degree but not a professional education program. Students in these programs earn a master’s degree along with initial and advanced licensure. Departments also offer master’s degrees for students who hold initial teaching licensure but who would like to pursue advanced study in education. Music, School Administration, Special Education, and School Counseling have programs leading to Specialist in Education degrees and/or doctorates. Requirements for each program are aligned with the standards of its professional organization and the State Department of Public Instruction. Read about the individual programs in The Graduate School Bulletin.

Upon completion of an advanced licensure program, students should download an application at www.uncg.edu/ted and submit it to the Teachers Academy, 319 Curry Building.

Graduate programs for the preparation of teachers and other professional school personnel are approved by the National Council for the Accreditation of Teacher Education and the North Carolina State Board of Education, which grants licensure as follows:

**Master’s Licensure (“M”)**
- Pre-Kindergarten (B-K)
- Elementary Education
- Middle Grades Education
- Secondary Education
  - Chemistry
  - English
  - Latin
  - Mathematics
  - Comprehensive Social Studies
  - Comprehensive Science
- K-12 Special Subject Areas
  - Dance
  - French
  - Music
  - Reading
  - Spanish
  - Theatre
  - English as a Second Language
- Exceptional Children (K-12)
  - Special Education with Licensure in Learning Disabilities or Behavior/Emotional Disabilities
- Special Service Personnel
  - Media Coordinator
  - Media Supervisor
  - School Administrator
  - School Counselor

**School Social Work**
**Speech-Language Pathology**
**Instructional Technology Specialist**

**Specialist in Education (Ed.S.)**
- **Special Service Personnel**
- School Administrator
- School Counselor

**Doctoral Level**
- **K-12 Specialties**
  - Music
  - Special Education
  - Special Service Personnel
  - School Administrator
  - School Counselor

**Post-Baccalaureate and Post-Master’s Certificates**
Graduate certificates offer structured and applied instruction directly related to the needs of working professionals. Post-baccalaureate and post-master’s certificates are offered in the following areas:

**Business Administration (M.B.A. Program)**
- Post-Baccalaureate - Business Administration
- Post-Master’s - Financial Analysis, International Business, Management

**Conflict Resolution**
- Post-Baccalaureate

**Counseling**
- Post-Master’s - Gerontological Counseling, Couple and Family Counseling, School Counseling, Advanced School Counseling

**Curriculum and Instruction**
- Post-Baccalaureate - Special Endorsement for Computer Education, Teaching English as a Second Language
- Post-Master’s Certificate in College Teaching, Learning, and Leadership

**Geography**
- Post-Baccalaureate - Geographic Information Science, Urban and Economic Development

**Gerontology**
- Post-Baccalaureate

**History/Interior Architecture**
- Post-Baccalaureate - Historic Preservation, Museum Studies

**Human Development and Family Studies/Specialized Education Services**
- Post-Baccalaureate - Leadership in Early Care and Education
Information Systems and Operations Management
  Post-Baccalaureate - Information Assurance, Security, and Privacy; Information Technology; Supply Chain and Logistics Management
  Post-Master’s - Information Technology

Library and Information Studies
  Post-Baccalaureate - Special Endorsement for Computer Education

Mathematics and Statistics
  Post-Baccalaureate - Statistics

Music
  Post-Master’s - Music Theory Pedagogy (within the Ph.D. or D.M.A.)

Nursing
  Post-Baccalaureate - Gerontological Nursing, Nursing Administration, Nursing Case Management, Nursing Education
  Post-Master’s - Adult/Gerontological Nurse Practitioner, Nurse Anesthesia

Nutrition
  Post-Baccalaureate - Dietetic Internship

Political Science
  Post-Baccalaureate - Nonprofit Management, Urban and Economic Development

Romance Languages
  Post-Baccalaureate - Advanced Spanish Language and Hispanic Cultural Studies

Teachers Academy
  Post-Baccalaureate - NC TEACH for Initial Licensure

Women’s and Gender Studies
  Post-Baccalaureate
  See departmental listings for further details.
Persons who seek admission to graduate study at UNCG must submit a formal application. Applications may be submitted online or a paper application may be downloaded from our website at grs.uncg.edu.

Admission (Full Graduate Standing)
All applicants must have obtained the following:
1. A bachelor’s degree from a recognized accredited college or university.
2. Satisfactory academic standing as an undergraduate: “B” (3.0 GPA) average or better in the undergraduate major, and in courses prerequisite to the proposed graduate study.
3. Approval of the academic department in which the graduate student will major. (Assumes an undergraduate major appropriate to the proposed graduate study.)
4. Satisfactory scores on the Graduate Record Examination (GRE) or other authorized examination as required by the respective graduate degree programs. Scores are valid for five years. (See application materials.)

In addition, all applicants must submit a completed application form accompanied by two official transcripts of the student’s academic records from every college and university previously attended (even if the courses from one school appear on the transcript of another), three recommendations from former professors, employers, or persons well acquainted with the student’s academic potential, qualifying examination scores (#4 above), and a nonrefundable $55.00 application fee. Where a degree was earned, the official transcript must indicate the name of the degree and the date awarded. All credentials must be in English.

Admission Deadlines
Because of processing requirements, an admission decision for Fall Semester cannot be guaranteed unless all credentials are received before July 1, for Spring Semester by November 1, and for Summer Session by April 1. For international students the deadline for receipt of application and all supporting documents by The Graduate School is May 15 for Fall Semester, September 15 for Spring Semester, and February 15 for Summer Session. Deadlines may be extended one month if the international student is already in the U.S. PROSPECTIVE STUDENTS SHOULD CHECK WITH INDIVIDUAL DEPARTMENTS AS SOME PROGRAMS HAVE EARLIER DEADLINES.

Students are admitted to full graduate status or provisional status for a specific degree program in a specific term. If the admitted applicant does not register for the term specified in the admission letter, the admission may be subject to subsequent review. Students may not be admitted to and graduate from the same degree or certificate program in the same academic term.

Additional Admission Requirements for Nonresident Aliens
Nonresident aliens must provide certification of financial support. Non-native speakers of English must submit a minimum TOEFL score (computer based TOEFL score of 213, internet based TOEFL score of 79, paper based TOEFL score of 550) or IELTS score of 6.5. The English language proficiency requirement may be waived if the applicant is a citizen of a country or graduate of a university in a country where English is the official language.

Provisional Admission
Promising applicants who hold a baccalaureate degree but do not meet the formal requirements listed above may be granted provisional admission. Full graduate standing is granted when these students satisfactorily complete prescribed courses or otherwise remove deficiencies. They must meet any special conditions attached to their admission, by either The Graduate School or their major department, no later than upon the completion of 15 semester hours of graduate credit.

Among provisionally admitted applicants may be the following:
1. Applicants with a bachelor’s degree from a nonaccredited institution.
2. Applicants with a bachelor’s degree from an accredited institution who lack undergraduate work considered essential for graduate study.

3. Applicants whose scholastic records are below admission standards who give evidence that unavoidable extenuating circumstances affected their undergraduate record, but that progressive improvement took place.

A graduate student admitted provisionally is not eligible for appointment to an assistantship or fellowship until full graduate standing is achieved. Provisionally admitted students will have specifically stated conditions that must be met to progress in the program. Provisionally admitted students who are dismissed for failing to meet the provisions of their admission will be eligible to submit a new application to The Graduate School after two semesters or the equivalent and may be admitted only upon the recommendation of the major department Head or Director of Graduate Study and with the approval of the Dean of The Graduate School. While on academic dismissal, students are not eligible to take courses through the Visions program.

Deferring Admission

Graduate admission to a degree or certificate program is considered valid for up to one academic year. Requests to defer admission should be forwarded to The Graduate School for processing. The student’s deferral request will be forwarded to the department or program for final approval. A deferral letter notifying the student of the department’s decision will be mailed by the US Postal Service to the student’s home address. Students who have not enrolled after one academic year and have not requested a deferral of admission will be required to reapply.

Visiting and Non-degree Seeking Students (VISIONS)

Visiting and non-degree seeking students who wish to pursue graduate studies for personal enrichment, professional knowledge, renewal of licensure, or any other reason are categorized as VISIONS students and must hold a baccalaureate degree from a recognized accredited college or university. A $20.00 non-refundable fee is charged each semester a VISIONS enrollment form is submitted. Individuals who are permitted to enroll at the University as VISIONS students may take courses numbered 100-749 that have not been restricted by the departments (see The Graduate School Bulletin and the Schedule of Courses). Students enrolling in graduate courses in the Department of Art may need to provide a portfolio; additional information is available from the Chair of the Department of Art. Students enrolling in graduate courses in the Bryan School of Business and Economics must consult the appropriate graduate program director and have special permission. Visiting students who wish to enroll in M.B.A. classes must provide a letter of good standing, signed by the dean of their graduate program, prior to registration. Contact the M.B.A. office (336-334-5390) for complete information.

With the instructor’s approval, VISIONS students may submit a written petition to the Director of Graduate Study or the Department Head to enroll in a restricted course; however, independent study is reserved only for degree seeking students. Graduate credits earned as a VISIONS student may be applicable to a graduate degree. Should a VISIONS student wish to apply for admission to The Graduate School, subject to the written recommendation of the major department and the approval of the Dean of The Graduate School, up to nine (9) semester hours of such credit may be accepted toward a degree. Credit earned must fall within the timeline for completing the degree.

Public School Personnel

Public school teachers and administrators who wish to take courses solely for licensure renewal credit may do so as VISIONS students. If, however, credit is to be applied to a graduate degree, the student must submit an application to The Graduate School before the completion of the course and meet all requirements for full admission as a graduate degree student.

VISIONS students are not eligible for financial aid.

Dual Registration

Undergraduate students at UNCG who plan to undertake graduate study at UNCG, and who need no more than 12 semester hours of work to fulfill all requirements for the bachelor’s degree, may enroll in The Graduate School. Total graduate credit obtained in this dual status may not exceed 12 semester hours. Courses at the 600 level or above are applied to the graduate degree only. Students must apply for admission to a graduate program before requests for dual registration can be approved, but do not have to be formally admitted until the end of the semester in which credit is earned. For dual registration status, the approvals of The Graduate School, the University Registrar’s Office, and the student’s major advisor are required. Contact the University Registrar’s Office (336-334-5946) for more information.

Approval for dual registration does not guarantee or constitute acceptance into any graduate program.

Immunization Clearance

Students who have been admitted to UNCG are required by North Carolina State law to submit an immunization form with appropriate verification of
immunizations. This form is supplied by The Graduate School and must be satisfactorily completed and returned to Student Health Services.

**Failure to comply with this requirement within 30 calendar days from the first day of registration will result in the student’s being administratively withdrawn from the University.**

Students registered for four hours or less, or enrolled in only evening classes, are exempt from this requirement. If enrollment status changes (e.g., enrolled for more than four hours or daytime classes), students should consult with Student Health Services.

This requirement applies to all students, regardless of whether they are part-time or full-time. Students subjected to an administrative withdrawal for failure to comply with medical clearance requirements are entitled to a refund, subject to the guidelines of the University’s Refund Policy (see the section on **Tuition and Fees**).

**Accelerated Master’s Programs**

The University of North Carolina at Greensboro has accelerated programs that will allow qualified freshmen, especially those having Advanced Placement Credit, to earn both a bachelor’s and a master’s degree in approximately five years. Programs represent two distinct patterns. The first is undergraduate majors who continue to pursue graduate work in the same discipline as their bachelor’s degree or secondly, by carefully selecting electives, may choose to complement the undergraduate major with graduate study in another area.

Although formal admission to an accelerated program usually occurs in the junior year, careful selection of undergraduate courses beginning in the freshmen year is essential. For general advising about accelerated programs, please contact the Office of Student Academic Services. Please see the appropriate departmental listing in the *Undergraduate Bulletin* for program details. The following accelerated master’s programs are currently offered:

- Accounting (B.S.)/Accounting (M.S.)
- Anthropology (B.A.)/Economics (M.A.)
- Anthropology (B.A.)/Business Administration (M.B.A.)
- Biology (B.A.)/Chemistry (M.S.)
- Business Administration (B.S.)/Business Administration (M.B.A.)
- Chemistry (B.S.)/Chemistry (M.S.)
- Chemistry (B.S.)/Business Administration (M.B.A.)
- Economics (B.A.)/Economics (M.A.)
- Economics (B.A.)/Public Affairs (M.P.A.)
- Exercise and Sport Science (B.S.)/Athletic Training (M.S.A.T.)
- French (B.A.)/Business Administration (M.B.A.)
- German (B.A.)/Business Administration (M.B.A.)
- Mathematics (B.A., B.S.)/Mathematics (M.A.)
- Music (B.A.)/Business Administration (M.B.A.)
- Physics (B.A.)/Business Administration (M.B.A.)
- Political Science (B.A.)/Economics (M.A.)
- Political Science (B.A.)/Business Administration (M.B.A.)
- Spanish (B.A.)/Public Affairs (M.P.A.)

**Cross Registration**

Students taking courses through an interinstitutional agreement must meet the standards for participation in the program as set by their home institution, including the transfer credit policies of The Graduate School, and must follow the rules and policies of both campuses. Students must be registered for at least half of their hours at UNCG the same semester in which they register through both Interinstitutional and the Consortium agreements. Under Interinstitutional Registration and the Greater Greensboro Consortium, enrollment and payment of tuition and fees take place on the home campus. Students must pay the appropriate tuition and fees to the visited institution when participating in the UNC Online Interinstitutional Agreement. Application forms and information are available at The Graduate School and the University Registrar’s Office. Unlike other courses accepted for transfer, grades received through an interinstitutional course are recorded on the student’s UNCG transcript and calculated into the student’s overall GPA.

The Graduate School participates in the following three interinstitutional agreements.

**Interinstitutional Registration**

The Interinstitutional Registration program with North Carolina State University, University of North Carolina at Chapel Hill, University of North Carolina at Charlotte, North Carolina Central University, and Duke University allows degree-seeking graduate students at UNCG, with the approval of the Dean of The Graduate School and upon recommendation of their advisors, to take courses at one of the above campuses. Eligible courses are limited to traditional, campus-based courses. Distance learning, extension, and online courses are not eligible.

**UNC Online Interinstitutional Agreement**

The UNC Online Interinstitutional Agreement allows degree-seeking graduate students at UNCG, with the approval of the Dean of The Graduate School and upon recommendation of their advisors, to take online courses at the 15 other UNC system schools. Students
must pay the appropriate tuition and fees to the visited institution.

**Greater Greensboro Consortium**

Through membership in the Greater Greensboro Consortium (GGC), UNCG also participates in an open-access agreement with the North Carolina Agricultural and Technical State University, located in Greensboro, whereby degree-seeking students enrolled at UNCG may take courses at NCATSU upon recommendation of their advisors and with the approval of the Dean of The Graduate School. Eligible courses are limited to traditional, campus-based courses. Distance learning, extension, and online courses are not eligible.

**Distance Learning/Off-Campus Credit**

Most off-campus and distance education courses are classified as “distance.” Distance learning courses are identified in UNCGenie by having “D” or “X” suffixes on the section number and in the campus code field and are managed through the Division of Continual Learning. These courses carry residence credit for students admitted to UNCG.

Students wishing to take off-campus or distance learning courses should contact the Division of Continual Learning. Academic credit cannot be applied to degree requirements until the student is fully admitted to UNCG as a degree-seeking student.

**Auditing**

Auditing a course is the privilege of being present in the classroom when space is available. No credit is involved, no examinations are required, no grades are reported, and no computer access is available. Attendance, preparation, and participation in classroom discussion and activities are at the discretion of the department and the instructor. The deadline to register for an audit course or to change an audit course to credit is the last date courses can be added as specified in the official academic calendar. For auditing fees, see the section on **Special Fees** under “Auditing Fees.”
**General Information**

**Semester Hours**
The unit of academic work is the semester hour, defined as one 50-minute lecture period (or at least two such periods of laboratory or field work) per week throughout one semester.

**Course Loads**
Graduate students are considered full time if they are enrolled in at least 6 semester hours per semester. Graduate students holding service appointments are restricted in course load depending upon the extent of their service.

**Policy on Continuous Enrollment**
Pursuit of a graduate degree should be continuous. Students pursuing a graduate degree program should normally be enrolled each Fall and Spring Semester, or one semester during the academic year in combination with Summer Session, for course work that is approved for their program of study and selected in consultation with the departmental Director of Graduate Study.

The policy on continuous enrollment normally requires that a student be enrolled continuously, as defined above, from the time of entry into a graduate degree program through the completion of all required course work, including the required hours of 699 and 799. Students who have already enrolled in the maximum number of 699/799 hours but who have not yet completed the requirements for thesis/dissertation are required to enroll in additional course work as described below.

Students completing their thesis or dissertation must enroll in and pay tuition and fees for not less than one nor more than three hours of thesis/dissertation extension credit each semester, after consultation with and approval by their faculty advisor. These hours will not count toward the degree. Students required to enroll in additional hours to complete their master’s thesis will enroll in departmental 801 (example: ART 801-Thesis Extension), and doctoral students completing their dissertation will enroll in departmental 802 (example: ENG 802-Dissertation Extension). All thesis and dissertation students must be enrolled in thesis/dissertation preparation (699/799) or the thesis/dissertation extension courses (801/802) for credit during the semester in which they complete their graduate work and are scheduled to receive their degrees.

A graduate student who has been admitted with full graduate standing to a graduate degree program but has not completed any 500-level or above courses at the University for two consecutive semesters, or a semester and Summer Session is considered to have withdrawn from the curriculum. The student will be required to file an application for readmission to The Graduate School to resume the course of study. A student who withdraws will be required to comply with regulations and requirements in effect at the time of readmission to The Graduate School.

Students in planned summer-only programs of study should maintain annual summer session patterns of enrollment and course completion throughout the program of study for the degree.

**Leaves of Absence**
Leaves of absence may be granted for a variety of reasons including extracurricular educational activities, illness, and other personal circumstances. Students should submit requests for a leave of absence in writing to their departmental Director of Graduate Study, who will forward the request to The Graduate School with the department’s recommendation. All requests for leaves of absence will be considered on a case by case basis in The Graduate School. Under normal circumstances, time devoted to a leave of absence will count toward the authorized time limit for completion of degree requirements. Students with special circumstances should consult with the departmental Director of Graduate Study to discuss options available for revising the time frame needed to complete their plan of study.

**Readmission**
A student who fails to enroll in courses for more than one semester without an official leave of absence must file an application for readmission and pay the $55.00 application fee.
Grades
Beginning with courses taken in Fall 2004, plus/minus grades are incorporated into the GPA for all graduate level courses according to the following scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Points Awarded Per Hour of Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
</tr>
<tr>
<td>F/WF</td>
<td>0.0</td>
</tr>
</tbody>
</table>

Grades of S, satisfactory, or U, unsatisfactory, are reported on all workshops and institutes, and certain seminars, field projects, internships, practica, music groups, and others.

The grade point average is determined by dividing the accumulated number of grade points earned by the accumulated number of semester hours undertaken. Hours attempted but not passed must be included in this calculation. Courses graded S/U and courses transferred from another institution (except those course taken through cross registration) may not be used in determining the UNCG grade point average.

For the completion of a graduate degree program, an overall minimum average of B (equivalent to 3.0) is required; an average of B (3.0) or better may be required in the major field at the option of the major department. To calculate the average, all grades except S and U will be counted in all courses that are attempted and carry graduate degree credit, but no more than six semester hours of credit evaluated as C+ (2.3) and/or C (2.0) may be applied toward the minimum hours required for the master’s degree. Grades in all courses applied toward the doctorate must be B (3.0) or better, and additional hours must be taken for any hours earned with a grade of B- (2.7) or less.

If a student receives a course grade other than Incomplete (I) and later submits additional work (whether that work is specified in the syllabus or not) after grades are posted to be evaluated for the course, this work cannot be used as a basis for changing the assigned grade. Except for independent study or where specific provision is made in the course description, no student may repeat for credit a course for which he/she has earned credit. If a student repeats such a course, the grade will be recorded on the transcript, but no additional credit will be allowed toward graduation or toward the grade point average. A failing grade remains on the student’s academic record permanently.

Withdrawal
Graduate students who must withdraw from the University may do so by dropping all courses via the Web through uncGenie until the last day to drop without academic penalty. Students whose registration for all courses is cancelled must seek reactivation or readmission through The Graduate School to return to school in subsequent terms. After the deadline to withdraw without penalty, and no later than the last day of classes, a W may be granted only with the permission of the Dean of The Graduate School and if status in the course at the time of withdrawal is satisfactory. If the student is in failing status at the time of withdrawal, a grade of WF is given. A course abandoned with insufficient reason for withdrawal is assigned the grade of F. In certain cases, faculty may initiate the withdrawal procedure for cause.

Incomplete
The symbol I indicates inability, for reasons beyond the student’s control, to complete course requirements by the end of the term in which the course was offered. The I may be removed by completion of the deferred requirements within six months from the last day of examinations in the term in which the course was taken. An I not so removed within this time limit automatically becomes an F. A grade of I on any course, including work not required for the student’s program, must be removed before graduation. A grade of I cannot be removed with a grade of W.

In the case of a thesis, master production, or dissertation in progress, a grade of IP (in progress) will be recorded each semester of registration for credit until completion of the thesis, master production, or dissertation, when a final grade of S (satisfactory) will be assigned.

S-U Courses
Grades for the following courses are reported as S, satisfactory, or U, unsatisfactory:

- All Practicum and Internship courses in Education and Library and Information Studies
- All Workshops and Institutes
- All thesis and dissertation courses (699, 799)
- All 800-level courses (801, 802, 803)
- Other courses as indicated in the departmental listings.

Appeal of Grades
An appeal of a grade must be made within one year of the date the grade was posted. The process of appeal must adhere to the following prescribed chain of
command. The complaint is initiated with the instructor assigning the grade, then with the head of the department/program, and finally with the academic dean. If, at any level, the appeal is endorsed, endorsement at the next level is not required, but the endorsement is sent to The Graduate School for final decision. If the appeal is not endorsed at previous levels, a final appeal may be made in writing to the Graduate Studies Committee through the Dean of The Graduate School. Authority to change any grade, other than I, rests with the Dean of The Graduate School, subject only to the authority of the Chancellor.

Academic Eligibility to Continue in Graduate School
Persons enrolled in The Graduate School are regarded as members of the student body of The University of North Carolina at Greensboro and are held responsible for conducting themselves in conformity with the moral and legal restraints found in any law-abiding community. Continued enrollment in The Graduate School is at all times subject to review of the student’s academic record and of the student’s actions with regard to observance of University rules and regulations.

Degree Programs
Fully admitted students will become academically ineligible to continue in The Graduate School under any of the following circumstances:
1. Grades of U, F or WF are received in any 6 semester hours;
2. Grades of C+ or C are received in 9 semester hours;
3. Any grade of U, F or WF is received in combination with 6 semester hours of C+ or C grades; or
4. The required 3.0 for graduation is not achieved within the minimum number of semester hours required for the degree.

Certificate Programs
Fully admitted students in Post-Baccalaureate and Post-Master’s Certificate programs will become academically ineligible to continue in an approved certificate program under any of the following circumstances:
1. Any grade of U, F or WF is received;
2. Grades of C+ or C are received in more than 3 semester hours; or
3. The required 3.0 for graduation is not achieved within the minimum number of semester hours required for the certificate.

VISIONS Program
VISIONS students will become academically ineligible to continue in The Graduate School under any of the following circumstances:
1. When grades of U, F or WF (or D in an undergraduate course) are received in any 6 semester hours;
2. When grades of C+ or C are received in 9 semester hours of any course work taken (graduate or undergraduate); or
3. When any grade of U, F or WF (or D in an undergraduate course) is received in combination with 6 semester hours of C+ or C grade.

Readmission after Academic Dismissal
A student who is dismissed for academic reasons will be eligible to submit a new application after two semesters or the equivalent and may be admitted only upon the recommendation of the major department head or Director of Graduate Study and with the approval of the Dean of The Graduate School. While on academic dismissal, students are not eligible to take courses through the Visions program. The policy on Academic Eligibility to Continue in Graduate School does not apply to provisionally admitted students. (See Provisional Admission on page 10.)

For a fully admitted degree or certificate student who is dismissed for academic reasons and who has not yet attempted the minimum number of semester hours required for the degree or certificate, an appeal to the regulation on academic ineligibility will be considered under either of the following circumstances:
1. Where the student’s average is at least B (3.0).
2. Where the major departmental representative and the Dean of The Graduate School agree that the student is in a good position to achieve an average of B (3.0) in one additional semester of study. In the case of a student who has attempted the minimum number of semester hours required for the degree, the major departmental representative and the Dean of The Graduate School will make an evaluation to determine whether the student is to be permitted to continue and, if so, what the plan of study shall be, 12 additional semester hours being the maximum allowed for achieving the required B (3.0) average.

Denial of Enrollment
UNCG reserves the right to deny enrollment of any student, even though the student has met the minimum grade point average required, if it is apparent from the student’s academic record of required courses that the student will not be able to meet the graduation requirements.

Appeal of Regulations
An appeal of the application of a rule or regulation must be made within one year as determined by the date of the letter from The Graduate School informing the student of the decision in question. The process of
appeal must adhere to the following prescribed chain of command. The appeal is first made in writing to the head of the department/program, then to the academic dean. If, at either level, the appeal is endorsed, endorsement at the next level is not required, but the endorsement is sent to The Graduate School for final decision. If the appeal is not endorsed at previous levels, a final appeal may be made in writing to the Graduate Studies Committee through the Dean of The Graduate School. The decision of the Committee is final, subject only to the authority of the Chancellor.

Applying for Graduation

Students must formally apply for graduation to The Graduate School by the end of the first week of classes during the term in which they plan to graduate. Degrees are awarded at the end of each semester and the second summer session (i.e., in December, May, and August). August and December degree recipients may participate in formal commencement exercises held in December. May degree recipients may participate in formal commencement exercises held in May. Diplomas and transcripts of students owing money to the university will be withheld until the account is cleared. Students may not be admitted to and graduate from the same degree or certificate program in the same academic term.

Commencement Participation Policy

Students completing all degree requirements by the end of the spring semester are encouraged to participate in the May Commencement ceremony. Students completing all degree requirements by the end of the fall semester are encouraged to participate in the December Commencement ceremony. Students completing all degree requirements by the end of the Summer Session may participate in either the May or December Commencement ceremony. Students completing all degree requirements by the end of the summer session (i.e., in December, May, and August). August and December degree recipients may participate in formal commencement exercises held in December. May degree recipients may participate in formal commencement exercises held in May. Diplomas and transcripts of students owing money to the university will be withheld until the account is cleared. Students may not be admitted to and graduate from the same degree or certificate program in the same academic term.

Independent Study

Independent study is reserved for certificate or degree seeking students. VISIONS students are not eligible to register for independent study. To be eligible for independent study, a student must have completed several regular courses of graduate work and attained at least a 3.0 average. Students may not register for independent study as a substitute for existing courses. Registration for independent study must have the approval of the instructor, the department head or dean, and the Dean of The Graduate School.

Post-Baccalaureate and Post-Master’s Certificate

Students may count no more than 3 semester hours of independent study toward certificate requirements.

Master’s candidates may register for no more than 3 semester hours of independent study per semester and may count no more than 6 semester hours of independent study toward satisfying the minimum requirements for the master’s degree. At the discretion of the department, M.F.A. students may earn up to a
maximum of 20% of their required hours as independent study credits.

**Doctoral** candidates may count not more than 15 semester hours of independent study toward degree requirements.

**Summer Session**

The University operates a Summer Session with classes beginning on a schedule of varying dates throughout the summer, thus enabling students to pursue a program of study best suited to their needs. Courses are open to graduate students desiring credit towards their advanced degree, certificate, or renewal of their teaching licensure. Special workshops and conferences enrich the opportunities for Summer Session study. A normal course load is six credit hours per five week session.

Students whose programs require that specific faculty members be available to them should determine that these faculty members will be on campus during the summer.

**Student Responsibilities**

Each graduate student’s program is planned with an advisor who is a graduate faculty member appointed by the department head or dean. The advisor interprets departmental requirements and arranges an orderly sequence of activities for the student’s progress toward the anticipated degree. The student is responsible for continuing in satisfactory academic standing and for meeting all the degree requirements and deadlines for graduation or licensure. Therefore, students are advised to consult with their advisors frequently and to request their advisors to develop a tentative written plan of study. This plan is to be placed on file in The Graduate School.

The Academic Integrity Policy (see Appendix A) states the precepts, violations, and obligations of academic integrity. In addition, graduate students are expected to comply with the social regulations of the University as set forth in the *UNCG Policies for Students* available online at deanofstudents.uncg.edu.

**University Policies**

All students at UNCG, graduate and undergraduate, are responsible for observing all federal, state, and local laws as well as the regulations of The University. The University has developed policies relating to certain kinds of behavior and circumstances, some of which are of particular interest or significance to graduate students. Judicial policies related to student conduct and full statements of the following policies may be found at deanofstudent.uncg.edu.

1. Academic Integrity Policy
2. Student Code of Conduct
3. Drug Policy and Operational Procedures
4. Copyright Compliance Policy
5. Discriminatory Conduct
6. Sexual Harassment
7. Traffic Procedures (including motor vehicle registration and parking regulation)
8. Student Records (academic and nonacademic)

**Conflict of Interest**

**Student-Instructor Relationship**

It is essential to the promotion of high academic standards and maintenance of sound professional practice that the student-instructor relationship be free of real or apparent conflicts of interest based on familial relationships. To this end, a member of the faculty shall not serve in any capacity that will involve evaluating the academic performance of a graduate student when there exists between them a relationship in the first or second degree of affinity or consanguinity or when they otherwise are so closely identified with one another as to suggest a possible conflict of interest.

**Faculty as Student**

Members of the voting and non-voting faculty (as identified in sections 2.1 and 2.2 of the Constitution of the Faculty: The University of North Carolina at Greensboro) may not pursue a graduate degree or certificate in their home department or degree-offering unit. For exceptions, the unit Dean may petition the Dean of The Graduate School.

**Post-Baccalaureate and Post-Master’s Certificates**

The following policies apply to Certificate candidates:

1. Certificate students must maintain a minimum GPA of 3.0 in all certificate course work and achieve a minimum overall GPA of 3.0 to graduate.
2. Only three semester hours with a grade of C+ (2.3) or C (2.0) will count towards a certificate.
3. With the exception of internship, practicum, independent projects or clinical work, all courses for a certificate will be letter graded.
4. A maximum of three semester hours of transfer credit will be accepted toward a certificate.
5. No more than 3 semester hours of independent study may be applied to the minimum number of semester hours required for completion of the graduate certificate program.
6. A plan of study must be submitted to The Graduate School when a student in a certificate program applies for graduation.

7. A student may apply course work from a post-baccalaureate certificate program and a portion of course work from a post-master’s certificate program toward a graduate degree at UNCG with the approval of the department offering the degree.

Master’s Degrees

Programs at UNCG leading to a master’s degree hold the objective of a reasonable, comprehensive mastery of the subject matter in a chosen field, accomplished through study, training, and experience in research or other scholarly activities.

Summary of Requirements for Master’s Degrees

1. Satisfaction of all requirements for admission.
2. Submission of plan of study to The Graduate School prior to 50% of program completion.
3. Satisfactory completion of all course requirements.
4. Achievement of the required B (3.0) average overall and in the major, if required by the department.
5. An applied knowledge of one modern foreign language, or approved option, in programs having this requirement.
6. Capstone Experience: The nature of this experience (or combination of experiences) will be left to the discretion of individual academic units. They may include some combination of (a) comprehensive written or oral examination, (b) thesis or research paper, (c) portfolio, (d) creative work, and/or (e) internship experience.
7. Filing of an application for graduation and the final plan of study with The Graduate School by the end of the first week of classes of the term in which the degree will be granted and payment of the graduation fee.
8. Payment of all accounts owed the University. Diplomas and transcripts of students owing money to the University will be held until the account is cleared.

All the above requirements must be met by the deadlines stated in the Calendar of Events. Some special programs may have additional requirements not listed above but explained in materials supplied by the major department or school.

Time Limits

Advanced degrees awarded from UNCG indicate that our students have current, usable knowledge in their field; therefore, the master’s curriculum, including the thesis, must be completed within five academic years, from the date the first courses carrying graduate degree credit applicable to the student’s program are begun. If the student does not enroll in the term to which admitted, the student’s admission status is subject to further review at the discretion of the head of the major department and the Dean of The Graduate School. If study for the program extends beyond three years, the student assumes the risk of having to meet new requirements.

Semester Hours Required

Minimum semester-hour requirements, which vary with the degree, are stated under the respective departmental program description. Credit that is applied to one master’s degree cannot be applied to another master’s degree. No course below the 500 level will be counted towards graduate degree requirements. In all programs, at least one half the work credited toward the degree must be in 600-level courses or above.

Plan of Study

A plan of study for the master’s degree (or Specialist in Education degree) must be outlined and signed by the student and director of graduate study/designee at the earliest practical time following the student’s admission to The Graduate School, but no later than 50% of the program’s completion. The plan must indicate all courses the student is expected to complete as a minimum requirement, including courses required for the major, supporting courses, number of elective hours, and courses recommended for transfer. Courses required by the department but not counted toward the degree, including prerequisite courses, must also be listed on the plan of study. No more than 6 semester hours of independent study may be included in the plan of study. At the discretion of the department, M.F.A. candidates may earn up to a maximum of 20% of their required hours as independent study hours. The Capstone Experience must also be indicated.

Copies of the approved plan of study must be filed in the student’s permanent folder in The Graduate School, in the department’s files, and with the student. If changes have been made to the plan of study, a revised plan of study must be submitted to The Graduate School by the end of the third week of classes of the semester in which the student applies for graduation.

Independent Study

Upon meeting the requirements to pursue independent study, master’s candidates may register for no more than 3 semester hours of independent study per semester and may count no more than 6 semester
hours of independent study toward satisfying the minimum requirements for the master’s degree. At the discretion of the department, M.F.A. students may earn up to a maximum of 20% of their required hours as independent study credits.

Language Requirements
Some programs require the student to demonstrate an applied knowledge of a modern foreign language. Exceptions are made at the discretion of the major department.

Foreign students whose native language is not English, who are seeking a master’s degree in which a reading knowledge of a modern foreign language is required, may not offer their native language as satisfaction of this requirement. They may offer a reading knowledge of any other approved modern language, including English. When English is offered, the examination will be of the traditional type and will be administered by the Department of English or by the student’s major department in consultation with the Department of English.

Upon the recommendation of the department, The Graduate School may approve requests for graduate students to pass a maximum of 12 semester hours of undergraduate level language courses by special examination. The results of the examination (S-U) would be posted to the student’s graduate transcript. Permission will be limited to language skills courses.

Capstone Experience
The capstone experience may consist of a comprehensive written or oral examination, thesis or research paper, portfolio, creative work, internship, or some combination of these experiences. The requirement can be satisfied after the student has completed at least two-thirds of the minimum program hours. If an unsatisfactory grade is given on the first attempt to satisfy the requirement, no more than one additional attempt is permitted. If the student fails to meet the department’s minimum criteria for the capstone experience on the second attempt, The Graduate School will be notified and will send the student a letter of dismissal.

The Thesis
Some master’s programs require a thesis; some offer a thesis or nonthesis option. A student in a thesis program prepares a thesis under the guidance of a thesis committee consisting of a chair and two other members appointed by the head of the major department or school. The committee members must hold membership on the graduate faculty. Although all members of the committee may come from the major department, appointment of one member from another department is encouraged.

The thesis must conform to rules established by the Graduate Studies Committee in the Guide for Preparation of Theses and Dissertations. The guide can be printed from The Graduate School’s website or paper copies can be obtained from the office at no cost.

An oral examination on the thesis may be required at the discretion of the major department or school, either for the individual or all students in a thesis program.

The process for submitting the thesis to The Graduate School has two components: submitting the approval copy and submitting the final copy. Specific instructions and deadline dates affiliated with each step are available in the Guide and the Calendar of Events.

Students file the thesis electronically via the online submission system available on The Graduate School’s website. The approved electronic submission must conform to the format requirements stated in the guide and must be uploaded by the deadline date as specified in the Calendar of Events. Publication of the thesis by UMI Dissertation Publishing/ProQuest Information and Learning is required by The Graduate School. The candidate must pay the associated publishing fee.

Maximum credit allowed for the thesis is 6 semester hours. Additional 801 hours may be required but will not count toward the degree.

Transfer and Distance Learning Credit
At the master’s and specialist’s levels, credit may be given for graduate work taken at other institutions (including credit earned through the Greater Greensboro Consortium) or taken through the Division of Continuing Learning at this University, but certain conditions must be met:

1. Ordinarily, transfer credit may not exceed one-third of the minimum number of hours required by the student’s program.

2. All residence or distance learning credit offered in transfer must have been taken at a recognized, accredited graduate school and not have been used to complete the requirements for a degree.

3. Such work must have been taken within the five-year time limit.

4. The student must have earned a grade of B (3.0) or better on all transfer credit. In a four-letter grading system, only credit earned with either of the top two grades is transferable. The transfer of credit where a grade of P or its equivalent is received in a two- or three-letter grading system (such as P-F, S-U,
or H-P-F) reduces hour for hour the number of C
grades earned that may count toward the minimum
requirement for the degree.
5. The credit must be recorded on an official transcript
placed on file with The Graduate School.
6. It must be approved both by the student’s major de-
partment and by the Dean of The Graduate School.
7. It must be necessary to meet specific degree require-
ments.

Hours only, not grades, may be transferred from
other institutions. Quarter-hours do not transfer as
semester hours. A fraction of an hour of credit will not
be transferred. See sample below:
  2 quarter hours transfer as 1 semester hour.
  3-4 quarter hours transfer as 2 semester hours.
  5 quarter hours transfer as 3 semester hours.
  6-7 quarter hours transfer as 4 semester hours.
  8 quarter hours transfer as 5 semester hours.
  9-10 quarter hours transfer as 6 semester hours.

Students must secure approval from their major ad-
visor and the Dean of The Graduate School in advance
of registration at other universities. In general, howev-
er, not less than two-thirds of the total program for the
master’s and specialists degrees must be completed at
The University of North Carolina at Greensboro.

All credit to be transferred must come within the
time limit described above and must be supported by
placing an official copy of the transcript on file in The
Graduate School. No credit will be transferred unless
it is required to meet specific degree requirements.

No more than 3 semester hours of institute and
workshop credit may be counted towards satisfying
the minimum requirements for the master’s and spe-
cialists degrees.

**Specialist in Education Degree**

Regulations specified above that govern the mas-
ter’s degrees apply also to the Specialist in Education
degree.

**Doctoral Degrees**

**Doctor of Philosophy**

The degree of Doctor of Philosophy is conferred
upon those students who have completed, with high
distinction, a prescribed period of intensive study
and investigation in a single field of learning. Candi-
dates must master the methods of study in the chosen
field and demonstrate familiarity with what has been
done and with the potentialities for further progress
in the field. They must also demonstrate capacity
for original and independent study or creative work
and must present evidence of such investigation in a
scholarly dissertation.

A Ph.D. may be earned in communication sci-
ences and disorders; computational mathematics;
consumer, apparel, and retail studies; counseling
and counselor education; curriculum and teach-
ing; economics; educational research, measurement
and evaluation; English; exercise and sport science;
geography; history; human development and family
studies; information systems; medicinal biochemis-
try; music education; nursing; nutrition; psychology;
and special education.

**Doctor of Education**

The major premise of the Doctor of Education
degree program is that it is an all-University degree.
This places special responsibility on the academic
schools and departments to combine their efforts
with the schools offering this program, to the end
that the doctoral students receive depth in subject
matter as well as professional development. There-
fore, the program is purposely flexible, allowing the
candidates to develop under careful advisement a
course of study best suited to their ability, person-
ality, experience, and major professional goal. It is
expected that each candidate will make a significant
research contribution to the discipline culminating in
a scholarly dissertation.

An Ed.D. may be earned in counseling and devel-
opment, educational leadership, and exercise and
sport science.

**Doctor of Musical Arts**

The Doctor of Musical Arts degree program is a
performance degree offered only in the School of Mu-
sic. The requirements of The Graduate School stated
below apply to the Doctor of Musical Arts; however,
due to the highly specialized nature of the degree,
the student should consult the Director of Graduate
Study in the School of Music for specific require-
ments and procedures.

**Doctor of Public Health**

The Doctor of Public Health degree is offered
through the Department of Public Health Education.
The course of study focuses on applied research of
community health topics often in partnership with
community organizations. Candidates must master
all aspects of scientific investigation into public health
issues and develop the needed skills to produce a port-
folio of community-based research on disease preven-
tion. The Dr.P.H. is an innovative program designed
to prepare individuals for careers in universities, private research institutions, public health agencies, and community-based organizations engaged in applied research and evaluation.

Summary of Requirements for Doctoral Degrees

1. Satisfaction of all requirements for admission to a doctoral program, including the removal of any deficiencies identified at the time of admission.
2. An approved advisory/dissertation committee, to be filed in The Graduate School by the end of 18 semester hours.
3. An approved plan of study, to be filed in The Graduate School by the end of 18 semester hours.
4. Satisfactory completion of any language requirement or approved option.
5. Satisfaction of the residence requirement.
6. Satisfactory completion of any diagnostic qualifying examination that may be required by the major department or school.
7. Satisfactory completion of all course requirements in the student’s approved program of study.
8. Satisfactory completion of the preliminary written and oral examinations and any additional work that may be required as a result of these examinations.
10. Admission to candidacy upon the satisfaction of the above requirements (formal application to be made in The Graduate School).
11. Submission of a dissertation acceptable to the advisory/dissertation committee.
12. Satisfactory completion of the final oral examination.
14. Filing of an application for graduation with The Graduate School by the end of the first week of classes of the term in which the degree will be granted and payment of the graduation fee.
15. Payment of all accounts owed in the University. Diplomas and transcripts of students owing money to the University will be held until the account is cleared.

The above requirements must be met by the deadlines stated in the Calendar of Events. Detailed explanations of these requirements follow. Some programs may have additional requirements not listed above but explained in additional materials supplied by the major department or school.

Admission Requirements

Admission to the doctoral program is distinct and separate from any previous admission to The Graduate School. For this reason, a student who has been admitted to a master’s degree program must reapply for doctoral study by notifying the Graduate School Office of the desire to be considered for admission to the advanced program. Admission to study for the doctorate normally follows completion of the master’s degree or its equivalent course work, but some departments will consider admission directly from an undergraduate program in the case of exceptionally well-qualified applicants. Applicants who hold the master’s degree or its equivalent, however, are not automatically eligible for admission to doctoral study.

In addition to satisfactory entrance examination scores and recommendations (explained in the application materials), final approvals of the major department or school and of the Dean of The Graduate School are required.

Advisory/Dissertation Committee

The advisory/dissertation committee, consisting of at least four members of the graduate faculty, shall assist the student with the preparation of the plan of study and shall guide and evaluate the doctoral dissertation. This committee will be appointed by the Dean of The Graduate School upon the recommendation of the major department head or dean and must be mutually acceptable to the student and all committee members.

Of the four members, the chair must hold an Endorsement to Chair Doctoral Committees and no more than one may be an Adjunct Member of the graduate faculty. The committee chair must be from the major department, and it is recommended that when appropriate, one member be selected from the minor area of study. If at any time the advisory/dissertation committee decreases in number to fewer than four members, additional members of the graduate faculty must be approved by the Dean of The Graduate School to bring the number to at least four.

The student must request the appointment of this committee no later than upon completion of the first 18 semester hours of graduate courses. Any subsequent changes in the advisory/dissertation committee must be reported to The Graduate School for approval.
Minor
Certain doctoral programs may permit, encourage, or require a minor, which is a formalized curricular sequence of advanced work in one or more areas outside the major field but cognate to it. The student should ask the chair of his advisory/dissertation committee if a minor is appropriate or required. The minor must consist of at least 12 hours of study. The student’s advisory/dissertation committee approves the minor, and it must appear on the doctoral plan of study.

For information concerning the doctoral minor in educational research and methodology, see page 137; in information systems, see page 201; and in statistics, see page 222.

Research Competence
Competence in research is required of all doctoral students. Whereas the specific requirements will vary from field to field and according to the student’s professional objective, the plan of study must provide for mastery of techniques of research that not only are appropriate to the particular field of study but also will help prepare prospective holders of the doctorate to continue their intellectual and professional growth.

Plan of Study
A plan of study for the doctoral degree must be outlined by the student and the advisory/dissertation committee at the earliest possible time following admission of the student to The Graduate School, preferably at the end of the first semester of residence or not later than the completion of 18 semester hours. The plan must indicate the major and minor fields of study; the specific courses the student is expected to complete as a minimum requirement; and all specific core, seminar, language, and research requirements of the major department. In all programs, no more than one quarter of the course work credited to the degree, exclusive of the dissertation, may be at the 500 level. A record of all graduate work the student has taken must accompany the proposed program. It is at this time that the advisory/dissertation committee evaluates the student’s qualifications to be recommended for further study in The Graduate School, further preparation for such study, or withdrawal. The committee may propose prerequisite course work to be taken if it believes the student shows weaknesses that might be corrected by additional formal study. No more than 15 semester hours of independent study may be included in the plan of study, exclusive of the dissertation.

The plan of study must be submitted to the Dean of The Graduate School for approval. The Dean reserves the right to refer any or all plans of study to the Graduate Studies Committee for review and recommendation.

Copies of the approved plan of study must be filed in the student’s permanent folder in The Graduate School, in the department’s files, with the chair and each member of the advisory/dissertation committee, and with the student. Any subsequent changes in the plan of study or in the subject of the dissertation must be reported to The Graduate School for approval.

Language Requirement
Each candidate for the doctorate must show either a satisfactory reading knowledge of at least one modern foreign language relevant to the student’s major area of study, or, where approved, a satisfactory mastery of research skills at an appropriate level of competence.

The language or languages used to satisfy a language requirement must be approved by the student’s major advisor. French, German, and Spanish are most frequently used.

The language requirements must be passed prior to the preliminary examinations, and prior to admission to candidacy.

A student whose native tongue is a language other than English may use English, but not the native language, to satisfy a language requirement. When English is offered, the examination will be administered by the Department of English or by the student’s major department in consultation with the Department of English. A statement certifying the candidate’s proficiency in English must be filed in The Graduate School before the preliminary examinations may be taken.

Residence Requirement
Doctoral candidates are expected to satisfy a residence requirement, which provides them the opportunity for an extended period of intensive study and intellectual and professional development among a community of scholars.

The basic requirement is two consecutive full-time semesters (minimum of 6 hours per semester) of graduate work on this campus after admission to a doctoral program. Consecutive semesters are either fall/spring, spring/summer, or summer/fall with the two sessions of summer school counting as one semester. Undergraduate courses taken in support of a graduate program cannot count towards residence.

Time Limits
Advanced degrees awarded from UNCG indicate that our students have current, usable knowledge in their field; therefore, all requirements for the doctorate, including the dissertation, must be completed within seven academic years from the date of the first enrollment for study following admission to the doctoral program. Post-master’s (or equivalent) credit that
is to be applied to the student’s doctoral program must be no more than seven years old when the degree requirements are completed. This means that all course work to be credited to the student’s doctoral program must fall within a seven-year period of time beginning with the date of first enrollment following admission to the program. If credit to be transferred was earned before enrollment at this University, the seven-year period of time commences with the beginning date of the term in which the transfer credit was earned.

The seven-year time limit does not apply to students who are admitted directly to a doctoral program upon completion of the baccalaureate. In this case, the time limit is ten years.

Transfer Credit

In some instances, work done in other institutions may be counted toward the degree, particularly work culminating in a master’s degree from a regionally accredited institution and representing an appropriate area of study. If the student proposes the transfer of credit from another recognized graduate school, the work for which credit was received must be covered by the preliminary examination, and the transfer must be recommended by the student’s advisory/dissertation committee before The Graduate School will credit the work to the student’s doctoral program.

In no case will more than one third of non-dissertation course credit hours beyond the master’s degree be transferred to doctoral program.

The following conditions apply to transfer credit for doctoral programs:

1. All credit offered in transfer must have been taken at a recognized, accredited graduate school.
2. Such work must have been taken within the time limit described above.
3. The student must have earned a grade of B (3.0) or better on all transfer credit. In a four-letter grading system, only credit earned with either of the top two grades is transferrable.
4. The credit must be recorded on an official transcript placed on file with The Graduate School.
5. The credit must be approved both by the student’s doctoral advisory/dissertation committee and by the Dean of The Graduate School.
6. The credit must be necessary to meet specific degree requirements.

Hours only, not grades, may be transferred from other institutions. Quarter-hours do not transfer as semester hours. A fraction of an hour of credit will not be transferred. See sample below:

2 quarter hours transfer as 1 semester hour.
3-4 quarter hours transfer as 2 semester hours.
5 quarter hours transfer as 3 semester hours.
6-7 quarter hours transfer as 4 semester hours.
8 quarter hours transfer as 5 semester hours.
9-10 quarter hours transfer as 6 semester hours.

Students must secure approval from their doctoral advisory/dissertation committee and the Dean of The Graduate School in advance of registration at other universities. In general, however, not less than two-thirds of the total non-dissertation credit hours of doctoral degrees must be completed in residence courses at UNCG.

In order to ensure that the courses fall within the time limit permitted, the transfer credit will be accepted finally and posted to the transcript only at the time of completion of the degree requirements.

Preliminary Examinations

When a student has removed any provisions or special conditions that may have been attached to admission, completed a minimum of ¾ of the course work contained in the program of study, passed any foreign language requirements, and completed the research skill requirements, that student is then eligible to take the preliminary examinations. Individual departments may have additional requirements. Each doctoral student is required to pass the doctoral preliminary examinations which consist of both a written and oral examination. The written part is scheduled and prepared by the dissertation advisor with the assistance of the advisory/dissertation committee. The questions may cover any aspect of the course work taken by the student during the period of this graduate study or any subject logically related and basic to an understanding of the subject matter of the major and minor areas of study. Any transferred course work is subject to examination at the time of the preliminary examinations. The oral examination should be scheduled within one month following the written examination.

Unanimous approval is required for passing the preliminary examination. Approval may be conditional, however, upon the satisfactory completion of such additional work as may be required by the committee. However, if the student does not pass the preliminary examination, at least one semester must elapse before re-examination is permitted. No more than one re-examination will be allowed. If the student fails to pass the examination on the second attempt, The Graduate School will send the student a letter of dismissal.

The complete advisory/dissertation committee of at least four must participate in the holding of the preliminary oral examination.
Admission to Candidacy
When a student has completed all major and minor required courses, has passed the preliminary written and oral examinations, satisfied any language or skill requirements, and submitted a dissertation research outline that has been approved by his dissertation advisor and advisory/dissertation committee, that student may then make formal application in The Graduate School for admission to candidacy for the doctoral degree.

The Dissertation
The dissertation is the product of a thorough investigation of a basic and significant problem or question within the major area of study. An appropriate plan of research must be developed and executed by the student under the general guidance of the chair and the advisory/dissertation committee. The dissertation requirement is designed to develop the capacities of originality and generalization in the candidate. It should foster and attest to the development in the candidate of ability in scientific inquiry, understanding, and mastery of the techniques of scholarship, and the art of exposition within the field of specialization. The advisory/dissertation committee, with such other professors as may be appointed by the Dean of The Graduate School, shall examine the dissertation. No dissertation shall be accepted unless it secures unanimous approval of the advisory/dissertation committee.

Students file the dissertation electronically via the online submission system available on The Graduate School’s website. In final form, the dissertation must comply with the rules prescribed by the Graduate Studies Committee in the Guide for the Preparation of Theses and Dissertations. The approved electronic submission must be uploaded by the deadline date as specified in the Calendar of Events. Publication of the dissertation by UMI Dissertation Publishing/ProQuest Information and Learning is required by The Graduate School. The candidate must pay the associated publishing fee.

The process for submitting the dissertation to The Graduate School has two components: submitting the signed approval copy and submitting the final copy. The specific instructions and deadline dates affiliated with each step are available in the Guide and the Calendar of Events.

Dissertation hours vary according to the program but are never less than 12 semester hours, normally taken in units of three semester hours. For a complete explanation of requirements affecting dissertation registration, see the Policy on Continuous Enrollment on page 14.

Final Oral Examination
The doctoral candidate who has successfully completed all other requirements for the degree will be scheduled by the chair of the advisory/dissertation committee, in consultation with the other committee members, to take a final oral examination. The Graduate School will publish the dissertation title, date, time and location of the oral examination at least two weeks prior to the examination. The examination is open to all members of the University community who may wish to attend as required by state laws on public meetings. The final oral examination is administered by the advisory/dissertation committee according to program guidelines. The examination is largely related to the dissertation field of study including courses taken here and elsewhere. Approval of the examination must be attested to by all members of the advisory/dissertation committee. The results of the examination are to be reported in writing to the Dean of The Graduate School.
Graduate Faculty

Graduate faculty members whose appointments are current as of the publication date of this Bulletin are listed by academic rank in the department(s) in which they serve. Each faculty member’s area of specialization is listed.

Course Numbers and Credit

This section sets forth UNCG’s graduate degree programs and descriptions of the courses of instruction offered. Each course description is represented by a three-letter symbol (indicating the department directing the course) and a three-digit number. Courses numbered 500-599 are open to advanced undergraduates and graduate students; courses numbered 600-749 are open only to graduate students; and courses numbered 750-799 are open only to doctoral students.

The first of the figures enclosed in parentheses immediately following the course title indicates the number of semester hour credits given for the course. A semester hour credit corresponds, unless otherwise stated, to one 50-minute class period per week through one semester. The second and third figures indicate the number of lecture and laboratory hours, respectively.

Prerequisites for a course are indicated in the course description by “Pr.” followed by appropriate requirements which must be met before that course may be taken. A hyphen (-) between course numbers indicates that no credit toward a graduate degree will be given for either course until both are successfully completed. A comma (,) between course numbers indicates that independent credit is granted for the work of one semester.

Examples of Credit Structures

(1:1) = 1 credit hour : 1 lecture hour per week  
(1:0:3) = 1 credit hour : 0 lecture hours : 3 lab hours per week  
(2:2) = 2 credit hours : 2 lecture hours per week  
(2:1:3) = 2 credit hours : 1 lecture hour : 3 lab hours per week  
(2:0:6) = 2 credit hours : 0 lecture hours : 6 lab hours per week  
(3:3) = 3 credit hours : 3 lecture hours per week  
(3:1:6) = 3 credit hours : 1 lecture hours : 6 lab hours per week  
(1-3) = 1 to 3 credit hours

EXAMPLE

528 Studies in Media Genres (3:2:3)
Pr. 101 (film genre) or 102 (radio or television genre), 203, 205, 301, or graduate standing or permission of instructor.
Technical, dramatic, social, and rhetorical dimensions of a media genre. Subject differs from offering to offering. May be repeated for credit.

In this example, the course is open to advanced undergraduate students and graduate students and has several prerequisites. It carries 3 semester hours of credit and meets for 2 lecture hours and 3 laboratory hours each week.

Service Learning Courses

UNCG defines Academic Service Learning as a teaching method that links community action and academic study so that each strengthens the other. Students, faculty, and community partners collaborate to enable students to address community needs, initiate social change, build effective relationships, enhance academic skills, and develop civic literacy. Service Learning encourages critical consideration of the ethical dimensions of community engagement.

Service Learning courses are marked (svl) after the course title and incorporate 15-20 hours of service.
Department of Accounting and Finance

Professors
C. Edward Arrington, D.B.A
Critical social theory and its relation to accounting and organizations.

Daniel T. Winkler, Ph.D.
Corporate finance, investments, market efficiency, financial education.

Associate Professors
Sheldon D. Balbirer, Ph.D.
Financial management, business finance.

William O. Brown, Ph.D.
Financial management, financial markets, investments (Head of Department).

J. William Harden, Ph.D.
Federal income taxation, multijurisdictional tax issues.

Venkataraman M. Iyer, Ph.D.
Accounting information systems and auditing, behavioral and empirical issues related to audit firms and audit market (Director of Graduate Study).

Ann Watkins, Ph.D., CPA
Financial accounting and reporting, accounting and the public interest with emphasis on issues relating to health care financial management and audit quality.

Assistant Professors
Ambrose Jones III, Ph.D., CPA
Auditing, accounting behavior, corporate social responsibility reporting, and international financial reporting standards.

Jane R. Livingstone, Ph.D.
Federal income taxation, financial accounting and reporting.

Evan Shough, Ph.D.
Financial accounting and reporting.

David Upton, Ph.D.
Cost allocation systems, cost management systems.

Requirements for the Master of Science in Accounting

Students entering the 30-hour Master of Science in accounting program must satisfy business foundation and accounting knowledge requirements based on the UNCG Bachelor of Science in accounting curriculum. Individual prerequisite needs are assessed by the program committee when admission decisions are made.

Accounting Courses (21 hours)
Students are required to take the following courses, which comprise the capstone experience (students with equivalent course work may seek a waiver of any of these required courses):

- ACC 600 Professional Accounting Research (3)
- ACC 630 Seminar in Contemporary Accounting Issues (3)
- ACC 642 Specialized Accounting Entities (3)
- ACC 655 Taxation of Corporations and Shareholders (3)

and one of the following:

- ACC 631 Advanced Auditing (3)
- ACC 638 Information Systems Auditing (3)

The remaining 6 hours are selected from the following:

- ACC 613 Directed Studies in Accounting (1-3)
- ACC 621 Accounting Internship (3)
- ACC 628 Accounting Information Systems (3)
- ACC 631 Advanced Auditing (3)
- ACC 638 Information Systems Auditing (3)
- ACC 645 Seminar in Financial Accounting Theory (3)
- ACC 652 Taxation of Estates, Gifts and Trusts (3)
- ACC 656 Taxation of Flow-Through Business Entities (3)
**ACC** Accounting Courses

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

600 Professional Accounting Research (3:3)
*Pr. grade of C or better in 420*
Effective use of resources in financial and tax accounting to complete research assignments.

613 Directed Studies in Accounting (1-3)
*Pr. 12 s.h. of graduate level accounting courses or permission of instructor*
Individual study of an issue or problem of interest. Student must arrange topic and course requirements with instructor prior to registration.

621 Accounting Internship (3)
*Pr. grade of C or better in 318*
Combined academic and work components allow students to gain experience in the professional field of accounting. Course supervised by a graduate faculty member and appropriate personnel of the approved organization. (Graded on S-U basis)

628 Accounting Information Systems (3:3)
*Pr. grade of C or better in 325*
Accounting information systems and the role of the accountant in the selection and management of accounting information systems; ethical implications.

630 Seminar in Contemporary Accounting Issues (3:3)
*Pr. grade of C or better in 319*
Analysis, research, and presentation of current topics and issues relevant to professional accountants.

631 Advanced Auditing (3:3)
*Pr. grade of C or better in 440*
Ethics, reporting, law, statistics, and audit software; directed towards professional external and internal auditing.

638 Information Systems Auditing (3:3)
*Pr. grade of C or better in 440*
Theory and practice of information systems auditing; role of information systems auditor in systems development; computer based system controls.

642 Specialized Accounting Entities (3:3)
*Pr. grade of C or better in 319*
Theory and practice associated with business combinations, consolidated financial statements, partnerships, international operations, bankruptcy and other accounting topics related to specialized accounting entities.

645 Seminar in Financial Accounting Theory (3:3)
*Pr. grade of C or better in 319*
Normative analysis in theory development and recent transition to empirical analysis; informational and positive theory paradigms; role of regulation.

652 Taxation of Estates, Gifts and Trusts (3:3)
*Pr. or coreq. 600*
Principles and procedures involved in determining federal estate tax; tax planning using gifts and trusts.

655 Taxation of Corporations and Shareholders (3:3)
*Pr. or coreq. 600*
Federal taxation of business transactions affecting corporations and shareholders.

656 Taxation of Flow-Through Business Entities (3:3)
*Pr. or coreq. 600*
Federal taxation of business transactions affecting flow-through business entities, including partnerships, S corporations, limited liability companies and their owners.

699 Thesis (1-3)

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

**FIN** Finance Courses

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

613 Directed Studies (3)
*Pr. MBA 630 and permission of Director of M.B.A. program and instructor who will supervise study*
Individual study of problems in the field of finance. Regular conferences with instructor required.

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.
Department of

Anthropology 426 Graham Building  •  (336) 334-5132
www.uncg.edu/ant/anthro.html

Professors
Joseph Mountjoy, Ph.D.
Paleoecology, cultural frontiers, ethnoarchaeology, rock art, Mesoamerica, Eastern U.S., Andean.

Arthur D. Murphy, Ph.D.
Political economy, modern Mexico, immigration, the cultural consequences of disasters. (Head of Department).

Associate Professor
Susan L. Andreatta, Ph.D.
Political ecology, applied anthropology, Caribbean and U.S., Latin America.

Assistant Professors
Joan E. Paluzzi, Ph.D.
Medical anthropology, research of South America, the political economy of health, theories of globalization.

Sarah E. Wagner, Ph.D.
Identification technology and society, missing persons and the politics of memory, forced migration, refugee return.

Lecturer
Linda F. Stine, Ph.D.
Historic landscapes, social inequality through historical archaeology, S.E. archaeology.

Graduate Programs in Anthropology
• No graduate degree programs offered; see Master of Arts in Liberal Studies on page 212.

Anthropology Courses

501, 502 Selected Topics in Anthropology (3:3), (3:3)
Opportunity for advanced students to study in depth a topic or issue of special interest.

510 Archaeology of South America (3:3)
Pr. junior or senior standing in anthropology or archaeology, or permission of the instructor
Survey of the archaeology of South America from the earliest evidence of human habitation through the development of chiefdoms, states and civilizations, up to the Spanish Conquest.

520 Economic Anthropology (3:3)
Pr. 212, 213, or 3 hours of social science
Analysis of the economic organization of tribal and peasant peoples with special attention given to their participation in a world economy; emphasis on economic models of social change.

523 Applied Archaeology: Shovel Bums to Managers (3:3)
Pr. 360 or 370 or permission of instructor
Overview of theory and skills needed to work as an applied archaeologist in the public sector. Topics include cultural resource management and public outreach projects.

524 Applied Anthropology (3:3)
Application of anthropological method and theory in situations of directed sociocultural change.

526 Anthropological Perspectives on Food and Agriculture (3:3)
Pr. 213
Examines linkages among food producers, marketing strategies, and natural resource use in different cultures, and explores the influence of agriculture on society and the environment.

533 Archaeology of Mexico (3:3)
Pr. junior or senior standing in anthropology or archaeology or permission of instructor
Investigation of the major pre-Hispanic cultural developments in Mexico with emphasis on internal culture change (from early man to the rise of great civilizations such as the Aztec and Maya) and relationships with adjacent areas.

547 Belief and Value Systems (3:3)
Examination of sacred and secular beliefs in cross-cultural perspective. Emphasis on symbols, ritual, and their function.

553 Human Osteology: Description, Data Collection, and Analysis (3:2:3)
Pr. 253 or 3 hours of biological science
Detailed coverage of anatomical structures on bone and methods involving inventory, description, data collection, and analysis of human remains. Topics include functional and comparative skeletal anatomy, bone microstructure, and physiology.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>555</td>
<td>Human Evolution (3:3)</td>
<td>Pr. 253 or 3 hours of biological science</td>
<td>Study of the biological and cultural evolution of humans through time.</td>
</tr>
<tr>
<td>557</td>
<td>Primate Behavior (3:3)</td>
<td>Pr. 253 or permission of instructor</td>
<td>Overview of primatology and of methods for studying the behavior of prosimians, monkeys, and apes. Involves experience in data collection, computerized data analysis, and producing a scientific paper.</td>
</tr>
<tr>
<td>559</td>
<td>Disease and Nutrition in Ancient Populations (3:3)</td>
<td>Pr. 253 or NTR 213 or 3 hours of biological science</td>
<td>Evaluation of past disease and nutritional status using skeletal remains and other tissues. Topics include differential diagnosis of pathology, analysis of mummified material, and chemical methods of dietary reconstruction.</td>
</tr>
<tr>
<td>576</td>
<td>Culture and Personality (3:3)</td>
<td></td>
<td>Cross-cultural analysis of the effect and influence of culture and group membership on the development of personality.</td>
</tr>
<tr>
<td>578</td>
<td>Research Methods in Historical Archaeology (3:3)</td>
<td></td>
<td>Training in research methods in historic archaeology. Involves on-site training in field, laboratory, and library components of historic archaeology. (Same as IAR/HIS 578)</td>
</tr>
<tr>
<td>583</td>
<td>Culture and Society (3:3)</td>
<td></td>
<td>Critical analysis of the concepts of culture and society and their employment in understanding human behavior in a cross-cultural context. Not open for credit to anthropology majors. May not be taken for credit by students who have received credit for 213.</td>
</tr>
<tr>
<td>585</td>
<td>Social Dialects (3:3)</td>
<td></td>
<td>Consideration of differences in social dialects (speech patterns) among males and females, social classes, regions, and ethnic groups. Includes attitudes about social dialects, models for describing social dialect differences, and consequences of social dialects.</td>
</tr>
<tr>
<td>587</td>
<td>Foundations of Linguistic Theory (3:3)</td>
<td>Pr. permission of instructor</td>
<td>In-depth study of modern linguistic theory and its historical antecedents. An extensive background in a language related discipline is required. Application of linguistic theory will be included.</td>
</tr>
<tr>
<td>589</td>
<td>Experimental Course</td>
<td></td>
<td>This number reserved for experimental courses. Refer to the Course Schedule for current offerings.</td>
</tr>
<tr>
<td>595</td>
<td>Current Issues in Anthropology (3:3)</td>
<td>Pr. senior status in anthropology or permission of instructor</td>
<td>Capstone seminar on current issues in the various sub-fields of anthropology, how they relate to the discipline as a whole, and their significance to anthropology’s role in the modern world.</td>
</tr>
<tr>
<td>597, 598</td>
<td>Special Problems in Anthropology (3:3, 3)</td>
<td>Pr. permission of faculty member with whom student wishes to work</td>
<td>Opportunity for advanced students to undertake independent study or research of special interest.</td>
</tr>
<tr>
<td>601, 602</td>
<td>Selected Topics in Anthropology (3,3)</td>
<td>Pr. permission of instructor</td>
<td>Advanced level work on a selected topic in anthropology.</td>
</tr>
<tr>
<td>671</td>
<td>Ethnographic Methods (3:3)</td>
<td></td>
<td>A guide to the conduct of ethnographic research; an introduction to culture theory, the elements of research design, data collection and analysis, and the sociological significance of an interpretative paradigm.</td>
</tr>
</tbody>
</table>
Department of Art

Professors
Porter Aichele, Ph.D.
19th and 20th century art, interdisciplinary studies pairing the visual arts with music and literature.

Carl Goldstein, Ph.D.
Art history from Renaissance to modern, art criticism.

Billy Lee, M.F.A.
Sculpture; drawing, design.

John Maggio, M.F.A.
Tamarind Master Printer, printmaking, painting, mixed media.

Associate Professors
Michael Ananian, M.F.A.
Figurative painting and drawing.

Nikki L. Blair, M.F.A.
Ceramics and mixed media sculpture (Director of Graduate Study).

George Dimock, Ph.D.
Modern art and critical theory, with emphasis on constructions of childhood.

Andrew M. Dunnill, M.F.A.
Steel, cast metal and mixed media sculpture, drawing.

Amy Lixl-Purcell, M.F.A.
Intermedia art, work with computer and electronic media and installations.

Patricia Wasserboehr, M.F.A.
Sculpture and drawing (Head of Department).

Assistant Professors
Christopher Cassidy, M.F.A.
Design (digital).

Seth Ellis, M.F.A.
Design (digital).

Heather Holian, Ph.D.
Ancient through Renaissance art history.

Elizabeth Leal, Ph.D.
Art education.

Sarah Martin, M.F.A.
Design (photography/video).

Mariam A. L. Stephan, M.F.A.
Painting and drawing.

Barbara Thomas, M.F.A.
Drawing and painting.

Lee Walton, M.F.A.
Printmaking and design.

Adjunct Faculty
Xandra Eden, M.A.
Museum studies (Curator of Exhibitions, Weatherspoon Art Museum).
The Department of Art offers graduate work leading to two degrees: Master of Fine Arts with a major in studio arts, and Master of Education with a concentration in art. Only those students enrolled in a degree program with a full-time load of courses may use space, equipment, and facilities of the Art Department. Part-time students may use only the facilities directly connected with the courses in which they are enrolled.

MFA Requirements for the Master of Fine Arts in Studio Arts

To complete the M.F.A. program, the student must complete 60 hours of course work in studio art, art criticism, art history and electives, pass all required examinations, and complete thesis work.

Required Core Courses (9 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 600</td>
<td>Writing Art Criticism (3)</td>
</tr>
<tr>
<td>ART 620</td>
<td>Drawing (4)</td>
</tr>
<tr>
<td>ART 622</td>
<td>Drawing Marathon (2)</td>
</tr>
</tbody>
</table>

Studio Courses (26-30 hours)

To be selected from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 520</td>
<td>Anatomy for the Artist (3)</td>
</tr>
<tr>
<td>ART 525</td>
<td>Advanced Metal Casting (3)</td>
</tr>
<tr>
<td>ART 529</td>
<td>The Multi-Media Print (3)</td>
</tr>
<tr>
<td>ART 531</td>
<td>Painting (3)</td>
</tr>
<tr>
<td>ART 535</td>
<td>Variable Topics in Painting (3)</td>
</tr>
<tr>
<td>ART 540</td>
<td>Digital Visualization and Methods (3)</td>
</tr>
<tr>
<td>ART 545</td>
<td>Interactive Web Design (3)</td>
</tr>
<tr>
<td>ART 550</td>
<td>Sculpture/Installation (3)</td>
</tr>
<tr>
<td>ART 557</td>
<td>Site-Specific Sculpture (3)</td>
</tr>
<tr>
<td>ART 589</td>
<td>Experimental Course (when topic is appropriate)</td>
</tr>
<tr>
<td>ART 592</td>
<td>Professional Practices, Aesthetics and Preparation for the Visual Artist (3)</td>
</tr>
<tr>
<td>ART 626</td>
<td>Woodcut and Wood Engraving (4)</td>
</tr>
<tr>
<td>ART 627</td>
<td>Lithography (4)</td>
</tr>
<tr>
<td>ART 628</td>
<td>Etching (4)</td>
</tr>
<tr>
<td>ART 629</td>
<td>Studio Problems in Drawing, Painting, or Printmaking (4)</td>
</tr>
<tr>
<td>ART 631, 632</td>
<td>Painting and Drawing (2) (2)</td>
</tr>
<tr>
<td>ART 633, 634</td>
<td>Painting and Drawing (4) (4)</td>
</tr>
<tr>
<td>ART 635</td>
<td>Variable Topics in Painting (4)</td>
</tr>
<tr>
<td>ART 636, 637</td>
<td>Painting Research Seminar (4) (4)</td>
</tr>
<tr>
<td>ART 641</td>
<td>Variable Topics in Design (4)</td>
</tr>
<tr>
<td>ART 649</td>
<td>Studio Problems in Design (4)</td>
</tr>
<tr>
<td>ART 655, 656</td>
<td>Sculpture (2) (2)</td>
</tr>
<tr>
<td>ART 657, 658</td>
<td>Sculpture (4) (4)</td>
</tr>
<tr>
<td>ART 659</td>
<td>Studio Problems in Sculpture (4)</td>
</tr>
<tr>
<td>ART 682</td>
<td>Ceramics (4)</td>
</tr>
<tr>
<td>ART 685</td>
<td>Photography (4)</td>
</tr>
<tr>
<td>ART 699</td>
<td>Thesis (1-6)</td>
</tr>
<tr>
<td>ART 711</td>
<td>Experimental Course (when topic is appropriate)</td>
</tr>
</tbody>
</table>

Art History Courses (9 hours)

To be selected from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 500</td>
<td>Traditions of Art Criticism (3)</td>
</tr>
<tr>
<td>ART 501</td>
<td>Topics in the History of Art (3)</td>
</tr>
<tr>
<td>ART 502</td>
<td>Historiography and Methodology (3)</td>
</tr>
<tr>
<td>ART 590</td>
<td>Museum Studies (3)</td>
</tr>
<tr>
<td>ART 601</td>
<td>Public Art (3)</td>
</tr>
<tr>
<td>ART 602</td>
<td>The Teaching of Art from Vasari to Albers (3)</td>
</tr>
<tr>
<td>ART 605</td>
<td>Perspectives in Contemporary Art (3)</td>
</tr>
<tr>
<td>ART 606</td>
<td>A Study of the Artist (3)</td>
</tr>
<tr>
<td>ART 618</td>
<td>Topics in the History of Art (3)</td>
</tr>
<tr>
<td>ART 619</td>
<td>Research Problems in Art History, Art Criticism (3)</td>
</tr>
</tbody>
</table>

Electives (12 hours)

Elective hours may be selected from any of the courses listed above, from other 500- and 600-level courses taught in the Department of Art, or from 500- and 600-level courses taught in related areas with the permission of the student’s advisor and the Department Head.

Admission to Candidacy

To be formally admitted to candidacy for the M.F.A. degree, students must have successfully completed two semesters of full-time graduate work, including ART 620 and 622, removed all deficiencies, possess a B (3.0) average in all courses taken during the first two semesters, and have an overall grade record consistent with the regulations stated in The Graduate School Bulletin. In addition, the application to candidacy must be approved by a committee of the Art Department graduate faculty to be appointed by the department head. The committee will meet with students to review work and sign candidacy forms early in the fall semester of the second year of graduate work. Students are limited to two candidacy reviews. If a student is not admitted to candidacy during the first review, the review team will issue written recommendations for further studies. The second review will take place.

Admission Requirements

In addition to the application materials required by The Graduate School applicants should have 39 hours or the equivalent of undergraduate credits in studio art and 15 hours of art history and must submit 20 images on a CD or DVD of recent work. Candidates are also encouraged to attend a Portfolio and Interview Day following the deadline for applications.
within a year of the first. Failure to pass candidacy for the second time will prohibit the student from continuing in the program.

**Comprehensive Examination**

**Studio Comprehensive**

Once the student has passed candidacy, completed 16 hours of graduate studio work, has a B (3.0) average, and has been in residency for two semesters, a meeting is arranged to review the student’s work and consider the following options: 1) independent work to strengthen studio skills, or 2) further structured course study.

Students must pass the studio comprehensive prior to beginning thesis work.

**Art History Comprehensive**

This written examination is scheduled each semester and tests competence in art history with identifications of 25 specific works and three to four general essay questions.

**Thesis (2-6 hours) (Capstone Experience)**

After passing candidacy review in the fall, the student consults with the Department Head to select a thesis chair. The thesis chair and the student will consult together on the remaining members of the committee. The Department Head and the Director of Graduate Study will review the membership of the committee before the student begins thesis work.

The committee shall consist of four to five faculty members who hold graduate faculty status in the University. Part-time faculty do not serve on thesis committees. One member of the committee shall be a studio faculty member who teaches in the same discipline as the student’s studio pursuit. One other member shall be an art historian. It is optional for the student to select one faculty member from another department or school on campus. This faculty member should be pursuing scholarly or research work that relates to the student’s field of interest. Thesis chairs can be selected from the studio art or art history faculty.

Students may undertake final thesis work (ART 699 Thesis) only after passing the studio comprehensive and receiving the approval of their thesis committee members.

Early in the final semester of thesis work, the student should arrange a meeting of the thesis committee. At this meeting the committee should discuss all aspects of final thesis work, including the thesis paper, the oral examination, and the thesis exhibition. The thesis paper should be five to ten pages in length, conform to Graduate School requirements, and be signed by all committee members before submission to The Graduate School. The body of work submitted for the thesis exhibition must receive final approval of all committee members.

**MEd Requirements for the Master of Education in Art Education**

For 2008-2009, no new degree candidates will be accepted.

**ART Art Courses**

First-year M.F.A. students enroll in scheduled courses. Second-year students may enroll in one Studio Problems course (629, 649, 659) with the prior consent of the supervising instructor.

500 Traditions of Art Criticism (3:3)

*Pr. junior standing or graduate status*

A study of the major critical traditions from the Renaissance to the present.

501 Topics in the History of Art (3:3)

*Pr. junior standing or graduate status*

Special topics in the history of art, ancient to modern. May be repeated for credit when topic varies.

502 Historiography and Methodology (3:3)

*Pr. graduate standing and completion of 15 or more undergraduate hours in art history or permission of instructor*

Case studies in the development of art history as a discipline and applied practice of methodologies developed for art-historical analysis.

520 Anatomy for the Artist (3:1:6)

*Pr. 150 or permission of instructor*

Visual analysis of the human form with an emphasis on the skeleto-muscular system.

525 Advanced Metal Casting (3:1:6)

*Pr. 353 or permission of instructor*

Advanced theory and practice of metal casting. May be repeated for credit when topic varies.
529 The Multi-Media Print (3:1:6)
Pr. one of the three 200-level courses in printmaking: 226, 228, or 229 and 241
Experimental forms of image making utilizing diverse sources of technical and aesthetic references including electronic media, photography, monoprints, collagraphy, 3-D constructions, and traditional printmaking methods and processes. May be repeated for credit with permission of instructor.

531 Painting (3:1:6)
Pr. senior or graduate standing
Theories, methods, and studio techniques characteristic of recent trends in painting. May be repeated for credit when topic varies.

535 Advanced Painting (3:1:6)
Pr. advanced undergraduate or graduate standing
Advanced theory and practice of painting. Wide variety of media and genres will be explored. May be repeated for credit.

540 Digital Visualization and Methods (3:2:3)
Pr. 240, 340, senior status or M.F.A. status or permission of instructor
Studio investigation of the ways that digital methods expand and change visual vocabulary and methods. Emphasis on refining personal artistic vision and establishing connections between traditional and digital methods. May be repeated once for credit with permission of instructor.

545 Interactive Web Design (3:2:3)
Pr. 240 and 340, or permission of instructor
Development of web graphics and interactive web based environments that demonstrate an understanding of navigation, usability, and functionality within a creative framework.

550 Sculpture/Installation (3:1:6)
Pr. 355, 356, 481
Investigate the sculpture possibilities of a space through art making, conceptual development, and personal research with a focus on contemporary and historical issues.

557 Site-Specific Sculpture (3:1:6)
Pr. 355 or permission of instructor
Provides opportunity to make site-specific sculpture; process of making work in the public arena from initial conception, interaction with jury committee, to completed sculpture. May be repeated for credit.

563 Trends and Teaching in Art: Special Populations (3:2:1)
Pr. graduate status; completion of 363, student teaching or equivalent, or permission of instructor
Curricular and instructional principles, processes, and designs applicable to special populations in various school, institutional, or community settings.

565 Issues in Art Education (3:3)
Pr. graduate status or permission of instructor
Exploration of issues in art or education which affect the teaching of art. May be repeated once for credit when topic varies.

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

590 Museum Studies (3:3)
Pr. junior standing and permission of instructor
Study of diverse operations and institutional missions of art museums, including management, governance, development, collections management, education, and curatorial activities.

592 Professional Practices, Aesthetics and Preparation for the Visual Artist (3:3)
Pr. full-time graduate status
Emerging artists participate in their community and acquire the skills of career professionals. May be repeated once for credit.

600 Writing Art Criticism (3:3)
Examination of the assumptions and methods of modern and contemporary art criticism through a close reading of texts and the writing of original criticism.

601 Public Art (3:3)
Study of traditional monuments, such as the pyramids, Michelangelo’s David, and recent large-scale works, including the Vietnam Memorial, with attention to questions of site, scale, purpose, and audience.

602 The Teaching of Art from Vasari to Albers (3:3)
A study of ways in which artists have taught art to other artists from the Renaissance of Michelangelo to the Modern period of such artists as De Kooning.

605 Perspectives in Contemporary Art (3:3)
Seminar on artists whose work or writings have raised critical questions relevant to recent art. May be repeated for credit when topic varies.

606 A Study of the Artist (3:3)
Study of the biography, development, and critical evaluation of one artist, such as Michelangelo, Rembrandt, Rodin, Cézanne, Picasso, Matisse, or Pollock. May be repeated for credit when topic varies.

618 Topics in the History of Art (3:3)
Pr. permission of instructor
Special topics in the history of art, ancient to modern. May be repeated for credit when topic varies.

619 Research Problems in Art History, Art Criticism (3:3)
Independent research in art history or criticism. May be repeated for credit.

620 Drawing (4:2:6)
Pr. M.F.A. candidates or permission of instructor
Drawing from observation, memory, imagination. Drawing as a record of the reflection and invention by which visual ideas are explored and developed. May be repeated once for credit when instructor changes.

622 Drawing Marathon (2:1:3)
Pr. 620
Four two-day sessions of intensive drawing from figure, interior, still life, and imagination using a variety of materials. Emphasis on longer periods of uninterrupted drawing. May be repeated for credit when topic varies.

626 Woodcut and Wood Engraving (4:2:6)
Aesthetic and technical exploration of relief methods in woodcut. May be repeated for credit when topic varies.

627 Lithography (4:2:6)
Aesthetic and technical exploration of planographic methods in lithography. May be repeated for credit when topic varies.
628 Etching (4:2:6)
Aesthetic and technical exploration of intaglio methods in etching. May be repeated for credit when topic varies.

629 Studio Problems in Drawing, Painting, or Print-making (4)
Pr. admission to candidacy and permission of instructor
Independent work in drawing, painting, or print-making. May be repeated for credit.

631, 632 Painting and Drawing (2:1:3), (2:1:3)
Pr. 6 semester hours undergraduate painting and drawing, or a working knowledge of painting and drawing techniques
Creative work in painting and drawing with an emphasis on observation. May be repeated for credit when topic varies.

633, 634 Painting and Drawing (4:2:6), (4:2:6)
Pr. 6 semester hours undergraduate painting and drawing, or a working knowledge of painting and drawing techniques
Creative work in painting and drawing with an emphasis on observation. May be repeated for credit when topic varies.

635 Painting (4:2:6)
Pr. M.F.A. candidates or permission of instructor
Advanced practice and theory of painting with an inclusive interpretation of painting. May be repeated for credit.

636, 637 Painting Research Seminar (4:2:6)
Research and study on selected painting problems.

641 Variable Topics in Design (4:2:6)
Special studio topics in design ranging from digital photography to systems based art. May be repeated for credit when topic varies.

649 Studio Problems in Design (4)
Pr. admission to candidacy and permission of instructor
Independent work in design, fibers, clay, metals, or photography. May be repeated for credit.

655, 656 Sculpture (2:1:3), (2:1:3)
Pr. 6 s.h. undergraduate sculpture or a working knowledge of basic sculpture techniques and permission of instructor
Advanced work in sculpture. May be repeated for credit when topic varies.

657, 658 Sculpture (4:2:6), (4:2:6)
Pr. 6 s.h. undergraduate sculpture or a working knowledge of basic sculpture techniques and permission of instructor
Advanced work in sculpture. May be repeated for credit when topic varies.

659 Studio Problems in Sculpture (4)
Pr. 6 s.h. undergraduate sculpture or a working knowledge of basic sculpture techniques. Admission to candidacy and permission of instructor
Advanced work in sculpture. May be repeated for credit.

663 Practicum: Schools, Museums, or Other Settings (3)
Planned administrative or research and development activities in a school, museum, or community setting.

665 Art Education (3:3)
Selected problems of curricula, administration, method, and general education.

669 Special Problems in Art Education (3:3)
Independent work in Art Education for advanced graduate students. May be repeated for credit.

682 Ceramics (4:2:6)
Pr. 6 semester hours of undergraduate ceramics or a working knowledge of basic ceramic techniques and permission of instructor
Advanced work in ceramics. May be repeated for credit when topic varies.

685 Photography (4:2:6)
Pr. 6 studio hours in undergraduate photography or a working knowledge of photographic techniques or permission of instructor
Advanced work in photography. May be repeated for credit when topic varies.

690 Experimentation and Analysis: Studio Arts (3:1:6)
Designed to provide non-studio art majors an understanding of studio arts as creative activities. Not open to studio arts majors.

699 Thesis (1-6)

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

801 Thesis Extension (1-3)

803 Research Extension (1-3)
Professors
Robert E. Cannon, Ph.D.
Microbiology.

Vincent C. Henrich, Ph.D.
Molecular aspects of hormonal regulation in development.

Anne E. Hershey, Ph.D.
Aquatic ecology, lake trophic interactions, nutrient limitation and organic matter processing in arctic lakes, urban streams, and reservoirs.

Elizabeth P. Lacey, Ph.D.
Plant evolutionary ecology, parental effects, phenotypic plasticity of plants.

W. John O’Brien, Ph.D.
Aquatic ecology, zooplankton ecology, limnology of arctic lakes.

Parke A. Rublee, Ph.D.
Microbial food webs in aquatic ecosystems.

Robert H. Stavn, Ph.D.
Aquatic ecology, zooplankton ecology, limnology of arctic lakes.

Patricia A. Sullivan, Ph.D.
Blood cell biology, biomedical ethics.

Adjunct Professors
Timothy Johnston, Ph.D.
Comparative studies of behavioral development and evolution, and the history of developmental theories in psychology and biology.

Cheryl Logan, Ph.D.
Animal communication, behavioral endocrinology, reproductive functions of mockingbird song and male-female interactions during breeding.

Associate Professors
Amy L. Adamson, Ph.D.
Virus-host cell interactions.

Karen S. Katula, Ph.D.
Gene regulation, cell cycle control (Director of Graduate Study).

Bruce K. Kirchoff, Ph.D.
Evolution of development, plant morphology and systematics, characters and character states.

Dennis R. LaJeunesse, Ph.D.
Developmental genetics and cell biology.

Esther M. Leise, Ph.D.
Neurobiology, settlement and metamorphosis of marine invertebrates.

John J. Lepri, Ph.D.
Coordination of reproductive behavior and physiology of mammals, chemical senses (Head of Department).

Malcolm Schug, Ph.D.
Population genetics and evolutionary biology.

Paul A. Steimle, Ph.D.
Molecular mechanisms of cell motility.

Adjunct Associate Professors
Michael K. McIntosh, Ph.D.
Hormonal and nutrient influence on energy metabolism and gene expression in adipocytes.

Promod R. Pratap, Ph.D.
Biophysical dynamics of active-transport systems, kinetics of the sodium pump (Na⁺-K⁺-ATPase) in mammalian kidney.
Assistant Professors

Mark D. Hens, Ph.D.
Cell and molecular biology of vertebrate development.

Matina C. Kalcounis-Rüppell, Ph.D.
Mammal behavior, ecology and energetics.

Yashomati M. Patel, Ph.D.
Diabetes, obesity and breast cancer biology.

David L. Remington, Ph.D.
Genetics of complex traits and adaptive evolution in plants.

Olav Rueppell, Ph.D.
Life history and behavior of social insects, aging and genetics of complex traits.

John E. Tomkiel, Ph.D.
Mechanisms of chromosome segregation, Drosophila genetics.

The Department of Biology offers programs of study designed to prepare students for professional careers as researchers. Faculty work closely with each student to tailor a specific curriculum to meet that student’s needs and interests. Students typically complete work for the master’s degree in 2-3 years.

Reflecting the diverse interests of faculty members within the Department, students in the biology master’s program have research opportunities in molecular biology, biochemistry, genetics, cell biology, developmental biology, microbiology, animal and plant physiology, invertebrate and vertebrate zoology, plant morphology and systematics, plant biotechnology, limnology, stream ecology, neurobiology, marine biology, molecular ecology, behavior ecology, and evolution. As a result of a research-intensive graduate experience, successful students will emerge competitively into the life sciences workplace with specific knowledge and practical skills.

Successful applicants are expected to have a strong undergraduate background in biology and science.

Requirements for the Master of Science in Biology

The Department of Biology offers a graduate program of study leading to a 30 hour Master of Science degree. At least 15 hours (including 6 hours of thesis) must be in 600-level courses.

Biology Electives (24-27 hours)
Students will select 24-27 hours from 500- and 600-level biology courses; up to 8 of these hours can be taken at the 500 and 600 level in other departments with the prior approval of the Director of Graduate Study.

Thesis (3-6 hours) (Capstone Experience)
BIO 699 Thesis (3-6)

Prior to the end of the second semester of enrollment, each student is expected to identify a Thesis Advisory Committee composed of a thesis advisor and two other faculty; the composition of the committee must be approved by the Director of Graduate Study. Prior to the end of the third semester of enrollment, each student is expected to present a thesis proposal to the Department. Only after these requirements have been met can a student enroll for credit in BIO 699 Thesis.

Requirements for the Master of Education in Biology

For 2008-2009, no new degree candidates will be accepted.
Although the department tries to offer most courses at least once every other year, staffing and enrollment limitations make it unlikely that every course will be offered according to this schedule. Consult the instructor for the equivalence of listed prerequisites.

501 Advanced Topics in Animal Ecology (3:3)
Pr. previous course in ecology
Directed readings into the literature of physiological ecology, growth and regulation of populations, community structure, energy flow, mineral cycling, and other areas of current research interest.

502 Advanced Topics in Animal Physiology (3:3)
Pr. 277 and 355
Study of physiological mechanisms; selected problems from current literature.

503 Advanced Topics in Biochemistry (3:3)
Pr. 535
Directed reading and reports from the current biochemical literature. Structure and biosynthesis of macromolecules and the composition and kinetic characteristics of biochemical pathways.

504 Advanced Topics in Cell Biology (3:3)
Pr. 355
Advanced treatment of cell biology covering selected topics such as gene regulation, protein sorting, cell cycle control, apoptosis. Lectures and discussion of research articles.

505 Advanced Topics in Ecological Physiology (3:3)
Pr. 477 or 579
Study of a major topic in ecological physiology of animals, including mechanisms by which physiological processes change in response to environmental alterations and the ecological significance of those changes.

506 Advanced Topics in Genetics (3:3)
Pr. 392
Basic mechanisms of gene action in microbes, animals, and plants.

507 Advanced Topics in Neurobiology (3:3)
Pr. 477 and 479, or permission of instructor
Directed readings on fundamental physiological principles of nervous system functioning. Topics may include motor pattern generation, sensory transduction, sensiotori-motor integration, and neurohormonal modulation of behavior.

509 Advanced Topics in Microbiology (3:3)
Pr. 481
Critical review of current research covering a wide range of topics including infectious diseases, bacterial physiology, marine microbiology, and immunology. Focus on students’ interests or needs.

510 Advanced Topics in Plant Ecology (3:3)
Pr. previous course in ecology
Studies of special terrestrial communities or plant groups.

511 Advanced Topics in Plant Physiology (3:3)
Pr. 424
The physiology of growth and development in vascular plants treated in terms of phytohormones, nutrition, theories of transport, and environmental factors.

512 Advanced Topics in Plant Structure and Evolution (3:3)
Pr. 322 or 354 or 440 or permission of instructor
Current topics in plant structure, development and evolution. A term paper is normally required.

513 Advanced Topics in Reproductive Biology (3:3)
Pr. 464, or permission of instructor
Directed readings and original research on reproductive biology, with emphasis on structural, regulatory, behavioral, and evolutionary aspects.

515 Advanced Topics in Vertebrate History (3:3)
Pr. 271 or 453, 370, and 392, and permission of instructor
Directed/independent study of classification and phylogeny of particular vertebrate groups that results in a term paper.

520 Ecosystem Ecology (3:3)
Pr. 301 or permission of instructor
Introduction to ecosystem functions, structure, and dynamics; basic ecosystem theories; discussions of key processes governing energy flow and nutrient cycling; comparison of ecosystems; discussion of selected original literature.

522 Landscape Ecology (3:3)
Pr. 111, 112, and 301; STA 271 recommended

523 Landscape Ecology Laboratory (1:0:4)
Pr. 301 or equivalent. Coreq. 522
Field labs to observe different landscape structures and conduct course projects for comprehending principles of landscape ecology. Students will use computer labs for GIS basics, landscape analyses.

526 Conservation Biology (3:3)
Pr. 111, 112, 301, and 392; STA 271 recommended
Habitat and species conservation; topics include genetic diversity, demographic patterns of rare species, habitat fragmentation, design and management of nature reserves, ecological restoration.

527 Terrestrial Plant Ecology (3:2:3)
Pr. 111, 112, and 301; STA 271 recommended
Application of principles of ecology to plants and plant communities. Experimental methods stressed in laboratory work. Two required field trips.

528 Microbial Ecology (3:3)
Pr. 301 and either 280 or 481, or permission of instructor
Emphasis on current areas of active research with reference to applied problems.
529 Aquatic Ecology (3:3)
Pr. 301; CHE 114 or permission of instructor
The geology, physics, chemistry, and ecology of lakes, including reservoirs and streams, with comparisons to the ocean.

530 Aquatic Ecology Laboratory (1:0:4)
Coreq. 529
Practical study of water chemistry methods, lake and stream morphometry, identification of freshwater zooplankton, benthic invertebrates and fish, and field trips to area reservoirs and streams.

535 Metabolic Regulation in Health and Disease (3:3)
Pr. 111 and 112, and 277 or 355 or 392, or permission of instructor
Chemical properties of major cellular compounds; biosynthesis, degradation, and function of carbohydrates, lipids, proteins, nucleic acids, vitamins, and hormones; energy metabolism; enzymatic catalysis. (Spring)

540 Genes and Signals (3:3)
Pr. 353 and 392, or permission of instructor
Regulation of gene expression in bacteria, yeast, and higher eukaryotes and how such regulatory systems have evolved.

541 Entomology (3:2:1)
Pr. 111, 112, 301, 341, or permission of instructor; 392 recommended
A theoretical and practical overview of the insect orders, selected topics of insect behavior, ecology and evolution, and an introduction to human-insect interactions.

543 Biophysics (3:3)
Pr. PHY 211, 212 or 291, 292, MAT 191, BIO 355, CHE 111, 114, or permission of instructor
Cellular biophysics with emphasis on the physical properties of membranes, including membrane transport mechanisms and electrical properties of membranes. (Same as PHY 543)

545 General Biochemistry Laboratory (1:0:3)
Pr. 535, which may be taken concurrently
Experimental work designed to complement lecture material of 535.

549 Current Topics in Biology (1-3)
Pr. permission of instructor
Advanced topics courses dealing with contemporary issues in the biological sciences. Course topics vary with instructors.

552 Metamorphosis (3:3)
Pr. 353 and one 400-level course in biology
Readings, discussions, and oral presentations of current literature on metamorphosis in animals. Mechanisms controlling metamorphosis, evolution of complex life cycles, and adaptations to differing habitats.

555 Vertebrate Reproduction (3:3)
Pr. 464 or permission of instructor
An advanced treatment of the diversity of vertebrate reproductive biology, with emphasis on structural, regulatory, behavioral, and evolutionary aspects.

560 Symbiosis (3:3)
Pr. any three core courses or permission of instructor
Symbiotic interactions of living organisms from an evolutionary perspective. Metabolic, genetic, behavioral, and ecological adaptations which allow symbioses to be formed and maintained will be discussed.

567 Chemical Senses (3:3)
Pr. 111 and 112, and 355, and one of the following: 277, 472, 477, 479, PSY 435, PSY 436, or permission of instructor
Exploration and interactive discussion of chemosensory stimuli, chemosensory transduction mechanisms, neural processing of chemosensory information, and organismal consequences of chemoreception.

573 Drugs and the Brain
Pr. 111, 112, 355 and one of the following: 277, 477, 479, PSY 320; or permission of instructor. CHE 351 recommended.
Pharmacology of major neurotransmitter systems in the brain and nervous system. Actions of clinically relevant drugs on these systems will be analyzed along with the major drugs of abuse.

575 Neuroanatomical Techniques (3:2:4)
Pr. 111 and 112, and 355 and one of the following: 453, 472, 477, 479, PSY 355, or permission of instructor
Practical experience with a variety of neuroanatomical procedures used to investigate the structural framework of nervous systems in invertebrate and vertebrate preparations. Students will learn to conduct independent projects.

578 Hormones in Action (3:3)
Pr. 277, 355, 392
Hormonal signaling in humans and other animals is examined using developmental, physiological, behavioral, cellular, and molecular perspectives, with special emphasis on the adrenal glands and the gonads.

579 Environmental Physiology (3:3)
Pr. 341, 355 or 370; plus 277 or 477
Lectures, discussions, and student presentations on the physiology of animals as it is influenced by and is adapted to environmental conditions.

583 Virology (3:3)
Pr. 481 or permission of instructor
Selected topics in virology. Emphasis upon new trends in the study of animal, plant, and bacterial viruses at both molecular and cellular levels.

584 Immunology (3:3)
Pr. 481 or permission of instructor
Principles of immunology and serology covering both humoral and cellular aspects of immunobiology. Selected topics to include T and B cell, immunoglobulins, tolerance, hypersensitivity.

586 Cell Cycle and Cancer (3:3)
Pr. 111, 112, 355, 392 or permission of instructor
Molecular basis of cell division and cancer examined through lectures and discussions of primary literature. Topics include cell cycle control, genomic stability, carcinogenesis, and cancer genetics.

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.
591 Population Genetics and Molecular Evolution (3:3)
  Pr. 392 or permission of instructor
  Application of population genetics and molecular evolutionary theory to the study of natural history, natural selection, genome variation and organization, human evolution, conservation biology, and forensics.

592 Genomics
  Pr. 392 or permission of instructor
  An examination of genomic concepts and technologies; their application to understanding genome content, structure, function, and evolution; implications for understanding fundamental biological and health questions; and management of genomic data.

593 Genetics of Complex Traits (3:3)
  Pr. 392 or permission of instructor
  Theory, experimental methods, and analysis related to the genetic basis for variation in complex traits, including quantitative and threshold traits in animals and plants, and complex human diseases.

595 Advanced Genetics (3:3)
  Pr. 392
  Selected topics in genetics at an advanced level. Emphasis placed on comparative view of molecular mechanisms underlying animal and plant development.

596 Molecular Biological Approaches in Research (1:1)
  Pr. 392
  Use of novel molecular approaches to address current questions in the life sciences will be explored by analyzing recent research reports and learning the principles underlying these approaches. Course may be repeated for a total of 3 hours credit.

597 Workshops in Biotechnology (1:0.5:3)
  Pr. 494 or permission of instructor
  Individual, intensive four-week workshops focused on specific techniques in biotechnology. Provides hands-on experience designing and implementing a focused project utilizing current methods and bioinformatics. May be repeated for credit as long as letter suffix of course differs; workshops of a given letter may only be taken once.

Permission of instructor required for all 600-level courses.

601 Seminar in Animal Ecology (3:3)
  Pr. 301
  Literature of animal ecology including both classical and recent papers; using student presentations and class discussions, the ontogeny of some overarching ecological themes explored.

602 Seminar in Animal Physiology (3:3)
  Pr. 477
  Discussion of recent breakthroughs in topics ranging from the hormonal and neural mechanisms involved in homeostasis to the interactive effects of physiology and behavior.

603 Seminar in Biochemistry (3:3)
  Pr. at least one previous course in biochemistry
  Study of recent progress in biochemical research; reading, discussion, and critical evaluation of current literature.

604 Seminar in Ecological Physiology (3:3)
  Pr. 477, 505, or 579
  Discussions of primary literature in the physiological ecology of animals.

605 Seminar in Ecology (3:3)
  Pr. previous course in ecology
  Broad view of ecological literature and in-depth studies of selected aspects of population and community ecology.

606 Seminar in Evolutionary Biology (3:3)
  Pr. 392 plus 271 or 453
  Discussion of fundamental concepts involving the inter-relationships of population genetics, ecology, systematics, and neo-Darwinian evolution; review of recent literature.

608 Seminar in Microbiology (3:3)
  Pr. 481
  Study of recent progress in microbiological research; reading, discussion, and evaluation of current literature.

609 Seminar in Molecular Cell Biology (3:3)
  Pr. 355
  Topics in cell and molecular biology will be reviewed through discussion of research journal articles. Emphasis on modern experimental techniques and approaches.

610 Seminar in Molecular Genetics (3:3)
  Pr. 355 and 392
  Recent advances in molecular genetics; reinforcing basic concepts underlying these developments and understanding their impact on the life sciences.

612 Seminar in Plant Structure and Evolution (3:3)
  Pr. 322, 334 or 440
  Reading and discussion of current research in plant structure, development and evolution.

613 Seminar in Reproductive Biology (3:3)
  Pr. 464
  Directed readings and original research on selected topics in reproductive biology, with emphasis on structural, regulatory, behavioral, and evolutionary aspects.

614 Prenatal Development: Embryology and Teratology (3:3)
  Pr. enrollment in M.S. genetic counseling program or permission of instructor
  Human embryological development with emphasis on normal and abnormal development. Issues in teratology and birth defects, clinical problems associated with birth defects and their means of prevention. (Same as GEN 614)

616 Human Molecular Genetics (3:3)
  Pr. enrollment in M.S. genetic counseling program or permission of instructor
  Review and extension of basic principles of molecular genetics and their application for the characterization, understanding, and treatment of genetically based disorders and susceptibilities. (Same as GEN 616)

621 General Biology for Teachers I (3:3)
  Enrollment restricted to those seeking the M.Ed. in comprehensive science. Topics include scientific method, biochemistry, cells, cellular processes, animal development, and animal physiology.

622 General Biology for Teachers II (3:3)
  Pr. 621
  Enrollment restricted to those seeking the M.Ed. in comprehensive science. Topics include botany, cell division, genetics, evolution, and ecology.
625 Advanced Animal Behavior (3:3)
Pr. 435, or 436, or 438, or permission of instructor
Current research and theories including development and evolution of behavior, sociobiology, behavioral genetics, behavioral ecology, and the use of comparative method. (Same as PSY 625)

649 Research Lab Rotations (1)
Optional course providing credit for participation in laboratory meetings and/or the initiation of preliminary research training in the labs of 1 to 3 potential thesis advisors. Course may be repeated for a total of 3 hours credit. (Graded on S-U basis).

658 Molecular Diagnostics (1:0:3)
Pr. enrollment in M.S. genetic counseling program or permission of instructor
A survey of current clinical methods used for the diagnosis of human genetic disorders. Special emphasis given to the molecular principles, interpretations, and limitations of these tests. (Same as GEN 658)

695 Biological Research (3-6:0:9-18)
Student engages in advanced biological research under the supervision of a member of the Graduate Faculty. Course may be repeated with a maximum of 9 hours credit counting toward the M.S degree. (Graded on S-U basis).

699 Thesis (1-6)
801 Thesis Extension (1-3)
803 Research Extension (1-3)
The Department of Broadcasting and Cinema in cooperation with the Department of Theatre offers an M.F.A. in drama with a concentration in film and video production.

The Department offers a rich and varied curriculum that combines theory and practice and fosters the development of production skills. The curricular offerings are matched by a co-curricular program that includes opportunities to participate in film and video productions, internships, and the Carolina Film and Video Festival. The Festival is a competitive showcase for both student and professional, national and international independent films and videos.

The Department is housed in the McIver Building and in the Carmichael Radio and Television Center. The Carmichael Center, originally constructed as a television and radio facility, is a building unique within the city, region, and the University of North Carolina system. The Department’s faculty is composed of talented artists and scholars with excellent reputations as teachers. Graduate students work closely with faculty on creative and research projects during their course of study.

VISIONS students are restricted from taking any 500-level course without the permission of the Department Head and course instructor. Only officially admitted M.F.A. students can register for 600-level courses.

In addition to the information contained in The Graduate School Bulletin, students are also required to be familiar with the policies and procedures contained in the Departmental graduate handbook, which is available from the Departmental office.

**Admission Requirements**

In addition to the application materials required by The Graduate School, applicants must submit a portfolio consisting of a personal statement, a resume, a sample of their creative work,
and samples of academic papers or work-related writing. Selected candidates are also interviewed by the faculty. Students without previous course work and/or experience in film and video production may be expected to complete additional course work as prerequisites in addition to the normal degree requirements, extending the amount of time it would take to complete the degree.

Admission to the M.F.A. is competitive. The requirements stated above are minimum requirements. Marginal compliance with them does not automatically imply admission.

Requirements for the Master of Fine Arts
in Drama with a Concentration in Film and Video Production

The Master of Fine Arts in drama with a concentration in film and video production is a 60 hour degree. The program requires six regular semesters (excluding summer sessions) to complete (three years). Remedial work, if deemed necessary by the faculty, may extend the period of time it takes to complete the degree.

The program is designed to develop individual artistry in moving image media informed by a sophisticated understanding of media history, theory and aesthetics. Students will explore the audio and visual dimensions of imaging systems and gain skill in film and video production or screenwriting.

Major Studies (39 hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BCN 610</td>
<td>Introduction to Graduate Study</td>
<td>3</td>
</tr>
<tr>
<td>BCN 611</td>
<td>Image and Sound Acquisition for Film and Video</td>
<td>3</td>
</tr>
<tr>
<td>BCN 612</td>
<td>Advanced Cinevideo Editing</td>
<td>3</td>
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<tr>
<td>BCN 613</td>
<td>Advanced Cinevideo Lighting</td>
<td>3</td>
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<tr>
<td>BCN 614</td>
<td>Advanced Cinevideo Sound Production</td>
<td>3</td>
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<tr>
<td>BCN 617</td>
<td>Creating Visual Narratives</td>
<td>3</td>
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<tr>
<td>BCN 618</td>
<td>Writing Short Scripts</td>
<td>3</td>
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<tr>
<td>BCN 620</td>
<td>Seminar in Cinevideo Analysis</td>
<td>3</td>
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<tr>
<td>BCN 625</td>
<td>Seminar in Broadcasting and Cinema</td>
<td>3</td>
</tr>
<tr>
<td>BCN 698</td>
<td>Graduate Practicum in Film and Video</td>
<td>3</td>
</tr>
<tr>
<td>BCN 699a</td>
<td>Master Production in Film and Video I</td>
<td>3</td>
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<tr>
<td>BCN 699b</td>
<td>Master Production in Film and Video II</td>
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Academic Studies (21 hours)

Select seven additional courses from:

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<tbody>
<tr>
<td>BCN 515</td>
<td>Film Theory</td>
<td>3</td>
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<tr>
<td>BCN 524</td>
<td>Media Financing and Distribution</td>
<td>3</td>
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<tr>
<td>BCN 525</td>
<td>Media Organization and Management</td>
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<td>BCN 526</td>
<td>Actuality Genres</td>
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<td>BCN 527</td>
<td>The Auteur</td>
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<td>BCN 528</td>
<td>Studies in Media Genres</td>
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<tr>
<td>BCN 550</td>
<td>Feature Film Script Analysis</td>
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<td>BCN 552</td>
<td>Writing the Feature Film II</td>
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<tr>
<td>BCN 553</td>
<td>Advanced Media Writing</td>
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<tr>
<td>BCN 580</td>
<td>Directing for Television</td>
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<tr>
<td>BCN 584</td>
<td>*UNCG Today</td>
<td>3</td>
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<tr>
<td>BCN 585</td>
<td>Advanced Radio-TV-Film Production</td>
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<td>BCN 586</td>
<td>Producing for UNCG Today</td>
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<tr>
<td>BCN 587</td>
<td>Animation Production</td>
<td>3</td>
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<tr>
<td>BCN 588</td>
<td>Documentary Production</td>
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<tr>
<td>BCN 616</td>
<td>Directing for the Camera</td>
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<td>BCN 617</td>
<td>Creating Visual Narratives</td>
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<td>BCN 619</td>
<td>Production Law and Responsibility</td>
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<td>BCN 684</td>
<td>Advanced Cinevideography</td>
<td>3</td>
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<tr>
<td>BCN 690</td>
<td>Independent Study</td>
<td>3</td>
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<td>BCN 691</td>
<td>Advanced Experimentation</td>
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<td>BCN 695</td>
<td>Client Based Film and Television</td>
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<td>BCN 696</td>
<td>Graduate Internship</td>
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<td>ART 685</td>
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<tr>
<td>MUS 550</td>
<td>Electronic Music</td>
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<tr>
<td>THR 506</td>
<td>Non-Western Theatre and/or Film</td>
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<tr>
<td>THR 534</td>
<td>Acting for the Camera</td>
<td>3</td>
</tr>
<tr>
<td>THR 670</td>
<td>Production Design for Film</td>
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Required Sequence of Courses (60 hours)

Courses must be taken in the semesters as listed below for a candidate to remain in the program:

Year One (24 hours)

<table>
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<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>Fall</td>
<td>BCN 610</td>
<td>Introduction to Graduate Study</td>
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<tr>
<td></td>
<td>BCN 611</td>
<td>Image and Sound Acquisition for Film and Video</td>
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<tr>
<td></td>
<td>BCN 612</td>
<td>Advanced Cinevideo Editing</td>
<td>3</td>
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<td></td>
<td>BCN 617</td>
<td>Creating Visual Narratives</td>
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<td></td>
<td>BCN 618</td>
<td>Writing Short Scripts</td>
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<tr>
<td></td>
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<td>Seminar in Cinevideo Analysis</td>
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<td>BCN 625</td>
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<td></td>
<td>BCN 698</td>
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<td></td>
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Year Two (24 hours)

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<td>Advanced Cinevideo Lighting</td>
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<td>BCN 618</td>
<td>Writing Short Scripts</td>
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<td>BCN 619</td>
<td>Production Law and Responsibility</td>
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<td>BCN 684</td>
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<td>Graduate Internship</td>
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<td>ART 685</td>
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<td>THR 534</td>
<td>Acting for the Camera</td>
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<td>THR 670</td>
<td>Production Design for Film</td>
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Year Three (12 hours)

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<td>Master Production in Film and Video I</td>
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<tr>
<td>Spring</td>
<td>BCN 699b</td>
<td>Master Production in Film and Video II</td>
<td>3</td>
</tr>
</tbody>
</table>

*Courses comprise Capstone Experience
**Reviews**
At the end of each semester, each candidate is reviewed by the faculty for continuance in the program. Reviews assess the candidate’s artistic development and academic success in meeting degree requirements. The student who appears to be having academic difficulty or whose creative potential is questionable may be placed on probation or dismissed from the program.

**Plan of Study**
Prior to completing 30 hours of the program, students must meet with the BCN Director of Graduate Study and agree upon a plan of study for completion of the M.F.A. See “Plan of Study” in the *The Graduate School Bulletin*.

**Degree Candidates**
Degree candidates must adhere to the graduate timetable as listed in the University *Schedule of Courses* for the semester in which they intend to graduate. This includes completion of the Master Production in Film and Video by the deadline for filing a thesis with The Graduate School. Additionally, degree candidates must schedule and have a public screening of the Master Production by the deadline for complete clearance of candidates for degrees listed in the *Schedule of Courses*. Failure to meet these Graduate School deadlines will make a candidate ineligible for graduation that semester.

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**Broadcasting and Cinema Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>515</td>
<td>Film Theory (3:3)</td>
<td>Pr. 101, 203, 205, 301, or graduate standing or permission of instructor</td>
<td>Study of the principal theories of film through the writings of critics, theorists, and directors.</td>
</tr>
<tr>
<td>520</td>
<td>History of Film to 1938 (3:2:3)</td>
<td>Pr. 101 or 225 or graduate standing, or permission of instructor</td>
<td>Advanced study of world cinema from its prehistory in the late 19th century to the beginning of World War II in Europe, emphasizing significant movements, genres, and filmmakers.</td>
</tr>
<tr>
<td>521</td>
<td>History of Film since 1938 (3:2:3)</td>
<td>Pr. 101 or 225 or graduate standing, or permission of instructor</td>
<td>Advanced study of world cinema from the beginning of World War II in Europe through the present, emphasizing significant movements, genres, genres, and filmmakers.</td>
</tr>
<tr>
<td>524</td>
<td>Media Financing and Distribution (3:3)</td>
<td>Pr. admission to the M.F.A. in film and video production or permission of instructor</td>
<td>Processes of raising and budgeting funds and distributing film and videos for theatrical release, direct DVD/video release, or television broadcast.</td>
</tr>
<tr>
<td>525</td>
<td>Media Organization and Management (3:3)</td>
<td>Pr. 101 or 102, 205, and 301; or graduate standing or permission of instructor</td>
<td>Principles and practices of the organization and management of electronic media and motion pictures.</td>
</tr>
<tr>
<td>526</td>
<td>Actuality Genres (3:2:3)</td>
<td>Pr. 100, 101 or 102, 203, 205, 301, or graduate standing or permission of instructor</td>
<td>History and theory of reality-based genres in cinema, radio, television, and multimedia. Study of trends and significant works from the early actuality film through postmodern news docudramas.</td>
</tr>
<tr>
<td>527</td>
<td>The Auteur (3:2:3)</td>
<td>Pr. 101 (film auteur) or 102 (radio or television auteur), 203, 205, 301, or graduate standing or permission of instructor</td>
<td>Study of the works of an individual director. Subject differs from offering to offering. May be repeated for credit.</td>
</tr>
<tr>
<td>528</td>
<td>Studies in Media Genres (3:2:3)</td>
<td>Pr. 101 (film genre) or 102 (radio or television genre), 203, 205, 301, or graduate standing or permission of instructor</td>
<td>Technical, dramatic, social, and rhetorical dimensions of a media genre. Subject differs from offering to offering. May be repeated for credit.</td>
</tr>
<tr>
<td>550</td>
<td>Feature Film Script Analysis (3:3)</td>
<td>Pr. 203, 204, 205 and 350; graduate standing; or permission of instructor</td>
<td>Analysis of the key structural and thematic elements of feature screenplays.</td>
</tr>
<tr>
<td>551</td>
<td>Writing the Feature Film I (3:3)</td>
<td>Pr. 203, 350, 550; and admission to appropriate degree program or permission of instructor</td>
<td>Advanced study of screenwriting with emphasis on the creation of a step outline for a feature length screenplay.</td>
</tr>
<tr>
<td>552</td>
<td>Writing the Feature Film II (3:3)</td>
<td>Pr. 551</td>
<td>A writing workshop in which students complete the first draft and a polish of a feature-length screenplay based on the outline from BCN 551.</td>
</tr>
<tr>
<td>553</td>
<td>Advanced Media Writing (3:3)</td>
<td>Pr. 203, 204, and 301 or permission of instructor</td>
<td>Practice in television script-writing with emphasis given to development of concepts and proposals for episodic television. Practice in analyzing and writing for existing television series / development of new programs.</td>
</tr>
<tr>
<td>580</td>
<td>Directing for Television (3:2:3)</td>
<td>Pr. 203, 205, 271, 272, 301, 371, and admission to appropriate degree program or permission of instructor</td>
<td>Fundamental principles of directing for television. Laboratory directing experience.</td>
</tr>
</tbody>
</table>
584  INCG Today (3:2:3)
Pr. admission to the M.F.A. in film and video production or permission of instructor after resume review and interview
Principles of directing for television in the context of live-to-tape studio techniques in the production of UNC Today, UNCG’s commercially released campus television program.

585  Advanced Radio-TV-Film Production (3:2:3)
Pr. 203, 205, 207 or 271 and 272, 301, and admission to appropriate degree program; or permission of instructor
Advanced application of principles and techniques of radio, television, and film production. May be repeated for credit.

586  Producing for INCG Today (3:2:3)
Pr. 580 or 584 or permission of instructor
Producing for television in the context of live-to-tape studio techniques in the creation of UNC Today, UNCG’s commercially released campus television program.

587  Animation Production (3:3)
Pr. 203, 205, 271, 272, 301, 371 and admission to appropriate degree program or permission of instructor
Study and practice of techniques of animation.

588  Documentary Production (3:2:3)
Pr. 203, 205, 271, 272, 301, 371 (443 and 526 recommended), and admission to appropriate degree program or permission of instructor
Documentary construction, research, planning, and production techniques. Further development of video production skills in supervised laboratory project.

589  Experimental Course
This number reserved for experimental courses. Refer to the Schedule of Courses for current offerings.

610  Introduction to Graduate Study (3:3)
Pr. admission to appropriate degree program
Development of research and writing skills, introduction to grant writing, and professional presentations. Consideration of issues in teaching. Required of M.F.A. degree candidates.

611  Image and Sound Acquisition for Film and Video (3:3)
Corq. 612 or permission of instructor
Theory and practice of single camera and audio production for film and video.

612  Cinevideography Editing (3:2:3)
Corq. 611 or permission of instructor
Study of techniques and aesthetics of film and video editing.

613  Cinevideography Lighting (3:2:3)
Pr. 611, 612, or permission of instructor. Corq. 614
Physical properties of light, lighting theories, aesthetics of lighting, and advanced practical experience in lighting for single camera cinevideography.

614  Cinevideography Sound Production (3:2:3)
Pr. 611, 612. Corq. 613
Exploration of equipment and technique of sound design for film and video.

616  Directing for the Camera (3:3)
Pr. admission to appropriate degree program
Development of skills required for directing film or video production.

617  Creating Visual Narratives (3:3)
Pr. permission of instructor
Students are guided through a series of step-by-step innovative methodologies that result in visually dynamic scripts that prepare them to take 618, Writing Short Scripts.

618  Writing Short Scripts (3:3)
Pr. admission to appropriate degree program or permission of instructor
Theory and practice of writing short scripts for film and video production.

619  Production Law and Responsibility (3:3)
Pr. permission of instructor
Legal, ethical, and civic responsibilities of media producers with emphasis on creation of independent works in film and video.

620  Seminar in Cinevideo Analysis (3:3)
Pr. 515 and admission to appropriate degree program
Analysis of film and video works using existing principles and theories.

625  Seminar in Broadcasting and Cinema (3:3)
Pr. admission to appropriate degree program
Subject matter varies. May be repeated for credit.

684  Advanced Cinevideography (3:3)
Pr. 611, 612, 613, and 614 and admission to appropriate degree program or permission of instructor
Principles and techniques of film production.

690  Independent Study (1-3)
Pr. admission to appropriate degree program, permission of instructor, major advisor, and Department Head
Preparation for the evaluation of experiences in the creative processes of broadcasting or film. Analysis, documentation, and critical evaluation of the specific experience.

695  Client Based Film and Television (3:0:6)
Pr. admission to appropriate degree program and permission of instructor
Complete production of a client sponsored program. Emphasis on client collaboration, application of technical skills and aesthetic abilities in an environment in which students may not have complete creative control.

696  Graduate Internship (3)
Pr. second or third year standing in the graduate program
Field experience in film or video production companies, postproduction houses, or television stations. Academic supervision provided by faculty and directed activity in the field provided by site supervisor.

698  Graduate Practicum in Film and Video (3:0:9)
Pr. admission to appropriate degree program and permission of instructor
Guided practice in carrying out major responsibilities in sponsored or independent film/video productions.

699a  Master Production in Film and Video I (3)
Pr. third year in M.F.A. film/video degree concentration
Research, development, and execution of a major work produced on film or videotape. (Graded on S-U basis)

699b  Master Production in Film and Video II (3)
Pr. third year in M.F.A. film/video degree concentration
Research, development, and execution of a major work produced on film or videotape. (Graded on S-U basis)

711  Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.
Department of Business Administration

Professors

E. Holly Buttner, Ph.D.
Female entrepreneurship, the capital acquisition process in entrepreneurship, stress management, women in management.

Kevin B. Lowe, Ph.D.
Leadership, international human resource management, strategic human resource management, work teams.

Stephen R. Lucas, Ph.D.
Marketing, small business, retailing (Head of Department).

Benton E. Miles, Ph.D.
Small business, marketing, promotion management, selling and sales management.

Paul M. Muchinsky, Ph.D.
Assessment, personnel selection, and job/person fit.

William L. Tullar, Ph.D.
Interview behavior and employee selection, Russian and Eastern European management and entrepreneurial activity.

Associate Professors

Moses Acquaah, Ph.D.
Organizational economics, global strategic alliances, competitive strategy in emerging economies, human factor in corporate strategy, performance in emerging economies.

Lew G. Brown, Ph.D.
Convenience in marketing, field-research-based marketing strategy cases, public/non-profit marketing, customer satisfaction.

Harper A. Roehm, Jr., Ph.D.
Consumers’ responses to information technology and how interactive marketing communications affect information processing, memory, attitudes, and behavior.

Nicholas C. Williamson, Ph.D.
Research in indirect export channels of distribution.

Assistant Professors

Merlyn A. Griffiths, Ph.D.
Consumer behavior, marketing communications, advertising, marketing management, services marketing, brand management.

Nir Kshetri, Ph.D.
Globalization of modern information technologies, marketing of high-tech products.

Arlise P. McKinney, Ph.D.
Work motivation and job performance, psychometric properties of associated measures, relationship with academic job performance.
BUS Business Courses

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

611 Analysis of Research (3:3)
Intensive study, analysis, and evaluation of research in business and related fields.

612 Field Study (1-3)
Individual investigation conducted in absentia with periodic conferences and reports. Students are encouraged to study their individual problems with approved research technique.

613 Independent Study in Business and/or Marketing Education (1-3)
Pr. demonstrated capacity for independent work and permission of instructor
Intensive study on some phase of business and marketing education. Regular conferences with instructor.

699 Thesis (1-3)

711 Experimental Course
This number reserved for experimental courses. Refer to Course Schedule for current offerings.

801 Thesis Extension (1-3)

MGT Management Courses

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

613 Directed Studies (3)
Pr. 12 semester hours of M.B.A. course work and permission of Director of M.B.A. program and instructor who will supervise study
Individual study of problems in the field of management. Regular conferences with instructor required.

670 Entrepreneurial Management (3:3)
Pr. MBA 604, MBA 620
How entrepreneurial managers discover and take advantage of innovative opportunities. The entrepreneurial process, starting new ventures, and developing entrepreneurship in large corporations.
Master of Business Administration

Program Director
Vidyaranya B. Gargeya, Ph.D.
Global operations strategy, supply chain management, total quality management, service operations management (Department of Information Systems and Operations Management).

M.B.A. Program Committee
Moses Acquaah, Ph.D.
Corporate strategy, management of innovation and technology (Department of Business Administration).

C. Edward Arrington, D.B.A.
Critical social theory and its relation to accounting and organizations, financial analysis and reporting (Department of Accounting and Finance).

Richard A. Ehrhardt, Ph.D.
Management science, statistical analysis, project management (Department of Information Systems and Operations Management).

Nir Kshetri, Ph.D.
Management and marketing of information technology products, IT industry in China, international marketing (Department of Business Administration).

Stephen Layson, Ph.D.
Economic analysis, microeconomic theory (Department of Economics).

Kevin B. Lowe, Ph.D.
Leadership, international human resource management, corporate strategy, work teams (Department of Business Administration).

Al Farooq Salam, Ph.D.
Electronic commerce, internet technologies, and database systems (Department of Information Systems and Operations Management).

William L. Tullar, Ph.D.
Human resource management, organizational behavior, consumer behavior (Department of Business Administration).

Daniel Winkler, Ph.D.
Real estate finance, corporate finance, investments, and financial education (Department of Accounting and Finance).

The M.B.A. program is designed for qualified students from any academic background. Students can complete the program in two to four years depending on their background and course load.

As a professional program built on a strategic management theme, the curriculum emphasizes an interdisciplinary approach to decision making in a changing global environment in which information technology is changing the way all organizations function. The program allows for flexibility in planning course work to meet individual needs for breadth and depth.

M.B.A. Mission Statement
The M.B.A. program of the Joseph M. Bryan School of Business and Economics provides advanced educational opportunities to prepare students for careers in a global economy. The M.B.A. faculty of the Bryan School accepts as its primary responsibility excellence in the delivery of quality instruction to provide the skills, knowledge, and analytical competence necessary to provide our students with the opportunity to become world-class managers.

The M.B.A. program aggressively recruits qualified students from outside the Triad as well as serving professionals who reside in the Triad. Graduates of the program, irrespective of location, will be prepared to contribute to the economic and social well being of the communities in which they are a part, and to the efficient management of the firms and institutions for which they work.
Admission Requirements

Admission to graduate programs offered by the M.B.A. program is required for enrollment in course work at any level of the program. Applicants must submit the following information in addition to the application materials required by The Graduate School:

Post-Baccalaureate Certificate Applicants
• Evidence of relevant managerial experience indicating increasing levels of managerial responsibilities.
• Admission essay indicating the reasons for pursuing the Certificate.
• An interview may be required.

M.B.A. Applicants
• For the Evening M.B.A. option: Evidence of relevant managerial experience indicating increasing levels of managerial responsibilities. For the Fulltime Day M.B.A. option: Five years or less full-time work experience and evidence of leadership potential.
• Admission essay indicating the reasons for pursuing the M.B.A. degree and relevant preparation for either the Evening M.B.A. or Fulltime Day M.B.A. option.
• An interview may be required.
• Students are admitted to the Fulltime Day M.B.A. option only in August of each academic year.

The M.B.A. program offers both full-time and part-time program options.

M.S. Gerontology/M.B.A. Applicants
• Evidence of a minimum of two years of relevant work experience.
• Personal statement elaborating on experience and/or interest in working with the elderly.

Applications are reviewed by both the Director of Gerontology Program and the M.B.A. Program Director.

M.S.N./M.B.A. Applicants
• Evidence of a baccalaureate degree in nursing from an accredited program.
• Current unrestricted licensure as a registered nurse in one of the 50 states or International Licensure.
• Minimum of one year of full-time clinical nursing experience.

Post-Master’s Certificate Applicants
• Master’s degree in business administration, management, or a closely related field from a program accredited by the AACSB, The International Association for Management Education.

The admission of an applicant with a master’s degree in business administration, management, or a closely related field from non-AACSB accredited schools must be approved by the M.B.A. Program Committee, in consultation with the Dean of The Graduate School. GMAT scores are not required.

Requirements for the Post-Baccalaureate Certificate in Business Administration

The purpose of the Post-Baccalaureate Certificate in business administration is to provide professionals who have a bachelor’s degree in a non-business field the opportunity to acquire education in business administration without committing to the lengthier M.B.A. program. Current students in the M.B.A., M.S. in accounting, or M.S. in information technology and management programs will not be eligible for the Post-Baccalaureate Certificate. Course work taken as part of the certificate program may be applied towards the M.B.A. degree.

Selection of Courses
The certificate program will consist of 12 hours of courses selected from the following list:

- MBA 600 Business Statistics (1.5)
- MBA 602 Presentation and Interpretation of Financial Statements (1.5)
- MBA 603 Economic Analysis (1.5)
- MBA 604 Organizational Behavior (1.5)
- MBA 605 Financial Management (1.5)
- MBA 606 Marketing Management (1.5)
- MBA 607 The Operations Function (1.5)
- MBA 609 Management Communications (1.5)
- MBA 610 Advanced Business Statistics (1.5)
- MBA 611 Ethics, Public Policy and Business (1.5)
- MBA 612 Cost Management Systems (1.5)
- MBA 613 Economic Policy and the Global Environment (1.5)
- MBA 616 Managing in a Global Environment (1.5)
- MBA 617 Management Science (1.5)
- MBA 618 Business Processes and Technology (1.5)
The Bryan School of Business and Economics offers a graduate program of study leading to a 36 hour Master of Business Administration degree. Up to 12 hours of basic level M.B.A. prerequisite courses may be waived based on prior academic or professional accomplishment. A minimum of 36 hours of required foundation, strategic management core, and elective courses must be completed.

**Computer Literacy**

M.B.A. degree program students should have a working knowledge of word processing and spreadsheet applications in a PC environment. Familiarity with Excel is required.

**Full-time Program Option**

Students in the full-time program complete the program requirements during a two-year period and must complete courses in the specified sequence in order to progress through the program.

**Year One - Fall Semester** (12 hours)
- **First Half**
  - MBA 600 Business Statistics (1.5)
  - MBA 602 Presentation and Interpretation of Financial Statements (1.5)
  - MBA 603 Economic Analysis (1.5)
  - MBA 609 Management Communications (1.5) or MBA 615 Leadership Assessment and Development (1.5)

**Year One - Spring Semester** (12 hours)
- **First Half**
  - MBA 606 Marketing Management (1.5)
  - MBA 607 The Operations Function (1.5)
  - MBA 613 Economic Policy and the Global Environment (1.5)
  - MBA 618 Business Processes and Technology (1.5)

**Year Two - Fall Semester** (12 hours)
- **First Half**
  - MBA 617 Management Science (1.5)
  - MBA 625 Corporate Strategy and the Finance Function (1.5)

**Second Half**
- MBA 626 Strategic Marketing Management (1.5)
- MBA 627 Global Operations Strategy (1.5)
- Electives (3)

**Year Two - Spring Semester** (12 hours)
- MBA 624 Strategies for Managing Human Resources (1.5)
- MBA 628 Business Strategy and Information Technology (1.5)
*MBA 629b Creating and Sustaining Competitive Advantage (3)
- Electives (6)

*Indicates Capstone Experience

**Part-time Program Option**

The part-time option may take up to five years depending on the number of credit hours taken each semester.

**Basic Level M.B.A. Prerequisite Courses** (12 hours)
- MBA 600 Business Statistics (1.5)
- MBA 602 Presentation and Interpretation of Financial Statements (1.5)
- MBA 603 Economic Analysis (1.5)
- MBA 604 Organizational Behavior (1.5)
- MBA 605 Financial Management (1.5)
- MBA 606 Marketing Management (1.5)
- MBA 607 The Operations Function (1.5)
- MBA 609 Management Communications (1.5)

**Required Courses** (24 hours)
- **Foundation Level** (12 hours)
  - MBA 610 Advanced Business Statistics (1.5)
  - MBA 611 Ethics, Public Policy and Business (1.5)
  - MBA 612 Cost Management Systems (1.5)
  - MBA 613 Economic Policy and the Global Environment (1.5)
  - MBA 615 Leadership Assessment and Development (1.5)
  - MBA 616 Managing in a Global Environment (1.5)
  - MBA 617 Management Science (1.5)
  - MBA 618 Business Processes and Technology (1.5)

- **Strategic Management Core** (12 hours)
  - MBA 620 Competitive Analysis and Strategy Formulation (1.5)
  - MBA 624 Strategies for Managing Human Resources (1.5)
  - MBA 625 Corporate Strategy and the Finance Function (1.5)
  - MBA 626 Strategic Marketing Management (1.5)
  - MBA 627 Global Operations Strategy (1.5)
  - MBA 628 Business Strategy and Information Technology (1.5)
  - MBA 629a Creating and Sustaining Competitive Advantage (3) or MBA 629b Creating and Sustaining Competitive Advantage (3)

*Indicates Capstone Experience

**Electives** (12 hours)

With prior approval by the M.B.A. Program Director or Associate Director, a student will select 12 hours of courses. Courses in other departments and schools at the 500-, 600- and 700-level may be taken.
The Gerontology Program and the Bryan School of Business and Economics offer a combined Master of Science in gerontology/Master of Business Administration degree. A minimum of 57 semester hours is required for the degree.

Computer Literacy
Upon entry to the M.S./M.B.A. degree program, students should have a working knowledge of word processing and spreadsheet applications in a PC environment. Familiarity with Excel is required.

Required Core Courses (46.5 hours)
Up to 12 hours may be waived based on demonstrated competencies in the subject area but must be replaced with elective courses.

- MBA 600 Business Statistics (1.5) and MBA 610 Advanced Business Statistics (1.5) or ERM 617 Statistical Methods in Education (3) or STA 571 Statistical Methods in Research (3) and 571L Statistical Methods Lab (1)
- MBA 602 Presentation and Interpretation of Financial Statements (1.5)
- MBA 603 Economic Analysis (1.5)
- MBA 604 Organizational Behavior (1.5)
- MBA 605 Financial Management (1.5)
- MBA 606 Marketing Management (1.5)

- MBA 607 The Operations Function (1.5)
- MBA 609 Management Communications (1.5)
- MBA 612 Cost Management Systems (1.5)
- MBA 613 Economic Policy and the Global Environment (1.5)
- MBA 615 Leadership Assessment and Development (1.5)
- MBA 616 Managing in a Global Environment (1.5)
- MBA 617 Management Science (1.5)
- MBA 618 Business Processes and Technology (1.5)
- MBA 620 Competitive Analysis and Strategy Formulation (1.5)
- MBA 624 Strategies for Managing Human Resources (1.5)
- MBA 625 Corporate Strategy and the Finance Function (1.5)
- MBA 626 Strategic Marketing Management (1.5)
- MBA 627 Global Operations Strategy (1.5)
- MBA 628 Business Strategy and Information Technology (1.5)

*MBA 629b Creating and Sustaining Competitive Advantage (3) or GRO 679 Gerontology Internship or Research Experience II (3)

GRO 501 Seminar: Critical Issues of the Aged (3)
GRO 620 Research Methods in Gerontology (3)
GRO 649 Gerontology Internship or Supervised Research I (3)
GRO 651 Integrative Seminar in Gerontology (3)

* Indicates Capstone Experience

Electives (10.5 hours)
Selected upon advisement to permit tailoring of the program of study to the student’s specific interests and to include at least 9 semester hours in gerontology or gerontology electives.

The School of Nursing and the Bryan School of Business and Economics offer a combined Master of Science in Nursing/Master of Business Administration degree. A minimum of 54 semester hours is required for the degree.

Computer Literacy
Upon entry to the M.S.N./M.B.A. degree program, students should have a working knowledge of word processing and spreadsheet applications in a PC environment. Familiarity with Excel is required.

Statistics
Completion of a statistics course prior to enrollment in NUR 602 is required. ECO 250 or MBA 600 is recommended.
FINANCIAL ANALYSIS
The purpose of the Post-Master’s Certificate in financial analysis is to provide professionals who have an M.B.A. or Master of Science in accounting with state-of-the-art skills in the tools and techniques of financial analysis. The certificate program will consist of at least 12 hours chosen from the following:

- MBA 625 Corporate Strategy and the Finance Function (1.5)
- MBA 630 Global Financial Markets (1.5)
- MBA 631 Security Analysis (1.5)
- MBA 633 Financial Statement Analysis (1.5)
- MBA 634 Advanced Financial Analysis and Security Valuation (1.5)
- MBA 637 Corporate Governance (1.5)
- MBA 669 Business Law (1.5)
- MBA 682 Financial Reporting and Regulation (1.5)
- MBA 683 Mergers and Acquisitions (1.5)
- MBA 686 Tax Strategy (3)
- MBA 688 Advanced Business Law (3)
- Other appropriate courses as approved by the M.B.A. Program Director or Associate Director

INTERNATIONAL BUSINESS
The purpose of the Post-Master’s Certificate in international business is to provide professionals with state-of-the-art knowledge and skills in international business. The certificate program will consist of at least 12 hours.

Required Course (1.5 hours)
- MBA 616 Business in the International Economy (1.5)

Electives (10.5 hours)
- MBA 627 Global Operations Strategy (1.5)
- MBA 630 Global Financial Markets (1.5)
- MBA 644 International Marketing Management (1.5)
- MBA 663 Experience Business Abroad (1.5)
- MBA 675 Issues in Cross-Cultural Management (1.5)
- Other appropriate graduate level international liberal arts courses as approved by the M.B.A. Program Director or Associate Director

Additional hours to complete the program may be selected from M.B.A. courses in international business or courses outside the business school that will broaden the student’s understanding and appreciation of foreign cultures and economic environments. Students will be expected to meet the same course prerequisite requirements as current M.B.A. students.

MANAGEMENT
The purpose of the Post-Master’s Certificate in management is to provide professionals who have an M.B.A. or related professional degree the opportunity to acquire specialized state-of-the-art knowledge and skills in one or more areas of business practice (e.g., marketing, finance, human resource management). The certificate program will consist of at least 12 hours.

Required Courses (3 hours)
- MBA 620 Competitive Analysis and Strategy Formulation (1.5)

and one of the following:
- MBA 624 Strategies for Managing Human Resources (1.5)
- MBA 625 Corporate Strategy and the Finance Function (1.5)
- MBA 626 Strategic Marketing Management (1.5)
- MBA 627 Global Operations Strategy (1.5)
- MBA 628 Business Strategy and Information Technology (1.5)
- MBA 629a Creating and Sustaining Competitive Advantage (3)

* Indicates Capstone Experience
MBA Courses

595 Selected Topics in Business Administration (1.5-3)
Pr. permission of instructor
Opportunity for advanced students of Business Administration to study, in depth, a topic or issue of special interest. May be repeated for credit when topics vary.

600 Business Statistics (1.5:1.5)
Pr. MAT 119 or equivalent
Statistical methods with applications in business and economics; descriptive statistics, probability, estimation and hypothesis testing.

601a Fundamentals of Entrepreneurship (1.5:1.5)
Examines the operating characteristics of entrepreneurial firms and challenges of start-up businesses. Focuses on the strategies of turning ideas into commercial opportunities. (Graded on S-U basis)

602 Presentation and Interpretation of Financial Statements (1.5:1.5)
The conceptual framework underlying financial reporting by business enterprises, the processes by which authoritative accounting guidelines are promulgated, and the presentation, interpretation, and use of financial statements.

603 Economic Analysis (1.5:1.5)
Economic theory to analyze supply and demand, firm behavior, market structure, competitive behavior, government regulation, and the global and domestic environment facing the firm.

604 Organizational Behavior (1.5:1.5)
Organizational behavior within complex work organizations. Organizational structure and theory, work redesign, perception and attribution, learning, motivation, groups, conflict, power, influence, leadership, and decision making.

605 Financial Management (1.5:1.5)
Pr. 600, 602, 603
Financial decision-making: financial markets, valuation of securities, capital budgeting, financial analysis, financial policy, and financing a firm’s operations.

606 Marketing Management (1.5:1.5)
Pr. 602, 603
Strategic decisions in marketing. Combines theory and application so students learn when and why to make key decisions such as segmentation/targeting, product, price, distribution, and promotion.

607 The Operations Function (1.5:1.5)
Pr. 600
Design, operation, and control of organizations. Procedures/quantitative techniques to analyze and critique present operations and develop improved operations.

609 Management Communications (1.5:1.5)
Principles of managerial communication; development of personal skills in writing, speaking and interacting as a group member in an organizational setting.

610 Advanced Business Statistics (1.5:1.5)
Pr. 600
Construction, estimation, and evaluation of regression models and the use of regression for prediction. Simple linear regression and correlation, multiple linear regression, nonlinear regression, dummy variables.

611 Ethics, Public Policy and Business (1.5:1.5)

612 Cost Management Systems (1.5:1.5)
Pr. 602
Organizational strengths and weaknesses as a basis for the development and use of cost systems in formulating and implementing strategy.

613 Economic Policy and the Global Environment (1.5:1.5)
Pr. 603
Economic theory analyzes short-run and long-run effects of domestic fiscal, monetary, and exchange rate policies and the international consequences of global policy changes on the domestic economy.

615 Leadership Assessment and Development (1.5:1.5)
Managerial strengths and developmental needs are identified, and based on constructive feedback, students can improve their managerial skills. (Graded on S-U basis)

616 Managing in a Global Environment (1.5:1.5)
Pr. 604, 605, 606, 607. Coreq. 613
Examines the environmental, cultural, political, legal, and operational challenges facing managers in doing business across international boundaries.

617 Management Science (1.5:1.5)
Pr. 600. Pr. or coreq. 605, 607, 610
Quantitative techniques which can be used to support decision making. Theory, limitations and applications of these techniques utilizing computer-based problem solving.

618 Business Processes and Technology (1.5:1.5)
Pr. admission to a Bryan School graduate program or permission of the MSITM Program Director
Computer systems and networks, telecommunications, and business applications using all forms of information technology; survey of the managerial challenges presented by the use of information technology. (Same as ISM 601)

620 Competitive Analysis and Strategy Formulation (1.5:1.5)
Pr. 604, 606, 609, 612, 613. Coreq. 611, 618
Examines the tools and techniques of strategic/competitive analysis and how they can be used to formulate strategies designed to meet organizational goals.

624 Strategies for Managing Human Resources (1.5:1.5)
Pr. 617. Pr. or coreq. 620
Overview of HRM and its major functions focusing on current trends including management of change and cultural diversity with a systematic integration of international perspectives.

625 Corporate Strategy and the Finance Function (1.5:1.5)
Pr. 605, 617. Coreq. 620
Finance in the strategic management process; corporate strategies and shareholder value creation, financing decisions, distribution policy, and long-term investment decisions.
626 Strategic Marketing Management (1.5:1.5)  
Pr. 607, 610. Pr. or coreq. 620  
Comprehensive marketing plans in contexts including new product introductions, global marketing, services, non-profits, and competitive industries. Role of marketing information systems and new marketing trends.

627 Global Operations Strategy (1.5:1.5)  
Pr. 610, 617. Pr. or coreq. 620  
Overall business strategies translated into operational strategies and tactics; international competition, total quality management, competing with flexibility, and implementation through computers and communication technology.

628 Business Strategy and Information Technology (1.5:1.5)  
Pr. 607, 610, 620  
Selection, implementation, and management of information technology in supporting organizational goals; nature and use of information technology in achieving superior performance and competitive advantage.

629a Creating and Sustaining Competitive Advantage (3:3)  
Pr. 625, 626, 627. Coreq. 624, 628  
Using a computer simulation, student teams will compete against one another in a global environment to practice how organizations can move towards a position of competitive advantage.

629b Creating and Sustaining Competitive Advantage (3:3)  
Pr. 625, 626, 627 and permission of program director. Coreq. 624, 628  
Student teams will serve as consultants to area organizations and provide their managers with comprehensive solutions to strategic challenges.

630 Global Financial Markets (1.5:1.5)  
Pr. 605, 613  
Structure and instruments of global financial markets; interest rate determination, term structure of interest rates, global markets for equity, fixed income and derivative securities, foreign exchange, and central banking.

631 Security Analysis (1.5:1.5)  
Pr. 625 or permission of instructor  
Principal approaches to security valuation for equity and fixed-income securities in a conceptual and applied context; market cycles, fundamental and technical analysis.

633 Financial Statement Analysis (1.5:1.5)  
Pr. 605  
Examination of financial statement information to measure creation of value and assess risks from the perspective of investors, creditors, regulators, and strategy formulators.

634 Advanced Financial Statement Analysis and Security Valuation (1.5:1.5)  
Pr. 633 or permission of instructor  
Financial forecasting and valuation stressing the economic and accounting measures of value. Topics include quality of earnings analysis; full-information forecasting and valuation; analysis of credit risk. Supported with appropriate software.

637 Corporate Values and Governance (1.5:1.5)  
Examination of relationships among stakeholders who determine the direction and performance of the modern corporation. Primary emphasis will be on the interrelationships between shareholders, management and the board of directors.

641 Consumer Behavior (1.5:1.5)  
Pr. 606  
Understanding consumer markets and how to design more efficient marketing plans. Concepts and theory from psychology, sociology, anthropology and economics.

642 Marketing Research: Gathering Original Data (1.5:1.5)  
Pr. 606, 610  
Marketing research, emphasizing primary data. Defining the research purpose, selecting a data gathering method, writing a survey/questionnaire, and sampling methods. Research proposal must be written.

643 Marketing Research: Data Analysis (1.5:1.5)  
Pr. 642  
Using statistics and interpreting the results to make marketing decisions. Completion of research project proposed in MBA 642 expected.

644 International Marketing Management (1.5:1.5)  
Pr. 620  
Activities that direct the flow of products to markets in a transnational, transcultural context; transcultural consumer behavior, channel strategy, physical distribution, promotion, and pricing.

648 Brand Management (1.5:1.5)  
Pr. 606  
The evolving nature of branding over time and the interaction of managerial actions to produce consumer understanding and response to brands in both domestic and global markets.

650 Total Quality Management (1.5:1.5)  
Coreq. 620  
Philosophy and tools that comprise Total Quality Management (TQM). How TQM can be implemented in manufacturing and service firms. Integrates philosophy, tools, and implementation issues through cases/project. (Same as ISM 650)

651 Management of Technology and Innovation (1.5:1.5)  
Technological and innovation in the competitive strategy of organizations; sources of innovations, the different dimensions of technological innovations, and the adoption and justification of innovations. (Same as ISM 651)

653 Service Operations Management (1.5:1.5)  
Pr. 607  
Managerial processes underlying operations management in service-providing organizations; operations strategy, design and delivery, and operations planning and control in services. (Same as ISM 653)

654 Project Management (1.5:1.5)  
Pr. 607  
Modern methods for defining, planning and managing large projects. Computer software and network modeling are used to support the efficient scheduling of interdependent activities. (Same as ISM 654)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>655</td>
<td>Knowledge Management (1.5:1.5)</td>
<td>Pr. admission to a Bryan School graduate program or permission of MSITM Program Director</td>
<td>Examines current theories and foundations of knowledge management, knowledge assets and their organizational, analytical, managerial tools and techniques for knowledge acquisition, generation, assessment, evaluation, and dissemination are studied. (Same as ISM 657)</td>
</tr>
<tr>
<td>657</td>
<td>e-Business Strategy (1.5:1.5)</td>
<td>Pr. 602, 618</td>
<td>Provides an understanding of the skills, business concepts, strategic opportunities, and social issues that surround the emergence of electronic commerce (EC) or e-Business.</td>
</tr>
<tr>
<td>663</td>
<td>Experience Business Abroad (1.5-3)</td>
<td>Pr. 616 or permission of MBA program director</td>
<td>Practices and principles involved in conducting business in a specified country. Lectures and seminars by local academicians and site visitations and lectures by foreign business people.</td>
</tr>
<tr>
<td>669</td>
<td>Business Law (1.5:1.5)</td>
<td></td>
<td>The relationship between the legal system and the business environment with emphasis on the choice between the legal forms of business, employment law, and contracts.</td>
</tr>
<tr>
<td>671</td>
<td>Organizational Change and Development (1.5:1.5)</td>
<td>Pr. 604</td>
<td>Organizational development and change techniques. Management of planned organizational change from theoretical and applied perspectives. Skill development in designing, implementing and evaluating selected organizational change programs.</td>
</tr>
<tr>
<td>675</td>
<td>Issues in Cross-Cultural Management (1.5:1.5)</td>
<td></td>
<td>International dimensions of human resources. Comparison of U.S. and other workforce cultures, emphasizing the need for cross-cultural behavior understanding and training. (Graded on S-U basis)</td>
</tr>
<tr>
<td>678</td>
<td>Increasing Work Team Effectiveness (1.5:1.5)</td>
<td>Pr. 604</td>
<td>Examines factors relevant to work team effectiveness including the change to teams; team empowerment; international teams; self-management; decision making, communication, and conflict; and measuring and rewarding team performance.</td>
</tr>
<tr>
<td>682</td>
<td>Financial Reporting and Regulation (1.5:1.5)</td>
<td>Pr. 602 or equivalent</td>
<td>Provides abilities necessary to understand, interpret, and analyze corporate financial disclosures in a manner commensurate with advanced understanding of financial analysis.</td>
</tr>
<tr>
<td>683</td>
<td>Mergers and Acquisitions (1.5:1.5)</td>
<td>Pr. 625</td>
<td>Mergers and acquisitions as a means of meeting a firm’s strategic goals; financial analysis of mergers, public policy concerns, and accounting and tax aspects.</td>
</tr>
<tr>
<td>686</td>
<td>Tax Strategy (3.3)</td>
<td>Pr. 612 or equivalent</td>
<td>How taxes affect business strategy and modeling the decision process. Impact of taxation on investments, capital structure, business forms, multinational operations, mergers, acquisitions, reorganizations and divestitures.</td>
</tr>
</tbody>
</table>
Department of

Chemistry and Biochemistry

435 Science Building • (336) 334-5714
www.uncg.edu/che

Professors

J. Phillip Bowen, Ph.D.
Medicinal chemistry, computational chemistry, computer-assisted drug design, software development.

Terence A. Nile, Ph.D.
Synthetic organometallic chemistry, cyclopentadiene and polypyridyl chemistry, catalysis, organometallics in organic synthesis.

Patricia H. Reggio, Ph.D.
Physical chemistry, computational chemistry, G protein-coupled receptor modeling (cannabinoid CB1 and CB2 receptors) (Head of Department).

Jerry L. Walsh, Ph.D.
Inorganic chemistry, coordination chemistry of transition metal complexes, synthesis, photochemistry, reaction mechanisms.

Senior Research Professor

Ethan Will Taylor, Ph.D.
Medicinal biochemistry, molecular modeling and bioinformatics, molecular virology, biochemistry of selenium.

Associate Professors

R. Bruce Banks, Ph.D.
Bioorganic chemistry, chemical carcinogenesis, xenobiotic metabolism.

Nadja B. Cech, Ph.D.
Analytical chemistry, electrospray ionization mass spectrometry, liquid chromatography, medicinal plant chemistry.

Alice E. Haddy, Ph.D.
Biophysical chemistry, electron paramagnetic resonance studies of transition metals in biological systems.

Lakshmi P. Kotra, Ph.D.
Synthetic medicinal chemistry, bioorganic chemistry, computational chemistry.

Gregory M. Raner, Ph.D.
Bioinorganic chemistry, enzymology, mechanistic studies and industrial applications of cytochrome P450 monooxygenase enzymes (Director of Graduate Study).

Assistant Professors

Norman H. Chiu, Ph.D.
Bioanalytical chemistry, interdisciplinary approach to develop and validate specific assays for genomics and proteomics studies.

G. Brent Dawson, Ph.D.
Analytical chemistry, capillary electrophoresis and chromatography for the analysis of biological molecules.

Liam M. Duffy, Ph.D.
Physical chemistry, gas-phase chemical reaction dynamics probed by millimeter wavelength spectroscopy.

Johanna Mazlo, Ph.D.
Biochemistry, x-ray crystallography of biological molecules, molecular modeling, immunotherapy.

Jason Reddick, Ph.D.
Bioorganic chemistry, biochemistry, biosynthesis of polyketides.
The Department of Chemistry and Biochemistry offers the Master of Science degree in chemistry, the Master of Science degree in biochemistry and the Doctor of Philosophy degree in medicinal biochemistry.

The M.S. degree in chemistry requires a core of advanced course work in each of the four major areas of chemistry (analytical, inorganic, organic, and physical), as well as courses in other areas. The M.S. degree in biochemistry requires a core of introductory and advanced biochemistry courses, as well as courses in chemistry and other areas.

For each degree, the student must write a research thesis based on original research carried out under the direction of a faculty advisor. In addition, the student gains experience in professional speaking by preparing and presenting two public seminars. The M.S. programs give students the opportunity to demonstrate and develop their potential for work in chemistry or biochemistry. They are especially attractive to individuals who have been out of an academic environment for some time or for students who wish to bolster their undergraduate science experience. The successful Master of Science candidate will be prepared for positions of responsibility in industry or government or for further study toward a doctoral degree.

The Ph.D. degree in medicinal biochemistry combines advanced biochemical and medicinal chemistry course work with cutting edge research in the biomedical and biochemical sciences. Additional course work is offered in specialized areas such as synthetic chemistry, bioanalytical chemistry, and computational chemistry. The student must write a dissertation culminating from extensive laboratory research experience carried out under the direction of a faculty advisor. In addition, the student gains experience in professional speaking by giving public oral scientific presentations through the departmental seminar program. The successful doctoral candidate will be well prepared for careers in biotechnology, pharmaceutical or medical research, or academia.

A Master of Education in curriculum and instruction with a concentration in chemistry education is offered through the Department of Curriculum and Instruction. Please see the Department of Curriculum and Instruction for specific degree requirements.

The Department of Chemistry and Biochemistry offers a graduate program of study leading to a 30 hour Master of Science in biochemistry.

**Requirements for the Master of Science in Biochemistry**

**The** Department of Chemistry and Biochemistry offers a graduate program of study leading to a 30 hour Master of Science in biochemistry.

**Required Core Courses (12 hours)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 556</td>
<td>Biochemistry I (3)</td>
</tr>
<tr>
<td>CHE 557</td>
<td>Biochemistry II (3)</td>
</tr>
<tr>
<td>CHE 656</td>
<td>Enzyme Mechanisms (3)</td>
</tr>
<tr>
<td>CHE 663</td>
<td>Spectroscopy and Analysis of Biomolecules (3)</td>
</tr>
</tbody>
</table>

**Research Techniques (6-13 hours)**

Students take CHE 691 before beginning research. Students must carry out a research project under the supervision of a faculty member and write a thesis on the research (CHE 699). Students may take additional research hours of CHE 680 and up to 6 hours of CHE 699 for a total of 12 hours.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 691</td>
<td>Introduction to Graduate Research (1)</td>
</tr>
<tr>
<td>CHE 680</td>
<td>Research Problems in Chemistry and Biochemistry (1-6)</td>
</tr>
</tbody>
</table>

*CHE 699 Thesis (1-6)

* Indicates Capstone Experience

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**Seminar (2 hours)**

All graduate students must present two seminars, the first on a literature topic (CHE 601) and the second on their thesis research (CHE 602), normally given during the last semester of study.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 601</td>
<td>Graduate Seminar I (1)</td>
</tr>
<tr>
<td>CHE 602</td>
<td>Graduate Seminar II (1)</td>
</tr>
</tbody>
</table>

**Chemistry Core Elective (3 hours)**

Students must select one of the chemistry core courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 553</td>
<td>Advanced Organic Chemistry I (3)</td>
</tr>
<tr>
<td>CHE 632</td>
<td>Advanced Analytical Chemistry (3)</td>
</tr>
<tr>
<td>CHE 641</td>
<td>Advanced Inorganic Chemistry II (3)</td>
</tr>
<tr>
<td>CHE 661</td>
<td>Advanced Physical Chemistry I (3)</td>
</tr>
</tbody>
</table>

**Electives (3 hours minimum)**

Students must select 3 hours of elective courses in biochemistry or from a list of approved (by the Department Graduate Studies Committee) courses in areas related to biochemistry (cell biology, genetics, microbiology, metabolism, biophysics, or other areas). Additional courses needed to bring the total
credit hours up to at least 30 should be chosen from graduate level chemistry and biochemistry courses offered by the Department or from the list of approved biochemistry-related courses.

**Comprehensive Examination**
The comprehensive examination consists of a research proposal on the student’s thesis research, including a literature review. The proposal must be approved by the student’s thesis committee before the student may enroll in CHE 699 Thesis.

**Thesis Defense**
Students must defend the completed thesis before the thesis committee.

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**MS Requirements for the Master of Science in Chemistry**

The Department of Chemistry and Biochemistry offers a graduate program of study leading to a 30 hour Master of Science in chemistry.

**Required Core Courses (12 hours)**

- CHE 553 Advanced Organic Chemistry I (3)
- CHE 632 Advanced Analytical Chemistry (3)
- CHE 641 Advanced Inorganic Chemistry II (3)
- CHE 661 Advanced Physical Chemistry I (3)

**Research Techniques (6-13 hours)**

Students take CHE 691 before beginning research. Students must carry out a research project under the supervision of a faculty member and write a thesis on the research (CHE 699). Students may take additional research hours of CHE 680 and up to 6 hours of CHE 699 for a total of 12 hours.

- CHE 691 Introduction to Graduate Research (1)
- CHE 680 Research Problems in Chemistry and Biochemistry (1-6)
- *CHE 699 Thesis (1-6)

* Indicates Capstone Experience

**Seminars (2 hours)**

Students must present two seminars, the first on a literature topic (CHE 601) and the second on their thesis research (CHE 602), normally given during the last semester of study.

- CHE 601 Graduate Seminar I (1)
- CHE 602 Graduate Seminar II (1)

**Electives (6 hours minimum)**

Students select 6 hours of electives. Up to 9 hours may be earned in approved (by Department Graduate Studies Committee and student’s research advisor) graduate courses in biology, mathematics or physics.

**Comprehensive Examination**
The comprehensive examination consists of a research proposal on the student’s thesis research, including a literature review. The proposal must be approved by the student’s thesis committee before the student may enroll in CHE 699 Thesis.

**Thesis Defense**
Students must defend the completed thesis before the thesis committee.

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**PhD Requirements for the Doctor of Philosophy in Medicinal Biochemistry**

The Department of Chemistry and Biochemistry offers a graduate program of study leading to a 64 hour Doctor of Philosophy degree in medicinal biochemistry.

**Required Core Courses (15 hours)**

- CHE 651 Advanced Medicinal Chemistry (3)
- CHE 656 Enzyme Mechanisms (3)
- CHE 659 Receptor Biochemistry (3)
- CHE 658 Nucleic Acid Biochemistry (3)
- CHE 660 Biochemical Pharmacology and Disease Targets (3)

**Internship (3 hours)**

- CHE 790 Medicinal Biochemistry Internship (3)

**Research Techniques (25-37 hours)**

Students take CHE 691 before beginning research. Students must carry out a research project under the supervision of a faculty member and write a dissertation on the research (CHE 799).

- CHE 691 Introduction to Graduate Research (1)
- CHE 780 Research Problems in Chemistry and Biochemistry (12-18)
- CHE 799 Dissertation (12-18)
CHE Chemistry Courses

531 Instrumental Analysis (3:3)
Pr. 331, 333, 205 or 352 (either may be taken concurrently), PHY 212 or 292
Theory and practice of advanced analytical techniques with emphasis on instrumental methods of analysis.

533 Instrumental Analysis Laboratory (1:0:4)
Coreq. 531
Laboratory work to accompany 531.

536 Computational Chemistry (3:2:3)
Pr. 352, MAT 291, PHY 212 or PHY 292; or permission of instructor
Survey of modern computational chemistry methods, including molecular mechanics, molecular dynamics simulations, conformational searching, and computational quantum mechanics.

553 Advanced Organic Chemistry I (3:3)
Pr. 352
Advanced topics in organic chemistry with special emphasis on reaction mechanisms and stereochemistry.

555 Organometallic Chemistry (2:2)
Pr. 352 and 442
Theoretical and synthetic aspects of organometallic chemistry and applications to catalysis and synthetic organic chemistry.

556 Biochemistry I (3:3)
Pr. 352, BIO 111-112
Introductory biochemistry presented from a chemical perspective. Topics include amino acids, proteins and enzymes, carbohydrates, nucleic acids, lipids, membranes, and carbohydrate catabolism.

557 Biochemistry II (3:3)
Pr. 352, BIO 111-112, CHE 556, or permission of instructor
Continuation of 556. Enzyme catalytic mechanisms, additional topics in intermediary metabolism, genetic biochemistry, and selected topics in molecular physiology.

558 Biochemistry Laboratory (1:0:4)
Pr. 556 or its equivalent, 354, 333, or permission of instructor
Introduction to biochemical techniques, including isolation, purification and characterization of biological molecules.

570 Special Topics in Chemistry (1-3)
Study in special areas of chemistry as listed below. Hours per week and credit to be arranged. May be repeated for a maximum of six credits when topic varies. Areas identified as follows: 570a Analytical; 570b Biochemistry; 570c Inorganic; 570d Organic; 570e Physical; 570f Chemical Education.

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

601 Graduate Seminar I (1:1)
Pr. 401 or equivalent
Oral reports from the current literature of chemistry by the students, as well as attendance at presentations by other students, staff, and guest speakers.

602 Graduate Seminar II (1:1)
Pr. 601
Oral reports from the literature and the student’s thesis research, as well as attendance at presentations by other students, staff, and guest speakers.

604 Advanced Polymer Chemistry (3:3)
Pr. 352
Modern concepts of addition, ring opening, and condensation polymerization, and the application of physical instrumentation to the characterization of polymers.

632 Advanced Analytical Chemistry (3:3)
Pr. 462 or 406 or equivalent. One semester of instrumental analysis (531) recommended
Current research activities in the analytical area, primarily for first-year graduate students. Four areas emphasized: chemical equilibrium, spectroscopy, separations, and electrochemistry.

633 Bioanalytical Chemistry (3:3)
Pr. permission of instructor
Comprehensive study on various analytical methods used to characterize nucleic acid and protein drug targets and their molecular interactions with therapeutic agents.
641 Advanced Inorganic Chemistry II (3:3)
Pr. 442
Group theory, its applications, and other topics in advanced inorganic chemistry.

651 Advanced Medicinal Chemistry (3:3)
Pr. two courses in undergraduate organic chemistry and one course in undergraduate biochemistry
Advanced topics in medicinal chemistry including drug design, chemistry of High Throughput Screening and focused libraries, lead development/optimization.

652 Synthetic Organic Chemistry (3:3)
Pr. two courses in undergraduate organic chemistry
Methods and problems in multi-step organic synthesis, including use of transition metal reagents and asymmetric synthesis. Applications in drug synthesis.

653 Physical Organic Chemistry (3:3)
Pr. two courses in undergraduate organic chemistry
Structure and mechanisms of organic chemistry. Topics include bonding theory, stereochemistry, conformational analysis, reactions, reaction mechanisms, reactivity.

656 Enzyme Mechanisms (3:3)
Pr. 352 and either 420 or 556, or permission of instructor
Detailed look at how enzymes catalyze a broad range of chemical reactions. Particular emphasis on the role of organic cofactors and metal ions in catalysis.

657 Drug Metabolism and Pharmacogenetics (3:3)
Pr. 556 or permission of instructor
Introduction to the major classes of drug metabolizing enzymes in the body. Chemical mechanisms of action and potential drug interactions related to the induction or inhibition of these systems.

658 Nucleic Acid Biochemistry (3:3)
Pr. permission of instructor
Structure and functions of nucleic acid and their biochemical reactions with cellular proteins. Emphasis on the genomic approach to identify and validate drug targets.

659 Receptor Biochemistry (3:3)
Pr. one course in undergraduate biochemistry
Structure and biochemical properties of the various cell-surface receptors. Emphasis on specific receptors chosen as drug targets for various diseases.

660 Biochemical Pharmacology and Disease Targets (3:3)
Pr. one course in undergraduate biochemistry
Drug action at the biochemical and molecular level. Focus on the biochemical and cellular mechanisms of action that guide the drug discovery and development process.

661 Advanced Physical Chemistry I (3:3)
Pr. 461 and 462 or equivalent (one year of physical chemistry)
Selected topics in quantum chemistry, spectroscopy, statistical thermodynamics, and chemical kinetics will be developed with attention to methods of application.

662 Advanced Physical Chemistry II (3:3)
Pr. 661
Advanced topics in quantum chemistry, spectroscopy, statistical thermodynamics, and chemical kinetics.

663 Spectroscopy and Analysis of Biomolecules (3:3)
Pr. 406 or 461, 420 or 556, or permission of instructor
Spectroscopic and structural methods for application to molecules of biochemical relevance. Topics include fluorescence, circular dichroism, chromatography, electrophoresis, mass spectrometry, FTIR, NMR, EPR, X-ray crystallography.

670 Advanced Special Topics in Chemistry (1-6)
Advanced study in special areas of chemistry as listed below. Hours per week and credit to be arranged. May be repeated for a maximum of six credits when topic varies. Areas identified as follows:
670a Analytical (Pr. 632)
670b Biochemistry (Pr. 556)
670c Inorganic (Pr. 641)
670d Organic (Pr. 553)
670e Physical (Pr. 661)

680 Research Problems in Chemistry and Biochemistry (1-6)
Pr. permission of instructor and department head
Advanced research in specialized areas of chemistry or biochemistry under the direction of a faculty member. Preparation for master’s thesis. May be taken for credit over two or more semesters.

691 Introduction to Graduate Research
Pr. admitted to graduate program in department
Guides new students in the selection of a research advisor. Professors present brief summaries of their research projects. Topics relevant to research are also discussed.

699 Thesis (1-6)
Pr. approval of research proposal by thesis committee

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

751 Literature Seminar (1:1)
Pr. 780
A literature-based seminar focusing on scientific literature databases and presentation skills.

752 Dissertation Seminar (1:1)
Pr. 780
A research-based seminar focusing on the student’s dissertation research during the semester the student expects to graduate.

780 Research Problems in Medicinal Biochemistry (1-18)
Pr. permission of instructor
Advanced research in specialized areas of medicinal biochemistry under the direction of a faculty member. Research to be utilized for the preparation of the dissertation.

790 Medicinal Biochemistry Internship (3:0:12)
Pr. permission of departmental internship coordinator and department head
Practical experience in a local industrial setting. Includes biweekly meetings with departmental internship coordinator. Student must complete a minimum of 12 hours per week at the internship site. May be repeated for 6 hours.

799 Dissertation Research in Medicinal Biochemistry (1-18)
Pr. permission of instructor

801 Thesis Extension (1-3) (Graded on S-U basis)

803 Research Extension (1-3) (Graded on S-U basis)
Department of

Classical Studies

1104 Moore Humanities and Research Administration Building
(336) 334-5214 • www.uncg.edu/cla

Professors

Susan Shelmerdine, Ph.D.
Homeric and Archaic Greek poetry, Greek tragedy, mythology and religion, Greek and Latin pedagogy (Head of Department).

Jeffrey Soles, Ph.D.
Aegean archaeology (Minoans and Mycenaeans), Greek and Roman archaeology.

Associate Professors

Hugh Parker, Ph.D.
Latin poetry, Silver Latin literature, Medieval Latin (Director of Graduate Study).

David B. Wharton, Ph.D.
Linguistics, literary criticism, Greek philosophy.

Assistant Professors

Maura Heyn, Ph.D.
Art and archaeology of the Roman Empire, archaeological theory and culture change.

Jonathan Zarecki, Ph.D.
Roman philosophy, oratory and rhetoric, Greek epic.

Lecturer

Robert Holschuh Simmons, Ph.D.
Greek and Roman drama, Greek and Roman epic.

The Department of Classical Studies offers a 38-hour Master of Education degree in Latin for teachers interested in pursuing further study in their subject area or in working towards “M” licensure. Separate options are available to accommodate students entering the program with and without prior initial licensure.

Requirements for the Master of Education in Latin

The program concentrates on the study of the Latin language, with additional course work required in the areas of classical civilization and professional education. Courses are offered in the summer, usually in an intensive three-week format, and in the evening during the school year to accommodate in-service teachers. Distance learning sections are offered for some courses.

**MEd** Requirements for the Master of Education in Latin

*Portfolio (2 hours)*
In consultation with the Director of Graduate Study, a student will complete a portfolio which addresses the required competencies for licensure.

**TEACHER LEADERSHIP TRACK**

**Study of Latin (12-15 hours)**
In consultation with the Director of Graduate Study, a student will select a minimum of 12 hours from courses in Latin (LAT) at the 500 level or above.

**Electives (6-9 hours)**
In consultation with the Director of Graduate Study, a student will select a minimum of 6 hours

**Core Courses (6 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCI 502</td>
<td>The History of Latin Literature (3)</td>
</tr>
<tr>
<td>LAT 552</td>
<td>Teaching Latin at the Secondary Level (3)</td>
</tr>
</tbody>
</table>

**Professional Education (9 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CUI 545</td>
<td>Diverse Learners (3)</td>
</tr>
<tr>
<td>CUI 669</td>
<td>Educational Implications of Learning and Developmental Theory (3)</td>
</tr>
<tr>
<td>CUI 675</td>
<td>Teacher as Researcher (3)</td>
</tr>
</tbody>
</table>
from courses in classical civilization (CCI) or another appropriate field at the 500 level or above.

**Non-Course Requirements**
1. Diagnostic translation exam to be given in the first semester of participation in the program and reviewed by members of the Department of Classical Studies.
2. Attendance at a minimum of one professional conference to be approved in advance by the graduate advisor.
3. Attendance at two area Latin teacher meetings or pedagogical presentations approved in advance by the graduate advisor and documented with a written reflective assessment which will be included in the final portfolio.
4. *Comprehensive exam to be given within the last two semesters of a student’s enrollment in the program.

*Portfolio and comprehensive exam comprise Capstone Experience

**CLASSROOM PRACTICE TRACK**

**Study of Latin (15-18 hours)**
LAT 531 Latin Grammar and Composition (3)

In consultation with the Director of Graduate Study, a student will select a minimum of 12 additional hours from courses in Latin (LAT) at the 500 level or above.

**Electives (6-9 hours)**
In consultation with the Director of Graduate Study, a student may select a minimum of 3 hours from courses in classical civilization (CCI) or another appropriate field at the 500 level or above. Non-lateral entry candidates must take CUI 680, Clinical Experience in Teaching.

**Non-Course Requirements**
1. Diagnostic translation exam to be given in the first semester of participation in the program and reviewed by members of the Department of Classical Studies.
2. On-site observation of at least two different master teachers.
3. Attendance at two area Latin teacher meetings or pedagogical presentations approved in advance by the graduate advisor and documented with a written reflective assessment which will be included in the final portfolio.
4. Fifty hours of pre-student teaching field experience required for pre-service students not in the lateral entry program.
5. *Comprehensive exam to be given within the last two semesters of a student’s enrollment in the program.

*Portfolio and comprehensive exam comprise Capstone Experience

**Classical Civilization Courses**

501 Independent Study (Classical Civilization) (1-3)
*Pr. permission of instructor*
Directed program of reading, research, and individual instruction in classical civilization. May be repeated for a maximum of 6 hours credit.

502 The History of Latin Literature (3:3)
*Pr. permission of instructor*
A survey of Latin literature in English translation from the third century B.C. to the beginnings of the Middle Ages.

512 The Archaeology of Roman Daily Life (3:3)
Study of Roman daily life and the evidence from archaeology and ancient literature for daily life.

541 Ancient World: Selected Topics (3:3)
Varying topics in ancient Near Eastern; Greek, and Roman history, including politics and public rituals, patterns of social organization, ancient slavery, cross-cultural interactions. May be repeated once for credit when topic varies.

550 Special Topics in Classical Studies (3:3)
*Pr. permission of instructor*
Varying topics in Greek and/or Roman literature, archaeology, or culture, chosen according to the needs of the students. All readings in English translation. May be repeated once for credit when topic varies.

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

605 Mythology in Art and Literature (3:3)
Study of Greek and Roman mythology as represented in literature and art from the Classical times to the present.

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.
Greek Courses

501 Greek Independent Study (1-3)
Pr. permission of instructor
Directed program of reading, research, and individual instruction in Greek languages and literature. May be repeated for a maximum of 6 hours of credit.

550 Topics in Greek Studies (3)
Pr. permission of instructor
Studies in selected topics in Greek literature or language, e.g., the development of a genre, the nature of a period of literary history, or the treatment of a particular theme. May be repeated once for credit when topic varies.

Latin Courses

501 Independent Study (1-3)
Pr. permission of instructor
Directed program of reading, research, and individual instruction in Latin languages and literature. May be repeated for a maximum of 6 hours of credit.

531 Latin Grammar and Composition (3:3)
Pr. 204 or permission of instructor
Intensive study of Latin grammar, syntax, and prose style; includes reading of Latin texts and translation into Latin from English. Required for initial teaching license in Latin.

550 Topics in Latin Studies (3)
Pr. permission of instructor
Studies in selected topics in Latin literature or languages, e.g., the development of a genre, the nature of a period in literary history, or the treatment of a particular theme. May be repeated once for credit when topic varies.

552 Teaching Secondary-Level Latin: Current Trends (3:3)
Pr. admission to the Standard Professional I licensure program or M.Ed. in Latin or permission of instructor
This course does not fulfill Latin language major requirements. Trends and issues in teaching Latin at the secondary level. Topics include: review of textbooks, use of technology, research on second language acquisition, reaching diverse learners, and other issues. May be repeated once for credit when topic varies.

571 Medieval and Renaissance Latin (3:3)
Selections from Medieval and Renaissance prose and poetry.

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

611 Roman Historians (3:3)
Study of the works of Caesar, Livy, Sallust, and Tacitus.

612 Cicero (3:3)
Study of the orations, letters, and essays of Cicero.

623 Roman Comedy (3:3)
Reading of selected plays of Plautus and Terence in their historical and cultural context.

624 Roman Biography (3:3)
Exploration of the Roman biographical tradition. Attention given to issues of genre, literary history, ancient scholarship as well as close readings of selected texts.

625 Poetry in the Age of Augustus (3:3)
Study of the poetic genres and major poets in Latin from 40 B.C. to 14 A.D.; selections from Vergil, Horace, Ovid, and the elegists.

626 Silver Age Survey (3:3)
A survey of the major authors of the first and early second centuries with special emphasis on Petronius, Juvenal, Martial, and Pliny the Younger.

630 Imperial Propaganda in the Age of Augustus (3:3)
Study of the life and career of Augustus through biographical and autobiographical sources, with attention to social, political, and religious aspects.

670 Directed Study: Portfolio Development (2)
Pr. completed at least 30 semester hours in M.Ed. in Latin program
Directed research and portfolio development for students in the M.Ed. program. To be taken at the end of the student’s plan of study. (Graded on S-U basis)

693 AP Latin Authors (3:3)
Translation, interpretation, and literary analysis of selected authors from the AP Latin curriculum, with significant attention paid to pedagogical issues. Authors selected will vary from year to year. May be repeated for a maximum of 9 credits when authors vary.

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

803 Research Extension (1-3)
Professors

Celia R. Hooper, Ph.D., CCC-SLP
Prevention of communication disorders, adult neurogenic speech and language disorders, voice disorders and care of the professional voice.

Alan G. Kamhi, Ph.D., CCC-SLP
Speech, language, reading development and disorders.

Robert Mayo, Ph.D., CCC-SLP
Fluency disorders, adult neurogenic disorders, public perceptions of communication disorders and differences (Head of Department).

Academic Professional Professor

Vicki McCready, M.A., CCC-SLP
Clinical supervision, interpersonal communication, fluency disorders (Director of Speech and Hearing Center).

Associate Professors

Virginia A. Hinton, Ph.D., CCC-SLP
Normal speech physiology, craniofacial anomalies, neuromotor control for speech production, voice disorders.

Kristine Lundgren, Sc.D., CCC-SLP
Adult neurogenic communication disorders.

Evangeline E. Nwokah, Ph.D., CCC-SLP
Early intervention, language acquisition and disorders (Director of Graduate Study).

Susan L. Phillips, Ph.D., CCC-A
Psychoacoustics, speech perception (Director of Undergraduate Study and Clinical Supervisor in Audiology).

Denise A. Tucker, Ph.D., CCC-A
Auditory electrophysiology, audiology, hearing aids, pediatric aural rehabilitation, cochlear implants, tinnitus (Director of Doctoral Study and Clinical Supervisor in Audiology).

Academic Professional Associate Professor

Michael Campbell, M.S., M.B.A., CCC-SLP
Voice, adult neurogenic disorders, hospital administration.

Assistant Professor

Lisa G. Fox-Thomas, Ph.D., CCC-A
Central auditory processing, tinnitus retraining therapy, aural rehabilitation, hearing aids (Coordinator of Audiology Services and Clinical Supervisor in Audiology).

Academic Professional Assistant Professors

Colette M. Edwards, M.A., CCC-SLP
Clinical supervision, preschool/school-aged language and literacy.

Perry F. Flynn, M.Ed., CCC-SLP
Adolescent language and reading, public school service delivery (Coordinator of Adolescent Language Project).

Lyn B. Mankoff, M.A., CCC-SLP
Clinical supervision (Coordinator of Speech-Language Pathology Internships).

Lisa McDonald, M.A., CCC-SLP
Clinical supervision, school-age language and literacy, public school service delivery.

Louise F. Raleigh, M.Ed., CCC-SLP
Clinical supervisor (Campus Coordinator of Distance Education Program in Speech-Language Pathology and Assistant Director of Speech and Hearing Center).
The Communication Sciences and Disorders Department offers graduate work leading to the Master of Arts and the Doctor of Philosophy degrees.

The master’s program (M.A.) in speech language pathology provides a lifespan approach for advanced study of language, speech, swallowing, non-speech communication systems, and hearing in persons of all ages. The University Speech and Hearing Center, hearing and speech laboratories, and a variety of human service agencies provide ample practica and research experiences.

The doctoral program is designed for advanced study in communication sciences and disorders, intersecting disciplines, and development of research and teaching strategies. Students with background in speech language pathology, audiology, or other disciplines are encouraged to explore with the faculty the new frontiers in scientific discovery that link previous academic achievement and future study. Part- and full-time study is available.

Admission Requirements
In addition to the application materials required by The Graduate School, applicants to the master’s program must submit a written personal statement, not to exceed two double-spaced typed pages, focusing on the applicant’s unique qualifications and interests in the field of speech-language pathology and the master’s program at UNCG.

Upon admission to the master’s program in speech-language pathology, each student will be assigned an academic advisor. That advisor and/or the Director of Graduate Study will provide each student with initial information regarding academic and clinical aspects of the program.

In addition to the application materials required by The Graduate School, applicants to the doctoral program must submit a current curriculum vitae describing all educational and work experience and be interviewed by UNCG faculty (prospective mentors) in the student’s area of special interest.

Requirements for the Master of Arts in Speech-Language Pathology

The Department of Communication Sciences and Disorders offers a graduate program leading to a 60 hour (34 hours in academic course work and 26 hours in clinical course work) Master of Arts degree (excludes clinical practicum hours earned). The program, accredited by the Council of Academic Accreditation of the American Speech-Language-Hearing Association (ASHA), provides academic and clinical instruction sufficient for the Certificate of Clinical Competence (CCC) in speech-language pathology awarded by ASHA and licensure in the state of North Carolina. Prospective students without an undergraduate degree in communication sciences and disorders should expect to spend approximately one year taking pre-professional courses (see Undergraduate Bulletin, CSD major) which are required before graduate course work. Students should consult with advisors in this program for course selection that will meet degree, certification, and licensure requirements.

Research Techniques (minimum of 6 hours)
CSD 632  Introduction to Research in Communication Sciences and Disorders (3)

Non-thesis students must also take the following:
CSD 633  Special Projects in Communication Sciences and Disorders (3)

Thesis students must also enroll in CSD 699
Thesis for one or more semesters.

Required Professional Area Courses
(28 hours)
Students must complete the following courses:
CSD 600  Professional Issues and Ethics (3)
CSD 614  Language Learning Disabilities (3)
CSD 618  Counseling and Interviewing Skills in Communication Sciences and Disorders (1)
CSD 626  Professional Writing and Speaking in Communication Sciences and Disorders (1)
CSD 627  Multicultural Issues in Communication Sciences and Disorders (1)
CSD 629  Dysphagia (3)
COMMUNICATION SCIENCES AND DISORDERS

CSD 636 Prevention, Assessment and Intervention of Communication Disorders: Birth-5 years (5)
CSD 637 Prevention, Assessment and Intervention of Communication Disorders: School Age (3)
CSD 639 Prevention, Assessment and Intervention of Communication Disorders: Late Adolescence and Early Adulthood (3)
CSD 640 Prevention, Assessment and Intervention of Communication Disorders: Middle and Older Adults (5)

Electives in Speech-Language Pathology
Students may select, in consultation with an academic advisor in the discipline, courses in the elective professional areas:
- CSD 612 Augmentative and Alternative Communication (1)
- CSD 619 The Supervisory Process in Communication Sciences and Disorders (1)
- CSD 630 Fundamentals for Speech and Language Analysis (3)
- CSD 631 Structured Language Intervention for Language-Literacy Impairments (3)
- CSD 635 Advanced Phonetic Transcription (1)
- CSD 650 Independent Study (1-3)

Clinical Practicum (26 hours minimum)
In order to meet requirements for clinical certification and state licensure, students must complete specific clinical practicum requirements. The courses for supervised clinical practicum include:

PhD Requirements for the Doctor of Philosophy in Communication Sciences and Disorders

Professional Development (4 hours)
Doctoral students will complete four hours of professional seminar courses, wherein current topics related to the CSD profession are studied.

Tools (21 hours)
With the approval of the IPPC, the student is expected to complete a minimum of 21 hours in doctoral “tool” courses. This course work includes instruction in teaching practices, grant writing, statistics, clinical supervision, and practicum courses. The CSD department will offer hands-on practicum courses in the areas of teaching, grant writing, clinical supervision, and academic administration.

Dissertation (12 hours minimum)
CSD 799 Dissertation (12)
Formal Reviews and Examinations
The student must pass each of the reviews and examinations listed below.

1. Approval of Plan of Study: Each doctoral student will have an Individual Program Planning Committee (IPPC) assigned by the Department Head. The IPPC helps evaluate the student’s needs and assists in developing the plan of study.

2. Qualifying exams. The IPPC will prescribe the areas and elements of the exams. The exams will take place after at least 3/4 of the course work in the Plan of Study is completed.

3. Dissertation Proposal Approval

4. Advancement to Candidacy: Following completion of course work, qualifying exams, and approval of dissertation proposal, the student may make application to The Graduate School for admission to candidacy for the doctoral degree.

5. Final Oral Examination

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**Communication Sciences and Disorders Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>550</td>
<td>Diagnostic Procedures: Inquiry, Observation and Measurement (3:2:3)</td>
<td>Pr. completion of all CSD 300-level courses required for the major or permission of instructor. Processes and techniques of data acquisition and analysis for the diagnosis, assessment, and evaluation of communication disorders.</td>
</tr>
<tr>
<td>551</td>
<td>Speech and Language Disorders: Diagnostic Procedures (3:2:2)</td>
<td>Pr. permission of instructor. Differential diagnosis of speech, language, voice, and rhythm problems.</td>
</tr>
<tr>
<td>552</td>
<td>Communication and Aging (3:3)</td>
<td>Pr. 308 or permission of instructor. Development of communication in old age; factors affecting development and competency; communication evidence and theories of aging; facilitation of life-long functional communication.</td>
</tr>
<tr>
<td>556</td>
<td>Adult Aural Rehabilitation (3:3)</td>
<td>Pr. 334 or permission of instructor. Principles of aural rehabilitation with hearing impaired adults and their significant others.</td>
</tr>
<tr>
<td>557</td>
<td>Pediatric Aural Rehabilitation (3:3)</td>
<td>Pr. permission of instructor. Study of new technologies available for children with hearing impairment and the impact of these technologies on therapy and teaching.</td>
</tr>
<tr>
<td>571</td>
<td>Beginning Clinical Practice in Speech-Language Pathology (3:2:4)</td>
<td>Pr. admission to appropriate degree program or permission of instructor. Beginning clinical practice in diagnosis of and therapy for communication disorders. (Graded on S-U basis)</td>
</tr>
<tr>
<td>575</td>
<td>Instrumentation for Communication Disorders (3:3)</td>
<td>Pr. 306, 307, 309, or permission of instructor. Instrumentation commonly used in communication disorders; operation and measurement techniques for clinical and research applications.</td>
</tr>
<tr>
<td>588</td>
<td>Neurology of Speech, Language and Hearing (3:3)</td>
<td>Pr. 308 or permission of instructor. Neuroanatomy and neurophysiology with a concentration on neurological mechanisms related to speech, language, and hearing.</td>
</tr>
<tr>
<td>589</td>
<td>Experimental Course</td>
<td>This number reserved for experimental courses. Refer to the Course Schedule for current offerings.</td>
</tr>
<tr>
<td>600</td>
<td>Professional Issues and Ethics in Speech-Language Pathology (3:3)</td>
<td>Pr. admission to appropriate degree program or permission of instructor. Issues related to the profession, service delivery, ethics, legal considerations, funding issues, program administration and credentialing. Content is in accordance with the American Speech-Language-Hearing Association Scope of Practice.</td>
</tr>
<tr>
<td>601</td>
<td>Special Topics in Child Speech and Language Development (3:3)</td>
<td>Pr. graduate courses in appropriate content area and admission to appropriate degree program, or permission of instructor. Child speech and language development in specialized areas of current professional concern. Topic to be announced. May be repeated for credit when topic varies.</td>
</tr>
<tr>
<td>602</td>
<td>Seminar in Speech Pathology: Organic Disorders (3:3)</td>
<td>Pr. 551 or equivalent and admission to appropriate degree program, or permission of instructor. Study of organic disorders of communication.</td>
</tr>
<tr>
<td>603</td>
<td>Seminar in Voice Problems (3:3)</td>
<td>Pr. 551 or equivalent and admission to appropriate degree program, or permission of instructor. Investigation of current literature and theories of vocal anomalies. Organic deviations.</td>
</tr>
</tbody>
</table>
604 Pediatric Fluency Disorders (3:3)
Pr. 551 or equivalent and admission to appropriate degree program, or permission of instructor
The development of stuttering and cluttering in young children; diagnosis, treatment, and prevention of fluency disorders. Fluency treatment techniques for speech-language pathologists in a school setting or early intervention.

605 Seminar in Speech and Language Pathology (3:3)
Pr. graduate-level courses in appropriate content area and admission to appropriate degree program, or permission of instructor
Studies dealing with specialized areas of communication disorders. Topic to be announced each semester course is offered. May be repeated for credit when topic varies.

606 Seminar in Aphasia (3:3)
Pr. 551 or equivalent and admission to appropriate degree program, or permission of instructor
Investigation of language problems arising from cardio-cerebro-vascular and associated anomalies. Pathology, diagnosis, and rehabilitation.

612 Augmentative and Alternative Communication (1:1)
Pr. admission to appropriate degree program, or permission of instructor
Knowledge of augmentative and alternative communications and problem-solving in the design and application of appropriate AAC systems.

613 Communication Problems in Aging (3:3)
Pr. permission of instructor
Nature, assessment, and management of communication disorders in the elderly.

614 Language Learning Disabilities (3:3)
Pr. admission to appropriate degree program, or permission of instructor
Assessment and treatment of spoken and written language learning disabilities in school-age children and adolescents with special emphasis on the collaborative role of the speech-language pathologist in school-based settings.

615 Communication and Severe/Profound Disabilities (3:3)
Pr. permission of instructor
Nature, assessment, and management of communication disorders in persons of all ages who have severe/profound disabilities.

616 Neurogenic Communication Disorders (3:3)
Pr. admission to appropriate degree program, or permission of instructor
Investigation of the neuroanatomy and physiology of motor speech, and exploration of assessment and remediation techniques of dysarthria, apraxia, and dysphagia.

617 Language Disorders and Neurological Theory (3:3)
Pr. admission to appropriate degree program, or permission of instructor
Latest knowledge on the specialization of the two hemispheres and clinical syndromes/language disorders resulting from left and right hemisphere dysfunction.

618 Counseling and Interviewing Skills in Communication Sciences and Disorders (1:1)
Pr. admission to appropriate degree program, or permission of instructor
Instruction and practice in counseling and interviewing skills during the assessment and treatment of speech, language, and hearing disorders.

619 The Supervisory Process in Communication Sciences and Disorders (1:1)
Pr. admission to appropriate degree program or permission of instructor
Study and practice of clinical supervision in speech-language pathology. Theoretical models of supervision, pertinent research, and clinical practice.

623 Seminar in Central Auditory Processing (3:3)
Pr. admission to appropriate degree program or permission of instructor
Anatomy and physiology of the central auditory nervous system, methods and techniques of measurement and interpretation for the assessment, diagnosis, evaluation, and rehabilitation of individuals with central auditory processing disorders.

626 Professional Writing and Speaking in Communication Sciences and Disorders (1:1)
Pr. admission to appropriate degree program or permission of instructor
Instruction and practice in writing professional reports, research papers, and in making oral presentations.

627 Multicultural Issues in Communication Sciences and Disorders (1:1)
Pr. admission to appropriate degree program or permission of instructor
Identification and treatment of speech and language differences in diverse populations.

629 Dysphagia (3:2:1)
Pr. admission to appropriate degree program or permission of instructor
Anatomical bases of normal and disordered swallowing in children and adults; evaluation and treatment of swallowing disorders.

630 Fundamentals for Speech and Language Analysis (3:3:1)
Pr. admission to appropriate degree program or permission of instructor
Basic linguistic structures that support oral and written English, including phonetics and phonology, morphology, orthography, semantics, and syntax.

631 Structured Language Intervention for Language-Literacy Impairments (3:3:1)
Pr. admission to appropriate degree program or permission of instructor
Certification course in the Language! TM Curriculum (Sopris West, Inc.), an intervention curriculum for individuals at risk for literacy problems.

632 Introduction to Research in Communication Sciences and Disorders (3:3)
Pr. admission to appropriate degree program or permission of instructor
Introduction to research procedures in the study of communication sciences and disorders.

633 Special Projects in Communication Sciences and Disorders (3:3)
Pr. admission to appropriate degree program or permission of instructor
Individual scholarly project developed by the student with faculty guidance. (Graded on S/U basis)
634 Research Design in Communication Sciences and Disorders (2:2)
Pr. admission to appropriate degree program or permission of instructor
Development of research proposal, from generation of hypothesis through data analysis and interpretation.

635 Advanced Phonetic Transcription (1:1:2)
Pr. completion of an introductory phonetics course and admission to appropriate degree program or permission of instructor
Detailed transcription of normal and disordered speech using the International Phonetic Alphabet.

636 Prevention, Assessment, and Intervention of Communication Disorders: Birth - 5 (5:5:2)
Pr. admission to appropriate degree program or permission of instructor
Communication development and disorders (speech, language, and hearing) in infants, toddlers, and preschoolers.

637 Prevention, Assessment, and Intervention of Communication Disorders: School Age (3:3)
Pr. admission to appropriate degree program or permission of instructor
Communication development and disorders in school age children and adolescents.

638 Minor Area Clinical Practicum for Speech-Language Pathology Majors (1)
Pr. 334, graduate standing, and completion of 25 observation hours
Instruction for speech-language pathology majors in performing hearing screenings. Helps obtain the 20 clock hours in the minor area required by the American Speech-Language-Hearing Association (ASHA). (Graded on S-U basis)

639 Prevention, Assessment, and Intervention of Communication Disorders: Late Adolescence and Early Adulthood (3:3:2)
Pr. admission to appropriate degree program or permission of instructor
Communication development and disorders (speech, language, and hearing) in late adolescents and young adults.

640 Prevention, Assessment, and Intervention of Communication Disorders: Middle and Older Adults (5:5:2)
Pr. admission to appropriate degree program or permission of instructor
Communication development and disorders (speech, language, and hearing) in middle aged and older adults.

650 Independent Study (1-3)
Pr. admission to appropriate degree program or permission of instructor and major advisor
Topic to be determined by faculty advisor and student.

670 Diagnostic Audiology I (3:2:2)
Pr. 334 or permission of instructor
Basic diagnostic procedures in audiology. Includes anatomy, physiology, and disorders of the hearing mechanism, basic evaluation and interpretation of auditory function.

673 Studies and Practice in Supervision of Communication Sciences and Disorders (3:3)
Pr. permission of instructor
Supervision in speech-language pathology and audiology. Theoretical models of supervision, pertinent research, and clinical practice. Opportunities for observation.

674 Diagnostic Audiology II (3:2:2)
Pr. 570 or equivalent
Non-organic hearing loss; differential diagnosis; special problems in diagnosis.

677 Internship in Communication Disorders (3-9)
Pr. permission of instructor
Clinical experience under supervision of a certified speech-language pathologist in an off-campus facility.

678 Advanced Clinical Practice in Speech-Language Pathology (3:2:4)
Pr. admission to appropriate degree program or permission of instructor
Advanced clinical practice in diagnosis of and therapy for communication disorders. May be repeated for credit.

688 Research Design in Communication Disorders (3:3)
Pr. admission to appropriate degree program and at least one semester of clinical practicum and two semesters of graduate courses
Development of research proposals, from generation of hypothesis through data analysis and interpretation. Includes pilot study project.

697 Clinical Tutoring (1-6)
Pr. permission of instructor for non-CSD majors
Pr. completion of an introductory phonetics course and admission to appropriate degree program, or permission of instructor
Pr. 688 and statistics and admission to appropriate degree program and at least one semester of clinical practicum and two semesters of graduate courses
Pr. permission of instructor for non-CSD majors or course instructor for individualized mentoring of the grant writing project
Weekly seminar on contemporary issues in communication sciences and disorders. May be repeated four times for credit. (Graded on S-U basis)

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

751 Professional Seminars in Communication Sciences and Disorders (1:1)
Weekly seminar on contemporary issues in communication sciences and disorders. May be repeated four times for credit. (Graded on S-U basis)

760 Advanced Seminar in Communication Sciences and Disorders (3:3)
Critical analysis of special topics in communication sciences and disorders. Topics change each semester. May be repeated when topic varies for a maximum of 18 hours.

771 Best Practices in Teaching Communication Sciences and Disorders (3:3)
Pr. permission of instructor for non-CSD majors
Introduction to best practices in teaching in communication sciences and disorders.

772 Doctoral Seminar in Grant Writing (3:3)
Pr. permission of instructor for non-CSD majors
Pr. 790 with faculty advisor or course instructor for individualized mentoring of the grant writing project
The grant writing process, including the procedures and technical strategies for developing and submitting a grant proposal for funding. (Graded on S-U basis) (Same as ESS 798)
Practicum in Teaching Communication Sciences and Disorders (3:3)
Pr or coreq, 771. Pr. permission of instructor for non-CSD majors
Practicum in teaching in communication sciences and disorders. Course may be repeated once for credit. (Graded on S-U basis)

Higher Education Administration and Leadership in CSD (3:2:3)
Pr. students must have an administrative mentor who agrees to participate in the practicum section of this course
Administrative roles and responsibilities within academic administration and leadership, from CSD program director to roles beyond the departmental level. (Graded on S-U basis)

Independent Study (1-3)
Pr. permission of doctoral advisory committee and graduate faculty mentor
Guided readings, research, and individual project work. May be repeated for a maximum of 15 hours credit.

Directed Research (1-3)
Pr. permission of doctoral advisory committee and graduate faculty mentor
Individual work on directed research or topics of special interest: collection and analysis of data, critical review, integration, and interpretation of research literature on a topic pertinent to the student’s research. May be repeated for a maximum of 15 hours credit.

Dissertation (1-12)
Pr. completion of doctoral examinations

Thesis Extension (1-3)
Research Extension (1-3)
Department of Communication Studies
102 Ferguson Building • (336) 334-5297
www.uncg.edu/cst

Professor
Roy Schwartzman, Ph.D.
Figurative language, rhetoric of science and technology, computer-mediated communication, critical theory, Holocaust studies, public address.

Associate Professors
Sharon L. Bracci, Ph.D.
Communication ethics, media ethics, argumentation, health communication (Director of Graduate Study).
Spoma Jovanovic, Ph.D.
Communication and communities, communication ethics, social justice, service learning.
Peter M. Kellett, Ph.D.
Conflict analysis and management, narrative methodology (Head of Department).
Elizabeth J. Natalle, Ph.D.
Gender and communication theory, interpersonal processes, feminist criticism.
Christopher N. Poulos, Ph.D.
Relational communication, ethnography, philosophy of communication, film, dialogue.

Assistant Professors
David A. Carlone, Ph.D.
Organizational communication, social and cultural theory, cultural studies of work and organization.
Etsuko Kinefuchi, Ph.D.
Intercultural communication, language and culture, cultural identity and identity negotiation.
Marianne E. LeGreco, Ph.D.
Public health, organizational policy, nutrition promotion and practice.

Lecturer
Joyce Ferguson, M.Ed.
Speech pedagogy, small group communication.

Mission
We research, teach, and practice communication to cultivate the ethical voices of people that speak in critical, constructive, and transformative ways to identities, relationships, and communities.

Scholarship in the Department
We believe that communication is formative and foundational to human identities, relationships, and communities—and that ethical and strategically effective communication can be the means of critiquing, constructing, and transforming identities, relationships, and communities.

We engage in communication scholarship in the form of research, teaching, and service that:
• Integrates dialogue and other approaches to communication as the foundation for scholarly inquiry and application to the world
• Cultivates diversity and respect for differences
• Promotes change that leads to more democratic, just, and peaceful relationships and communities
• Engages creative partnerships of faculty, students, and other stakeholders in addressing contemporary challenges and opportunities for improving communication

We value students who are able to blend theory, research, and application in a variety of communication environments. We also value self-motivated students who are research focused and who are already good writers and speakers. Students develop the in-depth theoretical knowledge and research skills in the core courses and then apply this to the subject matter of the elective courses they take.

Every elective course synthesizes communication theory, research, and application because we regard theory, research, and application as interdependent and necessary aspects of scholarship.
Admission Requirements

In addition to the application materials required by The Graduate School, applicants must submit a 2-3 page cover letter explaining their qualifications and interests in the program and a writing sample such as an academic paper or a paper written in consultation with the Director of Graduate Study. An interview (phone or in person) with the Director of Graduate Study or a member of the graduate faculty is also required.

Procedural Guidelines
1. Upon admission to the department, the Director of Graduate Study will advise graduate students on Departmental and Graduate School processes and procedures.
2. After completing the core requirements, students will be informed by the Director of Graduate Study if they are or are not meeting the academic standards and requirements of the program. At that time, students may be allowed to continue in the program, be placed on academic probation, or be asked to leave the program.
3. In the semester immediately prior to their final semester, students will form an advisory committee to assist with completion of the Final Research Project. The committee will consist of two faculty members with whom the student has taken courses during the degree (and with whom the student shares common research interests), one of whom will serve as the major guiding professor on the project. The committee will guide the student through the development and execution of a research project appropriate to the culmination of the M.A. degree. The final product will be a scholarly essay suitable for presentation at a local, regional, or national communication conference or for publication in a scholarly journal. To allow for adequate planning, the committee should be formed before either fall or spring break in the semester prior to the final semester.

Requirements for the Master of Arts in Communication Studies

The requirements for the 30 hour Master of Arts in communication studies consist of satisfactory completion of the mandatory core courses, elective course work, and the capstone experience.

Mandatory Core Courses (9 hours)

- CST 600 Engaging in Graduate Scholarship (3)
- CST 601 Engaging Communication Theories (3)
- CST 602 Engaging Communication Research Methodology (3)

The core courses form the foundation for effective scholarship and inquiry. CST 600 should be taken in the first semester of graduate study. This course introduces students to a wide range of topics, themes, and literature in the field, and to the policies, procedures, and expectations of graduate level work. CST 601 and 602 should be taken in the first year of the program to introduce students to the theories and methodologies necessary to engage in communication scholarship.

Elective Course Work (18-21 hours)

Satisfactory completion of 18-21 hours is required. At least 9 hours of electives must be at the 600-level. Up to 6 hours may be taken outside the Department of Communication. Courses graded S/U, with the exception of CST 698, may not count toward the minimum number of hours required for the degree.

Capstone Experience (Final Research Project) (3 hours)

- CST 698 Capstone Experience in Communication (Final Research Project) (3)

All students must complete a final research project, in consultation with the faculty, as a demonstration of mastery of the arts of communication scholarship (see Procedural Guidelines for more information).

SACS 18-Hour Requirement

Community college instructors interested in earning 18 semester hours in communication to satisfy SACS requirements should consult the Director of Graduate Study for guidance in course selection.
CST 500-level classes are open to any graduate student. Undergraduate student prerequisite: permission of instructor.

502 The Semiotics of Everyday Life (3:3)
Language, meaning, and sign systems as communication process. Emphasis on projects to apply theoretical concepts from general semantics and semiotics to promote understanding of how humans symbolically construct reality.

506 Speaking Out for Community Change (3:3)
Exploration of theory and practice in community advocacy. Focus on public deliberation, moral conflict, and community dialogue in value-laden topics and controversies.

555 Relational Communication and the Hollywood Feature Film (3:2:3)
Analysis and application of the images, discourses, and practices concerning human communication and relationships as they are represented in the powerful cultural medium of film.

562 Organizational Change: Diversity and Identity (3:3)
Contemporary theory and practices of communication applied to changing organizations. Emphasis on the role of diversity and issues of identity in driving change.

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

599 Communication Pedagogy (3:3)
Seminar focusing on the effect of communication upon learning. For graduate teaching assistants in any discipline, graduates and undergraduates interested in teaching or training. Emphasis on pedagogical principles and instructional materials.

600 Engaging in Graduate Scholarship (3:3)
Pr. admission to appropriate degree program or permission of instructor
Introduces students to the policies, procedures, and expectations of graduate community, and prepares students for graduate level work.

601 Engaging Communication Theories (3:3)
Pr. admission to appropriate degree program or permission of instructor
Contemporary theories of communication, including interpretive, critical, rhetorical, and scientific. Emphasis on engaging social and cultural contexts in which to utilize theory.

602 Engaging Communication Research Methodology (3:3)
Provides a foundation in communication research methodology. Introduces positivist, interpretivist, and critical research paradigms, and links these to focus groups, in-depth interviewing, participant observation, and document analysis.

605 Communicating for Social Change (3:3)
Theoretical and practical views on how to work inside and outside institutions of power to transform values, assert credibility, and mobilize others. Emphasis on how communication creates social change. Topics and emphasis vary by semester.

612 Seminar in Communication Studies (3:3)
Pr. admission to appropriate degree program or permission of instructor
Subject matter varies. May be repeated for credit.

630 Organization, Democracy, and Community (3:3)
How do we create communities out of autonomous and creative individuals? Considers communication as the creative process underlying democratic communities, and the concepts of power, identity, and voice.

632 Seminar in Communication Ethics (3:3)
Pr. admission to appropriate degree program or permission of instructor
Theory and practice of communication ethics in a free society. Issues and cases ranging from intrapersonal to mass media communication situations.

635 Identity, Culture, and Communication (3:3)
Examines the nature of identity and how culturally significant identity sites such as race, nationality, gender, sexuality, class, and physical/mental ability are constructed, intertwined, enacted, negotiated, and resisted through communication.

650 Independent Study (1-3)
Pr. admission to appropriate degree program or permission of instructor and major advisor
Topic to be determined by faculty advisor and student.

659 Communication and Gendered Communities (3:3)
Ways in which communication process constructs gendered communities. Analysis of gendered language codes, speech communities, and messages that transform community.

663 Seminar in Relational Communication (3:3)
Pr. admission to appropriate degree program or permission of instructor
Major interpersonal communication theories and constructs, and methods for investigating them.

698 Capstone Experience in Communication (Final Research Project) (1-3)
Synthesis of theories, research methods, and practices of communication that will shape the 21st Century, demonstrated through independent scholarly research (conducted in consultation with faculty committee). (Graded on S-U basis)

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

803 Research Extension (1-3)
Department of

Computer Science

Graduate Programs in Computer Sciences

• M.S.

Professors

Francine Blanchet-Sadri, Ph.D.
Combinatorics on words, formal languages, string algorithms.

Fereidoon Sadri, Ph.D.
Database systems, XML information integration, modeling and management of inaccurate and uncertain data (Director of Graduate Study).

Stephen R. Tate, Ph.D.
Computer security, cryptography, algorithms, data compression (Head of Department).

Associate Professors

Lixin Fu, Ph.D.
Data mining, databases, algorithms.

Nancy Green, Ph.D.
Artificial intelligence, human-computer interaction.

Shan Suthaharan, Ph.D.
Digital watermarking, video coding and compression, computer networks and security, wireless communications, image processing.

Requirements for the Master of Science

in Computer Science

The Department of Computer Science offers a graduate program of study leading to a Master of Science degree in computer science. There are three options: course work with comprehensive examination, project, or thesis. The program requires 30 hours with at least 18 hours in computer science (CSC) courses.

Core Courses (6-21 hours)

Every student must complete:

- CSC 640  Software Engineering (3)
- CSC 656  Foundations of Computer Science (3)

Every student must either present evidence of having completed at least one advanced course in each of the following areas during the undergraduate program or take an advanced course in each of the following areas as part of the graduate program:

- Operating Systems (CSC 562)
- Computer Networks (CSC 567)
- Theory of Computation (CSC 553)
- Algorithm Analysis (CSC 555)
- Advanced Database Systems (CSC 671)

Electives (9-24 hours)

With prior approval of the Director of Graduate Study, a student will select 9-24 hours of other 500- or 600-level courses from the following:

- Any CSC course
- MAT 514, 515, 517, 531, 532, 541, 542, 549, 556, 593, 594, 631, 632, 645, 646, 688, 689
- STA 551, 552, 573, 574, 575, 580, 651, 652, 671, 672, 673, 674, 675, 676, 677

Thesis, Project, or Comprehensive Examination (Capstone Experience)

Each candidate may elect to prepare a thesis, prepare a project, or pass a comprehensive examination on the program of course work.

Thesis (6 hours)

The candidate may prepare a thesis based on the investigation of a topic in computer science. A thesis director will be appointed by the Department Head after consultation with the student and the Director of Graduate Study. The writing of a thesis requires the scholarly exposition and documentation of a substantial problem. In some cases this may lead to a new solution to the problem and to original results. While writing the thesis, candidates may include up to 6 hours of CSC 699 in the required 30 hour program. An oral examination on the thesis is required.

Project (3-6 hours)

The candidate may prepare a project (theoretical or programmed) based on a topic in computer science. The project may be work-related. A project director will be appointed by the Department Head

167 Petty Building  •  (336) 256-1112
www.uncg.edu/cmp
after consultation with the student and the Director of Graduate Study. The preparation of a project requires a description of the problem and documentation of any software products or description of theoretical solutions. While preparing the project, candidates may include 3 to 6 hours of CSC 698 in the required 30 hour program. An oral examination on the project is required.

Comprehensive Examination
A candidate may elect to pass a written comprehensive examination on the program of study. Please consult with the Director of Graduate Study for information concerning the comprehensive examination.

**CSC**  Computer Science Courses

521  **Computer Graphics (3:3)**
- Pr. grades of at least C in 340, 350, and MAT 292, or permission of instructor
- Survey of graphics algorithms, data structures, and techniques. (Odd Spring)

522  **Digital Image Processing (3:3)**
- Pr. grades of at least C in 330, 350, and MAT 292, or permission of instructor. Successful completion of STA 271 or STA 290 recommended.
- Image representation, enhancement, compression, coding, restoration, wavelet transforms.

523  **Numerical Analysis and Computing (3:3)**
- Pr. grades of at least C in 330, MAT 293, or permission of instructor
- Number systems and errors, solutions of nonlinear and linear systems, eigenvalue problems, interpolation and approximation, numerical differentiation and integration, solution of differential equations. (Even Spring)

524  **Numerical Analysis and Computing (3:3)**
- Pr. grade of at least C in 523
- Continuation of 523 with special topics in numerical analysis, emphasis on applied mathematics. (Formerly CSC 544)

526  **Bioinformatics (3:3)**
- Pr. permission of instructor
- Problems and methods in bioinformatics including restriction mapping, map assembly, sequencing, DNA arrays, and sequence comparison.

529  **Artificial Intelligence (3:3)**
- Pr. grade of at least C in 339 or permission of instructor
- Logical foundations, knowledge representation and reasoning, search, and selected topics such as natural language processing and reasoning under uncertainty. (Formerly CSC 599)

539  **Introduction to Compiler Design (3:3)**
- Pr. grades of at least C in 261 and 330 or permission of instructor. Successful completion of 553 helpful
- Basic techniques of compiler design and implementation: lexical analysis, parsing, code generation. Sizable programming project implementing a compiler for a block structured language with strong typing.

540  **Human-Computer Interface Development (3:3)**
- Pr. grades of at least C in 330 and STA 271 or STA 290; or permission of instructor
- Survey of concepts and techniques for human-computer interface development. Topics include user-centered design, user interface programming, and usability evaluation.

550  **Combinatorics on Words (3:3)**
- Pr. permission of instructor
- Introduction to the problems and methods in algorithmic combinatorics on words. Problem areas include periodicity, primitivity, and borderedness.

553  **Theory of Computation (3:3)**
- Pr. grade of at least C in CSC 350 or permission of instructor
- Finite state automata and regular expressions, context-free grammars, push-down automata and their use in parsing, overview of language translation systems, models for programming language semantics, computability and undecidability.

555  **Algorithm Analysis and Design (3:3)**
- Pr. grade of at least C in 330
- Sequential algorithm design and complexity analysis. Dynamic programming. Greedy algorithms. Graph algorithms. Selected advanced topics from NP-completeness; approximation, randomized, parallel, number-theoretic algorithms; Fast Fourier Transform; computational geometry; string matching.

561  **Principles of Computer Architecture (3:2:3)**
- Pr. grades of at least C in 261, 330, and 350, or permission of instructor
- Hardware and software components of computer systems, their organization and operations. Topics: comparative instruction set architectures, microprogramming, memory management, processor management, I/O, interrupts, and emulation of processors.

562  **Principles of Operating Systems (3:3)**
- Pr. grades of at least C in 261 and 340 or permission of instructor. Successful completion of 561 helpful
- Techniques and strategies used in operating system design and implementation: managing processes, input/output, memory, scheduling, file systems, and protection.

563  **Basic Systems Administration Laboratory (1:0:3)**
- Coreq. 562 and 567, or permission of instructor
- Installing operating systems, peripherals, hardware, and software. Backups, recompiling the kernel (loading/unloading modules), providing web services, and user administration.

564  **Intermediate Systems Administration Laboratory (1:0:3)**
- Pr. grade of at least C in 563
- Topics selected from routing, firewall, Primary Domain Controller, Backup Domain Controller, Domain Controller trust, SAMBA, DNS round robin, and PPP connectivity setup.
565 Advanced Systems Administration Laboratory (1:0:3)
Pr. grade of at least C in 564
Automated installation, software installation, systems programming, system administration in a large organization. Projects will include departmental or university computer system work.

567 Principles of Computer Networks (3:3)
Pr. grades of at least C in 261 and 330, or permission of instructor
Hardware and software components of computer networks, their organization and operations. Topics: open system interconnection; local area networks; TCP/IP internetworking, routing, and packet switching; network programming. (Spring)

568 Principles of Wireless Networks (3:3)
Pr. grades of at least C in 330 and 567, or permission of instructor
Digital communications, communication networks, wireless communication technology, wireless networking, wireless LANs and wireless network programming. (Spring)

580 Cryptography and Security in Computing (3:3)
Pr. grades of at least C in 330 and one of the following: 471, 561, 562, or 567; or permission of instructor
Modern development of cryptography and secure encryption protocols. Program security and viruses, operating system protection, network and distributed system security, database security, and administering security. (Fall)

583 Firewall Architecture and Computer Security (3:3)
Pr. grades of at least C in 567 and 580, or permission of instructor
Firewall hardware and software technologies. Architectures, protocols and their applications. (Spring)

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

593, 594 Directed Study in Computer Science (1-3), (1-3)
621 Advanced Computer Graphics (3:3)
Pr. 521 or permission of instructor
Advanced computer graphics algorithms, data structures, and techniques. (Odd Spring)

622 Advanced Digital Image Processing (3:3)
Pr. 522 or permission of instructor
Image restoration, segmentation, coding, representation and description, morphological transforms, object recognition.

626 Advanced Bioinformatics (3:3)
Pr. 526 or permission of instructor
Advanced topics in bioinformatics related to sequence comparison and database search, fragment assembly of DNA, physical mapping of DNA, phylogenetic trees, genome rearrangements, and molecular structure prediction.

640 Software Engineering (3:3)
Pr. 330, or permission of instructor
Organization and scheduling of software engineering projects and structured software design. Specification methods, metrics, software engineering tools, design, prototyping, version control, and testing.

650 Language Theory (3:3)
Pr. 550 or permission of instructor
Important aspects of language theory. Advanced topics such as grammar, codes, L systems, and combinatorics on words.

653 Advanced Theory of Computation (3:3)
Pr. 553, or permission of instructor
Computability theory: Church-Turing thesis (Turing machines, variants, other models); decidability (decidable and undecidable problems for automata and grammars, the halting problem); reducibility (undecidability of mathematical truth).

655 Advanced Topics in Algorithms (3:3)
Pr. grade of at least C in 555
Modern development of algorithm design and analysis for sequential and parallel computers; parallel, number-theoretic, probabilistic, and approximation algorithms, string matching, computational geometry, NP-completeness: worst-case versus average-case.

656 Foundations of Computer Science (3:3)
Pr. MAT 353 or permission of instructor
Introduces the mathematical foundations that support advanced studies in computer science including computer programming and the analysis of algorithms.

663 Advanced Topics in Computer Systems (3:3)
Pr. 330 and 567 or 561 or 562, or permission of instructor
Distributed and parallel systems. High-speed and wireless networks. Mobile computing. Communication, synchronization, distributed shared memory, real-time and fault-tolerant systems; current implementations. May be repeated for credit when topics vary.

665 Advanced Wireless Networks (3:3)
Pr. 330 or equivalent and one of the following: 561 or 562 or 567 or permission of instructor
Wireless technology and architecture, wireless network types, wireless network design approaches, wireless application development and wireless network programming.

667 Supervision of Basic Systems Administration (1:0:3)
Coreq. 562 and 567, or knowledge of operating systems and networks
Installing operating systems, peripherals, hardware, and software on heterogeneous platforms. Backups, recompiling the kernel (loading/unloading modules), providing web services, and user administration on heterogeneous networks. Installing patches and system updates. Introduction to team management strategies.

668 Supervision of Intermediate Systems Administration (1:0:3)
Pr. 667
Supervision of team members in selected topics from routing, firewall, Primary Domain Controller, Backup Domain Controller, Domain Controller trust, SAMBA, DNS round robin, and PPP connectivity setup.

669 Supervision of Advanced Systems Administration (1:0:3)
Pr. 668
Automated installation, software installation, systems programming, system administration, and team supervision for a large organization. Projects will include supervision of, and participation in, departmental or university computer system work.

671 Advanced Database Systems (3:3)
330, or permission of instructor
672 Database System Architecture (3:3)
Pr. 570 or 671, or permission of instructor
File organization and indexing techniques. Query processing and optimization. Concurrency control and crash recovery. Distributed and heterogeneous database systems. Selected topics of current interest in database and knowledge-base systems.

675 Principles of XML Databases (3:3)
Pr. 671 or permission of instructor
XML from a database point of view, concentrating on information retrieval (querying) and integration.

676 Topics in Database Systems (3:3)
Pr. 671 or permission of instructor
Selected topics of current interest such as: deductive databases, modeling and management of uncertain and inaccurate information, multi-database systems, data mining, on-line analytical processing and data warehousing.

680 Advanced Topics in Computer Security (3:3)
Pr. 339 and 580
Topics in cryptography and computer security, including cryptographic protocols, Web server security, Java security, security in the healthcare domain, and experimental quantum cryptography.

693 Advanced Topics in Computer Science (3-6)
Pr. permission of instructor
Algorithms, architecture, languages, systems, theory, or other areas of computer science. May be repeated once for credit.

695 Current Problems in Computer Science (3:3)
Pr. permission of instructor
Topics of current research interest in computer science.

697 Research Problems in Computer Science (3:3)
Pr. permission of instructor
Advanced research in specialized areas of computer science under the direction of a faculty member. Preparation for master’s thesis. (Graded on S-U basis)

698 Project in Computer Science (3-6)
Pr. permission of instructor
May be repeated for up to 6 credit hours with permission of instructor. (Graded on S-U basis)

699 Thesis (1-6)

711 Experimental Course
This number reserved for experimental courses. Refer to Course Schedule for current offerings.

801 Thesis Extension (1-3)

803 Research Extension (1-3)
Graduate Programs in
Conflict Resolution
Gateway University Research Park, 5900 Summit Ave., Brown Summit, NC 27214
(336) 217-5100  •  www.uncg.edu/cnr

Program Director
Cathie J. Witty, Ph.D.
Conflict theory and practice, cultural dimensions of conflict, mediation, conflict analysis and
transformation.

Assistant Professors
Sherrill Hayes, Ph.D.
Family mediation, social policy, linking theory and research to policy and practice.
Thomas G. Matyok, Ph.D.
Community conflict, race and ethnic relations, facilitation and practicum.

The Master of Arts in Conflict Resolution program is dedicated to providing high quality,
professional training in multiple conflict intervention and prevention skills such as medi-
tation, negotiation, facilitation, violence prevention and collaborative problem solving. The program fo-
cuses on pragmatic approaches to solving personal and social problems in a variety of social settings.
Students are exposed to a wide array of techniques and strategies to achieve nonviolent solution to
conflict that arise in diverse and conflictual family, organizational and community environments.

The 36 hour program promotes a systemic perspective to the challenges facing individuals,
families, organizations and communities. With an interdisciplinary commitment to social justice
and human rights, we train professionals to seek collaborative, constructive and healing methods
for resolving human conflict. Our goal is to mold reflective conflict professionals – practitioners with
a critical understanding of theory and method, as well as an appreciation of diversity and social
responsibility. Student are encouraged to explore a range of professional and community applications
for their practice skills and are closely mentored and supported by the faculty. Electives are focused in
two general areas: family and interpersonal conflict, and workplace, organizational and community based conflict. The program is built on a comprehensive core curriculum of 7 courses, varied electives, and flexible course schedules allowing students of all ages and needs to participate in the learning process.

The 15 semester hour Post-Baccalaureate Certificate program prepares students for the changing nature of professional development, businesses, and community services. The certificate program can be beneficial to those who have already received a graduate degree in their current area but would like to specialize in conflict resolution as a new area of specialization. It is also appropriate for those who possess an undergraduate degree and are seeking to obtain fundamental knowledge of the conflict resolution field of study or for professionals who have already earned a graduate degree in their professional field, but who would benefit from academic study of applications of conflict resolution in their current profession.

Online Certificate and Master’s Degree
Both the certificate program and the master’s program are available online through the UNCG iCampus. With the exception of the practicum, all lectures, discussion, assignments, supplementary materials, feedback, and assessments are accessed online. See the electronic brochure on the program website at www.uncg.edu/cnr.

Admission Requirements
In addition to the minimum requirements of the Graduate School, application must submit a
personal essay on their interest and expectations of the MA in Conflict Resolution and complete
an interview with program staff. Applications are accepted throughout the year, but should be received by March 31 for complete consideration for the Fall terms.
### Conflict Resolution Courses

**600  Concepts and Processes of Conflict Resolution (3:3)**  
Overview of the multidisciplinary field of conflict resolution and analysis. Mediation, negotiation, arbitration, collaborative problem solving, and other applications.

**601  The Cultural Dimensions of Conflict (3:3)**  
The role of culture, race, and ethnicity in creating and resolving conflicts. Students explore their own culture as well as diverse belief systems.

**610  Conflict Transformation (3:3)**  
Nonviolent responses to conflict and prejudice oriented to the restoration of relationships damaged by crime, war, and family and social violence.

**611  Conflict in Communities (3:3)**  
Explores mediation and conflict transformation in communities, including the impact of violent history.

**615  Mediation Theory and Practice (3:3)**  
An introduction to the theory and practice of settlement conferences, family and communication mediation models.

**616  Practicum in Conflict Resolution (3:3)**  
Pr. 600, 601, 610, 611, 615 (or co-requisite)  
Guidance, support, and theoretical connections for students engaged in conflict resolution work in field placements. May be repeated for credit.
Conflict Resolution (3:3)

Pr. 600 or permission of instructor
Explores conflict resolution theory, practice, and programming in educational settings and community organizations from early childhood through secondary education (B-12). Peer, professional, and systemic conflicts examined.

Gender and Conflict (3:3)
Examines the role of gender in the definition, creation, and resolution of conflict in diverse historical and cultural settings. Course material is drawn from a wide variety of fields.

Negotiation Theory and Practice (3:3)
Introduction to negotiation strategies, tactics, and styles used between individuals or groups in a variety of cultural settings.

Independent Study (3:3)
Intensive study guided by the graduate faculty

Dispute System Design (3:3)
Designing conflict management systems for groups and organizations; supplemental field research time required.

Violence in Families: Conflict Resolution and Intervention (3:3)
Childhood and lifelong effects of violence and trauma. Focus on conflict intervention strategies and program designs to address the effects of violence in families, schools, and communities.

Conflict Analysis in Religious Communities (3:3)
Overview of conflict analysis and intervention strategies in religious communities and organizations. Analyze and implement models of reconciliation and forgiveness.

Conflict and Violence: The Global Perspective (3:3)
Issues of war, regional violence, torture, forced relocation, ethnic cleansing, rape and other conflict intervention topics related to regional conflict.

Family Conflict Resolution (3:3)
Pr. For CNR majors, CNR 600; for HDF majors, HDF 672; for all others, permission of instructor
Explores the theory, research and methods of working with family conflicts related to divorce (financial and parenting), parent-child, and older adult issues. Assignments include reading, case studies, and role plays. (Same as HDF 675A)

Facilitation: Conflict Resolution in Groups (3:3)
Examines the range of practice of group facilitation with a focus on current theories and techniques of professional facilitation in conflict resolution practice and training.

Conflict Resolution in Health Care Systems (3:3)
Fundamentals of application of conflict resolution in health care settings. Additional focus on poverty, health and human rights as well as mediation involving issues of bioethics.

Research Extension (1-3)
Department of Consumer, Apparel, and Retail Studies

Graduate Programs in Consumer, Apparel, and Retail Studies
• M.S.
• Ph.D.

Graduate Programs in Consumer, Apparel, and Retail Studies

• M.S.
• Ph.D.

The Department of Consumer, Apparel, and Retail Studies offers graduate programs leading to the Master of Science and Doctor of Philosophy degrees. Course work and research focus on primary concepts in the study of consumer, apparel, and retailing, integrating perspectives from the social sciences, business, economics, and humanities.

Graduate courses focus on consumer, apparel, and retail issues with emphasis on consumer behavior, marketing, and product development. Students are encouraged to select supporting course work in related disciplines such as business, economics, sociology, psychology, anthropology, statistics, and information science.

Admission Requirements
In addition to the application materials required by The Graduate School, applicants must submit a 250-500 word statement indicating their reasons for pursuing graduate study in this field, previous experience and training in this or related fields, professional goals and reasons for choosing this program, and whether attendance will be full-time or part-time. An interview with graduate faculty of the Department is recommended.
Requirements for the Master of Science
in Consumer, Apparel, and Retail Studies

The Department of Consumer, Apparel, and Retail Studies offers a graduate program of study leading to a Master of Science degree with both a thesis option requiring a minimum of 30 hours or a concentration in integrated apparel and related industries requiring 39 hours.

**THESIS OPTION (MINIMUM 30 HOURS)**
The thesis option is focused on research in consumer, apparel, and retailing issues. It is designed to provide students with the necessary knowledge and skills to pursue careers in academics and business.

**Required Core Courses** (10 hours)
- RCS 562 Behavior of Softlines Consumers (3)
- CRS 563 Analysis of Apparel and Related Industries (3)
- CRS 630 Economic Dynamics of the Retail Complex (3)
- CRS 682 Graduate Seminar (1)

**Required Research Techniques** (9-11 hours)
- CRS 605 Research Methodology in Consumer, Apparel, and Retail Studies (3)
- and one of the following options:
  - STA 571, 571L Statistical Methods for Research I (4)
  - STA 572, 572L Statistical Methods for Research II (4)
  - ERM 680 Intermediate Statistical Methods in Education (3)
  - ERM 681 Design and Analysis of Educational Experiments (3)
- or
  - MBA 600 Business Statistics (1.5)
  - MBA 610 Advanced Business Statistics (1.5)

**Electives** (6 hours)
The student will select 6 hours, as approved by the student’s chair in consultation with the committee, from available CRS 600- and 700-level courses.

**Thesis** (6 hours) (Capstone Experience)
- CRS 699 Thesis (6)

**Thesis Advisory Committee**
The student will select a graduate advisor and two other graduate faculty members to serve as a Thesis Advisory Committee. The graduate advisor must be from the Department of Consumer, Apparel, and Retail Studies. The committee must be chosen and a program of study approved no later than the second semester enrolled in graduate courses.

**INTEGRATED APPAREL AND RELATED INDUSTRIES CONCENTRATION**
(39 HOURS)
The concentration in integrated apparel and related industries prepares graduates to apply research findings in consumer, apparel, and retail industry settings and to seek professional industry positions. This option provides considerable flexibility in course work to pursue areas of interest. An applied research experience in the form of a project and/or paper is required.

**Required Core Courses** (13 hours)
- RCS 562 Behavior of Softlines Consumers (3)
- CRS 563 Analysis of Apparel and Related Industries (3)
- CRS 630 Economic Dynamics of the Retail Complex (3)
- CRS 632 Supervised Industry Practicum (3)
- CRS 682 Graduate Seminar (1)

**Applied Research Techniques** (9-11 hours)
- CRS 605 Research Methodology in Consumer, Apparel, and Retail Studies (3)
- and one of the following options:
  - STA 571, 571L Statistical Methods for Research I (4)
  - STA 572, 572L Statistical Methods for Research II (4)
  - ERM 680 Intermediate Statistical Methods in Education (3)
  - ERM 681 Design and Analysis of Educational Experiments (3)
  - MBA 600 Business Statistics (1.5)
  - MBA 610 Advanced Business Statistics (1.5)

**Electives** (12-14 hours)
The student will select 12-14 hours, as approved by the student’s chair in consultation with the advisory committee, depending upon whether 11 or 9 research techniques hours were taken.

**Applied Research Experience** (3 hours)
(Capstone Experience)
A comprehensive applied research project and/or paper completed in either CRS 683, 684, or 685.

**Applied Research Experience Advisory Committee**
The student will select a graduate advisor and two other graduate faculty members to serve as an advisory committee. The graduate advisor must be from the department. The committee must be chosen and a program of study approved no later than the second semester enrolled in graduate courses.
Requirements for the Doctor of Philosophy in Consumer, Apparel, and Retail Studies

The Department of Consumer, Apparel, and Retail Studies offers a graduate program of study leading to a Doctor of Philosophy degree requiring a minimum of 58 hours (minimum of 90 hours beyond the B.S.). At least 75% of the hours credited to the Ph.D., exclusive of the dissertation, must be in 600- or 700-level courses.

Required Core Courses (19 hours)
- CRS 700 Seminar in Consumer, Apparel and Retail Studies (1)
- CRS 701 Literature and Thought in Consumer, Apparel, and Retail Studies (3)
- CRS 712 Theory Development in Consumer, Apparel and Retail Studies (3)
- CRS 713 Qualitative Methodology in Consumer, Apparel, and Retail Studies (3)
- CRS 714 Methodology and Modeling in Consumer, Apparel and Retail Studies (3)
- CRS 720 Social Psychology of Consumption (3)
- CRS 721 Consumer Behavior in Apparel and Retailing (3)

Research Techniques (9 hours)
- STA 661 Advanced Statistics in Behavioral Science Research I (3)
- STA 662 Advanced Statistics in Behavioral Science Research II (3)
- STA 671 Multivariate Analysis (3) or ERM 682 Multivariate Analysis in Education (3)

Cognate Area (9 hours)
In consultation with the student’s chair and Advisory/Dissertation Committee, the student will identify a supporting area that will enrich and expand his or her research interest. The student will take a minimum of 9 hours within this area.

Electives (3 hours)
The student will select 3 hours, as approved by the student’s chair in consultation with the Advisory/Dissertation Committee, from available CRS 600- and 700-level courses.

Research and Dissertation (15 hours)
- CRS 790 Independent Doctoral Research (3)
- CRS 799 Dissertation Problem (12)

Teaching (3 hours)
- CRS 765 College Teaching Practicum in Consumer, Apparel and Retail Studies (3)

Preliminary and Final Oral Examination

Advisory/Dissertation Committee
The student should consult the Advisory/Dissertation Committee section of The Graduate School Bulletin. The graduate advisor must be from the Department of Consumer, Apparel, and Retail Studies and one member must be from outside the CARS Department. The committee must be chosen no later than upon the completion of the first 18 semester hours.

Apparel Product Design Courses

545 Experimental Product Design (3:2:3)
Pr. grade of C or better in 444 or equivalent as determined by the instructor, or permission of the instructor
Experimentation with a variety of materials to create apparel using both traditional and innovative methods. Emphasis on design development and originality. Investigation of various specialty markets for apparel design.
(Spring)
Consumer, Apparel, and Retail Studies Courses

513 Apparel and Related Consumer Products Analysis and Standards (3:3)
Pr. grade of C (2.0) or better in 312 or permission of instructor
Process of developing and analyzing product standards as they relate to consumers, industry, and international trade. Analysis of products in relation to existing or proposed standards. (Alt SP)

530 Economics of the Textile and Apparel Complex (3:3)
Pr. grade of C or better in ECO 201 or its equivalent as determined by the instructor, or graduate standing, or permission of instructor
Economics and social aspects of production, distribution, and utilization of apparel and textiles.

563 Analysis of Apparel and Related Industries (3:3)
Analysis of apparel and related industries from raw materials through consumption. Examination of production and marketing of products, technological developments, and domestic and global market strategies. (Summer)

582 Problems in Consumer, Apparel, and Retail Studies (2-6)
Individual study.

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

605 Research Methodology in Consumer, Apparel, and Retail Studies (3:3)
Pr. or Coreq. STA 571. Pr. admission to graduate program in consumer, apparel, and retail studies, or permission of instructor
Beginning graduate course in research methodology within the domains of consumer, apparel, and retailing. Concepts, frameworks, and relationships of theory and research. Epistemological issues, types of analysis, methods.

614 Textile Products Market Analysis (3:3)
Quantitative and qualitative approaches to the analysis of global markets for textiles and apparel. Embraces information sources and techniques for market, competitor, and company analysis to support strategic marketing decisions. (Alternate Fall)

615 Advanced Textiles and Experimental Methods (3:2:3)
Pr. 614, CHE 205 or 351, or permission of instructor
Analysis of structure and functional performance of advanced textiles (geotextiles, biomedical, nonwovens) using experimental methods such as Kawabata Hand Evaluation System. Differential Scanning Calorimeter, Thermal Gravimetric Analysis. (Alternate Spring)

630 Economic Dynamics of the Retail Complex (3:3)
Pr. 530 and MBA 603 or permission of instructor
Application of economic concepts to consumption behaviors in the retail industry with special emphasis on apparel and related products. Impact of history, trends, brands, and demographics explored. (Alternate Fall)

632 Supervised Industry Practicum in Consumer, Apparel, and Retail Studies (3:1:9)
Supervised industry practicum combining practical and academic elements for consumer, apparel, and retail studies graduate students. Course supervised by designated graduate faculty member. Approved plan required prior to experience.

660 International Textile Products Marketing (3:3)
Pr. 560 or permission of instructor
International textile products marketing environment; global markets, marketing programs and organizations. (Alternate Spring)

663 Experience in Consumer, Apparel, and Retail Issues Abroad (3:3)
Pr. 560 or permission of instructor
Cultural, political, business, and consumer issues within the apparel and retail industries of a specific country. May be repeated for credit with different country. (Alternate Spring)

664 International Retailing: Theory and Practice (3:3)
Pr. 484 and 560 or permission of instructor

681 Directed Individual Study in Consumer, Apparel, and Retail Studies (1-6)
Individual study.

682 Graduate Seminar (1:1)
May be repeated once for credit when topic varies. (FA)

683 Problems in Apparel (1-3)

684 Problems in Retail Marketing (1-3)

685 Problems in Retail and Consumer Studies (1-3)

686 Readings in Apparel (1-3)

687 Readings in Retail Marketing (1-3)

688 Readings in Retail and Consumer Studies (1-3)

690 Minor Research (2-6)

699 Thesis (1-6)

700 Seminar in Consumer, Apparel, and Retail Studies (1:1)
Study, reporting, and discussion of current research. May be repeated for credit when topic varies. (Spring)

701 Literature and Thought in Consumer, Apparel, and Retail Studies (3:3)
Pr. admission to Ph.D. in consumer, apparel, and retail studies and permission of instructor
Overview of concepts, frameworks, theory, thought, and empirical research within the domains of consumer, apparel, and retailing. Emphasis on contemporary thinking and identifying opportunities and directions for future research streams.

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

712 Theory Development in Consumer, Apparel, and Retail Studies (3:3)
Pr. 630, 660, 662, or permission of instructor
Examination of business related marketing theories to consumer, apparel, and retail studies. Analysis of marketing theories, models, and conceptual frameworks. Includes business-to-business, consumer, customer relationship, and economic theories. (Alternate Spring)
713 Qualitative Methodology in Consumer, Apparel, and Retail Studies (3:3)
Exploration of development and use of qualitative research methodology in consumer, apparel, and retail studies. Focus on application of qualitative methodology to diverse research problems, data collection procedures, and analysis approaches.

714 Methodology and Modeling in Consumer, Apparel, and Retail Studies (3:3)
Pr. STA 671 or ERM 682 or equivalent and admission to Ph.D. in consumer, apparel, and retail studies, or permission of instructor
Concepts, frameworks, theory, and empirical research methods and models within the consumer, apparel, and retailing domains. Emphasis on research methods and multivariate statistical models of consumer and retail research issues.

720 Social Psychology of Consumption (3:3)
Investigation of approaches to research on consumption within social psychology. Focus on the study of apparel and related consumer products.

721 Consumer Behavior in Apparel and Retailing (3:3)
Pr. 562 or permission of instructor
Current theories and research in consumer behavior. Application of consumer behavior models to apparel, apparel-related products, and retailing through individualized research products. (Alternate Spring)

731 Special Topics in Consumer, Apparel, and Retail Studies (3:3)
Investigation of select topics specific to consumer, apparel, and retail studies. May be repeated once for credit when topic varies.

765 College Teaching Practicum in Consumer, Apparel, and Retail Studies (3)
Pr. admission to doctoral program in consumer, apparel, and retail studies and permission of instructor
Supervised, structured experiences in planning, teaching, and evaluating a college level course. Professors provide guidance and mentoring of graduate students during the experience.

790 Independent Doctoral Research (1-6)
Pr. STA 661, 662
Individual work on research problem(s) related to student’s primary area(s) of specialization. Research conducted with faculty guidance and direction. Objective: develop one or more publishable manuscript(s).

799 Dissertation (1-12)
Required of all candidates for the Doctor of Philosophy degree. Credit may be divided over two or more semesters.

801 Thesis Extension (1-3)
802 Dissertation Extension (1-3)
803 Research Extension (1-3)

RCS Retailing and Consumer Studies Courses

560 Apparel and Related Consumer Products Marketing (3:3)
Pr. grade of C (2.0) or better in 261, 362, or permission of instructor
An intensive analysis of marketing principles applied to apparel and related consumer products. (Fall)

562 Behavior of Soft Lines Consumers (3:3)
Pr. grade of C (2.0) or better in 321 or permission of instructor
Study of environmental, individual, and psychological influences on behavior of consumers in the soft lines consumption process. (Spring)
Counseling and Educational Development

There are three primary program areas in counselor education for which the Master’s, Specialist, and Doctorate degrees are offered: community counseling, college counseling and student development, and school counseling. Within these three program areas, the Council for Accreditation of Counseling and Related Educational Programs (CACREP), a specialized accrediting body recognized by the Council on Postsecondary Accreditation (COPA), has conferred accreditation to the following programs and specializations in the Department of Counseling and Educational Development at UNCG: community counseling (M.S.), college counseling and student development (M.S.), school counseling (M.S.), couple and family counseling (dual degree M.S. and Ed.S.) and gerontological counseling (M.S.), and counseling and counselor education (Ph.D. and Ed.D.). Applicants admitted to a program are expected to enroll as full-time students, registering for a minimum of 12 credit hours each semester. Students appointed to graduate assistantships, however, may reduce their credit load and
retain full-time status. All students admitted to the program have as their objective the completion of the entry-level M.S. degree or dual M.S. and Ed.S. degrees, or the advanced Ph.D. or Ed.D. degree.

The Curriculum
The Counselor Education program faculty adheres to the scientist problem-solver model of training. Consistent with this approach is the program’s goal of graduating students who have broad knowledge of counseling theory and process, possess a high level of competency in providing professional services to diverse client populations, and view assessment and research in counseling as a continuous cyclical activity throughout the counseling process. Research is a means for obtaining and using information to generate and establish counseling goals and strategies, and for identifying “best practices” or empirically-based practices that are integral to effectiveness in counseling. The focus of this ongoing process is to bring about client change. The major tenets underlying the program include (a) exposure to a variety of theoretical orientations to counseling, (b) reliance on both the clinical-counseling and vocational-educational approaches in designing counseling and programmatic interventions, (c) a commitment to developing the student’s skills as a clinician who uses research methodology in practice, and (d) a strong emphasis on the normal developmental issues of the individual as opposed to an approach based on pathology.

Especially important to the program faculty are the commitment to mental “health” (or wellness) and the value attached to understanding the common developmental themes throughout a person’s life. An appealing feature is the diversity of the faculty’s theoretical orientations, which translates into a variety of research opportunities available to creative students, as well as varied counseling approaches and different applied settings for gaining training experience.

To achieve the program’s curriculum goals of the scientist problem-solver model of training, students are required to demonstrate satisfactory knowledge in each of the following core areas: the helping relationship; group dynamics, process, and counseling; social and cultural diversity; career and lifestyle development; appraisal of individuals; research and evaluation; and professional orientation. Available within the program requirements are courses offered by other departments that enable students to benefit from the resources of the entire University.

Required professional core courses constitute the cognitive foundation for the development of skills in providing professional services. Also available are specialized courses dealing with particular groups and environmental settings, such as courses in family intervention, multicultural counseling, and substance abuse. Supervised clinical experience in the Vacc Counseling and Consulting Clinic is offered throughout the program parallel to core and specialty courses. Experience in applied settings is available on the campus as well as at off-campus sites; these include community mental health services; career counseling and placement; student affairs; inpatient facilities; college counseling centers; child, youth, and family agencies; and gerontological, sports, outreach, and alcohol and drug programs. Students are encouraged to explore internship experiences specifically tailored to their individual needs and interests. This diversity of opportunities allows students to develop programs consistent with their own particular goals and talents.

Students are given strong encouragement to participate in professional organizations and collaborate on original research projects. Opportunities for professional involvement and leadership development include the student organization in the Department as well as state and national counseling organizations. Research courses are available at the entry level and required at the doctoral level. To help students design and complete high quality relevant dissertations, doctoral students are required to take courses in research design and statistical methods of data analysis. In addition to being given strong encouragement to participate in original research projects and presentations at professional meetings, students are expected to work closely with their selected professors in conducting their research projects. Close consultation with the faculty is strongly encouraged, particularly for students working on doctoral dissertations. The faculty views doctoral research as providing students with a starting point for developing an ongoing research program that continues beyond completion of their degree.

Mechanisms for student evaluation include progress evaluations by instructors, practicum supervisors, and internship supervisors, and reports from host internship supervisors. Comprehensive exams provide valuable feedback to students regarding their progress in the program. Faculty supervisors appraise the student’s clinical skills, and this feedback is available to students.

A majority of master’s degree students complete the required curriculum in two years, although students are encouraged to attend summer school after their first year in the program. A majority of dual degree M.S. and Ed.S. students finish in two and one-half years, and doctoral students generally
complete their degree in three years. Although a few doctoral students complete their dissertations after their full-time study at the University, students are strongly encouraged to complete all degree requirements before leaving.

Graduates are eligible for one or more state and national credentials. Because the program is CACREP-approved, all fully enrolled students can take the National Counselor Examination for Licensure and Certification (NCE) during their last semester of the program. The NCE is the first step toward becoming a National Certified Counselor (NCC) and a Licensed Professional Counselor (LPC) in North Carolina. In addition, the post-master’s experience requirement for the NCC credential is waived, and internship hours count toward the experience requirement for the LPC credential. The NCC credential is a prerequisite for several national specialty certifications offered by the National Board of Certified Counselors (NBCC), including school counseling, clinical mental health counseling, and addictions counseling. School counseling graduates are eligible for the “S” state school counseling license. Graduates of the community counseling specialization in couple and family counseling (M.S. and Ed.S. dual degrees) qualify for the National Academy for Certified Family Therapist (NACFT) credential. Preparation for American Association of Marriage and Family Therapy (AAMFT) membership (see Departmental secretary for additional information) and for the Certified Substance Abuse Counselor (CSAC) in North Carolina also is available.

Recent graduates of the program have accepted positions in diverse settings similar to the breadth of internships available for students. The interest and talents of the students have served as the major criteria for determining the type of internship and employment obtained.

**Admission Requirements**

In addition to the application materials required by The Graduate School, doctoral applicants are required to have graduated from a master’s program in counseling or acceptable equivalent that is accredited by the Council for Accreditation of Counseling and Related Educational Programs. They also may present evidence of an appropriate degree from a regional accredited university. (CACREP requirements for a master’s program are needed; if missing, these are corequisites for admission.)

Applicants to all graduate counseling programs should have vocational goals compatible with the selected program and subspecialty.

Program standards are competitive and not all applicants may be admitted. Preference is given to students desiring full-time study.

**Post-Master’s Certificates in Counseling**

Post-Master’s Certificate programs are designed to meet practicing counselors’ needs for professional development, in response to advances and greater specialization in the profession.

The curriculum for each Certificate is based on national accreditation standards, competency statements, and/or certification standards for each of the areas. Each Certificate consists of **12-24** semester hours of required course work, including internship requirements. Internships involve a 300- to 600-hour supervised clinical experience across one or two semesters in an appropriate setting. In addition, corequisite hours may be required for students whose Master’s degree was not completed in a CACREP-accredited counseling program. Prerequisite courses and Certificate courses are usually offered during morning and afternoon hours. Typically, students can complete a program in three semesters; students have five academic years to complete a program.

**Admission Requirements for Gerontological, School, and Couple and Family Counseling**

Applications are reviewed during the weeks preceding the start of classes for fall and spring semesters. Completed applications should be submitted no later than four months before the review period. In addition to the application materials required by The Graduate School, applicants should indicate the Certificate of interest and submit a resume and a personal statement, including personal and professional qualifications and professional goals relevant to the Certificate. All applicants should consult with the Department of Counseling and Educational Development for additions to the above requirements.

**Admission Requirements for Advanced School Counseling**

In addition to the application materials required by The Graduate School, applicants should submit a complete vita/resume, a statement of professional goals in applying for this certificate, a copy of the school counseling license, and a letter of endorsement from current principal or other school administrator.

A cohort model is used in the PMC in advanced school counseling. The application deadline is December 1; cohorts begin each spring semester. Applications remain active for 1 year; if not accepted for one cohort, the application is considered for the next cohort.
Requirements for the Master of Science in Counseling

The Department of Counseling and Educational Development offers a graduate program of study leading to a 60 hour Master of Science degree.

COMMUNITY COUNSELING CONCENTRATION

Required Core Areas
- **Human Growth and Development** (3 hours as advised)
  Counseling individuals at all developmental levels, e.g., CED 612 Developmental Counseling (3)
- **Social and Cultural Diversity** (3 hours as advised)
  Counseling in a multicultural and diverse society, e.g., CED 605 Counseling Diverse Populations (3)

Professional Core (18 hours as advised)
- CED 610 Helping Relationships (3)
- CED 620 Counseling Theories and Practice (3)
- CED 650 Group Counseling Theory and Practice (3)
- CED 669 Career Development (3)
- CED 678 Professional Orientation (3)
- CED 682 Application of Measurement and Clinical Appraisal Techniques (3)

Research (3 hours as advised)
Research methods used in counseling practice, ethical and legal considerations in counseling research, e.g., CED 611 The Counselor as Scientist-Practitioner (3)

Specialized and Environmental Curricular Studies (12 hours as advised)
(Prerequisite: A course in abnormal behavior.)
Twelve (12) hours, as advised, in one of the following areas (see departmental program planner for specific courses):
- Child and youth settings
- Community settings
- Employment settings
- Family settings
- Older adult settings
- Organizational development/business and industrial settings
- Public offender settings
- Substance abuse settings
- Sports counseling settings (Students should meet with faculty in Exercise and Sport Science to plan course of study.)

Supervised Practica and Internships (18 hours)
Twelve (12) hours of counseling internship across two (2) semesters, plus three (3) hours of field practicum, three (3) hours of advanced counseling practicum, and other practicum experiences across the curriculum as required in the Schedule of Courses.

CED 653 Practicum in Counseling (1)
CED 675 Counseling Field Practicum (3)
CED 679 Advanced Counseling Practicum (3)
CED 680a, 680b Counseling Internship (6) (6)

Curricular Electives (3 hours)
Under advisement, a student will select from courses in Required Core Areas.

Collateral Expertise
A student must demonstrate satisfactory performance in professional practice. This requirement is satisfied by successfully completing practicum and internship requirements.

Comprehensive Examination (Capstone Experience)
Please consult with Departmental Office for dates of this examination.

GERONTOLOGICAL COUNSELING CONCENTRATION

The gerontological counseling program follows the basic plan of study for the community counseling program except that in addition to acquiring knowledge concerning community counseling, students complete specialized study under advisement and internships in settings where they can work directly with older persons.

COLLEGE COUNSELING AND STUDENT DEVELOPMENT CONCENTRATION

Required Core Areas
- **Human Growth and Development** (3 hours as advised)
  Counseling individuals at all developmental levels, e.g., CED 612 Developmental Counseling (3)
- **Social and Cultural Diversity** (3 hours as advised)
  Counseling in a multicultural and diverse society, e.g., CED 605 Counseling Diverse Populations (3)

Professional Core (18 hours as advised)
- CED 610 Helping Relationships (3)
- CED 620 Counseling Theories and Practice (3)
- CED 650 Group Counseling Theory and Practice (3)
- CED 669 Career Development (3)
- CED 678 Professional Orientation (3)
- CED 682 Application of Measurement and Clinical Appraisal Techniques (3)
Research (3 hours as advised)
Research methods used in counseling practice, ethical and legal considerations in counseling research, e.g., CED 611 The Counselor as Scientist-Practitioner (3)

Specialized and Environmental Curricular Studies (9 hours as advised)
Nine (9) hours, as advised, in student development in higher education (see departmental program planner for specific courses).

Supervised Practica and Internships (18 hours)
Twelve (12) hours of counseling internship across two (2) semesters, plus three (3) hours of field practicum, three (3) hours of advanced counseling practicum, and other practicum experiences across the curriculum as required in the Schedule of Courses.

CED 653 Practicum in Counseling (1)
CED 675 Counseling Field Practicum (3)
CED 679 Advanced Counseling Practicum (3)
CED 680a, 680b Counseling Internship (6) (6)

Curricular Electives (6 hours)
Under advisement, a student will select from courses in Required Core Areas.

Collateral Expertise
A student must demonstrate satisfactory performance in professional practice. This requirement is satisfied by successfully completing practicum and internship requirements.

Comprehensive Examination (Capstone Experience)
Please consult with departmental office for dates of this examination.

SCHOOL COUNSELING CONCENTRATION

Required Core Areas
Human Growth and Development (3 hours as advised)
Counseling individuals at all developmental levels, e.g., CED 612 Developmental Counseling (3)

Social and Cultural Diversity (3 hours as advised)
Counseling in a multicultural and diverse society, e.g., CED 605 Counseling Diverse Populations (3)

Professional Core (18 hours as advised)
CED 610 Helping Relationships (3)
CED 620 Counseling Theories and Practice (3)
CED 650 Group Counseling Theory and Practice (3)
CED 669 Career Development (3)
CED 678 Professional Orientation (3)
CED 682 Application of Measurement and Clinical Appraisal Techniques (3)

Research (3 hours as advised)
Research methods used in counseling practice, ethical and legal considerations in counseling research, e.g., CED 611 The Counselor as Scientist-Practitioner (3)

Specialized and Environmental Curricular Studies (15 hours as advised)
Fifteen (15) hours across elementary, middle and high school:
CED 641 Counseling Children (3)
CED 648 Foundations of School Counseling (3)
CED 671 Understanding and Counseling Adolescents (3)
CED 698 Implementing and Evaluating School Counseling Programs (3)
SES 540 Introduction to Exceptional Individuals (3)

Supervised Practica and Internships (18 hours)
Twelve (12) hours of school counseling internship across two (2) semesters, plus three (3) hours of CED 677 School Certification (counseling field practicum), three (3) hours of advanced counseling practicum and other practicum experiences across the curriculum as required in the Schedule of Courses.

CED 653 Practicum in Counseling (1)
CED 677 School Certification (3)
CED 679 Advanced Counseling Practicum (3)
CED 680a, 680b Counseling Internship (6) (6)

Collateral Expertise
A student must demonstrate satisfactory performance in professional practice. This requirement is satisfied by successfully completing practicum and internship requirements.

Comprehensive Examination (Capstone Experience)
Please consult with departmental office for dates of this examination.
The Department of Counseling and Educational Development offers a graduate program of study leading to a 72 hour dual degree Master of Science and Specialist in Education.

The dual degree M.S. and Ed.S. sequence allows students the opportunity to achieve a level of professional attainment beyond the M.S. degree and recognition of that higher level of professional attainment by receiving the Ed.S. degree. A student admitted to the dual degree program will be awarded the M.S. and Ed.S. degrees concurrently after successful completion of a total of 72 hours of prescribed course work beyond the bachelor’s degree. Programs available include community counseling, school counseling, and student development in higher education. Also, a couple and family counseling specialization is available in conjunction with the Community Counseling Program. On average, the completion of a dual degree program takes two and one-half years.

**COMMUNITY COUNSELING CONCENTRATION**

**Required Core Courses**

**Human Growth and Development** (3 hours as advised)
Counseling individuals at all developmental levels, e.g., CED 612 Developmental Counseling (3)

**Social and Cultural Diversity** (3 hours as advised)
Counseling in a multicultural and diverse society, e.g., CED 605 Counseling Diverse Populations (3)

**Professional Core** (21 hours as advised)
CED 610 Helping Relationships (3)
CED 620 Counseling Theories and Practice (3)
CED 642 Substance Abuse Counseling (3)
CED 650 Counseling Theories and Practice (3)
CED 669 Career Development (3)
CED 678 Professional Orientation (3)
CED 682 Application of Measurement and Clinical Appraisal Techniques (3)

**Research** (3 hours as advised)
Research methods used in counseling practice, ethical and legal considerations in counseling research, e.g., CED 611, The Counselor as Scientist-Practitioner (3)

**Specialized and Environmental Curricular Studies** (18 hours as advised)
(Prerequisite: A course in abnormal behavior.)

Choose one of the following nine areas as an emphasis:
- Child and youth settings
- Community mental health settings
- Employment settings
- Family settings
- Older adult settings
- Organizational development/business and industrial settings
- Public offender settings
- Substance abuse settings
- Sports counseling settings (Students should meet with faculty in Exercise and Sport Science to plan course of study.)

**Supervised Practica and Internships** (18 hours)
Twelve (12) hours of counseling internship across two (2) semesters, plus three (3) hours of field practicum, three (3) hours of advanced counseling practicum and other practicum experiences across the curriculum as required in the Schedule of Courses.
CED 653 Practicum in Counseling (1)
CED 675 Counseling Field Practicum (3)
CED 679 Advanced Counseling Practicum (3)
CED 680a, 680b Counseling Internship (6)
CED 680c, 680d Counseling Internship (6)

**Curricular Electives** (6 hours)
Under advisement, a student will select from courses in Required Core Areas.

**Collateral Expertise**
A student must demonstrate satisfactory performance in professional practice. This requirement is satisfied by successfully completing practicum and internship requirements.

**Comprehensive Examination** (Capstone Experience)
Please consult with departmental office for dates of this examination.

**COUPLE AND FAMILY COUNSELING CONCENTRATION**
This program requires that students follow the basic plan of study for community counseling but with specialized studies in couple and family counseling. Students in couple and family counseling enroll in specialized course work to include CED 690 Counselors Working with Families, CED 691 Advanced Clinical Topics in Couples and Family Counseling/Therapy, and internships in family counseling. Other couple and family counseling course work is selected under advisement.
GERONTOLOGICAL COUNSELING CONCENTRATION
The gerontological counseling program is available through enrollment in the combined M.S. and Ed.S. degree. The course of study follows the basic plan of study for the community counseling degree but includes specialized course work in gerontological counseling, which is selected under advisement.

COLLEGE COUNSELING AND STUDENT DEVELOPMENT CONCENTRATION

Required Core Areas
- **Human Growth and Development** (3 hours as advised)
  Counseling individuals at all developmental levels, e.g., CED 612 Developmental Counseling (3)

- **Social and Cultural Diversity** (3 hours as advised)
  Counseling in a multicultural and diverse society, e.g., CED 605 Counseling Diverse Populations (3)

Professional Core (21 hours as advised)
- CED 610 Helping Relationships (3)
- CED 620 Counseling Theories and Practice (3)
- CED 642 Substance Abuse Counseling (3)
- CED 650 Group Counseling Theories and Practice (3)
- CED 669 Career Development (3)
- CED 678 Professional Orientation (3)
- CED 682 Application of Measurement and Clinical Appraisal Techniques (3)

Research (3 hours as advised)
Research methods used in counseling practice, ethical and legal considerations in counseling research, e.g., CED 611 The Counselor as Scientist-Practitioner (3)

Specialized and Environmental Curricular Studies (15 hours as advised)
Selections are to be made under advisement.

Supervised Practica and Internships (18 hours)
Twelve (12) hours of counseling internship across two (2) semesters, plus three (3) hours of field practicum, three (3) hours of advanced counseling practicum, and other practicum experiences across the curriculum as required in the Schedule of Courses.
- CED 653 Practicum in Counseling (1)
- CED 675 Counseling Field Practicum (3)
- CED 679 Advanced Counseling Practicum (3)
- CED 680a, 680b Counseling Internship (6) (6)
- CED 680c, 680d Counseling Internship (6) (6)

Curricular Electives (9 hours)
Under advisement, a student will select from courses in Required Core Areas.

Collateral Expertise
A student must demonstrate satisfactory performance in professional practice. This requirement is satisfied by successfully completing practicum and internship requirements.

Comprehensive Examination (Capstone Experience)
Please consult with departmental office for dates of this examination.

SCHOOL COUNSELING CONCENTRATION

Required Core Areas
- **Human Growth and Development** (3 hours as advised)
  Counseling individuals at all developmental levels, e.g., CED 612 Developmental Counseling (3)

- **Social and Cultural Diversity** (3 hours as advised)
  Counseling in a multicultural and diverse society, e.g., CED 605 Counseling Diverse Populations (3)

Professional Core (21 hours as advised)
- CED 610 Helping Relationships (3)
- CED 620 Counseling Theories and Practice (3)
- CED 642 Substance Abuse Counseling (3)
- CED 650 Group Counseling Theories and Practice (3)
- CED 669 Career Development (3)
- CED 678 Professional Orientation (3)
- CED 682 Application of Measurement and Clinical Appraisal Techniques (3)

Research (3 hours as advised)
Research methods used in counseling practice, ethical and legal considerations in counseling research, e.g., CED 611 The Counselor as Scientist-Practitioner (3)

Specialized and Environmental Curricular Studies (15 hours)
Fifteen (15) hours across elementary, middle and high school:
- CED 641 Counseling Children (3)
- CED 648 Foundations of School Counseling (3)
- CED 671 Understanding and Counseling Adolescents (3)
- CED 698 Implementing and Evaluating School Counseling Programs (3)
- SES 540 Introduction to Exceptional Individuals (3)

Supervised Practica and Internships (18 hours)
Twelve (12) hours of school counseling internship across two (2) semesters, plus three (3) hours of field practicum, three (3) hours of advanced counseling practicum, and other practicum experiences across the curriculum as required in the Schedule of Courses.
- CED 653 Practicum in Counseling (1)
- CED 675 Counseling Field Practicum (3)
CED 679  Advanced Counseling Practicum (3)
CED 680a, 680b  Counseling Internship (6) (6)
CED 680c, 680d  Counseling Internship (6) (6)

Curricular Electives (9 hours)
Under advisement, a student will select from courses in Required Core Areas.

Requirements for the Post-Master’s Certificates
in Couple and Family Counseling, Gerontological Counseling, School Counseling, or Advanced School Counseling

Corequisite hours are required for students whose Master’s degree was not completed in a CACREP-accredited counseling program. Students need to enroll in regular department courses in order to fulfill these corequisites. Corequisite courses and Certificate courses typically are offered during the morning and afternoon hours.

COUPLE AND FAMILY COUNSELING
(21 HOURS)
Internship involves a 300-hour supervised experience across one semester in an appropriate setting.

Required Courses
CED 690  Counselors Working with Families (3)
CED 691  Advanced Clinical Topics in Couple and Family Counseling/Therapy (9)
CED 680c Counseling Internship (6 - marriage and family counseling setting)

*CED 691 must be taken three times as a required course and may be repeated for credit as an elective course when the topic varies for up to 12 hours credit.

Electives
A minimum of one elective (3 semester hours), selected under advisement, must be completed.

Note: Some counseling courses have a one-hour corequisite counseling practicum; hours for that practicum do not count towards the 18 hours required for the Certificate.

GERONTOLOGICAL COUNSELING
(18 HOURS)
Internship involves a 300-hour supervised experience across one semester in an appropriate setting.

Required Courses - Elementary/Middle School
CED 648  Foundations of School Counseling (3)
CED 677  School Certification (3 - taken in conjunction with CED 648 or CED 653 Practicum in Counseling (1)
CED 641  Counseling Children (3)
CED 680c Counseling Internship (6 - school counseling setting)
CED 680d Counseling Internship (6 - school counseling setting)
SES 540  Introduction to Exceptional Individuals (3)

Required Courses - Secondary School
CED 648  Foundations of School Counseling (3)
CED 677  School Certification (3 - taken in conjunction with CED 648 or CED 653 Practicum in Counseling (1)
CED 671  Understanding and Counseling Adolescents (3)
CED 680c Counseling Internship (6 - school counseling setting)
CED 680d Counseling Internship (6 - school counseling setting)
SES 540  Introduction to Exceptional Individuals (3)

Collateral Expertise
A student must demonstrate satisfactory performance in professional practice. This requirement is satisfied by successfully completing practicum and internship requirements.

Comprehensive Examination (Capstone Experience)
Please consult with departmental office for dates of this examination.

Electives
A minimum of three electives (9 semester hours), selected under advisement, must be completed.

Note: Some counseling courses have a one-hour corequisite counseling practicum; hours for that practicum do not count towards the 18 hours required for the Certificate.
**Counseling and Educational Development**

*These courses do not count towards the 18 hours required for the Certificate.

1Denotes courses that must be completed successfully before a student can enroll in internship.

**Electives**

A minimum of one elective (3 semester hours), selected under advisement, must be completed.

**Note:** Some counseling courses have a one-hour corequisite counseling practicum; hours for that practicum do not count towards the 18 hours required for the Certificate.

**Note:** This Certificate would be classified as a licensure-only program at the graduate level.

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**Required Core Areas**

**Human Growth and Development**
Counseling individuals at all developmental levels (prerequisite).

**Social and Cultural Diversity**
Counseling in a multicultural and diverse society (prerequisite).

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**ADVANCED SCHOOL COUNSELING (12 HOURS)**

The Department of Counseling and Educational Development offers an online advanced school counseling certificate designed to allow fully licensed, practicing school counselors with at least 2 years experience as a school counselor to move from the “M” level license to the “S” level license. All students take the required 12 hours of course work.

- **CED 661** Group Counseling in Schools (3)
- **CED 662** Multicultural Considerations in School Counseling (3)
- **CED 663** School Counselors as Consultants in Educational Settings (3)
- **CED 664** Advanced Contemporary Topics in School Counseling (3)

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**Requirements for the Doctor of Education or Doctor of Philosophy in Counseling**

EdD or PhD

The Department of Counseling and Educational Development offers a graduate program of study leading to the Ph.D. or Ed.D. degree. The Ph.D. and Ed.D. programs require a minimum of 60 semester hours beyond the master’s or, for those students entering the program in the M.S./Ph.D. enrollment option, a minimum of 108 semester hours beyond the baccalaureate degree. Students enrolling in the M.S./Ph.D. option must hold an appropriate baccalaureate degree combined with superior ability and a high level of motivation and dedication to learning. After completing the M.S. degree, M.S./Ph.D. students continue study toward the Ph.D. contingent on strong progress throughout their previous course work. Because entry-level (master’s level) preparation programs vary, the doctoral program requirements are cumulative from the baccalaureate degree for entering Ph.D. students who have completed a master’s degree program at another institution. The doctoral program focuses on developing professional competencies of the student through advanced study of theory and practice of counseling as it relates to research, the behavioral sciences, and supervision.

**Professional Core (15 hours required)**
- **CED 756** Advanced Counseling Theory and Practice (3)
- **CED 760** Seminar: Consultation in Human Service Settings (3)
- **CED 774** Career Counseling (3)
- **CED 777a** Seminar in Counseling: Clinical Assessment (3)
- **CED 781a** Counseling Internship Supervision (3)

**Cognate (12 hours as advised)**
To be selected under advisement from social and behavioral sciences.

**Specialized and Environmental Curricular Studies (minimum 3 hours)**
Course work in this area focuses on the institution or agency setting in which the student plans to specialize (i.e., community counseling, marriage and family counseling, gerontological counseling, student development in higher education, or school counseling). Courses are selected from listings under the program or one of its relevant specializations.

**Community Counseling**
- Child and youth settings
- Community mental health settings
- Employment settings
- Family settings
- Older adult settings
- Organizational development/business and industrial settings
- Public offender settings
- Substance abuse settings
- Sports counseling settings (students should meet with faculty in Exercise and Sport Science to plan course of study.)

**College Counseling and Student Development**
School Counseling
Elementary and middle school
Secondary school

Supervised Practica and Internships (12 hours)
Twelve (12) hours of counseling internship across two (2) semesters, plus practicum experiences across the curriculum as required in the Schedule of Courses/prerequisite of 600 hours of internship plus practicum.
CED 653 Practicum in Counseling (1)
CED 780a, 780b Advanced Counseling Internship (6) (6)
CED 781b Counseling Supervision (3)

Research Techniques (15 hours above the M.S. level)

Curricular Electives (3-6 hours)
Under advisement, a student will select from courses in Required Core Areas.

Counseling and Educational Development Courses

506 Institutes in Education (1-3)
Practicum or workshop experiences to focus on issues, problems, or approaches in the profession. Students may apply no more than 3 hours of this course to any degree program. (Graded on S-U basis)

574 Contemporary Topics in Counseling (3:3)
Course designed to study issues, problems, or new approaches in helping relationships. Emphasis is placed on current topics.

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

602 Student Development in Higher Education (3:3)
Pr. or coreq. 610 or permission of instructor. Coreq. 653
Study of development services. Areas such as admissions, orientation, career counseling, academic advising, student activities, housing, and financial aid are reviewed. (Formerly CED 579. Students who took this course as CED 579 are not eligible to take CED 602 and receive credit.)

603 Contemporary College Students (3:3)
Pr. 602 or permission of instructor
Developmental tasks and processes, including cognitive, moral, emotional, career, and identity, as applied to traditional and nontraditional students and diverse populations.

605 Counseling Diverse Populations (3:3)
Pr. or coreq. 610 and counseling major. Coreq. 653
Examination of substantive and theoretical issues concerning counseling diverse populations. Includes study of counseling issues relevant to race/ethnicity, gender, sexual orientation, and other diversity topics. (Formerly CED 505. Students who took this course as CED 505 are not eligible to take CED 605 and receive credit.)

610 Helping Relationships (3:3)
Coreq. for counseling majors 653
Fundamental principles of providing a helping relationship through counseling and interviewing are integrated in a conceptual framework for subsequent professional studies in counseling. Personal and professional development through skills training in techniques.

611 The Counselor as Scientist-Practitioner (3:3)
Pr. counseling major
Ways in which counselors can demonstrate accountability in a broad range of settings and from a variety of theoretical perspectives.

612 Developmental Counseling (3:3)
Pr. 610, 620; counseling major. Pr. or Coreq. human development/developmental psychology or equivalent or permission of instructor. Coreq. 653
Developmental theories and processes of diverse individuals, families, and groups form the basis for understanding and applying techniques of developmental assessment and intervention. Cognitive-developmental approaches are emphasized.

620 Counseling Theories and Practice (3:3)
Pr. 610 and counseling major. Pr. or Coreq. human development/developmental psychology or equivalent or permission of instructor. Coreq. 653
Examine various counseling theories, their philosophical underpinnings, techniques, cultural implications, and the relationship between theory and practice. Apply theories through case conceptualization, observations, and supervised practice.

640 Research Practicum in Counseling and Personnel Services (3:3)
Pr. ERM 617, ERM 604, or equivalent courses
Data-based research problems of special interest in counseling and development. Work must demonstrate the ability to organize and conduct a research project.

Collateral Expertise
A student must demonstrate satisfactory performance in professional practice. This requirement is satisfied by successfully completing practicum and internship. Additionally, it is expected that students will successfully complete CED 757 Internship in University Teaching in Counseling and/or CED 781b Counseling Supervision.

Comprehensive Examination
Requires consultation with major advisor concerning format and dates of this examination.

Dissertation (12 hours)
It is expected that doctoral students will be continuously enrolled in course work until graduation. Students will maintain continuous enrollment after course work has been completed by enrollment in CED 775 Directed Doctoral Research.
641 Counseling Children (3:3)
Pr. 610, 620, and/or permission of instructor. Coreq. 653
Case conceptualization and intervention strategies for working with young children in school and community settings, with an emphasis on play therapy and behavioral interventions. (Formerly CED 576. Students who took this course as CED 576 are not eligible to take CED 641 and receive credit.)

642 Substance Abuse Counseling (3:3)
Pr. or Coreq. 610 or permission of instructor. Coreq. 653
Counseling intervention strategies related to prevention, substance use, abuse and dependency will be emphasized. Etiology, assessment, and professional counseling concerns discussed.

644 Counseling in Community Settings (3:3)
Pr. or coreq. 610; counseling major. Coreq. 653
Theoretical and applied information for counselors working in community settings. Explores mental health counseling delivery systems and various counseling procedures and techniques related to counseling individuals, groups, and families in these settings.

645 Mental Health Issues for Genetic Counselors (3:3)
Pr. matriculation to fourth semester of the M.S. in genetic counseling
Overview of mental health-related theories and constructs relevant to genetic counseling. Development of interviewing skills and strategies. Focus on professional self-awareness, with emphasis on demands of professional practice.

647b Consultation in Counselor Education: Theory and Process (3:3)
Pr. 610 and counseling major. Coreq. 653
Skill development in consultation. Intended for master’s degree students in counseling and development.

648 Foundations of School Counseling (3:3)
Pr. or coreq. 610 and counseling major. Coreq. 653
The role and functions of school counselors, including their work with students, teachers, administrators, and parents, as well as their complimentary relationships with other student services personnel.

650 Group Counseling Theory and Practice (3:3)
Pr. 610, 620, and counseling major. Coreq. 653
Develop understanding and skills in the theory and practice of group work, the relationship of group activities to counseling, and fundamental group counseling techniques.

653 Practicum in Counseling (1:1)
Pr. counseling major. Coreq. liability insurance
Skill development and application of theory to practice in counseling, assessment and consultation through supervised work with clients in a laboratory setting. (Graded on S-U basis)

661 Group Counseling in Schools (3:3)
Pr. admission to the Post-Master’s Certificate Program in Advanced School Counseling
Practical considerations and approaches to developing and implementing group counseling experiences in K-12 schools.

662 Multicultural Considerations in School Counseling (3:3)
Pr. admission to the Post-Master’s Certificate Program in Advanced School Counseling
Explore the influence of student diversity on the role of school counselor. Racial identity, self-awareness, diversity knowledge, and multicultural counseling skills.

663 School Counselors as Consultants in Educational Settings (3:3)
Pr. admission to the Post-Master’s Certificate Program in Advanced School Counseling
Consultation methods for school counselors working with parents and teachers in a collaborative, strength-based approach. Strategies for improving student interaction in educational settings.

664 Advanced Contemporary Topics in School Counseling (3:3)
Pr. admission to the Post-Master’s Certificate Program in Advanced School Counseling
Current topics affecting school counselors: the impact of leadership and advocacy, the ASCA National Model, and ethics and legal issues.

666 Advanced Contemporary Topics in School Counseling (3:3)
Pr. 610, 620, and counseling major Coreq. 653
Traditional and contemporary career development theories. Career counseling processes, techniques, and information resources. Career development influences and needs of diverse populations.

671 Understanding and Counseling Adolescents (3:3)
Pr. or coreq. 610 or permission of instructor. Coreq. 653
Contemporary adolescence; theories of psycho-social, cognitive, emotional and moral development, combined with selective readings on adolescent problems, and evaluating the implications of these ideas for developing more effective approaches in working with adolescent youth.

672 Counseling for Middle and Later Life (3:3)
Pr. or coreq. 610; permission of instructor. Coreq. 653
Theories of middle and late-life development and counseling theories are integrated to develop understanding of persons in middle and later life and for selecting appropriate counseling interventions to meet their needs.

673 Group Process and Leadership (3:3)
Pr. 610, 620, 650, and/or permission of instructor. Coreq. 653
Overview of theories and research regarding group work, processes and dynamics, cultural influences, and group leadership in a variety of settings. Supervised experience as a group leader.

675 Counseling Field Practicum (3:1:3)
Coreq. 605, 610, 620 and 678; 602 or 644; any 653 corequisite experiences for these courses. Must have liability insurance. Introduction to staff, structures, functions, programs, and policies of a counseling site through a minimum of 45 hours of field-based experiences and weekly supervision session on campus. (Graded on S-U basis)

676a-g Organization and Administration of Student Development Services (3:3)
Pr. 602; counseling major
Organizing and administering student development services for postsecondary institutions of varying types and sizes; process and function of management in student development, student financial aid, student union programming and management, residential life, admissions, career counseling and placement, student development services.

677 School Certification (3:3)
Coreq. liability insurance
Introduction to staff, structures, functions, programs and policies of a school counseling program through a minimum of 45 hours of field-based experiences and weekly supervision sessions on campus. (Graded on S-U basis)
678 Professional Orientation (3:3)
Pr. counseling major
History, goals, and objectives of professional organizations, codes of ethics, legal considerations, standards of preparation, certification, licensing, and role identity of counselors in various settings.

679 Advanced Counseling Practicum (3:3;6)
Pr. counseling major, 665, 610, 620, 678, and 602/644/648 and related 653 corequisites. Must have liability insurance.
Application of counseling skills, theories and multicultural competencies through a minimum of 40 direct service hours with clients in Departmental Clinic, under intense/close supervision.

680a-d Counseling Internship (6:0:20)
Pr. advanced standing and recommendation by the major professor. Coreq. liability insurance
On-the-job experience for counselors totaling a minimum of 600 hours over a one-year period. (Graded on S-U basis)

682 Application of Measurement and Clinical Appraisal Techniques (3:3)
Pr. counseling major. Coreq. 653
Selecting, administering, and interpreting a variety of standardized and nonstandardized instruments, assessments, and appraisal techniques in various settings with diverse populations. Relevant psychometric principles and ethical/legal issues.

687 Diagnosis and Treatment Planning in Counseling (3:3)
Pr. 610, 644 and counseling major. Coreq. 653
Provides the skills needed to diagnose accurately and effectively and to develop a comprehensive treatment plan. Emphasis on understanding and evaluating diagnosis with a diverse clientele.

688 Contemporary Problems Seminar (1-3)
Pr. advanced master's or doctoral standing, or permission of instructor
Specific course title identified each semester by subscript, e.g., Contemporary Problems Seminar; Issues in Professional Counseling. May be repeated for credit when topic varies.

690 Counselors Working with Families (3:3)
Pr. 610, 620. Coreq. 653
Counseling families from family systems and multicultural theoretical perspectives. Clinical skills including assessment, treatment planning, and techniques.

691 Advanced Clinical Topics in Couple and Family Counseling/Therapy (3:3)
Pr. 690 or permission of instructor. Coreq. 653
Advanced seminar in the scientific and cultural foundations for practice of couple and family counseling/therapy. May be repeated for credit when topic varies.

692 Independent Study (1-4)
Pr. permission of instructor
Guided readings, research, and individual project work under direction of a staff member.

698 Implementing and Evaluating School Counseling Programs (3:3)
Pr. 648. Coreq. 641, 671, and 680.
Methods for designing, implementing, and evaluating comprehensive school counseling programs, in relation to the academic, career, and personal-social development of children and adolescents.

711 Experimental Course
This number reserved for experimental courses. Refer to Course Schedule for current offerings.

756 Advanced Counseling Theory and Practice (3:3)
Pr. 610, 620, doctoral standing, or permission of instructor. Coreq. 653
In-depth, critical study and supervised experience focused on one or more theoretical approaches to counseling with diverse populations.

757 Internship in University Teaching in Counseling (3:3)
Pr. permission of instructor
Supervised teaching in the area of counseling and development in a college or university setting.

760 Seminar: Consultation in Human Service Settings (3:3)
Pr. doctoral standing or permission of instructor. Coreq. 653
Theory, research, and skill development in consultation. Intended for doctoral students who plan to work in educational and human service settings.

774 Advanced Career Theories and Career Counseling (3:3)
Pr. 698 or permission of instructor. Coreq. 653
In-depth analysis and application of career counseling theories to diverse populations. Critical examination of career-related constructs and research. Supervised supervision of career counseling.

775 Directed Doctoral Research (3)
Pr. advanced doctoral standing or permission of instructor
Individual work on research problems consisting of collection, analysis, critical review, integration, and interpretation of research literature on a topic. May be repeated for credit.

777a-d Seminar in Counseling (3:3)
Pr. advanced doctoral standing in counselor education and recommendation of doctoral adviser.
Contemporary issues and trends, relevant research, professional problems, and the individual needs and interests of enrolled students. Second semester (777b) on student research and the identification and preparation of doctoral dissertation studies.

780a-d Advanced Counseling Internship (6:0:20)
Pr. 756 or 774. Coreq. liability insurance
In-depth supervised field experience for advanced doctoral students in counselor education. Concentrated practice in individual, group, family, and/or consultation modes of counseling with individual faculty supervision in selected clinical settings. (Graded on S-U basis)

781a-e Counseling Supervision (3:3)
Pr. 780a, advanced doctoral standing, and recommendation by the major professor. Coreq. liability insurance
Counseling supervision theories, models, interventions, relationship and diversity issues; ethical and legal considerations. Didactic and/or supervised experiences. (781b-d graded on S-U basis)

799 Dissertation (1-12)
Individual direction in the development and execution of a doctoral dissertation.

802 Dissertation Extension (1-3)

803 Research Extension (1-3)
Department of Curriculum and Instruction

Graduate Programs in Curriculum and Instruction

- Post-Baccalaureate Certificates
  - Computer Education (jointly with Library & Information Studies)
  - Teaching English as a Second Language

- M.Ed.
  - Curriculum and Instruction with concentrations in:
    - Chemistry
    - Elementary Grades
    - ESL
    - French
    - Instructional Technology
    - Mathematics
    - Middle Grades
    - Reading
    - Science
    - Social Studies
    - Spanish
  - Educational Supervision
  - Student Personnel Administration in Higher Education

- Post-Master's Certificate
  - College Teaching, Learning, and Leadership

- Ph.D.
  - Curriculum and Teaching with concentrations in:
    - Teacher Education and Development
    - Higher Education

Professors

Ceola Ross Baber, Ph.D.
Equity education, secondary education, social studies curriculum and instruction.

Sarah B. Berenson, Ph.D.
Teaching and learning mathematics.

Gerald G. Duffy, Ed.D.
Reading strategy instruction, teacher development (William Moran Distinguished Professor).

Colleen Fairbanks, Ph.D.
Adolescent literacy, literacy and identity, teacher knowledge and development, writing instruction.

Bert Goldman, Ed.D.
College student retention, unpublished experimental mental measures.

Barbara B. Levin, Ph.D.
Teacher education, pedagogical thinking, technology education for teachers and children, case-based teaching, problem-based learning, social studies curriculum (Assistant Chair of Department and Director of Graduate Study).

Catherine E. Matthews, Ph.D.
K-12 science education and environmental education.

Samuel D. Miller, Ph.D.
Literacy development, student motivation, teacher education (Chair of Department).

Dale H. Schunk, Ph.D.
Social cognitive learning, self-regulation, motivation.

A. Edward Uprichard, Ph.D.
Mathematics education (elementary and middle grades), teacher education, leadership.

Associate Professors

Heidi B. Carlone, Ph.D.
Anthropology of science education, equity in science education, science curriculum.

Jowell Cooper, Ph.D.
Equity education, ethnic identity development, community-based learning in preservice teacher education.

Francine R. Johnston, Ed.D.
Early literacy, integrated language arts, children’s literature, spelling.

Deborah J. Taub, Ph.D.
Identity development of traditional age college students and professional preparation in student affairs.

Assistant Professors

David F. Ayers, Ed.D.
U.S. community college, politics of higher learning, college and university organization.

Beverly Faircloth, Ph.D.
Educational psychology, student motivation and development, sense of school belonging.

Ye He, Ph.D.
ESL, teacher education, multicultural education.

Kathryn Prater, Ph.D.
Early literacy, ESL literacy and preservice teacher education.

Sarah Pratt, Ph.D.
Math education, teacher education, complexity theory, curriculum theory.

Kerri Richardson, Ph.D.
Mathematics education, teacher education, mathematics curriculum, curriculum theory.

Amy Vetter, Ph.D.
Literacy and identity, discourse analysis, case studies.
Graduate programs in the Department of Curriculum and Instruction include Master of Education degrees in curriculum and instruction and student personnel administration in higher education and a Doctor of Philosophy in curriculum and teaching with a concentration in either teacher education and development or higher education. Post-Baccalaureate Certificates in teaching English as a second language and in computer education, which is offered jointly with the Department of Library and Information Studies, and a Post-Master’s Certificate in college teaching, learning, and leadership are offered.

The Master of Education in curriculum and instruction offers eleven concentrations that culminate with the development of an Advanced Competencies Portfolio, providing eligibility for candidates to earn “M” licensure. Six of the concentrations—elementary education, middle grades education, social studies education, science education, Spanish education, and French education—offer two tracks, a Classroom Practice Track and a Teacher Leadership Track. The other four concentrations—reading education, English as a second language, mathematics education, and chemistry education—offer only the Teacher Leadership track. All concentrations and tracks require 39 semester hours for the master’s degree.

The Classroom Practice Track is designed for candidates who have a bachelor’s degree but did not pursue teacher education or licensure as an undergraduate. All concentrations in this track will also have prerequisite or corequisite courses which are required for teaching licensure in North Carolina. The prerequisite or corequisite courses must be completed before a candidate can be recommended for licensure. A list of prerequisite or corequisite courses is available in the Student Advising and Recruitment Center (www.uncg.edu/soe/newsite/sarc/index.html) or the department’s Web page at www.uncg.edu/cui.

The Teacher Leadership Track is designed for candidates who already hold the Standard Professional I license or initial license to teach and wish to pursue more advanced study in a field of education.

The Instructional Technology concentration is designed for teachers and other candidates who wish to focus their studies on instructional technology as it relates to curriculum and instruction. The Instructional Technology Specialist—Computers (077) licensure is attached to this concentration.

Field experiences (school-based activities) are required across the curriculum of the M.Ed. programs.

The Master of Education in student personnel administration in higher education prepares students to implement transformative and integrated learning experiences in college, university, and other post-secondary settings. Students complete classes in foundation studies, professional studies, assessment and research, and a coherent sequence of supporting studies.

For more information on a specific concentration or track contact the Student Advising and Recruitment Center (SARC) at (336) 334-3410 or visit the department’s Web page at www.uncg.edu/cui.

**PBC Requirements for the Post-Baccalaureate Certificate for Special Endorsement in Computer Education**

The Department of Library and Information Studies and the Department of Curriculum and Instruction jointly offer a graduate program of study leading to an 18 hour Post-Baccalaureate Certificate. The certificate enables educators to work with students and other teachers to use computers in on-going instructional programs and to serve as a computer education leader for a school. Completion of the certificate allows students to fulfill requirements to apply for the NC endorsement for the position of Technology Facilitator. Applicants to the certificate program must currently hold NC teaching license and meet Graduate School standards for admission and retention.

**Requirements (18 hours)**

- **CUI 610** Integrating Technology into Subject Matter Instruction (3)
- **LIS 631** Emerging Technological Trends in Information Access (3)
- **LIS 632** Managing School/Library Computer Laboratories (3) or **LIS 630** Computer-Related Technologies for Information Management (3)
- **LIS 635** Media Production Services for Library Programs (3)
- **CUI/LIS 672** Instructional Design (3)
- **SES 662** Assistive Technology for Inclusive Education (3)
Requirements for the Master of Education in Curriculum and Instruction with Various Concentrations

**ALL CONCENTRATIONS**
(unless otherwise noted)

**Core Courses** (9 hours)
- CUI 545 Diverse Learners (3)
- CUI 669 Educational Implications of Learning and Developmental Theory (3)
- ERM 605 Educational Measurement and Evaluation (3)
  (Students in a Teacher Leadership Track may choose between ERM 605 or ERM 604 Methods of Educational Research (3))

**Advanced Competencies Portfolio and Other Required Culminating Experiences**
(Capstone Experience)
For some tracks, a technology portfolio and PRAXIS exams are necessary for licensure and graduation, while for others only the Advanced Competencies Portfolio and a possible assessment day are required.

**CHEMISTRY EDUCATION**

**Teacher Leadership Track** (39 hours)

**Pedagogical Expertise**
- CHE 602 Graduate Seminar (2)
- CHE 680 Research Problems in Chemistry (6)
- 7-10 hours of advanced courses in chemistry selected after needs assessment and under advisement from the Department of Chemistry

**Professional Development/Leadership**
- CUI 628 Trends and Issues in Curriculum and Instruction (3) or ELC 697 Selected Critical Issues in American Education (3) or approved substitute
- CUI 656 Teacher as Leader (3)
- CUI 675 Teacher as Researcher (3)

**ENGLISH AS A SECOND LANGUAGE**

**Teacher Leadership Track** (39 hours)

**Pedagogical Expertise**
- CUI 622 Differentiated Instruction (3)
- 15 hours selected on basis of approved plan of study

**Professional Development/Leadership**
- CUI 628 Trends and Issues in Curriculum and Instruction (3) or ELC 697 Selected Critical Issues in American Education (3) or approved substitute
- CUI 656 Teacher as Leader (3)
- CUI 675 Teacher as Researcher (6) (taken as two sequential separate offerings)

Requirements for the Post-Baccalaureate Certificate in Teaching English as a Second Language

The Department of Curriculum and Instruction offers a graduate program of study leading to an 18 hour Post-Baccalaureate Certificate in teaching English as a second language. The certificate is intended for those with a bachelor’s degree in any field and documented evidence of having studied a foreign language. The curriculum is designed to develop the knowledge, skills, and dispositions of those who are currently teaching or desire to teach language-minority adults and children to understand, speak, read, and write English in a variety of community, educational, and business settings.

**Required Courses** (15 hours)
- CUI 523 Legal, Historical, and Cultural Implications of English as a Second Language (3)
- CUI 526 Teaching English as a Second Language (3)
- CUI 605 Developmental Psycholinguistics (3)
- CUI 613 Linguistics for ESL Teachers (3)
- ENG 660 Modern Language Theory (3)

And one of the following literacy courses:
- CUI 614 Word Study (3)
- CUI 615 Literacy in the Early Years (3)
- CUI 616 Literacy Development and Instruction Across the Grades (3)
CUI 616  Literacy Development and Instruction Across the Grades 93
CUI 618  Teaching English as a Second Language (3)

Professional Development/Leadership
CUI 650  Interaction of Classroom Management and Interaction (3)
CUI 680a  Clinical Experience in Teaching (6)
CUI 680b  Clinical Experience in Teaching Seminar (3)

Teacher Leadership Track (39 hours)
Core Courses
CUI 646  Introduction to Equity Education (3)
CUI 669  Educational Implications of Learning and Developmental Theory (3)
ERM 605  Educational Measurement and Evaluation (3) or ERM 604 Methods of Educational Research (3)

Pedagogical Expertise
CUI 523  Legal, Historical, and Cultural Implications of English as a Second Language (3)
CUI 603  Literacy for English Language Learners (3)
CUI 604  Applied Linguistics for ESL Teachers (3)
CUI 618  Teaching English as a Second Language (3)
6 hours electives under advisement to include literacy courses such as CUI 614, 615, 616, or 640

Professional Development/Leadership
CUI 628  Trends and Issues in Curriculum and Instruction (3) or ELC 697 Selected Critical Issues in American Education (3) or approved substitute
CUI 656  Teacher as Leader (3)
CUI 675  Teacher as Researcher (6) (taken in final year)

Add-on Licensure in English as a Second Language (15 hours)
CUI 523  Legal, Historical, and Cultural Implications of English as a Second Language (3)
CUI 603  Literacy for English Language Learners (3)
CUI 604  Applied Linguistics for ESL Teachers (3)
CUI 614  Word Study (3)
CUI 618  Teaching English as a Second Language (3)

Licensure Process
Before completing all course work, students seeking NC licensure in English as a Second Language are required to pass the PRAXIS specialty area exam in English as a Second Language (20360). Upon satisfactory completion of these courses, student may make application for licensure with The Teachers Academy Certification Officer in 319 Curry.

FRENCH EDUCATION

Classroom Practice Track
(39 hours minimum)

Pedagogical Expertise
FRE 507  Teaching French Through French Literature (3) or FRE 511 The Practice of French Translation and Interpretation (3) or FRE 615, 616 Advanced Composition for Graduate Students (3) (3)
FRE 532, 533 French Civilization (3) (3) or FRE 557 Advanced Topics in French Literature (3) (if the topic is Paris)

Three courses from French literature and/or film (director/author and/or film genre) at the 500-level and above
CUI 527  Teaching Second Languages in the Elementary/Middle Schools (3)
CUI 552  Teaching Practices and Curriculum in Foreign Languages (3)

Professional Development/Leadership
CUI 638  Seminar in Secondary Education (3)
CUI 680a  Clinical Experience in Teaching (6)
CUI 680b  Clinical Experience in Teaching Seminar (3)

Teacher Leadership Track (39 hours)
Pedagogical Expertise
FRE 507  Teaching French Through French Literature (3) or FRE 511 The Practice of French Translation and Interpretation (3) or FRE 615, 616 Advanced Composition for Graduate Students (3) (3)
FRE 532, 533 French Civilization (3) (3) or FRE 557 Advanced Topics in French Literature (3) (if the topic is Paris)
Three courses from French literature and/or film (director/author and/or film genre) at the 500-level and above
CUI 622  Differentiated Instruction (3)
CUI 633  Trends in Teaching Practices and Curriculum in Foreign Languages (3)

Professional Development/Leadership
CUI 680a  Clinical Experience in Teaching Seminar (3) or ELC 697 Selected Critical Issues in American Education (3) or approved substitute
CUI 656  Teacher as Leader (3)
CUI 675  Teacher as Researcher (3)

INSTRUCTIONAL TECHNOLOGY

Teacher Leadership Track (39 hours)
Pedagogical Expertise
CUI 610  Integrating Technology into Subject Matter Instruction (3)
CUI 644  Supervised Practicum in Curriculum and Instruction (3)
CUI/LIS 672  Instructional Design (3)
LIS 631  Emerging Technological Trends in Information Access (3)
LIS 632  Managing School/Library Computer Laboratories (3) or LIS 630 Computer-Related Technologies for Library Management (3)
LIS 635  Media Production Services for Library Programs (3)
SES 662  Assistive Technology for Inclusive Education (3)

Professional Development/Leadership
CUI 656  Teacher as Leader (3)
CUI 675  Teacher as Researcher (3)
CUI/LIS 674  Seminar: Issues and The Virtual Community (3) or CUI 628 Trends and Issues in Curriculum and Instruction (3) or ELC 697 Selected Critical Issues in American Education (3) or approved substitute

MATHEMATICS EDUCATION

Teacher Leadership Track (39 hours)
Pedagogical Expertise
Five courses selected from the following list and under advisement from the Departments of Mathematical Sciences and Curriculum and Instruction: MAT 513, 514, 516, 517, 518, 519, 531, 532, 540, 545, 546, 549, 591, 592, 595, 596, 631, 632, 647, and 648
Curriculum and Instruction

CUI 622 Differentiated Instruction (3) or CUI 665 Diagnosis and Corrective Teaching in Mathematics (3)
CUI 630 Trends in Teaching Practices and Curriculum in Secondary School Mathematics (3) or CUI 664 Teaching Problem Solving (3) or CUI 668 Seminar in Mathematics Pedagogy (3)

Professional Development/Leadership
CUI 628 Trends and Issues in Curriculum and Instruction (3) or ELC 697 Selected Critical Issues in American Education (3) or approved substitute
CUI 656 Teacher as Leader (3)
CUI 675 Teacher as Researcher (3)

MIDDLE GRADES EDUCATION

Classroom Practice Track (39 hours)
Pedagogical Expertise
CUI 535 Literacy in Content Areas (3)
CUI 626 Middle Grades Curriculum and Instruction (3)
CUI 634 Seminar in Middle Grades Education (3 - with internship)
6 hours content
3 hours methods

Professional Development/Leadership
CUI 650 The Interaction of Classroom Management and Instruction (3)
CUI 680a Clinical Experience in Teaching (6)
CUI 680b Clinical Experience in Teaching Seminar (3)

Teacher Leadership Track (39 hours)
Pedagogical Expertise
CUI 622 Differentiated Instruction (3)
CUI 626 Middle Grades Curriculum and Instruction (3) or approved substitute
CUI 656 Teacher as Leader (3)
Content courses (12)

Professional Development/Leadership
CUI 628 Trends and Issues in Curriculum and Instruction (3) or ELC 697 Selected Critical Issues in American Education (3) or approved substitute
CUI 675 Teacher as Researcher (6) (taken as two separate offerings)

READING EDUCATION

Teacher Leadership Track (39 hours)
Pedagogical Expertise
CUI 615 Literacy in the Early Years (3)
CUI 616 Literacy Development and Instruction Across the Grades (3)
CUI 617a Diagnosis and Correction of Reading Problems (3)
CUI 617b Advanced Strategies in Diagnosis and Correction (3)
CUI 619 Research and Programs in Reading Education (3)
CUI 640 Writing Instruction in the Elementary and Middle Grades (3)
3 hour elective

Professional Development/Leadership
CUI 628 Trends and Issues in Curriculum and Instruction (3) or ELC 697 Selected Critical Issues in American Education (3) or approved substitute
CUI 675 Teacher as Researcher (6) (taken as two separate offerings)

Add-on Licensure in Reading
The add-on program in reading is designed for professionals who have already completed a master’s program in education or who are currently enrolled in a master’s program and would like additional licensure as a reading specialist.
The program requires 18 hours of course work. Some of these hours may be completed as part of another master’s program such as those offered by the Department of Curriculum and Instruction or the Department of Specialized Education Services.

Admission Process
Currently enrolled graduate students who wish to apply to the add-on licensure program before completion of their master’s degree should consult with Dr. Francine Johnston in the Department of Curriculum and Instruction. They do not have to reapply to The Graduate School.

Licensed teachers seeking additional licensure as a reading specialist who are not currently enrolled in a master’s program must have completed a Master of Education degree at UNCG or elsewhere. They must apply to The Graduate School and be accepted to the Reading Add-on Licensure Program.

Required Courses
CUI 615 Literacy in the Early Years (3)
CUI 616 Literacy Development and Instruction Across the Grades (3)
CUI 617a Diagnosis and Correction of Reading Problems (3)
CUI 640 Writing Instruction in the Elementary and Middle Grades (3)
Select two (2) courses from the following:
CUI 614 Word Study (3)
CUI 617b Advanced Strategies in Diagnosis and Correction (3)
CUI 619 Research and Programs in Reading Education (3)

SCIENCE EDUCATION

Classroom Practice Track
(39 hours minimum)
Pedagogical Expertise
CUI 559 Teaching Practices and Curriculum in Science (3)
CUI 623 Environmental Education in the K-12 Classroom (3)
15 hours content courses

Professional Development/Leadership (9 hours)
CUI 638 Seminar in Secondary Education (3)
CUI 680a Clinical Experience in Teaching (6)
CUI 680b Clinical Experience in Teaching Seminar (3)

Teacher Leadership Track (39 hours)
Pedagogical Expertise
CUI 622 Differentiated Instruction (3)
15 hours content courses, to include option in environmental education
This 36 hour program is designed for teachers and other candidates who wish a broad course of study related to curriculum and instruction. No licensure is attached to this concentration. The student’s educational goals should be articulated with an advisor.

Foundation Courses (9 hours)

- CUI 669 Educational Implications of Learning and Developmental Theory (3)
- CUI 698 Human Development (3)
- ELC 695 Comparative Education or ELC 696 Philosophies of Education (3) or ELC 697 Selected Critical Issues in American Education (3)

Research (6 hours)

- ERM 604 Methods of Educational Research (3)
- ERM 605 Educational Measurement and Evaluation (3)

Required Major Courses (12 hours)

- CUI 622 Differentiated Instruction (3)
- CUI 654 Teaching Models and the Analysis of Instruction (3)
- ELC 615 Foundations of Curriculum (3)
- LIS 672 Instructional Design (3)

Elective Major Courses (9 hours)

Electives must be selected with the prior approval of the advisor to address licensure needs or student interest.

*Requirements for the Master of Education in Educational Supervision

*For 2008-2009, no new degree candidates will be accepted.

Requirements for the Master of Education in Educational Supervision with a Concentration in Instructional Design

- CUI 628 Trends and Issues in Curriculum and Instruction (3) or ELC 697 Selected Critical Issues in American Education (3) or approved substitute
- CUI 656 Teacher as Leader (3)
- CUI 675 Teacher as Researcher (3)

SPANISH EDUCATION

Classroom Practice Track

(39 hours minimum)

- Pedagogical Expertise
  - CUI 533 Teaching Practices and Curriculum in Social Studies (3)
  - 18 hours content courses (3-2-1 across 3 different social studies disciplines)

- Professional Development/Leadership
  - CUI 638 Seminar in Secondary Education (3)
  - CUI 680a Clinical Experience in Teaching (6)
  - CUI 680b Clinical Experience in Teaching Seminar (3)

Teacher Leadership Track (39 hours)

- Pedagogical Expertise
  - CUI 622 Differentiated Instruction (3)
  - 12 hours content courses, to include options in equity education and global education

- Professional Development/Leadership
  - CUI 628 Trends and Issues in Curriculum and Instruction (3) or ELC 697 Selected Critical Issues in American Education (3) or approved substitute
  - CUI 656 Teacher as Leader (3)
  - CUI 675 Teacher as Researcher (3)
  - 3 hours electives
**MEd** Requirements for the Master of Education in Student Personnel Administration in Higher Education

The M.Ed. in student personnel administration in higher education prepares graduates to implement transformative and integrated learning experiences in college, university, and other post-secondary setting. In preparation for careers in college student personnel administration, graduate learners complete a minimum of 42 hours in foundation studies, professional studies, assessment and research, and a coherent sequence of supporting courses. The 42 hour requirement also includes an internship in college student personnel administration. Graduates may select supporting courses for an emphasis on adult learning.

**Foundational Studies** (9 hours minimum)
- CUI 601 Foundations of College Student Personnel Administration (3)
- CUI 661 Higher Education in the U.S. (3)
- ELC 604 Moral Dimensions of Education (3) or ELC 661 Ethics in Education (3) or ELC 696 Philosophies in Education (3)

**Professional Studies** (18 hours minimum)
- CUI 602 Theoretical Foundations of Higher Learning (3)
- CUI 606 Administration of Higher Education (3)
- CUI 627 Enrollment Management (3)

**Assessment and Research** (3 hours)
- ERM 604 Methods of Educational Research (3)

**Internship** (3 hours)
- CUI 690 Internship in Higher Education (3)

**Supporting Courses** (9 hours)
Students select a coherent sequence of supporting courses in consultation with the advisor.

**Comprehensive Examination** (Capstone Experience)
Please consult with the Director of Graduate Study or departmental secretary for the dates of this examination.

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**EdS** Requirements for the Specialist in Education in Higher Education

*For 2008-2009, no new degree candidates will be accepted.

**PMC** Requirements for the Post-Master’s Certificate in College Teaching, Learning, and Leadership

The 15 hour Post-Master’s Certificate in college teaching, learning, and leadership is designed for current and future faculty and college student educators working in community colleges, baccalaureate-granting colleges, and universities. It is also intended for UNCG graduate students who have completed a minimum of 18 hours in their program and are in good standing with their department. Completion of the master’s degree is required for the awarding of the certificate.

The program focuses on the planning, design, and implementation of collegiate learning experiences but also allows the pursuit of a broad range of interests related to learner differences, contexts for learning, transformative learning, academic leadership, and assessment and accountability.

**Required Core Course** (3 hours)
- CUI 663 Planning Programs in Postsecondary Education (3)

**Electives** (12 hours)
Students select 12 hours from the following:
- CUI 600 The Community College (3)
- CUI 601 Foundations of College Student Personnel Administration (3)
- CUI 602 Theoretical Foundations of Higher Learning (3)
- CUI 606 Administration in Higher Education (3)
- CUI 607 Adult Learning and College Teaching (3)
- CUI 612 Current Issues in Higher Education (3)
- CUI 662 Curriculum in Higher Education (3)
The Department of Curriculum and Instruction offers a graduate program of study leading to a Ph.D. in curriculum and teaching with a concentration in teacher education and development (60 hours minimum) or higher education (66 hours minimum). All students in the curriculum and instruction doctoral program are required to meet requirements in the areas of curriculum and instruction and research as described below. Additional course requirements are determined on an individual basis through planning by the student and his/her doctoral advisory/disseration committee.

**Required Core Courses (12 hours minimum)**

All students must complete a required core of courses as denoted below (an asterisk denotes the required course which should be the first completed in the doctoral program):

**Teacher Education and Development Concentration (12 hours)**
- CUI 654 Teaching Models and Analysis of Instruction (3)
- CUI 748 Seminar in Cognition and Motivation (3)
- CUI 750 Doctoral Proseminar in Curriculum and Instruction: Teacher Education (3)
- One course from CUI, SES, LIS, or other area as approved by doctoral committee (3)

**Higher Education Concentration (12 hours)**
- CUI 661 Higher Education in the U.S. (3)
- CUI 662 Curriculum in Higher Education (3)
- CUI 745 Higher Education: Equity, Inclusion and Learning (3) or CED 603 Contemporary College Students (3)
- CUI 750 Doctoral Proseminar in Curriculum and Instruction: Higher Education (3)

**Research Requirements (21 hours minimum)**

The research component must include both qualitative and quantitative research courses, plus an applied research component. Students are expected to acquire a deep understanding of the concepts of research and inquiry as they relate to curriculum and instruction. The knowledge base should include understanding of various research paradigms, criticisms of these paradigms, and the ability to conduct scholarly research.

The research component must include one doctoral-level statistics course and one doctoral-level qualitative methods course. ERM 680 can be counted in 21 hours.

The research component must include at least 6 hours of applied research courses. In the teacher education and development concentration, this requirement may be satisfied by taking CUI 775, Directed Doctoral Research, which may be repeated once for credit. In the higher education concentration students will complete CUI 790, Practicum: Applied Research in Higher Education, which may be repeated once for credit.

The remaining research courses will be selected with advice and approval of the doctoral committee.

**Teacher Education and Development Concentration (15 hours minimum)**

In the teacher education and development concentration, students will decide on courses in the curriculum and instruction concentration with the advice and approval of the doctoral committee. By carefully selecting courses, students may develop a focus in any of several areas including teacher education, elementary education, middle grades education, reading and literacy education, mathematics education, social studies education, science education, foreign language education, equity education, English as a second language/TESOL, or an interdisciplinary focus.

**Higher Education Concentration (21 hours minimum)**

In the higher education concentration, students take 21-27 hours, to be determined during consultation with the doctoral advisory/dissertation committee. Course work should be consistent with the concentration to include: higher education finance, higher education law, higher education policy, ethics, organizational development and management, higher education research and assessment, and college teaching.
Comprehensive Examination
Each candidate for the doctoral degree is required to successfully pass an oral and written comprehensive examination. Dates for this examination are determined by the student and the doctoral advisory/dissertation committee chair.

Dissertation (12 hours minimum)
Each candidate for a doctoral degree must prepare and present a dissertation that focuses on some aspect of teacher education or higher education, shows independent investigation, and is acceptable in form and content to the student’s committee and The Graduate School.

Curriculum and Instruction Courses

506 Institutes in Education (1-3)
Practicum or workshop experiences to focus on issues, problems, or approaches in the profession. Students may apply no more than 3 hours of this course to any degree program. (Graded on S-U basis)

516 Emergent Literacy and Literature (3:3)
Explores emergent literacy development in preschool/kindergarten setting and introduces the wide range of literature available for young children with emphasis on using books to stimulate language and cognitive development.

517 Literacy I: Reading and Writing in the Primary Elementary Grades (3:3)
Pr. admission to the M.Ed. in curriculum and instruction Classroom Practice Track, or permission of instructor
Course focuses on how children learn to read and what classroom teachers can do to facilitate their growth as readers in the primary grades.

518 Mathematics in the Elementary and Middle Schools (3:3)
Study of the current mathematics program, including emphasis on meaning theory and on instructional materials, methods, and procedures in teaching the fundamental operations.

519 Science in the Elementary School (3:3)
Course focuses on designing and developing science learning experiences for children in the biological, physical, earth, and space sciences. The nature of elementary school science and children’s interests are considered. (Summer)

520 Social Studies in the Elementary School (3:3)
Course designed to help educators design and implement appropriate social studies instruction in the elementary school. Emphasis is given to program structure, instructional processes, and research developments. Specific attention is given to current emerging elements of the modern social studies program in the elementary school.

521 Literacy II: Reading and Writing in the Intermediate Elementary Grades (3:3)
Pr. admission to the M.Ed. in curriculum and instruction Classroom Practice Track and 517, or permission of instructor
Integrated reading and language arts course designed to prepare students to teach reading and writing in the elementary grades.

523 Legal, Historical, and Cultural Implications of English as a Second Language (3:3)
Pr. Standard Professional I licensure in another area or permission of instructor
Exploration of legal and historical bases of English as a Second Language. Analysis of differences among home and school cultures, especially related to language.

527 Teaching Second Languages in the Elementary/Middle Schools (3:3)
Pr. 545 and admission to teacher education program or permission of instructor
Study of second language teaching approaches applicable to the elementary/middle school pupil. Materials development and evaluation. Organizing effective second language programs in the elementary and middle schools.

530 Middle Grades Language Arts Education (3:3)
Pr. admission to middle grades education
Develops competencies in middle grades language arts instruction as related to adolescent learners. Emphases include practical and theoretical attention to best-practices, curriculum, assessment, and standards of practice.

535 Literacy in the Content Areas (3:3)
Pr. admission to teacher education or permission of instructor
Designed to prepare middle grades, secondary and special subject or content area teachers to work with students who exhibit a variety of reading and writing levels.

545 Diverse Learners (3:3:2)
Pr. admission to advanced master’s program in teacher education and/or admission to teacher education, or permission of instructor
Provides students with a broad base of knowledge and skills to increase their effectiveness in meeting the needs of diverse learners through appropriate instructional, curricular, and behavioral strategies.

551 Teaching Practices and Curriculum in English (3:3:2)
Pr. 450 and admission to teacher education. Coreq. or pr. 470, or permission of instructor. Required of student teachers in English
Designed to acquaint prospective teachers with modern concepts and practices in English instruction in secondary schools; emphasis on teaching four fundamental language arts: speaking, writing, reading, and listening.

552 Teaching Practices and Curriculum in Foreign Languages (3:3:2)
Pr. 450, 545 and admission to teacher education. Coreq. or pr. 470, or permission of instructor
Designed to acquaint second language teachers with modern methods and techniques of instruction in secondary schools. Emphasis on proficiency in listening, speaking, reading and writing and on teaching materials.
553 Teaching Practices and Curriculum in Social Studies (3:3:2)
Pr. 450, 545 and admission to teacher education. Coreq. or pr. 470, or permission of instructor. Required of student teachers in social studies
Organization of social studies in secondary schools; classroom methods, techniques, and activities; teaching materials; testing and evaluation.

554 Middle Grades Social Studies Education (3:3)
Pr. admission to middle grades education concentration
Candidate competencies in middle grades social studies instruction. Emphases include practical and theoretical attention to curriculum development, planning, resources, standards, instructional strategies, and assessment.

555 Multicultural Education (3:3)
Philosophical and sociocultural perspectives on pluralism and diversity. Emphases include interdependent individual, cultural, and institutional behaviors related to race, religion, class, cultural/ethnic heritage, and gender.

557 Teaching Practices and Curriculum in Mathematics (3:3:2)
Pr. 450, 545 and admission to teacher education. Coreq. or pr. 470, or permission of instructor. Required of student teachers in mathematics
Special teaching problems in secondary mathematics. Teaching procedures for important topics discussed in relation to their foundations in mathematics and logic.

559 Teaching Practices and Curriculum in Science (3:3:2)
Pr. 450, 545 and admission to teacher education. Coreq. or pr. 470, or permission of instructor. Required of student teachers in science
Development of philosophy of science teaching and of attitudes and values relative to science teaching in secondary school. Emphasis on recent curriculum studies in biology, chemistry, physics, and earth-science and the changing approaches to teaching these subjects.

560 Middle Grades Science Education (3:3:5)
Pr. admission to Middle Grades Education concentration (undergraduate or graduate classroom practice track) or lateral entry middle school science teachers who have not had a middle grades science methods course
Develops candidate competencies in middle grades science instruction as related to adolescent learners. Emphases include practical and theoretical attention to best practices, curriculum, assessment, and standards of practice.

561 Nature of Science/Science Education (3:3)
Study of nature of science, encompassing literature from history, philosophy, and sociology of science (science and technology studies). Includes discussion of this literature’s influence on school science curriculum and instruction.

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

600 The Community College (3:3)
Development of the community college on the national and state levels, including objectives, organization, curriculum, instruction, and services.

601 Foundations of College Student Personnel Administration (3:3)
Pr. admission to The Graduate School
Historical, philosophical, ethical, cultural, and research foundations of higher education that inform student affairs practice. Learners articulate the inherent values of the profession as guided by key professional documents.

602 Theoretical Foundations of Higher Learning (3:3)
Pr. admission to The Graduate School
Learning as a comprehensive, holistic, and transformative experience integrating academic learning and student development. Overview of campus programs and services. Review of research on the impact of college on undergraduates.

603 Literacy Instruction for English Language Learners (3:3:3)
SVL
Pr. admission to M.Ed. in ESL or ESL add-on licensure program
Basic knowledge of theory and research in second language acquisition and literacy development and strategies and techniques for effective literacy instruction for English language learners.

604 Applied Linguistics for ESL Teachers (3:3)
Pr. admission to M.Ed. in ESL or ESL add-on licensure program
Linguistics theories on phonology, morphology, syntax, psycholinguistics and sociolinguistics; basic theories of second language acquisition; and application of the theories and models of applied linguistics in ESL classroom teaching.

605 Developmental Psycholinguistics (3:3)
Pr. one course in human development or child development, one course focusing on human learning, or permission of instructor.
A course in linguistics is recommended.
Processes involved in the acquisition and development of a first language in the human species. Interrelations between psycholinguistics and cognition. Field work will include observations in a natural setting and in language testing situations.

606 Administration of Higher Education (3:3)
Pr. permission of instructor
Basic skills and theory of administrative behavior, organizational structure, governance and management of higher education; processes and factors influencing institutional decision making and higher education planning.

607 Adult Learning and College Teaching (3:3)
Alternative teaching models: their nature, curriculum foundations, relationship to the adult learner, analysis, and evaluation. Research on teaching and issues in faculty evaluation.

609 Methods of Teaching Computer Literacy and Computer Programming (3:3:3)
Content and method for teaching for computer literacy and computer programming and strategies for teaching these subjects. Designed for computer specialists, computer teachers, and regular classroom teachers. (Same as LIS 673)

610 Integrating Technology into Subject Matter Instruction (3:3:3)
Study of ways to integrate a variety of computer-based technologies for teaching and learning content in the K-12 curriculum. Designed for classroom teachers, computer teachers, and computer specialists.
611 Survey of Adult Education (3:3)
Survey of concepts and history of the professional field of adult education and affiliated fields. Examination of the role of the influencer or teacher of adults within today’s context of accelerating cultural change.

612 Current Issues in Higher Education (3:3)
Identification and analysis of current issues with discussion of proposals for resolution.

613 Linguistics for ESL Teachers (3:3)
Designed for teachers pursuing advanced licensure in English as a Second Language. Focuses on understanding general linguistic concepts and their application to ESL pedagogy.

614 Word Study (3:3)
Designed to familiarize educators with underlying developmental theories and teaching strategies for word recognition, spelling, and vocabulary development. Special attention given to issues surrounding phonics.

615 Literacy in the Early Years (3:3)
Course gives experienced teachers an in-depth study of how children learn to read and how to facilitate growth as readers in primary grades. Emphasis on at-risk readers.

616 Literacy Development and Instruction Across the Grades (3:3)
Designed to give teachers a deeper understanding of the theories and research behind effective reading instruction for students beyond the primary grades.

617a Diagnosis and Correction of Reading Problems (3)
Pr. 615 and 616 and permission of instructor
Causes of reading disabilities, diagnostic instruments, standard and informal testing procedures, report writing, and materials and methods of instructing the atypical reader. Work with individual students or small groups identified as problem readers.

617b Advanced Strategies in Diagnosis and Correction (3)
Pr. 615 and 616 and permission of instructor
Further examination of atypical readers. Work with problem readers in a supervised, clinical context. Evaluation of formal and informal assessments, the generation of educational prescriptions, and the direction of assessment procedures.

618 Teaching English as a Second Language (3:3) (SVL)
Pr. admission to M.Ed. in ESL or ESL add-on licensure program
Specific instructional methods and strategies to facilitate content area instruction and English language development for students who speak languages other than English.

619 Research and Programs in Reading Education (3:3)
Pr. minimum of 9 hours in reading education; 3 hours in research or statistics or permission of instructor
For students completing a master’s program with a concentration in reading education or those entering into postmaster’s work. Students encouraged to employ previously gained knowledge in seeking solutions to the problems facing the profession.

620 Theories of Reading and Writing Processes (3:3)
Current cognitive and social theories of reading processes and writing processes. Implications of applying those theories to the elementary and middle school curriculum.

621 Diagnosing Learning Difficulties in Elementary and Junior High School (3:3)
Procedures and techniques in diagnosing learning problems, especially in the language arts area. Emphasis placed on assessment and treatment procedures related to learning processes. Practical application stressed through contact with school-age children.

622 Differentiated Instruction (3:3)
Pr. admission to M.Ed. in curriculum and instruction; 545, 669, ERM 605, and a minimum of 15 hours in the pedagogical expertise area, or permission of instructor
Methods appropriate for assessing individual learning needs in a performance-based curriculum, and constructing, implementing, and evaluating a long-term instruction plan in specific content area(s).

623 Environmental Education in the K-12 Classroom (3:3)
Pr. 545, 669, ERM 605, or permission of the instructor
Teachers will design, conduct and evaluate environmental education activities in their K-12 classrooms. Course activities partially fulfill requirements for North Carolina environmental education licensure. Weekend field trip is required.

624 Elementary School Curriculum and Instruction (3:3)
Pr. 500-level course in elementary education
Curricular and instructional principles, processes, and designs applicable to children from early childhood to early adolescence. Current and emerging elements of the modern elementary school curriculum.

625 Academic Advising and Retention in Higher Education (3:3)
Addresses academic advising as a key element in the retention of college students; academic advising on the college campus.

626 Middle Grades Curriculum and Instruction (3:3)
Pr. permission of instructor
Curricular and instructional principles, processes, and designs applicable to students in the middle grades. Particular emphasis is given to exemplary middle school programs.

627 Enrollment Management (3:3)
Pr. CED 579 or permission of instructor
“Enrollment influences” including the institution’s integrated efforts in marketing, recruitment, admission, and retention, etc.

628 Trends and Issues in Curriculum and Instruction (3:3)
Pr. admission to M.Ed. in curriculum and instruction, 545, 669, ERM 605; or permission of instructor
Examination of selected current trends and issues in curriculum and instruction, focusing on causes, intentions, and effects of policies at the local, state, and national levels. May be repeated for credit when topic varies.

Pr. permission of instructor
Will familiarize teachers of grades 7-12 with the changes in content and methods of teaching secondary mathematics. May be repeated for credit when topic varies.
Pr. permission of instructor
Historical development and objectives of social studies curriculum in schools; structure of individual disciplines in social studies, trends and new directions in curriculum, and implications of significant research in social studies curriculum and methodology. May be repeated once for credit when topic varies.

Pr. permission of instructor
Curriculum developments in biology, chemistry, physics, and earth science at the secondary school level. New approaches to teaching-learning, problem solving, discovery methods of learning, concept learning, and learning by inquiry. May be repeated once for credit when topic varies.

633 Trends in Teaching Practices and Curriculum in Foreign Languages (3:3)
Pr. permission of instructor
Research in first and second language acquisition as it relates to second language teaching. Developments in foreign language curriculum and methodology. May be repeated once for credit when topic varies.

634 Seminar in Middle Grades Education (3:3)
Pr. completion of a course in middle grades curriculum and instruction
Will focus on the unique needs of students and teachers in middle level schools.

635 Reading in the Secondary School and Content Areas (3:3)
Pr. 664 or permission of instructor
Reading development; problems and procedures of teaching basic and mature reading skills to pupils in junior and senior high schools; explore implications of research for teaching, and identify problem areas.

Pr. permission of instructor
Developments in the teaching of English and analysis of current practices. Changes in curriculum and materials. May be repeated once for credit when topic varies.

638a, b Seminar in Secondary Education (3:3), (3:3)
Group analysis of selected problems. Individual student presentations of research done on topics related to that person's professional situation.

639 Global Education in the Curriculum (3:3)
Develop awareness of need for global education and skills and processes necessary for implementation in the curriculum.

640 Writing Instruction in the Elementary and Middle Grades (3:3)
Interrelates knowledge, research, and practice in teaching writing as a process in elementary and middle grades. Implementing the writing process across the curriculum.

644 Supervised Practicum in Curriculum and Teaching (3:3)
Pr. permission of instructor
Directed studies of curricular and instructional issues in a field setting. (Graded on S-U basis)

646 Introduction to Equity Education (3:3)
Designed to introduce concept of equity education (culture, race, ethnicity, socioeconomic status, language, gender, and exceptionalities). Students acquire knowledge, skills, and dispositions necessary to create equitable environments in K-12 educational settings.

650 The Interaction of Classroom Management and Instruction (3:3)
Pr. permission of instructor
Competencies in motivating and increasing student learning through development of positive interpersonal relationships in the classroom, effective classroom organization and instruction, and altering unproductive student behavior.

654 Teaching Models and the Analysis of Instruction (3:3)
Alternative models of instruction in elementary, secondary and non-school contexts: curriculum foundations, analysis and implications, observation systems, evaluation of teaching and teachers, and critical instructional issues.

655 Supervision of Instruction (3)
Supervision as curriculum and instructional leadership, focusing on the analysis and evaluation of instruction, generation of curriculum alternatives, interpersonal relationships between supervisor and supervisee, and strategies for the supervisory conference.

656 Teacher as Leader (3:3)
Pr. ERM 605 and 24 hours of M.Ed. course work, or permission of instructor
Study of leadership skills and best practices for teachers as leaders working with school, district, state and/or national initiatives and issues.

661 Higher Education in the U.S. (3:3)
Major problems and issues affecting contemporary higher education in the U.S. and their historical background.

662 Curriculum in Higher Education (3:3)
Pr. 600 or 601 or permission of instructor
Curricular patterns and processes in postsecondary educational institutions. Social, historical, and philosophical perspectives on current curricular trends and processes of change among various institutional types.

663 Program Planning in Postsecondary Education (3:3)
Review of classic, naturalistic, and critical programming models in adult and postsecondary education. Prepares faculty, trainers, and staff developers to translate felt needs into meaningful learning experiences.

664 Teaching Problem Solving (3:3)
Pr. admission to a graduate program, or permission of instructor

665 Diagnosis and Corrective Teaching in Mathematics (3:3)
Pr. successful completion in two mathematics courses (MAT 112 or higher) and one course in mathematics education, or permission of instructor
667 Technology in Mathematics Education (3:3)
Pr. 664 or permission of instructor
Technologies used to learn mathematics and ways of incorporating those technologies into mathematics instruction.

668 Seminar in Mathematics Pedagogy (3:3)
Pr. 664 or equivalent, or permission of instructor
Analysis of alternative pedagogy for specific mathematics content, with design of instruction and assessment based on that analysis. May be repeated for credit; maximum of 6 hours applicable toward any degree.

669 Educational Implications of Learning and Developmental Theory (3:3)
How learning and developmental theories define the teacher’s role as instructional leader, how curricular materials might be designed and used, and student learning and motivation.

670 Research in Mathematics Education (3:3)
Pr. successful completion of two courses in mathematics education, or permission of instructor
Research in mathematics instruction and learning; attention to synthesizing and identifying educational implications of research.

672 Instructional Design (3:3)
Components of the systems approach to instructional design. (Same as LIS 672)

674 Seminar: Issues and the Virtual Community (3:3)
Pr. permission of instructor
Major social and ethical issues emerging in the virtual community including those embraced by access, privacy, intellectual property, freedom of speech, institutional/social control, and evolving formats. (Same as LIS 674)

675 Teacher as Researcher (3:3:3)
Pr. ERM 605 and 24 hours of M.Ed. course work, or permission of instructor
Methods and skills for designing, conducting, interpreting, and applying action research, the systematic inquiry into curriculum, instruction, teaching, and learning. Course focuses on reflective inquiry and practical application of findings. May be repeated once for credit.

680a Clinical Experience in Teaching (6)
Pr. admission to M.Ed., Classroom Practice Track program, or permission of department
Supervised in-school clinical experience. Required full-time teaching.

680b Clinical Experience in Teaching Seminar (3)
Pr. admission to M.Ed., Classroom Practice Track program, or permission of department
Seminar focused on the ways students learn within the classroom and community context.

685 Supervision: Theory and Concepts (3:3)
Theories and practices in educational supervision; curriculum development and coordination, staff development and assessment, and organizational alternatives designed to improve both student and teaching functioning in schools.

688 Contemporary Problems Seminar (1-3)
Pr. advanced master’s or doctoral standing, or permission of instructor
Specific course title identified each semester by subscript (e.g., Contemporary Problems Seminar; Issues in Professional Negotiations). May be repeated for credit when topic varies.

690 Internship in Higher Education (3)
Pr. must have completed 18 semester hours in the Plan of Study and permission of instructor
Provides experiential learning opportunities in six functional areas of higher education. Learners engage in professional work activities and explore career interests within business, student, and academic affairs, among others. (Graded on S-U basis)

692 Independent Study (1-4)
Pr. permission of instructor
Guided readings, research, and individual project work under direction of a staff member.

698 Human Development (3:3)
Selected works in social and biological sciences to determine basic psychological foundations of learning and human behavior and their application to the helping professions.

699 Thesis (1-6)
Individual guidance and direction in the development of a research problem in the master’s degree thesis.

701 Human Development and Education (3:3)
Pr. 698 or permission of instructor
Major conceptual approaches to human development, current developmental research topics and their application to education.

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

726 Seminar in Curriculum Development in Middle Grades Education (3:3)
Pr. master’s degree in middle grades education; 644, 654, 655 or permission of instructor
Current research in young adolescent development and curriculum development as it relates to improving middle grades education.

730 Qualitative Research Design in Curriculum and Instruction (3:3)
Pr. 750 or permission of instructor
Qualitative research design in curriculum and instruction, including its history, philosophy and nature. Includes discussion of types of qualitative research, assessment issues, and critical reading of qualitative research.

745 Higher Education: Equity, Inclusion, and Learning (3:3)
Review of theory and research on inclusion and equity in postsecondary education. Addresses skills, knowledge, and dispositions necessary for establishing culturally responsive learning environments.

748 Seminar in Student Cognition and Motivation (3:3)
Pr. 669 or permission of instructor
Current research findings in cognition and motivation as they apply to the development of various instructional approaches and activities.
750 Doctoral Proseminar in Curriculum and Instruction: Teacher Education or Higher Education (3:3)
Pr. admission to Ph.D. in curriculum and teaching
Overview of doctoral program in Teacher Education and Development or Higher Education. Introduction to inquiry and research design in curriculum, instruction, and higher education. First course in program.

751 Higher Education: Economics and Finance (3:3)
Pr. 606 and admission to Ph.D. in higher education, or permission of the instructor
Overview of economic context and implications for theory, policy, and practice. In-depth analysis of fiscal resources, expenditures, strategic planning, and resource allocation. Special emphasis on ethical decision-making and fiscal responsibility.

752 The Law of Higher Education (3:3)
Pr. 606 and admission to Ph.D. in higher education, or permission of instructor
Overview of law and implications for decision-making in higher education. Focus on constitutional, statutory, and case law. Prepares higher education leaders to protect individual rights of faculty, students, others.

753 Accountability in Higher Education (3:3)
Pr. 661 or permission of instructor
Overview of accountability issues related to assessment, accreditation, institutional effectiveness, and self-study processes for graduate students and faculty interested in teaching or administrative positions in postsecondary education.

754 Internship in Curriculum and Instructional Leadership (3:0:10)
Pr. minimum of 24 semester hours from courses included in the doctoral student’s program of study including the following or their equivalent: 654, 655, 685; written verification by the student’s doctoral committee that student is ready for internship
Directed internship in an appropriate curriculum and instructional leadership setting. Supervision provided by departmental faculty in collaboration with field-based mentors. May be repeated once for credit.

756 Public Policy in Higher Education (3:3)
Pr. 661 or permission of instructor
Overview of the roles of principal forces and actors in formulating federal and state policies related to access, affordability, and accountability in postsecondary education.

759 College Teaching Practicum (3:3)
Pr. advanced standing in the curriculum and teaching doctoral track and permission of instructor
Supervised experiences in teaching college level course(s).

765 Research in Equity Education (3:3)
Pr. 645 and 730 or other qualitative research methodology course or permission of instructor
Examines the research knowledgebase in equity education and facilitates the design of culturally sensitive studies. Particular emphasis on race/ethnicity, gender, and class issues related to the design of research studies that affirm equity and perpetuate social justice.

775 Directed Doctoral Research (3)
Pr. doctoral students in CUI and permission of instructor
Individual work on dissertation research problems: collection analysis, critical review, integration, and interpretation of research literature on a topic pertinent to the student’s dissertation. May be repeated once for credit.

785 Research on Teacher Education (3:3)
In-depth study of current trends and issues in research on teaching.

790 Practicum: Applied Research in Higher Education (3)
Pr. must have completed 36 semester hours in the Doctoral Plan of Study (including one methods course in qualitative research and one methods course in quantitative research) and permission of instructor
Complete an applied research project that addresses specific information needs of the cooperating institution. Learn to uphold the standards of the selected research methods. May be repeated once for credit. (Graded on S-U basis)

799 Dissertation (1-12)
Individual direction in the development and execution of a doctoral dissertation.

801 Thesis Extension (1-3)

802 Dissertation Extension (1-3)

803 Research Extension (1-3)
The Department of Dance offers two graduate degrees, Master of Fine Arts and Master of Arts. Admission to graduate study in dance is on the basis of competence as evidenced by the undergraduate record and demonstrated proficiency and potential in the field of dance.

The 60 hour Master of Fine Arts program is normally completed over three years and culminates in a dance concert or project designed and carried out by the student with the support of faculty. Concentrations in choreography or design are available. Students develop and clarify their choreographic voices and deepen their understandings of dance making as a personal, aesthetic, cultural, and social process and product through guided investigations of choreographic methods, practices in coaching and performing movement, and theories and practices in dance research. The M.F.A. is a terminal degree commonly held by studio teaching faculty at the university level.

The 36 hour Master of Arts in dance offers concentrations in choreography, design, dance education, or dance theories and practices. The 36-39 hour M.A. in dance education leads to eligibility for North Carolina licensure for teaching K-12 dance and is available in a largely distance format.
The Department of Dance offers a graduate program leading to a 60 hour Master of Fine Arts degree with concentrations in choreography or design.

CHOREOGRAPHY CONCENTRATION (60 HOURS)

Required Courses (23 hours)
- DCE 555 Technology in the Creation and Preservation of Dance Works (3)
- DCE 610 Dance: The Phenomenon I (3)
- DCE 622 Dance Criticism (3)
- DCE 624 Movement for Dance (three times - 3)
- DCE 630 Advanced Body Theories and Practices in Dance (4)
- DCE 651 Studio Problems in Choreography (four times - 12)

Pedagogy (3 hours)
For departmental Teaching Assistants and those interested in teaching in higher education:
- DCE 661 Dance Pedagogy in Higher Education (2)
- DCE 662 Practicum in Teaching Dance (1)

For those interested in teaching K-12:
- DCE 557 Dance Pedagogy for Ages 3-18 (3)

Electives (23 hours)
Students select 23 hours of electives, including 17 hours in dance and 6 hours outside of the department.

Culminating Project (6 hours) (Capstone Experience)
For a full-length concert or equivalent artistic presentation:
- DCE 697 Master Production (6)

For significant research that directly informs a major choreographic work (or series of works) equivalent to half a concert:
- DCE 697 Master Production (3)
- DCE 698 Field Project in Dance (3)

Program Progression and Reviews
All students are reviewed by the dance faculty in the Spring semester of their first year. Faculty assess student progress and promise in their degree program and make recommendations for improvement. Students receive a letter from the Director of Graduate Study reporting faculty recommendations.

At the completion of at least 30 graduate credit hours, including three semesters of practica in the area of emphasis (DCE 651) and removal of all deficiencies, M.F.A. students must undergo portfolio review and apply for admission to candidacy. Admission is based on a variety of criteria. A minimum overall 3.0 GPA is required to be admitted to candidacy. Students will submit a portfolio of work to the Director of Graduate Study, usually by December 1 of their third semester of study, for review by the Graduate Committee. See the Department’s Graduate Handbook for portfolio contents and process.

Once the student has passed candidacy and been in residence for at least two semesters, the student assembles a committee of at least three members of the Graduate Dance Faculty to review his or her culminating concert or project proposal. Proposal guidelines are included in the Graduate Handbook. When the Committee has approved the proposal, the student may register for DCE 697 or 698 and work towards culmination of study.

DESIGN CONCENTRATION (60 HOURS)

Required Courses (33 hours)
- DCE 610 Dance: The Phenomenon I (3)
- DCE 611 Dance: The Phenomenon II (3)
- DCE 555 Technology in the Creation and Preservation of Dance Works (3)
- DCE 624 Movement for Dance (3)
- DCE 650 Dance Design Practicum (three times - 9)

Additional courses in the arts outside the Department (6)

Electives (27 hours)
Students select 27 hours of electives, 9 hours of which must be outside of the department.

Culminating Project (6 hours) (Capstone Experience)
- DCE 697 Master Production (6)

Program Progression and Reviews
See details under Choreography Concentration.
The Department of Dance offers a graduate program of study (available through primarily online courses) leading to a Master of Arts degree in dance education that provides eligibility for “M” licensure. The 36 hour Teacher Leadership Track is designed for students who do hold North Carolina Standard Professional I licensure in dance. The 39-hour Classroom Practice Track is designed for students who do not hold North Carolina Standard Professional I licensure in dance.

*For 2008-2009, no new degree candidates will be accepted to the Master of Arts degree in dance education without “M” licensure eligibility.

Required Courses for Both Tracks
(33 hours)
- DCE 560 The Dancer’s Body (3)
- DCE 610 Dance: The Phenomenon I (3)
- DCE 611 Dance: The Phenomenon II (3)
- DCE 646 Reflective Practice in P-12 Dance Education (3)
- DCE 657 Advanced Methods in P-12 Dance Education (3)
- DCE 660 Issues in Planning the Dance Curriculum (3)
- DCE 693 Portfolio in K-12 Dance Education (6)
- DCE elective approved by committee (3)
- CUI 545 Diverse Learners (3)
- CUI 669 Educational Implications of Learning and Developmental Theory (3)
- Undergraduate credits in dance technique (4) (or equivalent in approved professional study)

*Culminating Project (Capstone Experience)

Additional Required Track Courses

Classroom Practice Track (6 hours)
- DCE 663 PreK-12 Dance Education Practicum (3)
- CUI 535 Literacy in the Content Area (3)

Students must present evidence in DCE 663 that they have met all standards required for North Carolina Standard Professional I licensure before beginning DCE 693.

Teacher Leadership Track (3 hours)
- DCE 664 Action Research in Dance Education (3) or CUI 675 Teacher as Researcher (3)

Reviews
All students are reviewed by the dance faculty when 12 hours of graduate course work are complete. Faculty assess student progress and promise in their degree program and make recommendations for improvement. Students receive a letter from the Director of Graduate Study reporting faculty recommendations.

Once students have completed at least two-thirds of the course work, including DCE 610, and they have achieved a minimum overall 3.0 GPA, a Portfolio and Project Proposal Review is scheduled. Students must pass this Review before they can begin their culminating projects. Guidelines are listed in the Graduate Handbook.

Requirements for the Master of Arts in Dance with Concentrations in Choreography, Design, or Dance Theories and Practices

The Department of Dance offers a graduate program of study leading to a 36 hour Master of Arts degree in dance with concentrations in choreography, design, or dance theories and practices.

CHOREOGRAPHY CONCENTRATION

Required Courses (24 hours)
- DCE 555 Technology in the Creation and Preservation of Dance Works (3)
- DCE 610 Dance: The Phenomenon I (3)
- DCE 622 Dance Criticism (3)
- DCE 624 Movement for Dance (two times - 2)
- DCE 630 Advanced Body Theories and Practices in Dance (4)
- DCE 651 Studio Problems in Choreography (three times - 9)

Electives (9 hours)
Students select 9 hours of electives, at least 4 hours of which are in dance.

DESIGN CONCENTRATION

Required Courses (17 hours)
- DCE 555 Technology in the Creation and Preservation of Dance Works (3)
- DCE 610 Dance: The Phenomenon I (3)
- DCE 611 Dance: The Phenomenon II (3)
- DCE 624 Movement for Dance (two times - 2)
- DCE 650 Dance Design Practicum (two times - 6)

Electives (16 hours)
Students select 10 hours of electives, at least 4 hours of which are in dance and 6 hours are in visual arts and/or theatre.
Culminating Project (3 hours) (Capstone Experience)

DCE 698  Project in Dance (3)

DANCE THEORIES AND PRACTICES CONCENTRATION

Required Courses (18 hours)

DCE 505  Contemporary Dance: Aesthetic and Cultural Practice (3)
Pr. satisfactory completion of the dance history requirement for admission to a graduate dance program
Cultural issues and aesthetic priorities of dance in the late postmodern world, especially contemporary dance. Present ideas about and debate issues concerning contemporary dance. (Spring)

DCE 560  The Dancer's Body (3) or DCE 660  Issues in Planning the Dance Curriculum (3)

DCE 610  Dance: The Phenomenon I (3)
DCE 611  Dance: The Phenomenon II (3)
DCE 695  Independent Study in major area of interest in dance or course work for the Graduate Certificate in Women's and Gender Studies (6)

Electives (15 hours)
Students select 15 hours of electives. Research course outside department recommended.

DCE 589  Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

DCE 610  Dance: The Phenomenon I (3:3)
Pr. admission to graduate degree program in dance and completion of undergraduate dance history prerequisite
An exploration and confrontation with the nature and meaning of dance as an art form. (Fall)

DCE 611  Dance: The Phenomenon II (3:3)
Pr. grade of B or better in 610 or approval of instructor
In-depth personal inquiry into the nature and making of meaning for a selected area of concern in dance. Includes significant individual project. (Spring)

DCE 620  Music for Dancers (3:3)
The relationship of sound and movement, accompaniment and dance, accompanist/composer and teacher/choreographer, and bringing these understandings to practical application.

DCE 621  Administration of Dance (3:3)
Introduction to the business of dance including aspects of grant writing, company development and management, public relations, concert production and presentation, and touring.

DCE 622  Dance Criticism (3:3)
Current theories, materials, and techniques of dance criticism. Group study, choreographic evaluation, and individual projects related to critical writing in dance.

REVIEWS FOR ALL CONCENTRATIONS

All students are reviewed by the dance faculty when 12 hours of graduate course work are complete. Faculty assess student progress and promise in their degree program and make recommendations for improvement.

Once students have completed at least two-thirds of the course work and DCE 610 and have achieved a minimum overall 3.0 GPA, a Portfolio and Project Proposal Review is scheduled. Students must pass this Review before they can begin their culminating projects. Guidelines are listed in the Graduate Handbook.
Movement for Dance (1:0:5)
Pr. graduate standing in dance
Opportunities for dancers to practice their craft, developing working knowledge of different styles of contemporary dance, ballet, improvisation, and other movement forms. Style and emphasis will vary each semester. May be repeated for a maximum of six credits. (Graded on S-U basis)

Advanced Body Theories and Practices in Dance (4:2:2)
Pr. two semesters of dance technique and 340 or equivalent; or permission of instructor
Advanced study of body theories and practices in dance. Topics include sociocultural constructions of dancer bodies, somatic theory, body pedagogies, and somatic practices related to dance performance, choreography, and pedagogy.

Reflective Practice in P-12 Dance Education (3:3)
Pr. admission to M.A. in dance education
Planning and implementation of projects related to master’s standards for dance licensure, with ongoing reflection and dialogue. (Spring)

Dance Design Practicum (3:3)
Pr. 555 and graduate standing in dance
Advanced practicum in the technical, aesthetic and theoretical aspects of dance design.

Issues in Planning the Dance Curriculum (3:3)
Pr. graduate standing in dance
Curriculum planning for dance in educational settings. Involvement with issues in the field. (Offered alternate years.) Online only.

Dance Pedagogy in Higher Education (2:2)
Pr. graduate standing in dance or permission of instructor(s)
Consideration of pedagogical issues and strategies in teaching dance studio and theory courses at the undergraduate college/university level.

Practicum in Teaching Dance (1-3)
Pr. graduate standing in dance; or permission of instructor and previous teaching experience; or 18 graduate semester hours in dance
Observation of dance teaching and supervised practice. May be repeated for a maximum of three credits. (Graded on S-U basis)

PreK-12 Dance Education Practicum (3)
Pr. admission to graduate program in dance
Development of a portfolio demonstrating competencies required for Standard Professional I licensure. May be repeated for a maximum of 6 credits.

Action Research in Dance Education (3)
Pr. 611
Review of recent research relevant to dance education; planning, implementation, and evaluation of action research project. Online only.

Problems Seminar (3:3)
Pr. graduate standing in dance
Specific course title identified each semester by subscript, e.g., Problems Seminar: Dance as Therapy. May be repeated for credit when topic varies.

Performance Theory and Practice (2:3)
Pr. graduate standing in dance or permission of instructor
Rehearsal and performance of work designed to challenge graduate students at their level of performance. Choreography by graduate faculty. May be taken three times for credit.

Practicum in Dance Performance (1-3)
Pr. graduate standing in dance or permission of the instructor
Rehearsal and performance of choreography created or reconstructed by faculty or guest artist. One credit per 60 rehearsal hours. Only one credit per choreographer. May be repeated for three credits. (Graded on S-U basis)

Portfolio in K-12 Dance Education (1-6)
Pr. satisfactory completion of (a) all required courses for the M.A. in dance with a dance education (M license) concentration, (b) Portfolio Review, and (c) at least two years full-time (or equivalent) teaching K-12 dance.
Development of teaching portfolio to meet specific requirements for M licensure in dance. Students may substitute National Board Professional Teaching Standards portfolio with prior permission. May be repeated for a maximum of 6 semester hours. (Graded S-U basis)

Independent Study (1-3)
Pr. demonstrated competency for independent work and consent of departmental academic adviser and the instructor
Intensive study in an area of special interest in dance.

Master Production in Dance (1-6)
Pr. admission to candidacy, successful completion of proposal Research, development, and execution of the choreography for a major concert or the lighting design for two concerts, or the equivalent. Credit may be divided over two or more semesters (Graded S-U basis)

Field Project in Dance (1-6)
Pr. M.A. students and M.F.A. candidates with approved project proposals
Research, development, and completion of approved project which substantially contributes to mastery in M.F.A. or M.A. concentration and integrates knowledge gained through the degree program. (Graded on S-U basis)

Thesis (1-6)
Pr. satisfactory completion of portfolio review
(Graded on S-U basis)

Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

Thesis Extension (1-3)

Research Extension (1-3)
Professors
Stuart D. Allen, Ph.D.
  Macroeconomics, monetary economics (Head of Department).
Bruce J. Caldwell, Ph.D.
  History of economic thought, economic methodology (Joe Rosenthal Excellence Professor).
Albert N. Link, Ph.D.
  R&D, innovation and science policy, productivity analysis.
John L. Neufeld, Ph.D.
  Energy economics, microeconomics, economic history.
David Ribar, Ph.D.
  Labor economics, demographic economics, applied econometrics, microeconomics.
Christopher J. Ruhm, Ph.D.
  Labor and health economics, applied microeconomics (Jefferson-Pilot Excellence Professor).

Associate Professors
Peter M. Bearse, Ph.D.
  Econometrics, public economics.
Stephen Layson, Ph.D.
  Microeconomic theory, economics of crime.
Dennis P. Leyden, Ph.D.
  Public finance, economics of public education, public choice.
Donald L. McCrickard, Ph.D.
  International trade and finance, macroeconomics.
Kenneth A. Snowden, Jr., Ph.D.
  Economic history, financial economics, macroeconomics (Director of Graduate Study).

Assistant Professors
Stephen P. Holland, Ph.D.
  Natural resources and environmental economics, industrial organization.
Dan T. Rosenbaum, Ph.D.
  Labor economics, public economics, health economics, applied econometrics.
Christopher Swann, Ph.D.
  Labor economics, applied economics.

Instructor
Michelle E. Sheran, Ph.D.
  Labor economics, applied microeconomics.

Mission Statement
The mission of the Department of Economics supports the teaching, research and service mission of the University and the Bryan School of Business and Economics. We strive to offer professional business and liberal arts education that prepares students to enter the competitive global job market, to enhance their careers, and to earn graduate and professional degrees; to provide quality teaching in our mutually supportive undergraduate and graduate programs; to gain national recognition for our scholarship and our graduate programs; and to use our expertise and service to encourage economic understanding among North Carolina citizens and to foster economic development within the Triad and the state.

The Department of Economics offers the Master of Arts in applied economics, the Doctor of Philosophy in economics and an innovative, combined program that leads to both a Master of Arts and a Doctor of Philosophy in economics. The M.A. and Ph.D. programs are distinct, professionally-oriented, terminal degree programs. The two curricula are closely integrated, however, and mutually support our innovative combined M.A./Ph.D. degree track. The department’s faculty has an established national reputation for scholarship in applied microeconomic research; its graduate programs are specially focused on developing the theoretical and econometric tools required to formulate and interpret quality empirical research and the data handling and communication.
The Department of Economics offers a graduate program of study leading to a Master of Arts degree in applied economics. Students may choose the 35-hour course-based track (Option 1) that requires a research writing experience and the capstone data analysis courses or the 30-hour research track (Option 2) that requires a literature review and a major research paper. The M.A. in applied economics with a concentration in financial economics is a variant of Option 1.

OPTION 1 (35 HOURS)

Core Knowledge Requirement (17 hours)
- ECO 619 Mathematical Economics (3)
- ECO 641 Microeconomics I (3)
- ECO 642 Microeconomics II (2)
- ECO 644 Econometric Methods (3)
- ECO 646 Macroeconomics I (3)

Research Specialization (4 hours)
Students must take one of the following:
- ECO 721 Empirical Microeconomics (4)
- ECO 722 Time Series and Forecasting (4)

Electives (6 hours)
 Electives may be earned with 500-, 600-, or 700-level economics courses or with approved graduate courses taken outside the department. Students are encouraged to take both ECO 721 and ECO 722, so one becomes an elective. Other electives in economics include:
- ECO 510 Law and Economics (3)
- ECO 518 American Economic History: 1865 to Present (3)
- ECO 523 Topics in Public Policy (3)
- ECO 555 History of Economic Thought (3)
- ECO 723 Predictive Data Mining (1-4)
- ECO 731 Applied Policy Methods (2)
- ECO 732 Appraising Economics (2)
- ECO 733 Special Topics in Applied Public Policy (2)
- ECO 741 Advanced Mathematical Economics (3)
- ECO 742 Advanced Microeconomic Theory (3)
- ECO 745 Advanced Econometric Theory (3)

Students may also take approved courses in finance (MBA) or information systems (ISM).
Research Writing Requirement (2 hours)
Students must take one of the following:
ECO 694 Literature Review Seminar (2)
ECO 731 Applied Policy Methods (2)
ECO 732 Appraising Economics (2)

Research Seminars (6 hours) (Capstone Experience)
ECO 725 Data Methods in Economics (3)
ECO 726 Data Project in Economics (3)

Qualifying Examinations
As a requirement for graduation each student must successfully complete two qualifying examinations—one in economic theory and one in econometrics. Both examinations are administered during the first two weeks of the spring semester, and students must pass each with a minimum grade of B- (2.7). Students who do not pass either or both examinations may retake the examination(s) one time.

Concentration in Financial Economics
To complete a concentration in financial economics, students within the 35 hour Option 1 program must take ECO 722 to satisfy the research specialization requirement and 6 elective hours chosen from approved MBA finance courses or ECO 723.

The Department of Economics offers an integrated program of study that leads to both a Master of Arts in applied economics and a Doctor of Philosophy in economics for well-qualified applicants with a baccalaureate degree in economics. Students may apply directly to the combined M.A./Ph.D. program or at any time while enrolled in the M.A. program. Within this 81 hour program the student completes the requirements of Option 1 of the M.A. program (see above) and the requirements of the 63 hour Ph.D. program outlined below. Courses marked (*) below fulfill the requirements for the 35 hour M.A. degree program.

Required Courses
Economic Theory and Mathematical Economics (15 hours)
*ECO 619 Mathematical Economics (3)
*ECO 641 Microeconomics I (3)
*ECO 642 Microeconomics II (2)
*ECO 741 Advanced Mathematical Economics (3) (M.A. elective)
*ECO 742 Advanced Microeconomic Theory (3) (substitutes for M.A. requirement ECO 642)

Econometrics (17 hours)
*ECO 643 Econometric Methods (3)
*ECO 644 Econometric Theory (3)
*ECO 745 Advanced Econometric Theory (3) (M.A. elective)
ECO 761 Advanced Econometrics I (2)
ECO 762 Advanced Econometrics II (2)
ECO 763 Applied Econometrics (4)

Research Methods (12 hours)
*ECO 721 Empirical Microeconomics (4)
*ECO 725 Data Methods in Economics (3)
*ECO 726 Data Project in Economics (3)

Plus one of the following:
*ECO 731 Applied Policy Methods (2)
*ECO 732 Appraising Economics (2)

Applied Economic Theory (8 hours)
Students are required to take four courses from the following:
ECO 754 Applied Theory I: Game Theory (2)
ECO 755 Applied Theory II: Economics of Information (2)
ECO 756 Applied Theory III: Intertemporal Economics (2)
ECO 757 Applied Theory IV: Public Goods (2)
ECO 758 Applied Theory V: Directed Study (2)

Requirements for the Master of Arts/Doctor of Philosophy in Economics

Core Knowledge Requirement (17 hours)
ECO 619 Mathematical Economics (3)
ECO 641 Microeconomics I (3)
ECO 642 Microeconomics II (2)
ECO 643 Econometric Methods (3)
ECO 644 Econometric Theory (3)
ECO 646 Macroeconomics I (3)

Research Specialization (4 hours)
ECO 721 Empirical Microeconomics (4) or ECO 722 Time Series and Forecasting (4)

Electives (3 hours)
Students choose electives from the same set specified above for the Option 1 track.

Research Seminars (6 hours) (Capstone Experience)
ECO 694 Literature Review Seminar (2)
ECO 695 Seminar and Research in Economics II (4)
The Department of Economics offers a 63 hour graduate program of study leading to a Doctor of Philosophy in economics for students who have earned a master’s degree in economics at UNCG or another institution. Up to 17 of the 63 hours may be accepted from UNCG’s M.A. in economics program or transferred from a comparable master’s program. Students who enter the program with a master’s degree from another institution may be required to take additional courses if their prior degree does not adequately cover the required material in the core requirements of the UNCG M.A. program.

For the Ph.D. degree, every student is required to successfully complete a qualifying examination in economic theory and econometrics after completion of the Ph.D. core. The qualifying examinations are administered in the summer after completion of the first year of course work, and students who do not pass this examination may retake it once the following December.

Ph.D. students must also pass a written and oral preliminary examination administered by their dissertation committee before being admitted to candidacy for the doctoral degree and before registering for dissertation credit. The preliminary examination is administered after the student has completed the required field courses.

Dissertation Research (12 hours)
Each candidate for a doctoral degree must prepare and present a dissertation that reflects an independent investigation of an economic topic that is acceptable in form and content to the student’s advisory/dissertation committee and The Graduate School.

PhD Requirements for the Doctor of Philosophy in Economics

The Department of Economics offers a 63 hour graduate program of study leading to a Doctor of Philosophy in economics for students who have earned a master’s degree in economics at UNCG or another institution. Up to 17 of the 63 hours may be accepted from UNCG’s M.A. in economics program or transferred from a comparable master’s program. Students who enter the program with a master’s degree from another institution may be required to take additional courses if their prior degree does not adequately cover the required material in the core requirements of the UNCG M.A. program as stated above.

Required Courses

Microeconomic and Econometric Theory (9 hours)
- ECO 741 Advanced Mathematical Economics (3)
- ECO 742 Advanced Microeconomic Theory (3)
- ECO 745 Advanced Econometric Theory (3)

Applied Economic Theory (8 hours)
Students are required to take four courses from the following:
- ECO 754 Applied Theory I: Game Theory (2)
- ECO 755 Applied Theory II: Economics of Information (2)
- ECO 756 Applied Theory III: Intertemporal Economics (2)
- ECO 757 Applied Theory IV: Public Goods (2)
- ECO 758 Applied Theory V: Directed Study (2)

Advanced Econometrics (8 hours)
- ECO 761 Advanced Econometrics I (2)
- ECO 762 Advanced Econometrics II (2)
- ECO 763 Applied Econometrics (4)

Research Methods (9 hours)
- ECO 721 Empirical Microeconomics (4)
- ECO 725 Data Methods in Economics (3)

Plus one of the following:
- ECO 731 Applied Policy Methods (2)
- ECO 732 Appraising Economics (2)

Empirical Field Courses (8 hours)
Students must complete at least eight (8) hours chosen from:
- ECO 771 Labor Economics (2-6)
- ECO 772 Public Economics (2-6)
- ECO 773 Health Economics (2-6)
- ECO 775 Independent Field Course (2-4)

Supervised Independent Field Research (9 hours)
- ECO 797 Seminar in Empirical Economics (3)
- ECO 798 Seminar in Economic Research (6)

Comprehensive Examinations
For the Ph.D. degree, every student is required to successfully complete a qualifying examination in economic theory and econometrics after completion of the Ph.D. core. The qualifying examinations are
administered in the summer after completion of the first year of course work, and students who do not pass this examination may retake it once the following December.

Ph.D. students must also pass a written and oral preliminary examination administered by their dissertation committee before being admitted to candidacy for the doctoral degree and before registering for dissertation credit. The preliminary examination is administered after the student has completed the required field courses.

**Economics Courses**

510 Law and Economics (3:3)  
*Pr. 301*  
Applies economic theory to the analysis of law. Presents framework for analysis, examines property rights, studies public regulation, and examines anti-trust laws.

513 Directed Studies in Economics I (1-3)  
*Pr. 21 semester hours of economics and permission of instructor*  
Individual study of economic problems of special interest to the student. Regular conferences with instructor required.

517 American Economic History: Colonial Times to 1865 (3:3)  
*Pr. 201 or permission of instructor*  
Evolution of the American economy through the Civil War. Emphasis on sources of economic growth and economic welfare. (Same as HIS 517)

518 American Economic History: 1865 to Present (3:3)  
*Pr. 201 or permission of instructor*  
Evolution of the American economy from the Civil War to the present. Emphasis on economic performance through time measured against the goals of full employment, price stability, and rapid growth. (Same as HIS 518)

523 Topics in Public Policy (3:3)  
*Pr. 301*  
Examination of market failure, public goods, economic efficiency, income incidence, allocative effects, and public policy. (Fall)

530 Urban and Regional Economics (3:3)  
*Pr. 201 or permission of instructor*  
Application of the analytical tools of economics to explain the economic organization of cities, metropolitan areas, and larger regions and to deal with their economic problems. Problem areas analyzed include growth, poverty, housing, transportation.

553 Economic Forecasting (3:3)  
*Pr. 351 or permission of instructor*  
Forecasting economic trends and fluctuations. Applications of regression analysis, exponential smoothing techniques, and Box-Jenkins procedures to forecast such economic variables as gross national product and unemployment levels.

555 History of Economic Thought (3:3)  
*Pr. 201 or equivalent*  
Main currents in the evolution of economic thought, with emphasis on the classical and neoclassical schools and developments in economic interrelations in a market system.

**Dissertation Research** (12 hours)  
Each candidate for a doctoral degree must prepare and present a dissertation that reflects an independent investigation of an economic topic that is acceptable in form and content to the student’s advisory/dissertation committee and The Graduate School.

570 Topics in Labor Economics (3:3)  
*Pr. 301 or permission of instructor*  
Advanced theory and research related to labor supply and demand theory, investments in human capital, job search, migration, unemployment, theories of discrimination, income distribution theory, and public policy.

575 Industrial Organization and Public Policy (3:3)  
*Pr. 301 or permission of instructor*  
Theoretical and empirical study of firms relative to their rivals, suppliers, and customers. Use of theory and industry studies to understand the nature of competition and consequences of imperfect competition.

589 Experimental Course  
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

613 Directed Studies in Economics II (1-3)  
*Pr. graduate admission and permission of the Director of Graduate Study in economics and the professor who will supervise the study*  
Individual study of an advanced topic in economics. Regular conferences with the instructor are required.

619 Mathematical Economics (3:3)  
*Pr. 301, 319 or equivalent*  
Reviews statistics and probability, matrix algebra and optimization and introduces theory and applications in integral calculus and differential equations.

641 Microeconomics I (3:3)  
*Pr. 301, 619, or permission of instructor*  
Theory of consumer and firm behavior under certainty and uncertainty including exchange, production, income distribution, market structure and welfare economics.

642 Microeconomics II (2:2)  
*Pr. 641 or permission of instructor*  
An introduction to game theory, with an emphasis on real-world applications, empirical tests, and perfect information. Subjects covered include timing, equilibrium concepts, strategies, payoffs, and solution techniques.
643 Econometric Methods (3:3)  
Pr. 351, 619, or permission of instructor  
Introduction to advanced econometric applications. Topics include seemingly unrelated regressions, simultaneous equations, identification, two-stage least squares, probit, tobit, sample selection models; application to economic data using Stata or other software.

644 Econometric Theory (3:3)  
Pr. 643 or permission of instructor  
Theory of econometric models; topics include the standard linear model, classical assumptions, violations of assumptions, hypothesis testing, and corrective procedures; application to economic data using Stata or other statistical software.

646 Macroeconomics (3:3)  
Pr. 619, 643, or permission of instructor  
Advanced theory of aggregate economic activity. Economic models developed to explain economic growth, activity, and fluctuations based on classical, Keynesian, monetarist, and new classical schools of thought.

652 Advanced Economic and Business Statistics I (1.5-3)  
Pr. MBA 600, MBA 610, or permission of instructor  
Topics will include regression analysis, analysis of variance, and nonparametric tests. SAS is employed.

691 Economics Internship (1-3)  
Pr. permission of the M.A. Program Director  
Individual course of study consisting of an applied economics and/or data analysis component and written work that complements the program’s academic work. Supervised by faculty and an appropriate manager. May be repeated. Maximum of 3 credit hours may apply toward M.A. degree.

694 Literature Review Seminar (2:2)  
Pr. 644, 646, or permission of instructor  
Students present their proposed research project, write a literature review, and present their on-going research.

695 Seminar and Research in Economics II (4:4)  
Pr. permission of Director of Graduate Study  
Supervised independent research culminating in the completion of an economic research paper or project. (Graded on S-U basis)

699 Thesis (1-6)

711 Experimental Course  
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

712 Directed Studies in Economics III (1-3)  
Pr. permission of Director of Graduate Study  
Individual study of an advanced topic in economics. Regular conferences with the instructor are required. May be repeated for credit.

721 Empirical Microeconomics (1-4)  
Pr. 641, 643, 644, or permission of instructor  
Examines empirical investigations of advanced microeconomic theory including experimental and nonexperimental designs and natural experiments. Applications vary by semester but are typically drawn from labor, health, public and financial economics. May be repeated for credit.

722 Time Series and Forecasting (1-4)  
Pr. 643, 644, 646, or permission of instructor  
Students learn to analyze and forecast time series data. Topics include stochastic linear difference equations, tests for trends and stationarity, and ARIMA modeling. Application to economic data emphasized. May be repeated for credit.

723 Predictive Data Mining (1-4)  
Pr. 643 and 644 or permission of instructor  
Provides a working knowledge of statistical tools important to the emerging and practically relevant field of predictive data mining and the discovery of patterns in big data sets. May be repeated for credit.

725 Data Methods in Economics (3:3)  
Pr. 721 or permission of instructor  
Advanced techniques in data preparation; topics include data formats, error checking, merging data, large data sets, and missing observations. Students work extensively with SAS and STATA in the UNIX environment.

726 Data Project in Economics (3:3)  
Coreq. 725 or permission of instructor  
A supervised empirical project. Students identify research questions, develop empirical models and assemble data, test models and their predictions, and present results and interpretations orally and in writing.

731 Applied Policy Methods (2:2)  
Pr. 642 and 644 or permission of instructor  
Provides applied foundation for policy study with emphasis on an economic efficiency perspective including history of policy analysis, market and government failure, and alternative methods for policy analysis.

732 Appraising Economics (2:2)  
Pr. 642 and 644 or permission of instructor  
Examines historical and methodological issues in applied economics research. Topics include the limitations of theoretical and empirical analysis, the question of progress in economics, and alternative approaches to economic analysis.

733 Special Topics in Applied Public Policy (2:2)  
Pr. 731 or permission of instructor  
Application of economic theory and policy evaluation tools to a specific public policy issue. May be repeated for credit when topic varies.

741 Advanced Mathematical Economics (3:3)  
Pr. 619, 641, or permission of instructor  
Mathematical concepts and techniques that are used in advanced economic theory. Material includes sets and functions, constrained and unconstrained programming, and difference and differential equations.

742 Advanced Microeconomic Theory (3:3)  
Coreq. 741 or permission of instructor  
Examines decision making by households and firms with an emphasis on the meaning and empirical interpretation of theoretical models. Topics include duality theory, general equilibrium, and welfare economics.

745 Advanced Econometric Theory (3:3)  
Coreq. 741 or permission of instructor  
Examines empirical investigations of advanced microeconomic theory including experimental and nonexperimental designs and natural experiments. Applications vary by semester but are typically drawn from labor, health, public and financial economics. May be repeated for credit.
754 Applied Theory I: Game Theory (2:2)
Pr. 742 or permission of instructor
Examines decision making under uncertainty and in strategic environments, covering probability and risk, expected utility, complete information games, and, more intensively, dynamic games and games of incomplete information.

755 Applied Theory II: Economics of Information (2:2)
Pr. 742 or permission of instructor
An examination of adverse selection and moral hazard in labor, insurance, and credit markets. Students learn the impact of information imperfections on individual choice, equilibrium, welfare, and regulation.

756 Applied Theory III: Intertemporal Economics (2:2)
Pr. 742 or permission of instructor
Examines concepts and tools required to build and understand dynamic economic models; theory is applied to topics including job search, human capital formation, savings decisions, and related policy issues.

757 Applied Theory IV: Public Goods (2:2)
Pr. 742 or permission of instructor
Analysis of public goods, non-market decision-making, and the implications for public policy. Emphasis on constraints imposed by such decision-making on policy and evaluation of policies under alternative normative criteria.

758 Applied Theory V: Directed Study (2:2)
Pr. 742 and permission of Director of Graduate Study
A faculty-directed, independent study of applied theory for a topic particularly related to a student’s primary field of interest. May replace ECO 755, 756, or 757.

761 Advanced Econometrics I (2:2)
Pr. 745 or permission of instructor

762 Advanced Econometrics II (2:2)
Pr. 745 or permission of instructor
Advanced methods in microeconometric analysis. Covers linear models for panel data with unobserved heterogeneity, count data, and duration analysis.

763 Applied Econometrics (1-4)
Pr. 745 or permission of instructor
Advanced methods in microeconometric policy evaluation. Issues include sample attrition, stratified sampling, and weighting procedures. Applications include estimating treatment effects, dealing with self-selection, and using duration analysis. Includes lab. May be repeated for credit.

771 Labor Economics (1-4)
Pr. 742 and 745, or permission of instructor
Examines the operation of the labor market, its institutions, and labor market policies. Topics include labor supply and demand, returns to education, family and household economics, wage inequality, and unions. May be repeated for credit.

772 Public Economics (1-4)
Pr. 742 and 745, or permission of instructor
Examines governmental expenditures and taxes and the constraints imposed on them within a federal, multilayered governmental structure. Topics include education, public health, housing and community development, infrastructure, and environmental regulation. May be repeated for credit.

773 Health Economics (1-4)
Pr. 742 and 745, or permission of instructor
Examines the market for health services and the production of health. Topics include the demand and supply for health care professionals, health insurance and financing, and regulation of medical markets. May be repeated for credit.

775 Independent Field Course (1-4)
Pr. 742, 745, and approval of Director of Graduate Study
A faculty-directed, independent study of a research area that is particularly related to a student’s primary field of interest. May be repeated for credit. May serve as one required major field course.

797 Seminar in Empirical Economics (3-6)
Pr. permission of Director of Graduate Study
A supervised seminar in which students formulate a major empirical research project and identify, collect, and assemble the data required to pursue that research. May be repeated for credit.

798 Seminar in Economic Research (3-6)
Pr. permission of Director of Graduate Study
A supervised research seminar in which students complete an extensive review of the literature in their chosen area of research specialization. May be repeated for credit.

799 Dissertation (1-12)
801 Thesis Extension (1-3)
802 Dissertation Extension (1-3)
803 Research Extension (1-3)
Graduate Programs in Educational Leadership and Cultural Foundations

- M.S.A.
- Ed.S.
  with concentrations in:
  - Advanced Principal and Superintendent
  - Entry-Level Principal and Superintendent
- Ed.D.
  with concentrations in:
  - Advanced Principal and Superintendent
  - Entry-Level Principal
  - Entry-Level Principal and Superintendent
  - Educational Leadership, Non-Administrative Licensure
- Ph.D.
  in Curriculum and Teaching with a concentration in Cultural Studies

Professors

Glenn M. Hudak, Ph.D.
Philosophy of education, critical pedagogy and the inner life, liberation theology and psychoanalytic thought in personal and social transformation, popular culture and education (Director of Graduate Study - Ph.D.).

Carol A. Mullen, Ph.D.
Mentorship theory and leadership practice, democratic leadership, faculty and graduate student development, curriculum studies, arts-based educational research (Chair of Department).

Ulrich C. Reitzug, Ed.D.
Schools as centers of inquiry and change, school renewal, democratic schooling, principals’ narratives and practices (Director of Graduate Study - Ed.S. and Ed.D.).

Svi Shapiro, Ed.D.
Social foundations of education, political change and educational policy, critical pedagogy and social theory, interpretive methods of research.

Associate Professors

Kathleen Casey, Ph.D.
Curriculum theory, poverty and education, political analysis of education, narrative research.

Carl Lashley, Ed.D.
The critical practice of administration, legal and ethical dimensions of education, special education administration, disability studies and policy.

Leila E. Villaverde, Ph.D.
Curriculum studies, cultural studies, feminist theory, aesthetics, social foundations of art, critical pedagogy.

Assistant Professors

Silvia C. Bettez, Ph.D.
Sociology of education; race, class, and gender intersections; critical multicultural education; qualitative research methods; and feminist gender studies.

Joanne R. Chesley, Ed.D.
Psychosocial dimensions of school alienation and school dropout, resilience theory, leadership behaviors that reduce school failure (Director of Graduate Study - M.S.A.).

Camille Wilson Cooper, Ph.D.
Educational policy, race and equity in school change, parental choice and involvement, feminist theory and methodology.

Charles P. Gause, Ph.D.
Cultural and critical perspectives of school leadership, popular culture and schooling, youth identity, black masculinity, gender construction, media representation.

Craig Peck, Ph.D.
History of education, the principalship, educational technology, educational reform, and social change.

Clinical Assistant Professor

Misti W. Williams, Ed.D.
School law, ethical decision making, instructional leadership, the principalship with an emphasis on retention and support of school leadership, schools as centers of inquiry.
The Department of Educational Leadership and Cultural Foundations is concerned with issues of educational theory, practice, policy, leadership, curriculum, and administration. The department offers studies that are interdisciplinary in focus and that emphasize questions of moral concern and the cultural context of education. There is a strong interest in issues of educational change as this relates to matters of human and social vision. Graduate degrees offered consist of master’s, educational specialist, and the Ed.D. in educational leadership, and a Ph.D. in curriculum and teaching with a concentration in cultural studies.

**MSA Requirements for the Master of School Administration**

The Department of Educational Leadership and Cultural Foundations offers a graduate program of study leading to a 42 hour Master of School Administration degree. The program is designed to prepare students for leadership at the school building level, especially for positions as principals and assistant principals. The degree meets state standards for North Carolina Level I administrator licensure (school principal). Courses are offered in the evenings during the Fall and Spring terms and at various times in the Summer term. Some courses are offered off campus or online.

**Required Courses (27 hours)**
- ELC 615 Foundations of Curriculum (3)
- ELC 616 Culturally Responsive Leadership (3)
- ELC 660 The School Principalship (3)
- ELC 662 Power, Politics, and Schools (3)
- ELC 670 Leadership for Teaching and Learning (3)
- ELC 673 Principal Leadership for Special Education (3)
- ELC 684 Teacher Rights, Recruitment, Retention, and Evaluation (3)
- ELC 687 The Legal and Ethical Foundations of Public Education (3)
- ELC 691 School Organization and Leadership (3)

**Research (3 hours)**
- ELC 675 Schools as Centers of Inquiry (3) or another appropriate research course selected with prior approval from the student’s advisor.

**Required Field Experiences (12 hours)**
Students are required to complete an internship experience that is the equivalent of one year of full-time administrative field experience.
- ELC 690 Supervised Practicum in Educational Administration (12)

**Capstone Experience**
Prior to program completion, each student will prepare a portfolio and analytic paper that describes and reflects on his/her development during the degree program. The student will participate in a capstone presentation that features her/his portfolio. The student’s advisor and one other faculty member will be responsible for reviewing and approving successful completion of the capstone experience.

**EdS Requirements for the Specialist in Education**

in Educational Leadership, Advanced and Entry-Level Concentrations

The Department of Educational Leadership and Cultural Foundations offers a graduate program of study leading to a 33-60 hour Specialist in Education degree in educational leadership.

**ADVANCED PRINCIPAL AND SUPERINTENDENT CONCENTRATION (33 HOURS)**
The 33 hour advanced principal and superintendent concentration is intended for students with a previous Master of School Administration degree and/or P licensure who seek preparation for advanced building-level administrator, district-level administrator, and superintendent positions. The concentration leads to eligibility for specialist-level principal licensure and superintendent licensure (AP and AS licensure).

**Administration and Leadership Courses (18-21 hours)**
- ELC 700 Critical Perspectives in Education, Leadership, and Culture (3)
- ELC 701 The Superintendency (3)
- ELC 751 Cases and Concepts in Educational Leadership (3)

Students may select 9-12 hours from the following:
- ELC 659 Educational Finance (3)
- ELC 683 Engaging the Public in Education (3)
- ELC 750 Advanced Seminar in School Law Research (3)
- ELC 752 Theories in Educational Administration (3)
- ELC 754 Personal Leadership Assessment and Enhancement (3)

Additional courses as approved by the student’s advisor
Minimum 9 semester hours from the following two areas:
Curricular and Instructional Leadership (3-6 hours)
ELC 686 Curriculum Theory (3)
Additional courses as approved by the student's advisor

Social and Cultural Foundations (3-6 hours)
ELC 679 History of Education in the United States (3) or ELC 696 Philosophies in Education (3)

Students may select from the following:
ELC 697 Selected Critical Issues in American Education (3)
ELC 688 Contemporary Problems Seminar (3)
Additional courses as approved by the student's advisor

Research (6 hours)
ERM 617 Statistical Methods in Education (3) or another course in quantitative methods

Students may select 3 hours from the following:
ELC 664 Foundations of Interpretive Inquiry (3)
ELC 665 Approaches to Qualitative Inquiry (3)
Additional courses as approved by the student's advisor

Capstone Experience
The student will write a paper (no less than 10 pages in length) that responds to the following:
Reflect on the ways in which your approach to leadership practice in schools (or other contexts) has changed as a result of your learning experiences in the Specialist in Education program. Reflecting on your course work and the literature on education, leadership, and culture, describe the core values you want to promote in your professional practice, and discuss how they would be reflected in your response to several challenges you expect to face in your work. Finally, discuss some of the lingering questions you still have about education, leadership, and culture and society, questions that may frame your personal and professional learning in the future.

The student will participate in a public discussion of her/his reflective paper with other students and faculty members.

ENTRY-LEVEL PRINCIPAL AND SUPERINTENDENT CONCENTRATION (60 HOURS)
The 60 hour entry-level principal and superintendent concentration is intended for students who have a master's degree in a field other than school administration and who do not already hold Principal licensure. The concentration offers preparation for leadership at the building level as a school principal and at the district level as a central office administrator or superintendent and leads to eligibility for specialist-level principal and superintendent licensure (AP and AS licensure).

Administration and Leadership (27 hours)
ELC 660 The School Principalship* (3)
ELC 687 The Legal and Ethical Foundations of Public Education (3)
ELC 691 School Organization and Leadership* (3)
ELC 694 Education Governance and Policy* (3)
ELC 700 Critical Perspectives in Education, Leadership, and Culture (3)
ELC 701 The Superintendency (3)
ELC 751 Cases and Concepts in Educational Leadership (3)

Students may select 6 hours from the following:
ELC 659 Educational Finance (3)
ELC 683 Engaging the Public in Education (3)
ELC 750 Advanced Seminar in School Law Research (3)
ELC 752 Theories in Educational Administration (3)
ELC 754 Personal Leadership Assessment and Enhancement (3)
Additional courses as approved by the student's advisor

Internship (12 hours)
ERM 690 Practicum* (6)
ERM 790 Internship (6)

Minimum of 15 semester hours from the following two areas:
Curricular and Instructional Leadership (9-12 hours)
ELC 615 Foundations of Curriculum (3)
ELC 670 Leadership for Teaching and Learning (3)

Students may select 3-6 hours from the following:
ELC 686 Curriculum Theory (3)
Additional courses as approved by the student's advisor

Social and Cultural Foundations (3-6 hours)
ELC 679 History of Education in the United States (3) or ELC 696 Philosophies in Education (3)

Students may select from the following:
ELC 697 Selected Critical Issues in American Education (3)
ELC 688 Contemporary Problems Seminar (3)
Additional courses as approved by the student's advisor

Research (6 hours)
ERM 617 Statistical Methods in Education (3) or another course in quantitative methods
ELC 675 Schools as Centers of Inquiry (3)
Requirements for the Doctor of Education in Educational Leadership with Various Concentrations

EdD

The Department of Educational Leadership and Cultural Foundations offers a graduate program of study leading to a 66-93 hour Ed.D. degree in educational leadership. Students can choose from three different administrative licensure concentrations or select the non-licensure concentration.

ADVANCED PRINCIPAL AND SUPERINTENDENT CONCENTRATION (66 HOURS)

The 66 hour advanced principal and superintendent concentration is intended for students with a previous Master of School Administration degree and/or P licensure who wish to seek preparation for advanced building-level administrator, district-level administrator, and superintendent positions. The concentration leads to eligibility for doctoral-level principal licensure and superintendent (DP and DS) licensure. Note: Upon the completion of all course requirements and internship, students are eligible for specialist-level principal and superintendent (AP and AS) licensure.

Administration and Leadership (18 hours)

ELC 700 Critical Perspectives in Education, Leadership, and Culture (3)
ELC 701 The Superintendency (3)
ELC 751 Cases and Concepts in Educational Leadership (3)

Students may select 9 hours from the following:

ELC 659 Educational Finance (3)
ELC 683 Engaging the Public in Education (3)
ELC 750 Advanced Seminar in School Law Research (3)
ELC 752 Theories in Educational Administration (3)
ELC 754 Personal Leadership Assessment and Enhancement (3)

Additional courses as approved by the student’s advisor

Internship (6 hours)

ELC 790 Internship (6)

Minimum of 15 semester hours from the following two areas:

Curricular and Instructional Leadership (6-9 hours)

Students may select 6-9 hours from the following:

ELC 686 Curriculum Theory (3)
Additional courses as approved by the student’s advisor

Social and Cultural Foundations (6-9 hours)

ELC 679 History of Education in the United States (3) or ELC 696 Philosophies in Education (3)

Students may select 3-6 hours from the following:

ELC 697 Selected Critical Issues in American Education (3)
ELC 688 Contemporary Problems Seminar (3)
Additional courses as approved by the student’s advisor

Research (15 hours)

ERM 617 Statistical Methods in Education (3) or another course in quantitative methods

Students may select 12 hours from the following:

ELC 664 Foundations of Interpretive Inquiry (3)
ELC 665 Approaches to Qualitative Inquiry (3)
Additional courses as approved by the student’s advisor

Dissertation (12 hours)

ELC 799 Dissertation (12)

ENTRY-LEVEL PRINCIPAL CONCENTRATION (84 HOURS)

The 84 hour entry-level principal concentration is intended for students who have a master’s degree in a field other than school administration and do

Capstone Experience

The student will write a paper (no less than 10 pages in length) that responds to the following:

Reflect on the ways in which your approach to leadership practice in schools (or other contexts) has changed as a result of your learning experiences in the Specialist in Education program. Reflecting on your course work and the literature on education, leadership, and culture, describe the core values you want to promote in your professional practice, and discuss how they would be reflected in your response to several challenges you expect to face in your work. Finally, discuss some of the lingering questions you still have about education, leadership, and culture and society, questions that may frame your personal and professional learning in the future.

*Master and specialist/doctoral student requirements for this course will be differentiated.
not already hold principal’s licensure. The concentration offers intensive preparation for leadership at the building level as a school principal and leads to eligibility for doctoral-level principal (DP) licensure. Note: Upon completion of all course requirements and internship, students are eligible for specialist-level principal (AP) licensure.

**Administration and Leadership (24 hours)**

- ELC 660 The School Principalship* (3)
- ELC 687 The Legal and Ethical Foundations of Public Education* (3)
- ELC 691 School Organization and Leadership* (3)
- ELC 694 Educational Governance and Policy* (3)
- ELC 700 Critical Perspectives in Education, Leadership, and Culture (3)
- ELC 751 Cases and Concepts in Educational Leadership (3)

Students may select 9 hours from the following:

- ELC 659 Educational Finance (3)
- ELC 683 Engaging the Public in Education (3)
- ELC 701 The Superintendency (3)
- ELC 750 Advanced Seminar in School Law Research (3)
- ELC 752 Theories in Educational Administration (3)
- ELC 754 Personal Leadership Assessment and Enhancement* (3)

Additional courses as approved by the student’s advisor

**Internship (12 hours)**

- ELC 690 Practicum* (12)

**Curricular and Instructional Leadership (12 hours)**

- ELC 615 Foundations of Curriculum (3)
- ELC 670 Leadership for Teaching and Learning* (3)

Students may select 6 hours from the following:

- ELC 686 Curriculum Theory (3)

Additional courses as approved by the student’s advisor

**Social and Cultural Foundations (9 hours)**

- ELC 679 History of Education in the United States (3) or ELC 696 Philosophies in Education (3)

Students may select 6 hours from the following:

- ELC 697 Selected Critical Issues in American Education (3)
- ELC 688 Contemporary Problems Seminar (3)

Additional courses as approved by the student’s advisor

**Research (15 hours)**

- ERM 617 Statistical Methods in Education (3) or another course in quantitative methods
- ELC 675 Schools as Centers of Inquiry* (3)

Students may select 9 hours from the following:

- ELC 664 Foundations of Interpretive Inquiry (3)
- ELC 665 Approaches to Qualitative Research (3)

Additional courses as approved by the student’s advisor

**Dissertation (12 hours)**

- ELC 799 Dissertation (12)

*Master and doctoral student requirements for this course will be differentiated.

**ENTRY-LEVEL PRINCIPAL AND SUPERINTENDENT CONCENTRATION (93 HOURS)**

The 93 hour entry-level principal and superintendent concentration is intended for students who have a master’s degree in a field other than school administration and do not already hold principal’s (P) licensure. The concentration offers preparation for leadership at the building level as a school principal and at the district level as a central office administrator or superintendent and leads to eligibility for doctoral-level principal and superintendent (DP and DS) licensure. Note: Upon completion of all course requirements and internship, students are eligible for specialist-level principal and superintendent (AP and AS) licensure.

**Administration and Leadership (33 hours)**

- ELC 660 The School Principalship* (3)
- ELC 687 The Legal and Ethical Foundations of Public Education* (3)
- ELC 691 School Organization and Leadership* (3)
- ELC 694 Educational Governance and Policy* (3)
- ELC 700 Critical Perspectives in Education, Leadership, and Culture (3)
- ELC 701 The Superintendency* (3)
- ELC 751 Cases and Concepts in Educational Leadership (3)

Students may select 12 hours from the following:

- ELC 659 Educational Finance (3)
- ELC 683 Engaging the Public in Education (3)
- ELC 701 The Superintendency (3)
- ELC 750 Advanced Seminar in School Law Research (3)
- ELC 752 Theories in Educational Administration (3)
- ELC 754 Personal Leadership Assessment and Enhancement (3)

Additional courses as approved by the student’s advisor

**Internship (12 hours)**

- ELC 690 Practicum* (6)
- ELC 790 Internship (6)

**Curricular and Instructional Leadership (12 hours)**

- ELC 615 Foundations of Curriculum (3)
- ELC 670 Leadership for Teaching and Learning* (3)

Students may select 6 hours from the following:

- ELC 686 Curriculum Theory (3)

Additional courses as approved by the student’s advisor

**Research (15 hours)**

- ERM 617 Statistical Methods in Education (3) or another course in quantitative methods
- ELC 675 Schools as Centers of Inquiry* (3)

Students may select 9 hours from the following:

- ELC 664 Foundations of Interpretive Inquiry (3)
- ELC 665 Approaches to Qualitative Research (3)

Additional courses as approved by the student’s advisor
The Department of Educational Leadership and Cultural Foundations offers a graduate program of study leading to a 60-hour Ph.D. degree in curriculum and teaching with a concentration in cultural studies.

The framework for the program revolves around fundamental issues of social justice as they pertain to educational theory and practice—its ideology, philosophical assumptions, moral claims, and social analysis.

Within this concentration, the program of study is negotiated between the student and his or her individual doctoral advisory/dissertation committee. Although the program involves course recommendations, every effort is made to avoid rigidity and repetition. The program has both formal and informal dimensions—course work, comprehensive examinations, doctoral dissertation, as well as discussions with faculty and other students, reflections, attending lectures and performances, etc.

**Educational Foundations (18 hours)**

Normally students take the courses reflecting social, philosophic, and historic dimensions of education.
**Curriculum and Teaching (15-24 hours)**

Normally students take courses that encourage a broad, critical understanding of school, pedagogy, and society.

**Research (15 hours)**

Normally students take courses from a variety of qualitative and epistemological methodologies to guide in dissertation research.

### ELC Educational Leadership and Cultural Foundations Courses

**506 Institutes in Education (1-3)**

Practicum or workshop experiences to focus on issues, problems, or approaches in the profession. Students may apply no more than 3 hours of this course to any degree program. (Graded on S-U basis)

**581 Teaching in the Urban School (3:3)**

*Pr. admission to teacher education or permission of instructor*

Course designed to provide an opportunity for educators to examine research and literature related to the problems of teaching in the urban school.

**589 Experimental Course**

This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

**604 Moral Dimensions of Education (3:3)**

*Pr. 696 or 697 or their equivalents*

Values involved in educational decision making; application of various moral discourses to educational practices.

**609 Epistemology and Education (3:3)**

*Pr. 696 or 697 or their equivalents*

An overview of several systems of knowledge and the problems of knowing, knowing how, and belief. Deals with intellect, rationality, and positional knowledge.

**615 Foundations of Curriculum (3:3)**

*Pr. graduate standing*

Historical, cultural, and sociopolitical foundations of curriculum theory and practice. Emphasis on ideological shifts in transformative practice, curriculum development/analysis, and relations between curriculum, individual, and society.

**616 Culturally Responsive Leadership (3:3)**

Theories of and strategies related to culturally responsive leadership that will prepare K-12 school leaders to develop effective and equitable, multicultural school communities.

**625 Seminar in Teaching and Social Foundations of Education (3:3)**

Critical consideration of the purpose and philosophy of undergraduate social foundations courses, perspectives and approaches to teaching, and reflection on issues and problematics of critical pedagogy.

**641 Designing Educational Programs (3:3)**

Aspects of systematic educational program planning. Each student will be required to design an educational program plan.

### The following courses are required:

ERM 617  Statistical Methods in Education (3)

ERM 680  Intermediate Statistical Methods in Education (3)

Acceptable substitute pending approval of advisor and The Graduate School

**Dissertation (12 hours)**

ELC 799  Dissertation (12)
664 Foundations of Interpretive Inquiry (3:3)
Pr. 593, 696 or 697; ERM 617 or their equivalents
Theoretical and philosophical dimensions of interpretive inquiry in education; concepts that are the foundation for qualitative methodologies in educational research.

665 Approaches to Qualitative Inquiry (3:3)
Pr. 609, 664 recommended
Introduction to empirical qualitative research: philosophical foundations, research design strategies, methods for data collection and analysis (especially interviewing and field observation), options for reporting research. Emphasis on skill development.

667 Leadership for Teaching and Learning (3:3)
Pr. admission to M.S.A. program or permission of instructor
Examines conceptions of “good” schools and the nature of instruction, curriculum, assessment, and professional development. Explores leadership, change, and school renewal that works toward good schooling and pedagogy.

668 Principal Fellows Seminar (3:3)
Pr. enrollment as a Principal Fellow
Required for Principal Fellows each semester during their enrollment in the M.S.A. program. Provides enrichment activities for Principals Fellows as required by the Principal Fellows Program.

672 Technology and Administrative Leadership (3:3)
How school leaders can use technology to meet their management, instructional, inquiry, and problem solving responsibilities.

673 Principal Leadership for Special Education (3:3)
Strategies school principals can use to advocate for and implement programs for exceptional children that are effective for students and compliant with legal requirements.

675 Schools as Centers of Inquiry (3:3)
Pr. admission to M.S.A. program and ELC 670, or permission of instructor
Effective schools function as professional learning communities characterized by a culture of inquiry and collaboration. Builds the skills of students in facilitating individual and whole school inquiry.

678 Feminist Theories and Education (3:3)
Where feminism and education intersect, specifically how gender and other social categories impact lived experience. Political, economic, social inequities studied to transfer theory and practice in educational contexts.

679 History of Education in the United States (3:3)
Historical foundations of the educational system in the U.S. Contributions of selected educational leaders and the responses of the educational system to the dilemmas posed by major events and movements in the history of the country.

680 Transnational and Postcolonial Feminist Perspectives (3:3)
Study of transnational and postcolonial feminist perspectives in multiple world regions. Emphasis on global political developments, grassroots efforts to use education as social change, and developing critical power literacies.

683 Engaging the Public in Education (3:3)
Examination of parent involvement in schooling, school/family/community partnerships, civic deliberation about education, school’s role in community transformation. Emphasis on equity/justice, school’s accountability to the public, research evidence, effective practice.

684 Teacher Rights, Recruitment, Retention, and Evaluation (3:3)
Processes and systems to recruit, induct, support, evaluate, develop, and retain a high quality staff. Legal and ethical reasoning systems influencing school administrators with regard to teachers’ legal rights.

686 Curriculum Theory (3:3)
Pr. 515 or its equivalent
The nature of theory and of theory building; application of theoretical criteria to the field of curriculum.

687 The Legal and Ethical Foundations of Public Education (3:3)
Pr. advanced graduate standing. Basic knowledge of history of American education, governance and organization of education and basic U.S. history and/or constitutional law
The constitutional and statutory precedents and principles underlying the roles of federal, state, and local governments in public education. Recent court decisions relating to public education; development of awareness of freedoms and constraints of law and ability to implement and apply the intention of law and court decisions to practical problems of school administration.

688 Contemporary Problems Seminar (1-3)
Pr. advanced master’s or doctoral standing, or permission of instructor
Specific course title identified each semester by subscript, e.g., Contemporary Problems Seminar; Issues in Professional Negotiations. May be repeated for credit when topic varies.

689 Seminar in Leadership Development (6)
Pr. recommendation of adviser and permission of instructor
For students from all disciplines who intend to pursue a career in administrative positions. Development of creative leadership potential and maximization of personal growth. Students requested to make emotional as well as intellectual commitment to development of leadership qualities. (Same as MBA 689) (Graded on S-U basis)

690 Supervised Practicum in Educational Administration (3-12) (SVL)
Pr. for educational administration majors at either master’s or sixth-year levels and permission of instructor
Planned administrative functions in appropriate school setting with objective of providing direct experience with processes and functions of educational administration. Supervision is shared responsibility of university and public school faculties. May be repeated for a maximum of 12 hours credit. (Graded on S-U basis)

691 School Organization and Leadership (3:3)
Examines organizational dimensions of schooling (structure, culture, human resources, politics, bureaucracy, community); explores practical organizational/leadership strategies for reforming schools to serve diverse students and promote learning, social justice, and democracy.
692 Independent Study (1-4)
Pr. approval of instructor
Guided readings, research, and individual project work under direction of a staff member.

693 Introduction to Critical Pedagogy (3:3)
Introduction to the theory and practice of critical pedagogy including its relationship to critical social theory. Emphasis on education as vehicle for social change, moral critique, and personal transformation.

694 Educational Governance and Policy (3:3)
Structures and processes of school governance, including the impacts of district, state and Federal policies, and influence of special interest groups. Attention to policy development, advocacy, implementation, analysis, and critique.

695 Comparative Education (3:3)
Definition, purpose, and scope of comparative education; the role of such factors in education as race, language, religion, geography, economics, nationalism, socialism, and democracy; a survey of education in England, France, Germany, U.S.S.R., China, Japan and India.

696 Philosophies in Education (3:3)
Major philosophic viewpoints (traditional and contemporary) as they apply to education; analysis of past and present changes in educational outlook and practices.

697 Selected Critical Issues in American Education (3:3)
Identification and analysis of selected major policy questions facing education; relationship between the social, political, and cultural milieus, and issues in education.

698 Gender, Art, Politics, and Pedagogy (3:3)
Artists whose art is political and pedagogical. How artists use art as public voice, identity formation, documentation of public memory/history, redefinition of aesthetics, and reconstruction of learning.

699 Thesis (1-6)
Individual guidance and direction in the development of a research problem in the master’s degree thesis.

700 Critical Perspectives in Education, Leadership, and Culture (3:3)
Explores the challenges of educational transformation, including improved teaching and learning, equity/social justice, and democracy in institutions with complex cultural contexts. Introduction to habits of mind for advanced graduate study.

701 The School Superintendent (3:3)
Pr. admission to Ed.S. or Ed.D. program in educational leadership or permission of instructor
Designed for both aspiring superintendents and central office administrators. Focuses on basic knowledge and skill development around a broad range of issues critical to superintendent success.

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

721 Social and Cultural Change and Education (3:3)
Pr. 696 or 697 or their equivalents
Consideration of social, cultural, political, and moral challenges facing education in the 21st century. Critical social and educational perspectives on the crises of meaning, democracy, globalization, religion, and identity.

722 Aesthetics, Visual Studies, and Critical Pedagogy (3:3)
Aesthetics, visual literacy, visual culture, semiotics, and their influences in contemporary education. Development of critical visual literacy for the understanding and integration of the arts in pedagogy.

749 Doctoral Dissertation Seminar (1-3)
Pr. permission of instructor
Develop, discuss, and defend a dissertation prospectus. (Graded on S-U basis)

750 Advanced Seminar in School Law Research (3:3)
Pr. 687, PSC 528, PSC 529, and/or permission of instructor
Case studies in school law. For Ed.S. students or the doctoral student writing a legal dissertation.

751 Cases and Concepts in Educational Leadership (3:3)
Pr. advanced graduate standing, including students majoring in educational administration, and others by permission of instructor
Uses cases and problem-based learning as opportunities to explore key analytic/theoretical perspectives and research evidence relevant to leadership for meaningful and equitable educational reform.

752 Theories in Educational Administration (3:3)
Pr. advanced graduate standing, including students majoring in educational administration, and others by permission of instructor
The nature of theory, definition, utilization; contemporary theories applied to educational administration; system theory and its application possibilities to educational administration.

753 Problems and Dilemmas in Administering Education (1-3:6)
Pr. 604 or equivalent; six semester hours of research tools (604, 617) and/or experience in some extended practical research activity, and permission of instructor
Student/faculty teams will identify problems of administrative practice in education, identify methods or processes to study each problem, analyze problems/solutions in situ, explore alternative solutions (e.g. literature search) and develop conclusions.

754 Personal Leadership Assessment and Enhancement (3:3)
Pr. admission to Ed.S. or Ed.D. program in educational leadership or permission of instructor
For students who intend to pursue educational leadership roles and careers in administration. Emphasizes development of creative leadership potential and maximization of personal growth.

755 Law and Policy in Special Education
Pr. 673 or equivalent, or permission of instructor
Examination of legal, ethical, and policy perspectives in the leadership of special education programs in schools and school districts and their integration into diverse organizational settings.

775 Directed Doctoral Research (3)
Pr. doctoral students in ELC or CUI and permission of instructor
Individual work on dissertation research problems: collection analysis, critical review, integration, and interpretation of research literature on a topic pertinent to the student’s dissertation. May be repeated once for credit.
990 Internship in Educational Leadership (3-18)
Pr. minimum of 24 semester hours beyond the master’s, or a minimum of all prerequisite courses and 24 additional semester hours for those admitted to the program without a master’s degree. All such work to be approved in writing by the student’s Advisory/Dissertation Committee. Directed year-long internship in an appropriate educational administration field-based setting. Supervision shared by department faculty and field-based mentors. (Graded on S-U basis)

999 Dissertation (1-12)
Individual direction in the development and execution of a doctoral dissertation.

801 Thesis Extension (1-3)

802 Dissertation Extension (1-3)

803 Research Extension (1-3)
The Department of Educational Research Methodology offers programs of study leading to the M.S. and Ph.D. in educational research, measurement, and evaluation as well as a doctoral minor in educational research methodology. Graduates are prepared for careers in such settings as universities and colleges, school systems, state and federal departments of education, social service agencies, educational research and development centers, and the corporate sector. Course work is supplemented with research experience on grants and funded projects that include measurement research and evaluation that are being conducted by individual faculty and the UNCG Center for Educational Research and Evaluation.

Non-ERM doctoral students who want to pursue an area of concentration in ERM course work are strongly encouraged to obtain a Minor in educational research methodology.
Requirements for the Master of Science in Educational Research, Measurement, and Evaluation

The Department of Educational Research Methodology offers a graduate program of study leading to a 36 hour Master of Science degree in educational research, measurement, and evaluation. After completing at least 18 hours in the M.S. program, students may submit a request to faculty within the department to be considered for admission into the Ph.D. program. The departmental Director of Graduate Study will take leadership in reviewing the request with ERM faculty and advising the student and The Graduate School of the department’s recommendation in writing. Students approved by this process will not be required to submit another formal application.

Required Core Courses (24 hours)

In cases where students have previously satisfied these requirements, course substitutions may be allowed with the approval of the major advisor.

ERM 604 Methods of Educational Research (3)
ERM 642 Evaluation of Educational Programs (3)
ERM 667 Foundations of Educational Measurement Theory (3)
ERM 668 Survey Research Methods in Education (3)
ERM 669 Item Response Theory (3)
ERM 675 Data Presentation and Reporting (3)
ERM 680 Intermediate Statistical Methods in Education (3)
ERM 681 Design and Analysis of Educational Experiments (3)

Electives (12 hours)

Students must complete a combination of 12 hours in elective courses at the 600-749 level. At least 6 hours must be completed in a cognate discipline outside of educational research. Cognate disciplines may include educational foundations, curriculum and instruction, psychology, sociology, statistics (some 500 level courses are acceptable), public health, political science, or computer science. With the approval of the major advisor, 6 hours may be selected from among the following educational research courses:

ERM 643 Applied Educational Evaluation (3)
ERM 682 Multivariate Analysis (3)
ERM 688 Contemporary Problems Seminar: Educational Statistics and Measurement (1-3)
ERM 693 Seminar in Advanced Research Methods (3)
ERM 726 Advanced Topics in Educational Measurement (3)
ERM 727 Computer-based Testing: Methods and Applications (3)
ERM 728 Factor Analysis and Multidimensional Scaling (3)
ERM 729 Advanced Item Response Theory (3)
ERM 731 Structural Equation Modeling in Education (3)
ERM 732 Hierarchical Linear Modeling (3)
ERM 733 Language Assessment and Testing (3)
ERM 735 Multidimensional Item Response Theory (3)
ERM 742 Advanced Evaluation of Educational Programs (3)

Comprehensive Examination (Capstone Experience)

The student will successfully complete a written comprehensive examination to be arranged by the major advisor.

Requirements for the Master of Science/Doctor of Philosophy in Educational Research, Measurement, and Evaluation

The Department of Educational Research Methodology offers a graduate program of study leading to a Ph.D. degree in educational research, measurement, and evaluation requiring 93 hours beyond the baccalaureate degree (for student’s entering the program in the M.S./Ph.D. track).

Required Core Courses (42 hours)

In cases where students have previously satisfied these requirements, course substitutions may be allowed with the approval of the major advisor.

ERM 604 Methods of Educational Research (3)
ERM 642 Evaluation of Educational Programs (3)
ERM 643 Applied Educational Evaluation (3)
ERM 667 Foundations of Educational Measurement Theory (3)
ERM 668 Survey Research Methods in Education (3)
ERM 669 Item Response Theory (3)
ERM 675 Data Presentation and Reporting (3)
ERM 680 Intermediate Statistical Analysis (3)
ERM 681 Design and Analysis of Educational Experiments (3)
ERM 682 Multivariate Analysis (3)
ERM 727 Computer-based Testing: Methods and Applications (3)
ERM 728 Factor Analysis and Multidimensional Scaling (3)
ERM 729 Advanced Item Response Theory (3)
ERM 731 Structural Equation Modeling in Education (3)
ERM 732 Hierarchical Linear Modeling (3)
ERM 733 Language Assessment and Testing (3)
ERM 735 Multidimensional Item Response Theory (3)
ERM 742 Advanced Evaluation of Educational Programs (3)

Secondary Area of Concentration (12 hours)

Students are required to complete a Secondary Area of Concentration in a cognate area of their own choosing with the approval of their doctoral Advisory/Dissertation Committee. Cognate
disciplines may include, but are not limited to, educational leadership and cultural foundations, curriculum and instruction, psychology, sociology, human development and family studies, statistics (some 500-level courses are acceptable), public health, political science, specialized education services, or computer science.

**Electives (27 hours)**
Students must complete a minimum of 27 hours in elective courses from the suggested list below. If the student elects to take a course that is not on the list they must receive approval from their doctoral Advisory/Dissertation Committee.

- ERM 688 Contemporary Problems Seminar (1-3)
- ERM 692 Independent Study (1-4)
- ERM 711 Experimental Course (3)
- ERM 725 Applied Methods on Educational Research (3)
- ERM 726 Advanced Topics in Educational Measurement (3)
- ERM 730 Practicum in Educational Research and Evaluation (3)
- ERM 732 Hierarchical Linear Modeling (3)
- ERM 733 Language Assessment and Testing (3)
- ERM 734 Equating (3)

**Comprehensive Examination**
A student is required to take the M.S. comprehensive exam following 24 hours of core courses and 12 hours of electives. At this point in their program the student must also make formal application to The Graduate School for the Ph.D. program. Following the completion of 42 hours of core courses, 27 hours of electives, and 12 hours of a minor, the student must successfully complete a written comprehensive examination to be arranged by the doctoral Advisory/Dissertation Committee.

**Dissertation (12 hours)**
Research that culminates in the preparation of a required doctoral dissertation.

- ERM 799 Dissertation (12)

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**PhD Requirements for the Doctor of Philosophy in Educational Research, Measurement, and Evaluation**

The Department of Educational Research Methodology offers a graduate program of study leading to a 75 hour Ph.D. degree in educational research, measurement, and evaluation.

**Required Core Courses (27 hours)**
With the approval of the Advisory/Dissertation Committee, a maximum of 15 hours in the following courses may be transferred from UNCG’s master’s degree or from a comparable master’s degree program. The 15 hour maximum also includes any transferred courses included to satisfy required core courses. In cases where students have previously satisfied these requirements, course substitutions must be made pending agreement of the major advisor.

- ERM 642 Evaluation of Educational Programs (3)
- ERM 643 Applied Educational Evaluation (3)
- ERM 668 Survey Research in Education (3)
- ERM 675 Data Presentation and Reporting (3)
- ERM 682 Multivariate Analysis (3)
- ERM 727 Computer-based Testing: Methods and Applications (3)
- ERM 728 Factor Analysis and Multidimensional Scaling (3)
- ERM 729 Advanced Item Response Theory (3)
- ERM 731 Structural Equation Modeling in Education (3)
- ERM 735 Multidimensional Item Response Theory (3)
- ERM 742 Advanced Topics in Evaluation of Educational Programs (3)
- ERM 750 Case Study Methods in Educational Research (3)
- CUI 730 Qualitative Analysis (3)
- STA 551 Introduction to Probability (3)
- STA 552 Introduction to Mathematical Statistics (3)

**Secondary Area of Concentration (12 hours)**
Students are required to complete a Secondary Area of Concentration in a cognate area of their own choosing with the approval of their doctoral Advisory/Dissertation Committee. Cognate disciplines may include, but are not limited to, educational leadership and cultural foundations, curriculum and instruction, psychology, sociology, human development and family studies, statistics (some 500-level courses are acceptable), public health, political science, specialized education services, or computer science.

**Electives (24 hours)**
Student must complete a minimum of 24 hours in elective courses from the suggested list below. If the student elects to take a course that is not on the list he or she must receive approval from their doctoral Advisory/Dissertation Committee.

- ERM 688 Contemporary Problems Seminar (1-3)
- ERM 692 Independent Study (1-4)
- ERM 711 Experimental Course (3)
- ERM 725 Applied Methods on Educational Research (3)
- ERM 726 Advanced Topics in Educational Measurement (3)
- ERM 730 Practicum in Educational Research and Evaluation (3)
- ERM 732 Hierarchical Linear Modeling (3)
- ERM 733 Language Assessment and Testing (3)
Educational Research Methodology Courses

604 Methods of Educational Research (3:3)
Techniques and uses of research in education. Designed to provide the student with the ability to read, understand, and critically evaluate published empirical research. (Formerly EAR 593. Students who took this course as EAR 593 are not eligible to take ERM 604 and receive credit.)

605 Educational Measurement and Evaluation (3:3)
For teachers, counselors, and administrators. Principles of measurement and evaluation; methods of scoring and interpreting tests. Construction and use of teacher-made tests. Statistical concepts basic to understanding and interpreting test data. (Formerly EAR 670; students who took this course as EAR or ERM 670 are not eligible to take ERM 605 and receive credit.)

617 Statistical Methods in Education (3:3)
Pr. elementary algebra
Introductory course in applied descriptive statistics, correlational methods, and linear regression that provides a conceptual and theoretical foundation for more advanced work and a thorough grounding in the use of computers for descriptive statistical analysis, and interpretation of results. (Formerly EAR 501. Students who took this course as EAR 501 are not eligible to take ERM 617 and receive credit.)

642 Evaluation of Educational Programs (3:3)
Pr. permission of instructor and 617 or equivalent
Existing and emerging formulations of educational evaluation. Developing operational guidelines for conducting evaluations in educational settings.

643 Applied Educational Evaluation (3:3)
Pr. 642
An application course that uses modern evaluation models, data collection, statistical analyses, and interpretation of findings to establish the effectiveness and utility of an educational program.

667 Foundations of Educational Measurement Theory (3:3)
Pr. 680 or equivalent course
Statistical foundations, classical test theory, reliability, validity, item analysis, and norms; selected topics in modern test theory. Designed for those who will develop, evaluate, and select measurement instruments in their professional roles. (Credit may not be obtained for PSY 437)

668 Survey Research Methods in Education (3:3)
Pr. 617 and 680 or equivalent
Theory, methods, and procedures of survey research as this methodology is applied to problems in education. Sampling from finite populations.

Comprehensive Examination
Following the completion of 24 hours of core courses, 27 hours of electives, and 12 hours of a minor, the student must successfully complete a written comprehensive examination to be arranged by the doctoral Advisory/Dissertation Committee.

Dissertation (12 hours)
Research that culminates in the preparation of a required doctoral dissertation.

Minor Requirements for the Doctoral Minor in Educational Research Methodology

The Department of Educational Research Methodology offers a graduate program of study leading to a 15 hour doctoral minor in educational research methodology.

Core (12 hours)
- ERM 667 Foundations of Educational Measurement Theory (3)
- ERM 680 Intermediate Statistical Methods in Education (3)
- ERM 681 Design and Analysis of Educational Experiments (3)
- ERM 682 Multivariate Analysis (3)

Electives (3 hours)
Select one of the following courses:
- ERM 642 Evaluation of Educational Programs (3)
- ERM 668 Survey Research in Education (3)
- ERM 675 Data Presentation and Reporting (3)
- ERM 693 Seminar in Advanced Research Methods (3)
- ERM 726 Advanced Topics in Educational Measurement (3)
- ERM 728 Factor Analysis and Multidimensional Scaling (3)
- ERM 731 Structural Equation Modeling in Education (3)
- ERM 732 Hierarchical Linear Modeling (3)
- ERM 733 Language Assessment and Testing (3)
- ERM 734 Equating (3)
- ERM 735 Multidimensional Item Response Theory (3)
- ERM 742 Advanced Topics in Evaluation of Educational Programs (3)
- ERM 750 Case Study Methods in Educational Research (3)
- CUI 551 Qualitative Analysis (3)
- STA 551 Introduction to Probability (3)
- STA 552 Introduction to Mathematical Statistics (3)

ERM 734 Equating (3)
ERM 735 Multidimensional Item Response Theory (3)
ERM 742 Advanced Topics in Evaluation of Educational Programs (3)
ERM 750 Case Study Methods in Educational Research (3)
CUI 730 Qualitative Analysis (3)
STA 551 Introduction to Probability (3)
STA 552 Introduction to Mathematical Statistics (3)

Comprehensive Examination
Following the completion of 24 hours of core courses, 27 hours of electives, and 12 hours of a minor, the student must successfully complete a written comprehensive examination to be arranged by the doctoral Advisory/Dissertation Committee.

Dissertation (12 hours)
Research that culminates in the preparation of a required doctoral dissertation.

ERM 799 Dissertation (12)
669 Item Response Theory (3:3)  
Pr. 667, and either 681 or STA 662, or equivalent courses and permission of instructor.  
Conceptual and mathematical foundations, parameter estimation, tests of model assumptions and goodness of fit, and practical applications of IRT.

675 Data Presentation and Reporting (3:3)  
Pr. 680  
Modern techniques for summarizing and visualizing univariate and multivariate data using various statistical and graphical software packages. Covers theories and research on graphics and the perception of visual data.

680 Intermediate Statistical Methods in Education (3:3)  
Pr. elementary algebra  
Applied descriptive and inferential statistics. Topics include applied probability, power analysis, chi-square distributions, hypothesis testing for a variety of applications, and correlation and regression. Concept learning, applications, and computer analyses are stressed. (Formerly ERM 618. Students who took this course as ERM 618 are not eligible to take ERM 680 and receive credit)

681 Design and Analysis of Educational Experiments (3:3)  
Pr. 618, 680 or equivalent, or permission of instructor  
Advanced inferential statistics including factorial ANOVA, repeated measures design, multiple regression, ANCOVA, log-linear analysis. Applications in education and the social sciences.

682 Multivariate Analysis (3:3)  
Pr. 680 and 681, or STA 573, or STA 662, or permission of instructor  
Multivariate normal distribution. Cluster analysis, discriminant analysis, canonical correlation, principal component analysis, factor analysis, multivariate analysis of variance. Use and interpretation of relevant statistical software. (Same as STA 671)

688 Contemporary Problems Seminar (1-3)  
Pr. advanced master’s or doctoral standing, or permission of instructor  
Specific course title identified each semester by subscript, e.g., Contemporary Problems Seminar; Issues in Professional Negotiations. May be repeated for credit when topic varies.

692 Independent Study (1-4)  
Pr. permission of instructor  
Guided readings, research, and individual project work under direction of a staff member.

693 Seminar in Advanced Research Methods (3:3)  
Pr. 604, 605, 680, 681, or equivalent  
Advanced techniques of research or measurement applied to educational or social and behavioral science problems.

699 Thesis (1-6)  
Individual guidance and direction in the development of a research problem in the master’s degree thesis.

711 Experimental Course  
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

725 Applied Methods of Educational Research (3:3)  
Investigates procedures and methodologies necessary to pursue research problems in measurement, evaluation, and applied statistics. Student work must demonstrate the ability to organize and conduct a research project.

726 Advanced Topics in Educational Measurement (3:3)  
Pr. 680, 667 or permission of instructor  
Technical developments and applications in classical test theory, item response theory, generalizability theory, models of selection bias, differential item functioning, and test score equating.

727 Computer-Based Testing: Methods and Applications (3:3)  
Pr. 667  
Computer-based testing applications including automated test assembly, item banking, computer-adaptive and multistage testing, web-based testing, large scale assessment development and support systems, and computer-based performance assessments. Covers state-of-the-art research and developments. (formerly ERM 670)

728 Factor Analysis and Multidimensional Scaling (3:3)  
Pr. 682 or permission of instructor  
Exploratory and confirmatory factor analysis and multidimensional scaling. Methods of estimation and rotation including the common factor model. Weighted and unweighted MDS. Uses of SPSS, SAS statistical packages.

729 Advanced Item Response Theory (3:3)  
Pr. 669 or equivalent  
Estimation techniques for various unidimensional dichotomous and polytomous IRT models using various software packages. IRT applications such as computerized testing, equating, test construction, and differential item/test functioning are also covered.

730 Practicum in Educational Research and Evaluation (3)  
Pr. permission of instructor  
Field-based and mentored practicum. (Graded on S-U basis)

731 Structural Equation Modeling in Education (3:3)  
Pr. 682 or permission of instructor  
Formulation of structural models, estimation of structural coefficients using LISREL, estimation of model fit, confirmatory factor analysis models, practical applications.

732 Hierarchical Linear Modeling (3:3)  
Pr. 682, STA 671, or permission of instructor  
Structure of hierarchical data, random intercepts, individual change/growth models, applications in meta-analysis, assessing hierarchical models, hierarchical generalized linear models, hierarchical models for latent variables, cross-classified random effects, estimation.

733 Language Assessment and Testing (3:3)  
Theoretical and practical issues related to second language testing with special attention paid to the assessment of English as a second language, world Englishes, and foreign languages.

734 Equating (3:3)  
Pr. 681, 667, or permission of instructor  
Equating designs, equating and scaling assumptions, design of anchor sets, observed score equating methods, true-score equating methods, standard error of equating, use and interpretation of relevant statistical software.
735 Multidimensional Item Response Theory (3:3)
   Pr. 669 and 729 or permission of instructor
   Multidimensional item response theory models including their estimation, representation, and application. Use of relevant estimation and graphing software discussed.

736 Advanced Studies in Second Language Testing (3:3)
   Pr. 733
   Language testing for English and foreign language learners as well as the World Englishes domain. Policies, theories, research, and tools employed to measure different language modalities.

742 Advanced Topics in the Evaluation of Educational Programs (3:3)
   Pr. 642 and permission of instructor
   Theoretical understanding of evaluation design and strengthening of practical program evaluation skills.

750 Case Study Methods in Educational Research (3:3)
   Pr. 604, 642, or equivalent
   Overview of the methodology of case study research; enhancement of students’ skills in using case study methods.

775 Directed Doctoral Research (1-6)
   Pr. doctoral students in ERM and permission of instructor
   Individual work on dissertation research problems: collection and analysis of data; critical review, integration, and interpretation of research literature on a topic pertinent to the student’s dissertation.

799 Dissertation (1-12)
   Individual direction in the development and execution of a doctoral dissertation.

801 Thesis Extension (1-3)

802 Dissertation Extension (1-3)

803 Research Extension (1-3)
Professors
Denise N. Baker, Ph.D.
Middle English literature, Langland, Chaucer, Julian of Norwich, medieval women writers.

Walter H. Beale, Ph.D.
Rhetorical theory and criticism, history of rhetoric, theory of discourse.

Keith Cushman, Ph.D.
Modern British literature, D. H. Lawrence, contemporary literature, modern American literature.

Stuart L. Dischell, M.F.A.
Poetry writing, poetry and poetics, modern literature, world literature.

James E. Evans, Ph.D.
18th century British literature, especially fiction, drama and periodicals; theory of comedy.

Mary Ellis Gibson, Ph.D.
19th century British literature, critical theory, Women’s Studies, modernism, imperialism, Southern women writers.

Christopher Hodgkins, Ph.D.
Renaissance literature, 17th century lyric poetry, George Herbert, British imperial imagination, Sir Francis Drake, religion and literature, Shakespeare.

Karen L. Kilcup, Ph.D.
19th and early 20th century American literature, women’s and Native American literature, romanticism and regionalism, American Studies and Women’s Studies, poetry, humor, critical theory.

Robert Langenfeld, Ph.D.
Late 19th - early 20th century British literature. Editor/Publisher ELT and ELT Press.

Craig Nova, M.F.A.
Fiction writing (Class of ’49 Excellence Professor).

Michael F. Parker, M.F.A.
Fiction writing, contemporary fiction, short story, forms in fiction, novella, personal/familiar essay.

Hephzibah Roskelly, Ph.D.
Rhetoric and composition, reading theory, pedagogy, American literature.

Anne Wallace, Ph.D.
19th-century British literature and culture, poetry and the novel from the Restoration to the Great War, gender studies, aesthetics, historiography (Head of Department).

Stephen R. Yarbrough, Ph.D.
Literacy; critical and rhetorical theory; history of American literature and discourse, especially 18th and 19th centuries.

Lee Zacharias, M.F.A.
Fiction writing, contemporary literature, American literature.

Associate Professors
Elizabeth Chiseri-Strater, Ph.D.
Composition theory and pedagogy, language and literacy, portfolio evaluation, ethnography, collaborative learning.

SallyAnn H. Ferguson, Ph.D.

Jennifer M. Keith, Ph.D.
18th century and Romantic British literature, poetry, satire, gender studies, William Blake.

Christian Moraru, Ph.D.
Literary and cultural theory, 20th century American literature with emphasis on contemporary narrative, postmodernism, comparative literature.

Nancy Myers, Ph.D.
Rhetoric and composition theory and pedagogy; history of rhetoric, composition, and English Studies; sociolinguistics; structuralism (Director of Graduate Study).

Scott B. Romine, Ph.D.
Southern literature, modern American literature, narrative theory, autobiography, Irish literature.

Karen A. Weyler, Ph.D.
Early and 19th century American literature, women writers, the history and theory of the novel, personal narratives, and the history of the book.
The Department of English offers degree programs leading to the Master of Arts, the Master of Fine Arts, and the Doctor of Philosophy. The department has long published *The Greensboro Review*, a magazine of poetry and fiction, and in 1986 became the location of *English Literature in Transition (1880–1920)*, a scholarly journal. In 1988, ELT Press began to publish the 1880–1920 British Authors Series. *Studies in American Humor* is also edited at UNCG.

The M.A. in English—designed for those planning to pursue a doctorate; to teach in community colleges, technical institutes, or some undergraduate colleges; and to work in non-academic settings—offers four plans of study beyond the core requirements for the degree: (1) thesis plan, (2) teaching composition plan, (3) writing and editing plan, and (4) minor field plan.

The M.Ed. is offered in conjunction with the School of Education. Successful completion of the degree meets requirements for the North Carolina advanced competencies licensure.

The M.F.A. in creative writing, one of the oldest and most prestigious programs of its kind in the nation, is offered to a limited number of students with superior ability in writing original works of poetry or fiction. The program permits students to develop particular talents in small classes and in conferences with writers in residence and distinguished visiting writers. The best student work may be published in *The Greensboro Review*. The most talented students are considered for fellowships as well as research and teaching assistantships.

The Ph.D. in English is offered to superior applicants who are preparing for careers in teaching and research in colleges and universities. The program permits specialization in literary studies or rhetoric and composition in small classes and a format conducive to individualized instruction. Full-time doctoral students may be appointed as teaching assistants in the department. The most talented students are recommended for fellowships. Scheduling of classes for the M.A. and, in some cases, for the Ph.D. is intended to meet the needs of students already employed in teaching or other professions.
Requirements for the Master of Arts in English

The Department of English offers a graduate program of study leading to a 30-36 hour Master of Arts degree. All students select from the alternative plans of study outlined below. No more than three courses at the 500-level may be submitted for the degree. All other work must be at the 600-level and above.

Required Core Courses (24 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 701</td>
<td>English Studies: Content, Methods, and Bibliography</td>
<td>3</td>
</tr>
<tr>
<td>3 literature courses, including one before 1800 and one after.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 electives, normally in English or American literature.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 critical theory course selected from the following or from special topics courses approved in advance by the Director of Graduate Study:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 531</td>
<td>Feminist Theory and Women Writers</td>
<td>3</td>
</tr>
<tr>
<td>ENG 549</td>
<td>The Critical Canon and Contemporary Issues</td>
<td>3</td>
</tr>
<tr>
<td>ENG 650</td>
<td>Modern Literary Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENG 663</td>
<td>Postcolonial Literary and Cultural Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENG 704</td>
<td>Studies in Contemporary Literary and Cultural Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENG 705</td>
<td>Cultural Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Alternative Plans of Study (6-12 hours)

In the remaining semester hours beyond the core courses, students should elect one of the following alternative plans of study:

**Thesis plan**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 699</td>
<td>Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

M.A. students in the thesis plan must demonstrate reading knowledge of a foreign language. A level of proficiency in one foreign language, equivalent to completion of the first semester of an intermediate course (such as 203 at UNCG), must be documented either by previous course work completed during the last five years and approved by the Director of Graduate Study, or by course work while enrolled in the M.A. program, or by an appropriate score on a written examination. Because of the language requirement, a minimum of 30 hours is required for the degree: 24 core hours and 6 thesis hours. Native speakers of other languages can demonstrate foreign language proficiency through their graduate course work in English. Students in the M.A./Ph.D. track will ultimately have to fulfill the foreign language requirement for the Ph.D.

Students who have been admitted into the Ph.D. program and/or who have the permission of their thesis committee and the Director of Graduate Study, may elect to write a two-paper thesis instead of the traditional single-topic thesis. Recommended for those students for whom the M.A. will not be the terminal degree, the two-paper thesis will consist of two graduate papers expanded and revised to publishable quality.

**Teaching composition plan**

A total of 36 hours is required for the degree, the 24 hour core plus 12 hours distributed as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 680</td>
<td>Teaching Internship in English</td>
<td>3</td>
</tr>
<tr>
<td>ENG 522</td>
<td>Teaching Composition: Theories and Applications</td>
<td>3</td>
</tr>
<tr>
<td>ENG 590</td>
<td>Literacy, Learning and Fieldwork</td>
<td>3</td>
</tr>
<tr>
<td>ENG 661</td>
<td>Second Language Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 688</td>
<td>Women’s Rhetoric and Feminist Pedagogy</td>
<td>3</td>
</tr>
<tr>
<td>ENG 689</td>
<td>Institutional History of Composition Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENG 690</td>
<td>History of Rhetoric: Classical Through Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>ENG 691</td>
<td>History of Rhetoric: Enlightenment through Contemporary</td>
<td>3</td>
</tr>
<tr>
<td>ENG 693</td>
<td>Classical Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>ENG 697</td>
<td>Composing Theories in Reading and Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 742</td>
<td>Studies in Rhetorical Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>ENG 744</td>
<td>Seminar in Composition Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENG 746</td>
<td>Studies in Contemporary Rhetorical Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

**Writing and editing plan**

A total of 36 hours is required for the degree, the 24 hour core plus 12 hours distributed as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 620</td>
<td>Contemporary Publishing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 621</td>
<td>Seminar on Publishing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 622</td>
<td>Writing and Editing Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

1 elective in writing and editing selected from special topics courses approved in advance by the Director of Graduate Study or ENG 524 Writing - Advanced: Analytical and Technical

**Plan of study with minor field**

A total of 36 hours is required for the degree, the 24 hour core plus 12 hours distributed as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 680</td>
<td>Teaching Internship in English</td>
<td>3</td>
</tr>
</tbody>
</table>

3 courses in a minor or collateral field

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*Requirements for the Post-Baccalaureate Certificate in Technical Writing

*For 2008-2009, no new certificate candidates will be accepted.

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*PBC
Requirements for the Master of Education in English

The Master of Education degree with a concentration in English is offered to those students teaching or preparing to teach in public secondary schools. The program is approved by the National Council for Accreditation of Teacher Education and by the North Carolina Department of Public Instruction. The degree is available in two tracks leading to the opportunity for advanced competencies license.

The Teacher Leadership Track is designed for students who hold North Carolina Standard Professional I licensure for secondary teaching in English. The Classroom Practice Track is designed for students who do not hold North Carolina licensure for secondary teaching in English. Both tracks require 39 hours of course work, including a directed research project. There is no thesis or foreign language requirement. Prerequisite is undergraduate course equivalents for the B.A. in English with Standard Professional I licensure. Classroom Practice Track students may also have to fulfill additional prerequisites normally completed during a Standard Professional I licensure program.

Core Courses for Both Tracks (9 hours)

- CUI 545 Diverse Learners (3)
- CUI 669 Educational Implications of Learning and Developmental Theory (3)
- ENG 670 Directed Master’s Research (3) (Capstone Experience)

Teacher Leadership Track

Pedagogical Expertise (21 hours)

- ENG 513 History of the English Language (3) or ENG 660 Modern Language Theory (3)
- ENG 522 Teaching Composition: Theory and Applications (3)
- 3 courses in literature (9)
- 2 courses as electives (6)

Students who are preparing materials for National Board certification are advised to take CUI 675.

Professional Development/Leadership (9 hours)

- CUI 628 Trends and Issues in Curriculum and Instruction (3) or CUI 637 Trends in Teaching Practices in Curriculum in Secondary School English (3)
- CUI 656 Teacher as Leader (3)
- ENG 602 Electronic Research, Writing, and Editing (3)

Classroom Practice Track

Pedagogical Expertise (21 hours)

- CUI 551 Teaching Practices and Curriculum in English (3)
- ENG 513 History of the English Language (3) or ENG 660 Modern Language Theory (3)
- ENG 522 Teaching Composition: Theory and Applications (3)
- 3 courses in literature (9)
- 1 course as an elective (3)

Students who have not taken a course in literary theory are strongly advised to take ENG 701.

Professional Development/Leadership (9 hours)

- CUI 680a Clinical Experience in Teaching (6)
- CUI 680b Clinical Experience in Teaching Seminar (3)

Requirements for the Master of Fine Arts in Creative Writing

The Department of English offers a graduate program of study leading to a 36 hour Master of Fine Arts degree in creative writing. The M.F.A. is a residency program for full-time students.

Required Core Courses (12-18 hours)

- ENG 625, 626 M.F.A. Fiction Workshop (3)
- ENG 627, 628 M.F.A. Poetry Workshop (3)
- ENG 671, 672 Graduate Tutorial in Writing: Fiction (3)
- ENG 673, 674 Graduate Tutorial in Writing: Poetry (3)
- ENG 677, 678 Special Problems in Writing (3)

Elective Academic Courses (12-18 hours)

M.F.A. students are required to take a minimum of four courses in a related academic field, usually in English or American literature, at the 500, 600, or 700 level. Students may, with permission of the Director of the M.F.A. Writing Program, take 500- and 600-level courses offered by other departments in the College of Arts and Sciences, most often in the departments of Romance Languages, Broadcasting and Cinema, and Art.

Students who plan a career in college teaching should take as many courses as possible in literature, criticism, and composition and rhetoric, including ENG 680 Teaching Internship in English.

Students who plan careers in publishing and editing should select courses focusing on contemporary publishing:

- ENG 620 Contemporary Publishing (3)
- ENG 621 Seminar on Publishing (3)
- ENG 622 Writing and Editing Internship (3)
Requirements for the Doctor of Philosophy in English

The Department of English offers a graduate program of study leading to the Ph.D. degree.

M.A./Ph.D. track: Students who enter the doctoral program with a B.A. are required to complete the M.A. with a two-paper thesis within five academic years of their initial enrollment. (For the requirements, see M.A. Alternative Plans of Study above). These students do not need to reapply for doctoral study after finishing the master’s program.

Ph.D. track: Students who enter with an M.A. in English are required to earn a minimum of 36 hours of course credit, to pass the preliminary comprehensive examination, and to defend successfully their dissertations. Students entering with other advanced degrees will have their transcripts individually evaluated by the Director of Graduate Study to establish the minimum course work required.

No more than three courses at the 500 level may be submitted for the degree. All other work must be at the 600 level and above.

Required Core Courses (33 hours)

These requirements must be met in work offered for the degree beyond the B.A. With approval of the Director of Graduate Study the requirements, but not minimum semester hours, may be met in work taken for the M.A. degree prior to matriculation in the Ph.D. program.

ENG 701 Content, Methods, and Bibliography (3) or equivalent as approved by the Director of Graduate Study. Normally taken in the first semester.

Rhetoric, Critical Theory, and Language (12 hours)

Four courses from at least two different areas from the list below or from special topics courses as approved by the Director of Graduate Study.

Rhetoric
ENG 522 Teaching Composition: Theories and Applications (3)
ENG 590 Literacy, Learning and Fieldwork (3)
ENG 661 Second Language Writing (3)
ENG 688 Women’s Rhetoric and Feminist Pedagogy (3)
ENG 689 Institutional History of Composition Studies (3)
ENG 690 History of Rhetoric: Classical - Renaissance (3)

Critical Theory
ENG 531 Feminist Theory and Women Writers (3)
ENG 549 The Critical Canon and Contemporary Issues (3)
ENG 650 Modern Literary Theory (3)
ENG 663 Postcolonial Literary and Cultural Theory (3)
ENG 704 Studies in Contemporary Literary and Cultural Theory (3)
ENG 705 Cultural Studies (3)

Language
ENG 510 Old English (3)
ENG 537 Middle English Literature (3)
ENG 608 Chaucer (3)
ENG 708 Studies in Middle English Literature (3)

Literary Studies (18 hours)

Students should take one course in each of the following areas from special topics courses approved by the Director of Graduate Study or from the list below. Genre courses, in the novel or poetry, for example, may satisfy these requirements depending upon the texts taught, subject to approval by the Director of Graduate Study.

Old and Middle English Literature
ENG 510 Old English (3)
ENG 537 Middle English Literature (3)
ENG 608 Chaucer (3)
ENG 708 Studies in Middle English Literature (3)

Renaissance Literature
ENG 540 Shakespeare (3)
ENG 541 Milton (3)
ENG 641 Elizabethan and Jacobean Drama (3)
ENG 710 Studies in English Renaissance Literature (3)
ENG 712 Studies in Sixteenth-Century British Literature (3)
ENG 713 Studies in Seventeenth-Century British Literature (3)
ENG 714 Studies in Shakespeare (3)

Restoration and Eighteenth-Century Literature
ENG 561 Eighteenth-Century British Writers (3)
ENG 616 Restoration and Eighteenth-Century Drama (3)
ENG 617 The Eighteenth-Century British Novel (3)
ENG 717 Studies in Eighteenth-Century British Literature (3)

PhD Comprehensive Examination (Capstone Experience)

Please consult with the Director of the M.F.A. Writing Program about dates for this examination.

Thesis (6 hours)
ENG 699 Thesis (6)
May be a novel, a collection of short stories, or a volume of poetry.
**Nineteenth-Century British Literature**
- ENG 545 Nineteenth-Century British Writers (3)
- ENG 646 The Nineteenth-Century British Novel (3)
- ENG 719 Studies in British Romanticism (3)
- ENG 721 Studies in Victorian Literature and Culture (3)

**American Literature Before the Twentieth-Century**
- ENG 563 American Poetry Before 1900 (3)
- ENG 564 American Prose Before 1900 (3)
- ENG 630 Early American Literature (3)
- ENG 638 Southern American Writers (3)
- ENG 730 Studies in American Literature (3)
- ENG 731 Studies in American Literature before 1900 (3)
- ENG 734 Studies in American Women Writers (3)
- ENG 735 Studies in African American Literature (3)

**Twentieth-Century British or American Literature**
- ENG 550 Modern British Writers (3)
- ENG 558 American Poetry after 1900 (3)
- ENG 559 Twentieth-Century British Poetry (3)
- ENG 565 American Prose after 1900 (3)
- ENG 582 Modern Drama (3)
- ENG 638 Southern American Writers (3)
- ENG 639 American Literary Criticism (3)
- ENG 653 Modern Irish Literature (3)
- ENG 654 Contemporary American and British Poetry (3)
- ENG 657 James Joyce (3)
- ENG 658 D.H. Lawrence and Virginia Woolf (3)
- ENG 724 Twentieth-Century British Literature (3)
- ENG 725 Studies in Modernism (3)
- ENG 729 Postcolonial Literatures (3)
- ENG 730 Studies in American Literature (3)
- ENG 733 Studies in American Literature after 1900 (3)
- ENG 734 Studies in American Women Writers (3)
- ENG 735 Studies in African-American Literature (3)
- ENG 737 Studies in Multi-Ethnic American Literature (3)
- ENG 740 Studies in Contemporary and Postmodern American Literature (3)

**Electives (3 hours minimum)**
For the remaining hours of electives, students should choose from the graduate offerings in English or the supporting fields. These courses, selected in consultation with the student’s advisory committee, should form a coherent plan to prepare the student in the areas of specialization.

**Minor in a Supporting Field**
With the approval of the students’ advisory/dissertation committee and the Director of Graduate Study, students may use their electives and additional courses toward achieving a minor in certain supporting fields outside of English. A minor consists of at least 12 hours of advanced work in a single cognate subject. All course work applied toward the minor must be approved by the Director of Graduate Study.

**Foreign Language Requirement**
Ph.D. students fulfill the foreign language requirement before taking the preliminary examination. A level of proficiency in one foreign language, equivalent to completion of the second semester of an intermediate course (such as 204 at UNCG), must be documented either by previous course work completed during the last five years and approved by the Director of Graduate Study, or by course work while enrolled in the Ph.D. program, or by an appropriate score on a written examination. Native speakers of other languages can demonstrate foreign language proficiency through their graduate course work in English.

**Preliminary Comprehensive Examination**
At the end of the course work and after satisfying the foreign language requirement and other conditions or research skill requirements, students must pass the preliminary comprehensive examination. In preparation for the examination, the student prepares reading lists for one primary field and two secondary fields in consultation with the advisory committee.

The written examination is taken on three days within one week and consists of the following:

1. A five-hour examination on the primary field, the specialization chosen from among the following areas: Renaissance/Early Modern English, Post-1900 British and Anglophone Literature, Postcolonial Literatures and Theory, American Literature before 1900, American Literature after 1900, African American Literature, Rhetoric and Composition, Literary Theory.
2. Two three-hour examinations in secondary fields. One of these fields could be either a different area selected from the list of primary fields or a cross-period/critical problem. The oral examination (two to three hours) is on the primary and secondary fields and is taken within a month after the written examination.

Further guidelines for the preliminary examination and reading lists may be found at www.uncg.edu/eng/graduate.

**Dissertation (15-21 hours)**

ENG 799 Dissertation (15-21)

A dissertation demonstrates ability to do original research and to present this investigation in an orderly, exact, and complete manner.

**Final Oral Examination**
The examination administered by the advisory committee is largely related to the dissertation but may cover topics from the entire field of the candidate’s study, including courses taken here and elsewhere.
English Courses

Literature, Language, and Criticism
(500-Level)

The prerequisite for credit in all literature courses on the 500 level is the successful completion of at least six hours of English or American literature at the junior level or above OR admission to a program in the Department of English.

510 Old English (3:3)
Language and literature of the Anglo-Saxon period (600-1100 A.D.). The language is studied primarily in conjunction with literary texts in the context of their history and culture.

513 History of the English Language (3:3)
The origins and development of English, methods of historical language study, and competing theories of linguistic change. Practical emphasis on reading and analysis of texts in Old, Middle, and Early Modern English.

522 Teaching Composition: Theories and Applications (3:3)
Pr. 321 or 660 desirable
Theories of the composing process and of discourse generally as they apply to the problems of teaching composition. Background studies in language and other related areas. Specific approaches to teaching composition, their rationales and their comparative usefulness.

524 Writing—Advanced: Analytical and Technical (3:3)
Problems of organization and expression in books, articles, and reports. For those writing for publication, or whose work in business or government requires a great deal of writing.

531 Feminist Theory and Women Writers (3:3)
Examines gender and creativity, women’s place in literary tradition, and connections between art, gender, race, and class. Focuses on contemporary theory and on literary works from one historical period.

537 Middle English Literature (3:3)
The language and literature of 13th, 14th, and 15th century England.

540 Shakespeare (3:3)
Major comedies, histories, tragedies selected for topical study. Related background readings and criticism.

541 Milton (3:3)
Milton’s major poems and his most important prose works in their 17th century setting.

545 Nineteenth-Century British Writers (3:3)
Major Romantic and/or Victorian writers. Attention to poetry and prose.

549 The Critical Canon and Contemporary Issues (3:3)
Important critical writings from ancient Greece through the 19th century, emphasizing their influence upon modern theory and practice.

550 Modern British Writers (3:3)
Major novelists, poets, and playwrights of the modernist period.

553 Topics in English Studies (3:3)
Studies in selected topics in English or American literature or language. May be repeated once for credit when topic varies.

558 American Poetry after 1900 (3:3)
Critical and historical study of major 20th century American poets to World War II.

559 Twentieth-Century British Poetry (3:3)
Critical and historical study of 20th century British poetry to World War II.

561 Eighteenth-Century British Writers (3:3)
Selected major writers, 1660-1800, from among Dryden, Swift, Pope, Johnson, and others.

563 American Poetry before 1900 (3:3)
American poetry and related critical theory with special emphasis on Taylor, Frenau, Bryant, Poe, Emerson, Longfellow, Whitman, and Dickinson.

564 American Prose before 1900 (3:3)
Genres, themes, and movements of American prose, fiction and non-fiction, written before 1900.

565 American Prose after 1900 (3:3)
American prose written after 1900 with an emphasis on historical content, prose traditions in America, and the development of form, style, and genre.

582 Modern Drama (3:3)
Drama of the late 19th and 20th century: continental, English, and American.

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

590 Literacy, Learning and Fieldwork (4:3:3)
Historical, pedagogical, ideological and theoretical threads of literacy studies, debates and programs; training/tutoring fieldwork in local literacy programs, primarily in the public libraries.

Literature, Language, and Criticism
(600-Level and Above)

The prerequisite for credit in all courses on the 600-level or above is either admission to a graduate program in the Department of English OR twelve hours of English or American literature on the junior level or above. It is strongly recommended that a student enrolling in a graduate seminar have previous work in an appropriate period course.

602 Electronic Research, Writing, and Editing (3:3)
Theory and application of computer technology in the study of language, rhetoric and composition, and literature, including related ethical, social, and philosophical issues.

604 Electronic Discourse and User Documentation (3:2:1)
The study of such user documentation as reference manuals, tutorials, and operating procedures in its traditional, paper-based form and its transformation into electronic form.
608 Chaucer (3:3)
Chaucer’s major works, including *The Canterbury Tales* and *Troilus and Criseyde*.

616 Restoration and Eighteenth-Century Drama (3:3)
Critical and historical study of comic and serious plays from the period 1660-1800.

617 The Eighteenth-Century British Novel (3:3)
Historical and critical study of such novelists as Defoe, Richardson, Fielding or Burney.

620 Contemporary Publishing (3:3)
An introduction to current practices in the publishing industry from manuscript preparation to the printed book or magazine.

621 Seminar on Publishing (3:3)
Pr. 620
Intensive study of a major area of the publishing industry from manuscript or proposal to final form as magazine or book. Topics to vary.

622 Writing and Editing Internship (3:3)
Pr. 620 or permission of instructor
Practical experience in writing and editing. Students work under supervision of professionals.

623 Writing—Advanced: Nonfiction (3:3)
Workshop in writing and publishing essays and nonfiction literature (including biography, autobiography, literary and cultural criticism, and extended forms of investigative and analytical reporting).

630 Early American Literature (3:3)
Literature in the New World to 1820. Topics include exploration and contact, Puritanism, the Great Awakening, the Revolution, and the rise of captivity and travel narratives and the novel.

638 Southern American Writers (3:3)
Principal authors, from colonial times to the present, and literary movements related to the development and influence of the Southern tradition in American literature.

639 American Literary and Cultural Criticism (3:3)
Survey of major movements of the criticism of American literature, including the first definers of “American” literature, the New Criticism, American Studies, Gender Criticism, New Historicism, and Ethno-Criticism.

641 Elizabethan and Jacobean Drama (3:3).
Representative plays of the early modern theatre, especially various comedies and tragedies staged between 1585 and 1625, from Marlowe to Ford. Textural and cultural analysis.

646 The Nineteenth-Century British Novel (3:3).
Historical and critical study of such novelists as Austen, Dickens, Eliot, and Hardy.

650 Modern Literary and Cultural Theory (3:3)
Survey of literary theory from the linguistics of Saussure through recent developments such as poststructuralism, feminist theory, reception theory, and cultural studies. Emphasis on relationships among language, culture, and literature.

653 Modern Irish Literature (3:3)
Irish literature from the Literary Revival to the present, usually emphasizing Yeats, Synge, Joyce, and O’Casey.

654 Contemporary American and British Poetry (3:3)
Critical and historical study of American and British poetry from World War II to the present.

657 James Joyce (3:3)
Study of the writings of James Joyce, with emphasis on *Ulysses*.

658 D.H. Lawrence and Virginia Woolf (3:3)
Study of the writings of D.H. Lawrence and Virginia Woolf, with emphasis on the evolution of their careers.

660 Modern Language Theory (3:3)
Linguistic approaches, such as traditional, structural, and transformational-generative, to the study of English structure, American English dialects, and discourse.

661 Second Language Writing (3:3) (SVL)
Survey of first and second language writing theories and research methods; pedagogical approaches to working with linguistically and culturally diverse writers.

663 Postcolonial Literary and Cultural Theory (3:3)
Pr. 701 or 650 or permission of instructor
Literary and cultural theory that pertains to European colonialism and its aftermath. Topics include orientalism, colonial discourse analysis, critiques of colonialism, resistance theories, nationalism, postcolonial gender studies, globalization.

670 Directed Master’s Research (3:3)
Pr. limited to M.Ed. candidates
Directed research project for students in the M.Ed. program. To be taken at the end of the student’s plan of study.

680 Teaching Internship in English (3)
Pr. admission to graduate degree program
Practice in planning and conducting college-level classes under guidance of senior faculty member. Research project in conjunction with internship, under guidance of supervisor and assigned faculty. (Graded on S-U basis)

682 The Structure of Verse (3:3)
Verse forms and sound patterns in English and American poetry.

683 The Structure of Fiction (3:3)
Pr. admission to M.F.A. program or permission of instructor
Elements of prose fiction, with an emphasis on the theory and art of narrative structure.

688 Women’s Rhetoric and Feminist Pedagogy (3:3)
ENG 522, 531, or 747 recommended
Seminar in history and theory of women’s rhetoric and feminist approaches to teaching. Examines women’s writing and teaching in their cultural, social, ethnic, racial contexts.

689 Institutional History of Composition Studies (3:3)
History and politics of composition studies as a discipline both within the Department of English and universities as a whole.

690 History of Rhetoric: Classical through Renaissance (3:3)
Origins, developments, and competing views of rhetoric from classical antiquity into the 17th century; intersections of rhetoric and public discourse, poetics, education, and gender.
History of Rhetoric: Enlightenment through Contemporary (3:3)
Developments and competing views of rhetoric from the Enlightenment to the present; intersections of rhetoric and public discourse, poetics, education, and gender.

Classical Rhetoric (3:3)
Theories of persuasion of the philosophers and teachers of Greece and Rome with an emphasis on the writings of Plato, Aristotle, Cicero, and Quintillian.

Composing Theories in Reading and Writing (3:3)
Theories of composition and reading and implications for research and teaching; process of theories of writing, psycholinguistic, transactional and feminist theories of reading and the connections between them.

Thesis (1-6)

English Studies: Content, Methods, and Bibliography (3:3)
A general consideration of the discipline of English, the most useful materials and approaches, and the objectives, problems, and issues in the study of language and literature.

Studies in Contemporary Literary and Cultural Theory (3:3)
Pr. 701 or 650
Problems and topics in literary and critical theory studied in conjunction with specific cultural contexts and phenomena. May be repeated once for credit when topic varies.

Cultural Studies (3:3)
Pr. 701 or 650
Problems and topics in contemporary cultural studies; recent trends, issues, methods in the study of literature as a site of cultural, social, and political reflection. May be repeated once when topic varies.

Studies in Middle English Literature (3:3)
Historical and cultural approach to a major work, author, genre, or topic of Middle English literature. Methodology of medieval scholarship. May be repeated once for credit when topic varies.

Studies in English Renaissance Literature (3:3)
Investigation of selected authors or topics. May be repeated once for credit when topic varies.

Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

Studies in Sixteenth-Century British Literature (3:3)
Works of early Renaissance literature and culture, encompassing significant literary modes, major authors, and European and English intellectual concerns. May be repeated once for credit when topic varies.

Studies in Seventeenth-Century British Literature (3:3)
Selected writers, topics, and genres characteristic of the Stuart era in English literature. Topics include 17th century English lyrics and 17th century prose. May be repeated once for credit when topic varies.

Studies in Shakespeare (3:3)
Problems of text, interpretation, and structural, stylistic, and character analysis of selected plays or poems. May be repeated once for credit when topic varies.

Studies in Eighteenth-Century British Literature (3:3)
Study of a major author, movement, or genre, 1660–1800. May be repeated once for credit when topic varies.

Studies in British Romanticism (3:3)
Study of one or more British Romantic writers, and of Romanticism as a movement. May be repeated once for credit when topic varies.

Studies in Victorian Literature and Culture (3:3)
Topics in Victorian literature, with emphasis on such broad cultural issues as empire, gender, industrialization, or aestheticism. May be repeated once for credit when topic varies.

Twentieth-Century British Literature (3:3)
Selected modern and contemporary writers, such as Conrad, Shaw, Forster, Larkin, Stoppard, and Byatt.

Studies in Modernism (3:3)
Study of literary modernism in the period 1890-1940, with particular emphasis on the range of textual and ideological experiment characteristic of the era. May be repeated once for credit when topic varies.

Postcolonial Literatures (3:3)
Postcolonial literature from South Asia, Africa, the Caribbean, Australia and Canada in critical and historical context. May be repeated once for credit when topic varies.

Studies in American Literature (3:3)
Exploration of topics in American literature to connect works from different periods, genres, and communities, uncovering broad patterns and trends. May be repeated once for credit when topic varies.

Studies in American Literature before 1900 (3:3)
Selected major literary figures and movements. May be repeated once for credit when topic varies.

Studies in American Literature after 1900 (3:3)
Selected major literary figures and movements. May be repeated once for credit when topic varies.

Studies in American Women Writers (3:3)
Intensive study of a particular area of American women’s writing and affiliated critical work. May be repeated once for credit when topic varies.

Studies in African-American Literature (3:3)
Topics, theories, movements, and authors that comprise the African-American literary tradition. May be repeated once for credit when topic varies.

Studies in African-American Literature (3:3)
Literatures of American ethnic groups, especially less-taught texts written by Chicano/Latino/Latina-, Asian-, African-, Native-, and Euro-Americans (Jewish, Italian, Irish, German, etc.). May be repeated once for credit when topic varies.

Studies in Contemporary and Postmodern American Literature (3:3)
Topics in contemporary and postmodern American literature, culture, and theory. May be repeated once for credit when topic varies.

Studies in Rhetorical Theory and Practice (3:3)
Themes, eras, and/or theorists in the history of rhetorical theory and practice. May be repeated once for credit when topic varies.
Seminar in Composition Studies (3:3)
*Pr. 522, 747, or permission of instructor*
Studies in special topics related to literacy, the process of composing, composition pedagogy, and composition research. May be repeated once for credit when topic varies.

Studies in Contemporary Rhetorical Theory (3:3)
Problems and topics in contemporary rhetorical theory; recent trends, issues, methods of rhetorical theory and related disciplines. May be repeated once for credit when topic varies.

Theories and Practices in the Teaching of College English (3:3)
*Pr. teaching assistant appointment in English*
The teaching of English to undergraduates, including theories of literacy and learning.

Directed Reading (3-6)
*Pr. admission to Ph.D. program, 24 hours of course work beyond the M.A., and permission of the Director of Graduate Study*
Individual conferences. Program of reading formulated to meet the varying needs of each student.

Independent Doctoral Study (1-6)
*Pr. 36 hours of Ph.D. course work and permission of Director of Graduate Study*
Intensive review of literature and criticism in a given field in preparation for preliminary examination or dissertation. May be repeated for up to six hours credit. (Graded on S-U basis)

Dissertation (1-21)

Thesis Extension (1-3)

Dissertation Extension (1-3)

Research Extension (1-3)

Writing
The courses below are reserved for full-time M.F.A. candidates.

M.F.A. Fiction Workshop (3:3)

M.F.A. Poetry Workshop (3:3)

Graduate Tutorial in Writing: Fiction (3:3)

Graduate Tutorial in Writing: Poetry (3:3)

Special Problems in Writing (3:3)

Thesis (6)

Thesis Extension (1-3)
Department of

Exercise and Sport Science

250 Health and Human Performance Building
(336) 334-5573 • www.uncg.edu/ess

Professors

Diane L. Gill, Ph.D.
Sport and exercise psychology, social psychological aspects of physical activity and well-being across the lifespan.

Allan H. Goldfarb, Ph.D.
Exercise physiology, hormonal/oxidative stress, muscle damage, glycogen metabolism.

Thomas J. Martinek, Ed.D.
Psycho-social dynamics of teaching and coaching, teacher education, research design and statistics.

David H. Perrin, Ph.D.
Athletic training/sports medicine, ACL injury risk factors.

Kathleen Williams, Ph.D.
Coordination and control of movement in aging adults, evaluation and validation of movement sequences.

Associate Professors

Paul G. Davis, Ph.D.
Exercise and metabolic health, lipoproteins and other cardiovascular disease risk factors, obesity.

Jennifer L. Etnier, Ph.D.
Sport and exercise psychology, exercise and cognitive performance, mental health benefits of physical activity. (Interim Head of Department).

Katherine M. Jamieson, Ph.D.
Social inequities in exercise and sport specifically dealing with women of color and gender and class issues in sport.

William B. Karper, Ed.D.
Exercise effects on ill/disabled children and adults, older adults and chronic pain conditions.

Randy J. Schmitz, Ph.D.
Athletic training/sports medicine, muscle training, performance, and fatigue, therapeutic modalities in orthopedic rehabilitation.

Sandra J. Shultz, Ph.D.
Athletic training/sports medicine, ACL injury risk factors, hormones and joint laxity, neuromuscular control of knee stability (Director of Graduate Study).

Laurie Wideman, Ph.D.
Exercise endocrinology, body composition and obesity and gender differences in growth hormone in response to exercise.

Adjunct Associate Professors

Daniel Bensimhon, M.D.
Exercise physiology.

Lavon Williams, Ph.D.
Sport and exercise psychology.

Assistant Professors

Jolene M. Henning, Ed.D.
Athletic training/sports medicine, evidence-based educational practices, clinical education, learning theories.

Kurt Kornatz, Ph.D.
Neuromuscular processes involved in human movements with an emphasis on changes due to aging, exercise, and fatigue.

Renee Newcomer Appaneal, Ed.D.
Sport and exercise psychology, psychological aspects of sport injury and rehabilitation, performance psychology, professional issues.
The Department of Exercise and Sport Science offers master’s degree programs in several areas of study including: exercise physiology, sport and exercise psychology, school and community youth sport studies, sports medicine, motor behavior, and athletic training.

Students who wish to pursue the Master of Science or Master of Education degree in exercise and sport science may apply for either the thesis/project option (30 hours minimum) or the course work only option (36 hours minimum). All master’s students may take a general course of study in exercise and sport science. Concentrations in applied neuromechanics, exercise physiology, school and community youth sport studies, and sport and exercise psychology are offered in the M.S. thesis/project option. Concentrations in exercise physiology, motor behavior, sport and exercise psychology, and sports medicine are offered in the M.S. course work only option. A concentration in school and community youth sport studies is also available in the M.Ed. course work only option.

The entry-level Master of Science in Athletic Training, accredited by the Commission on Accreditation of Athletic Training Education (CAATE), provides academic and clinical instruction sufficient for eligibility to sit for the National Athletic Trainers’ Association Board of Certification (BOC) Examination.

M.S.A.T. Admission Requirements

Admission to the M.S.A.T. is competitive, limited, and not guaranteed to those who meet the minimum requirements. In addition to the admission requirements set forth by The Graduate School, applicants must also submit supplemental materials to the department as well as the Director of the Athletic Training Education Program as described at www.uncg.edu/ess/atep. The following prerequisites are required for admission eligibility and must be verifiable during the application process:

1. Satisfactory completion (C or better) of prerequisite course work in human anatomy (lecture and lab), human physiology (lecture and lab), exercise physiology, biomechanics/kinesiology, nutrition, and personal health. (Course syllabi must be submitted to the Program Director with the application.)

2. A minimum of 200 hours of clinical observation/experience under a Certified Athletic Trainer within 2 years prior to program application.

The application deadline is January 15 of each calendar year after which qualified applicants will be invited by the Program Director to an on-campus visit for a personal interview at the applicant’s expense. Students must also verify that they can comply with the program’s technical standards. Detailed information regarding the application process, technical standards, expenses, prerequisites, and post-admission requirements are available at www.uncg.edu/ess/atep.
Requirements for the Master of Education in Exercise and Sport Science

The Department of Exercise and Sport Science offers a program of study leading to a Master of Education degree. The thesis/project option requires a minimum of 30 hours and the course work only option requires a minimum of 36 hours. A minimum of 24 hours must be completed in the department.

Core Requirements (6 hours)
One course in each of the two discipline-focused areas is selected in consultation with the advisor. Other courses may be acceptable with instructor and advisor approval.

Sociohistorical/Behavioral Studies (3 hours)
Acceptable courses include:
- ESS 630  Sport and Society: Social Inequalities (3)
- ESS 632  Sport and Society: Global and Ethnic Relations (3)
- ESS 644  Psychology of Sport and Exercise (3)
- ESS 647  Motor Development and Human Movement (3)
- ESS 648  Learning and Performance of Physical Skills (3)
- ESS 656  Psycho-Social Aspects of Teaching Physical Education and Sport (3)

Biophysical Studies (3 hours)
Acceptable courses include:
- ESS 576  Nutrition and Physical Fitness (3)
- ESS 579  Exercise and Older Adults (3)
- ESS 643  Mechanical Analysis of Motor Skills (3)
- ESS 670  Physiology of Exercise (3)
- ESS 718  Cardiovascular Aspects of Exercise Physiology (3)
- ESS 719  Muscular Aspects of Exercise Physiology (3)

Research Techniques (3 hours)
ESS 611  Research Methods for Exercise and Sport Science (3)

THESIS/PROJECT OPTION (21 HOURS)

Physical Education (3 hours)
ESS 655  Analysis of Teaching Behavior (3)

Electives (12 hours)
With approval of the advisor, the student selects 12 hours of course work in the School of Education. The following course is strongly recommended:
- ESS 656  Psycho-Social Aspects of Teaching Physical Education and Sport (3)

Research and Thesis (6 hours) (Capstone)
One of the following:
- ESS 698  Field Project in Exercise and Sport Science (6)
- ESS 699  Thesis (6)

COURSE WORK ONLY OPTION (27 HOURS)

Physical Education (3 hours)
ESS 655  Analysis of Teaching Behavior (3)

Electives (24 hours)
With approval of the advisor, the student selects 24 hours of elective course work with a minimum of 6 hours taken in the School of Education. ESS 656 Psycho-Social Aspects of Teaching Physical Education and Sport (3) is strongly recommended.

Integrative Experience (Capstone)
With approval of the advisor, the student selects one of the following (if a course option is selected, the hours are included in electives):
1. Comprehensive Examination. The student’s advisor and two other Graduate Faculty members, in consultation with the student, develop one comprehensive examination question that requires integration of various bodies of knowledge related to the student’s course of study. The question should also be related to the student’s particular professional focus. The student may use the full range of available scholarly resources including discussion with faculty in developing the answer. The completed answer must be submitted within six weeks after receiving the question. All three faculty members evaluate the questions using “pass” and “not pass” standards.
2. ESS 595 Exercise Science Internship (3) or (6)
3. ESS 694 Internship in Sport and Exercise Science (3-6)
4. ESS 695 Independent Study (1-3)
5. ESS 697 Field Practicum in Exercise and Sport Science (3-6)

SCHOOL AND COMMUNITY YOUTH SPORT STUDIES CONCENTRATION (27 hours)

Concentration Core (6 hours)
ESS 520  Physical Activity Programs for the Underserved Youth (3) or ESS 656 Psycho-Social Aspects of Teaching Physical Education and Sport (3)
ESS 655  Analysis of Teaching Behavior (3) or ESS 663 Supervision of Physical Education (3)

And a minimum of 12 hours from the following:
- ESS 519  Mentoring in Community Youth Development Programs (3)
- ESS 521  Evaluation of Physical Activity Programs in Youth Development (3)
- ESS 652  Curriculum Development in Physical Education (3)
- CUI 545  Diverse Learners (3)
- CUI 555  Multicultural Education (3)
- CUI 610  Integrating Technology into Subject Matter Instruction (3)
- CUI 650  The Interaction of Classroom Management and Instruction (3)
- CUI 654  Teaching Models and Analysis of Instruction (3)
The Department of Exercise and Sport Science offers a program of study leading to a Master of Science degree. The thesis/project option requires a minimum of 30 hours and the course work only option requires a minimum of 36 hours. A minimum of 24 hours must be completed in the department.

Core Requirements (6 hours)
One course in each of the two discipline-focused areas is selected in consultation with the advisor. Other courses may be acceptable with instructor and advisor approval.

Sociohistorical/Behavioral Studies (3 hours)
Acceptable courses include:
- ESS 630 Sport and Society: Social Inequalities (3)
- ESS 632 Sport and Society: Global and Ethnic Relations (3)
- ESS 644 Psychology of Sport and Exercise (3)
- ESS 647 Motor Development and Human Movement (3)
- ESS 648 Learning and Performance of Physical Skills (3)
- ESS 656 Psycho-Social Aspects of Teaching Physical Education and Sport (3)

Biophysical Studies (3 hours)
Acceptable courses include:
- ESS 576 Nutrition and Physical Fitness (3)
- ESS 579 Exercise and Older Adults (3)
- ESS 643 Mechanical Analyses of Motor Skills (3)
- ESS 670 Physiology of Exercise (3)
- ESS 718 Cardiovascular Aspects of Exercise Physiology (3)
- ESS 719 Muscular Aspects of Exercise Physiology (3)

Research Techniques (3 hours)
ESS 611 Research Methods for Exercise and Sport Science (3)

THESIS/PROJECT OPTION

Research and Thesis (6 hours) (Capstone)
One of the following:
- ESS 698 Field Project in Exercise and Sport Science (6)
- ESS 699 Thesis (6)

Electives (15 hours)
With approval of the advisor, the student selects 15 hours of course work that constitute a specialized knowledge base relevant to the student’s academic interests and goals. For those seeking a concentration in applied neuromechanics, exercise physiology, or sport and exercise psychology, the 15 hours are designated below. For those seeking a concentration in school and community youth sport studies, 12 of the 15 hours are designated below.

APPLIED NEUROMECHANICS CONCENTRATION

Concentration Core (9 hours)
Acceptable courses include:
- ESS 643 Mechanical Analyses of Motor Skills (3)
- ESS 647 Motor Development and Human Movement (3)
- ESS 648 Learning and Performance of Physical Skills (3)
- ESS 661 Movement Therapy (3)
- ESS 670 Physiology of Exercise (3)
- ESS 679 Exercise and Older Adults: Advanced (3)

Concentration Electives (6 hours)
With approval of the advisor, the student selects 6 hours of elective course work.

EXERCISE PHYSIOLOGY CONCENTRATION

Core Required Course (3 hours)
ESS 670 Physiology of Exercise (3) (Satisfies Biophysical Core Requirement)

Concentration Core (6 hours)
Acceptable courses include:
- ESS 576 Nutrition and Physical Fitness (3)
- ESS 579 Exercise and Older Adults (3)
- ESS 650 Scientific Factors Affecting Human Performance (3)
- ESS 665 Physical Activity and Health (3)
- ESS 667 Exercise Electrocardiography and Cardiopulmonary Medications (3)
- ESS 668 Advanced Exercise Assessment (3)
- ESS 669 Advanced Exercise Prescription (3)
- ESS 675 Applied Human Work Physiology (3)
- ESS 679 Exercise and Older Adults: Advanced (3)
- ESS 696 Laboratory Technology in Exercise Science (1-2)
- ESS 718 Cardiovascular Aspects of Exercise Physiology (3)
- ESS 719 Muscular Aspects of Exercise Physiology (3)

Integrative Experience (3 hours minimum)
(Capstone)
ESS 694 Internship in Sport and Exercise Science (3-6) or ESS 695 Independent Study (1-3) or ESS 697 Field Practicum in Exercise and Sport Science (3-6)

Elective (3 hours)
Three credit hours are chosen from required courses or integrative experiences listed above.
Concentration Electives (9 hours)
With approval of the advisor, the student selects 9 hours of elective course work.

SCHOOL AND COMMUNITY YOUTH SPORT STUDIES CONCENTRATION
Concentration Core (12 hours)
ESS 520 Physical Activity Programs for the Underserved Youth (3) or ESS 656 Psycho-Social Aspects of Teaching Physical Education and Sport (3)
ESS 655 Analysis of Teaching Behavior (3) or ESS 663 Supervision of Physical Education (3)

And a minimum of 6 hours from the following:
ESS 519 Mentoring in Community Youth Development Programs (3)
ESS 521 Evaluation of Physical Activity Programs in Youth Development (3)
ESS 652 Curriculum Development in Physical Education (3)
CUI 545 Diverse Learners (3)
CUI 555 Multicultural Education (3)
CUI 610 Integrating Technology into Subject Matter Instruction (3)
CUI 650 The Interaction of Classroom Management and Instruction (3)
CUI 654 Teaching Models and Analysis of Instruction (3)
CUI 669 Educational Implications of Learning and Developmental Theory (3)
ELC 581 Teaching in the Urban School (3)
ELC 604 Moral Dimensions of Education (3)
ELC 615 Foundations of Curriculum (3)
ELC 662 Power, Politics and Schools (3)
ELC 679 History of Education in the United States (3)
CED 610 Helping Relationships (3)
HEA 617 Conflict Resolution and Coalition Building (3)
RPT 613 Recreation, Parks and Tourism Management (3)

SPORT AND EXERCISE PSYCHOLOGY CONCENTRATION
Core Required Course (3 hours)
ESS 644 Psychology of Sport and Exercise (3) (Satisfies Sociocultural/Behavioral Core requirement)

Concentration Core (6 hours)
Acceptable courses include:
ESS 635 Gender Issues in Exercise and Sport (3)
ESS 645 Exercise Psychology (3)
ESS 665 Physical Activity and Health (3)
ESS 695 Independent Study (Sport and Exercise Psychology topic) (1-3)
ESS 743 Psychological Aspects of Sport Injury (3)
ESS 744 Applied Sport Psychology (3)
ESS 745 Social Psychology and Physical Activity (3)
ESS 746 Practicum in Applied Sport and Exercise Psychology (1-6)
ESS 748 Advanced Topics in Sport and Exercise Psychology (topics vary) (3)

Concentration Electives (9 hours)
With approval of the advisor, the student selects 9 hours of elective course work.

EXERCISE PHYSIOLOGY CONCENTRATION
Core Required Course (3 hours)
ESS 670 Physiology of Exercise (3) (Satisfies Biophysical Core Requirement)

Concentration Core (12 hours minimum)
Acceptable courses include:
ESS 570 Development and Implementation of Fitness Programs (3)
ESS 576 Nutrition and Physical Fitness (3)
ESS 579 Exercise and Older Adults (3)
ESS 650 Scientific Factors Affecting Human Performance (3)
ESS 665 Physical Activity and Health (3)
ESS 667 Exercise Electrocardiography and Cardiopulmonary Medications (3)
ESS 668 Advanced Exercise Assessment (3)
ESS 669 Advanced Exercise Prescription (3)
ESS 675 Applied Human Work Physiology (3)
ESS 679 Exercise and Older Adults: Advanced (3)
ESS 696 Laboratory Technology in Exercise Science (1-2)
ESS 718 Cardiovascular Aspects of Exercise Physiology (3)
ESS 719 Muscular Aspects of Exercise Physiology (3)

Concentration Electives (15 hours)
With approval of the advisor, the student selects 15 hours of elective course work.

COURSE WORK ONLY OPTION
Integrative Experience (Capstone)
With approval of the advisor, the student selects one of the following (if a course option is selected, the hours are included in electives):
1. Comprehensive Examination. The student’s advisor and two other Graduate Faculty members, in consultation with the student, develop one comprehensive examination question that requires integration of various bodies of knowledge related to the student’s course of study. The question should also be related to the student’s particular professional focus. The student may use the full range of available scholarly resources including discussion with faculty in developing the answer. The completed answer must be submitted within six weeks after receiving the question. All three faculty members evaluate the questions using “pass” and “not pass” standards.
2. ESS 595 Exercise Science Internship (3) or (6)
3. ESS 694 Internship in Sport and Exercise Science (3-6)
4. ESS 695 Independent Study (1-3)
5. ESS 697 Field Practicum in Exercise and Sport Science (3-6)

Electives (27 hours minimum)
With approval of the advisor, the student selects a minimum of 27 hours of course work that constitutes a specialized knowledge base relevant to the student’s academic interests and goals. For those seeking a concentration in exercise physiology, motor behavior, or sport and exercise psychology, the specific course requirements follow.
MOTOR BEHAVIOR CONCENTRATION

Concentration Core (12 hours)
Acceptable courses include:
- ESS 643 Mechanical Analyses of Motor Skills (3)
- ESS 647 Motor Development and Human Movement (3)
- ESS 648 Learning and Performance of Physical Skills (3)
- ESS 651 Motor Behavior and Aging (3)
- ESS 661 Movement Therapy (3)
- ESS 695 Independent Study (3)
- ESS 719 Muscular Aspect of Exercise Physiology (3)
- ESS 730 Neural Aspect of Motor Control (3)

Concentration Electives (15 hours)
With approval of the advisor, the student selects 15 hours of elective course work.

SPORT AND EXERCISE PSYCHOLOGY CONCENTRATION

Core Required Course (3 hours)
ESS 644 Psychology of Sport and Exercise (3) (Satisfies Sociocultural/Behavioral Core requirement)

Concentration Core (6 hours minimum)
Acceptable courses include:
- ESS 635 Gender Issues in Exercise and Sport (3)
- ESS 645 Exercise Psychology (3)
- ESS 665 Physical Activity and Health (3)
- ESS 695 Independent Study (Sport and Exercise Psychology topic) (1-3)
- ESS 743 Psychological Aspects of Sport Injury (3)

Concentration Electives (21 hours)
With approval of the advisor, the student selects 21 hours of elective course work.

SPORTS MEDICINE CONCENTRATION

Concentration Core (12 hours minimum)
Acceptable courses include:
- ESS 576 Nutrition and Physical Fitness (3)
- ESS 638 Therapeutic Modalities (3)
- ESS 643 Mechanical Analysis of Motor Skills (3)
- ESS 670 Physiology of Exercise (3)
- ESS 708 College Teaching in Exercise and Sport Science (1)
- ESS 709 Mentored Teaching in Exercise and Sport Science (2)
- ESS 720 Pathophysiology and Pharmacology (3)
- ESS 725 Management and Professional Issues in Athletic Training (3)
- ESS 730 Neural Aspect of Motor Control (3)
- ESS 743 Psychological Aspects of Sport Injury (3)

Concentration Electives (15 hours)
With approval of the advisor, the student selects 15 hours of elective course work.

MSAT Requirements for the Master of Science in Athletic Training

The Department of Exercise and Sport Science offers a graduate program leading to a 46 hour Master of Science in Athletic Training (M.S.A.T.) degree.

Core Requirements (6 hours)
- ESS 743 Psychological Aspects of Sport Injury (3)
- ESS 638 Therapeutic Modalities (3)

Research Techniques (3 hours)
- ESS 611 Research Methods for Exercise and Sport Science (3)

Athletic Training Requirements (25 hours)
- ESS 536 Anatomical Basis of Athletic Injury (2)
- ESS 634 Athletic Training Foundations (2)
- ESS 636 Athletic Injury Evaluation (3)
- ESS 637 Athletic Injury Evaluation Laboratory (1)
- ESS 639 Therapeutic Modalities Laboratory (1)
- ESS 640 Rehabilitation Techniques for Athletic Injuries (3)
- ESS 641 Rehabilitation Techniques Laboratory (1)
- ESS 703 Optimizing Athletic Performance (1)
- ESS 704 Athletic Training Seminar (1)
- ESS 705 Applied Rehabilitation Concepts (1)
- ESS 720 Pathophysiology and Pharmacology (3)

Integrative Experience (12 hours)
- ESS 620 Athletic Training Clinical Experience (6) (taken two times for 3 hours each in the first two semesters of the student’s program of study)

*Indicates Capstone Experience

Non-credit Professional Development Requirements
In addition to the 46 credit hours of course work, students are required to gain approximately two weeks of clinical experience during assigned pre-season athletic practices during August of each year in the program. Students are also required to attend weekly in-services and journal club sessions during each of the fall and spring semesters in the program.
Requirements for the Doctor of Education in Exercise and Sport Science

The Department of Exercise and Sport Science offers a program of study leading to the Doctor of Education (Ed.D.) degree with a minimum of 63 hours of course work. The Ed.D. is for experienced exercise and sport science professionals with a minimum of 3 years of practical experience in their respective field who desire to obtain a professional doctorate that focuses on professional practice and multidisciplinary issues.

Of the 63 hours of required course work, a minimum of 24 hours must be completed in ESS, excluding dissertation hours.

Teaching and Learning (6 hours minimum)
Students select a minimum of 6 hours from the following. Other courses may be acceptable with advisor and committee approval.

ESS 652 Curriculum Development in Physical Education (3)
ESS 655 Analysis of Teaching Behavior (3)
ESS 656 Psycho-Social Aspects of Teaching Physical Education and Sport (3)
ESS 663 Supervision of Physical Education (3)
ESS 708 College Teaching in Exercise and Sport Science (3)
CUI 607 Adult Learning and College Teaching (3)
CUI 611 Survey of Adult Education (3)
CUI 662 Curriculum in Higher Education (3)
CUI 664 Teaching Problem Solving (3)
ELC 609 Epistemology and Education (3)

Leadership in Exercise and Sport Science (6 hours minimum)
Students select a minimum of 6 hours from the following. Other courses may be acceptable with advisor and committee approval.

ESS 725 Management and Professional Issues in Athletic Training (3)
CUI 606 Administration of Higher Education (3)
CUI 612 Current Issues in Higher Education (3)
CUI 661 Higher Education in the U.S. (3)
CUI 663 Program Planning in Postsecondary Education (3)

Interdisciplinary Concepts (6 hours minimum)
Students select a minimum of 6 hours from the following and must include 2 different subdisciplinary areas. Other courses may be acceptable with advisor and committee approval.

ESS 630 Sport and Society: Social Inequalities (3)
ESS 632 Sport and Society: Global and Ethnic Relations (3)
ESS 635 Gender Issues in Exercise and Sport (3)
ESS 643 Mechanical Analysis of Motor Skills (3)
ESS 644 Psychology of Sport and Exercise (3)
ESS 647 Motor Development and Human Movement (3)

ESS 648 Learning and Performance of Physical Skills (3)
ESS 665 Physical Activity and Health (3)
ESS 670 Physiology of Exercise (3)
ESS 710 Sport and Feminisms (3)
ESS 743 Psychological Aspects of Sport Injury (3)
CUI 745 Higher Education: Equity, Inclusion, and Learning (3)

Research/Inquiry/Problem-Solving (9 hours)
With the approval of the advisory committee, students select at least 9 hours from the following. Other courses may be acceptable with advisor and committee approval.

ESS 611 Research Methods for Exercise and Sport Science (3)
ESS 614 Qualitative Inquiry in Health and Human Performance (3)
CUI 675 Teacher as Researcher (3)
CUI 730 Qualitative Research Design in Curriculum and Instruction (3)
ERM 604 Methods of Educational Research (3)
ERM 617 Statistical Methods in Education (3)
ERM 642 Evaluation of Educational Programs (3)
ERM 643 Applied Educational Evaluation (3)
ERM 668 Survey Research Methods in Education (3)

Background Course Work in Support of Dissertation (12 hours)
With the approval of the advisory committee, students select at least 12 hours of course work relevant to the dissertation and ultimate professional goals. This may be a combination of traditional course work and independent study (no more than 6 hours of independent study). This course work may be taken in exercise and sport science and/or other departments at UNCG.

Seminars (6 hours)
ESS 750 Seminar in Exercise and Sport Science (3)
ESS 751 Advanced Research Seminar in Exercise and Sport Science (3)

Internship (6 hours)
ESS 694 Internship in Sport and Exercise Science (3-6)

Dissertation (12 hours)
ESS 799 Dissertation (12)
The Department of Exercise and Sport Science offers a combined M.S./Ph.D. Track that consists of a minimum of 78 hours beyond the baccalaureate degree. Exceptional students who have an appropriate baccalaureate degree and who demonstrate superior ability and a high level of motivation and dedication to research and learning are eligible to apply directly into the M.S./Ph.D. Track. Current master's degree students in exercise and sport science who wish to pursue the Ph.D. may apply once they have completed at least 18 credits of foundational course work in their discipline, have demonstrated dedication to research, and have not yet formally proposed their thesis.

It is anticipated that the Plan of Study for the M.S./Ph.D. Track will reasonably span 5 years. By the end of Year 2, students will enroll in a minimum of 6 hours of integrative/research related activity to meet the requirements of the M.S. degree if they choose not to continue on to completion of the Ph.D. degree. For those students already enrolled in the M.S. degree, it is expected their M.S. course work will already include many of the foundational courses for their discipline. In this case, additional course work in Years 3 and 4 will primarily consist of intensive research and dissertation credit hours. Specific course work will be determined by the student’s advisor and advisory committee, consistent with each sub-discipline. A general outline of requirements follows:

Requirements (78 Hours Minimum)
1. Core courses (6 hours) – One course each in discipline-focused areas of sociohistorical/behavioral and biophysical studies
2. Integrated experience (6 hours)
3. Research methods (3 hours)
4. Research tools and statistics (12 hours)
5. Independent doctoral research (ESS 795) or equivalent (minimum of 6 hours)
6. Electives in major concentration area (33 hours)
7. Dissertation (12 hours)

Items 1-3 plus 15-21 hours of electives are required to complete the M.S. degree. (See the requirements for the M.S. Thesis and Non-Thesis options.) Items 1-7 are required to complete the M.S./Ph.D. A minimum of 9 credits must be in courses numbered 750 and above.

Program Progression

Year 1: 18 hours of course work, to include courses related to the research process
Benchmark: Preliminary screening (early/mid semester 2)

Year 2: 18 hours of course work, to include courses related to the research process
Benchmark: Oral and written demonstration of research competence (end of semester 2)

Years 3-4: Completion of remaining course work
Benchmark: Comprehensive examination (oral and written)

Year 5: 12 hours dissertation
Benchmark: Completion of and oral defense of dissertation

Required Benchmarks
Continued progression in the M.S./Ph.D. track is contingent on satisfactory progress through each year of study. Progress will be formally assessed each Spring as follows:

Year 1: Preliminary Screening (Early/Mid Spring)
The preliminary screening will consist of a formal evaluation of the scholarly work completed from the time of admission through the completion of 18 hours of course work (counting work in progress in a current term). This screening must occur during the second semester of study, so that a decision can be made prior to admission and graduate assistantship decisions for the upcoming Fall. An advisory committee consisting of a minimum of 3 members (the student’s advisor, Director of Graduate Study, and at least one other) will conduct the first year preliminary screening review. The intent is to determine relatively early in students academic careers whether or not they display the high quality of academic achievement necessary to pursue and successfully complete the doctoral degree. Excellent students will be encouraged to continue in the program. Students who do not meet the requirements will be strongly urged through counseling by their advisory/dissertation committee to complete the M.S. degree level and pursue other intellectual/career avenues.

Procedures for Preliminary Screening Review are available on the ESS web site www.uncg.edu/ess/phd-prelim.html.
In order to progress to Year 2, all members of the student’s preliminary screening committee must review all criteria and confirm satisfactory progress in the preliminary evaluation.

**Year 2: Research Competence (End of Spring Semester)**

Students will be expected to be actively engaged in research from the beginning of their studies in Year 1. In Year 2, students will be expected to complete a comprehensive research project by the end of their second year of study. This project should encompass all aspects of the research process, including the following:

- Conception and design of the project
- Acquisition and reduction of the data
- Analysis and interpretation of the data

- Written summary of the work (e.g. Submission ready manuscript)
- Oral presentation of the work

To progress to Year 3, the student’s M.S./Ph.D. advisory committee must approve the work.

**Year 4: Comprehensive Examination**

When the student has completed a minimum of ¾ of the course work (60 hours) contained in the program of study and completed the research skill requirements, they are then eligible to take the comprehensive examinations. Each doctoral student is required to pass the doctoral preliminary examinations which consist of both a written and oral examination, per the guidelines of The Graduate School and the Department of Exercise and Sport Science.

For more information and a sample program of study, please visit www.uncg.edu/ess/grad.html.

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**PhD Requirements for the Doctor of Philosophy in Exercise and Sport Science**

The Department of Exercise and Sport Science offers a graduate program of study leading to a Ph.D. degree with a minimum of 60 semester hours. Some students are required to take additional hours beyond the minimum. Students may choose to take a general course of study in exercise and sport science or choose from three concentration area: applied neuromechanics, exercise physiology, and sport and exercise psychology. Students must complete a minimum of 24 hours in ESS, excluding dissertation hours.

**Research Techniques (12 hours)**

With the approval of the Advisory Committee, the student selects a minimum of 12 hours of course work focused on research techniques.

**Electives (36 hours)**

With the approval of the Advisory Committee, the student selects at least 36 hours of course work tailored to meet his/her particular academic goals. This should include course work in a specialized knowledge base and course work in other areas of exercise and sport science and/or other departments. For those seeking a concentration in applied neuromechanics, exercise physiology, or exercise and sport psychology the 36 hours are designated as follows.

**Collateral Expertise**

The student is expected to work on research projects beyond those required in courses and to demonstrate to the faculty of the Department that progress in these endeavors is satisfactory.

The Department does not recognize summer session as part of the residency requirement for Ph.D. students. Two consecutive 15-week semesters of study in which a student is enrolled for a minimum of 6 hours of course work each term is needed to satisfy the residency requirement. Course work taken in summer sessions may, of course, be included in a student’s program.

**Applied Neuromechanics Concentration**

**Concentration Core (24 hours)**

ESS 643 Mechanical Analyses of Motor Skills (3)
ESS 702 Seminar in Applied Neuromechanics (3)
ESS 708 College Teaching in Exercise and Sport Science (1)
ESS 709 Mentored Teaching in Exercise and Sport Science (2)
ESS 719 Muscular Aspects of Exercise Physiology (3)
ESS 730 Neural Aspects of Motor Control (3)
ESS 795 Independent Doctoral Research (6)
ESS 798 Doctoral Seminar in Grant Writing (3)

**Concentration Electives (12 hours)**

With approval of the advisor, students must complete a minimum of 12 hours of course work in other areas of exercise and sport science.

**Exercise Physiology Concentration**

**Concentration Core (9 hours)**

ESS 670 Physiology of Exercise (3)
ESS 718 Cardiovascular Aspects of Exercise Physiology (3)
ESS 719 Muscular Aspects of Exercise Physiology (3)
Exercise and Sport Science Courses

A minimum GPA of 2.3 at UNCG is required for an undergraduate to enroll in 500-level ESS courses.

519 **Mentoring in Community Youth Development Programs (2)**
Service learning experience mentoring an elementary or middle school youth in a community sport program. On campus seminars required. May be repeated for credit.

520 **Physical Activity Programs for Underserved Youth (3:3)**
Overview of community-based programs designed to meet the needs of underserved youth; roles of universities and community agencies in such programs; development of leadership skills.

521 **Evaluation of Physical Activity Programs in Youth Development (3:3)**
Pr. 520
Examination of traditional and nontraditional strategies for effective youth program evaluation; attention to analysis and interpretation of data used in conducting such evaluations.

ESS 576 Nutrition and Physical Fitness (3)
ESS 650 Scientific Factors Affecting Human Performance (3)
ESS 665 Physical Activity and Health (3)
ESS 667 Exercise Electrocardiography and Cardiopulmonary Medications (3)
ESS 668 Advanced Exercise Assessment (3)
ESS 669 Advanced Exercise Prescription (3)
ESS 675 Applied Human Work Physiology (3)
ESS 679 Exercise and Older Adults: Advanced (3)
ESS 696 Laboratory Technology in Exercise Science (1-2)
ESS 701 Research Topic in Exercise Science (3)
ESS 7** Endocrinology Aspects of Exercise Physiology (3)

**Required Research prior to Dissertation**
(6 hours minimum)
ESS 695 Independent Study (3-6)
ESS 795 Independent Doctoral Research (3-6)

**Concentration Electives (9 hours)**
With approval of the advisor, students must complete a minimum of 9 hours of course work in other areas of exercise and sport science.

**SPORT AND EXERCISE PSYCHOLOGY CONCENTRATION**

**Concentration Core (9 hours)**
Specialization area courses relate to the student’s research focus and sport/exercise psychology interests. Course work should include advanced sport/exercise psychology courses (e.g., ESS 744, 745, advanced topics). Acceptable courses include:

ESS 635 Gender Issues in Exercise and Sport (3)
ESS 644 Psychology of Sport and Exercise (3)
ESS 645 Exercise Psychology (3)
ESS 665 Physical Activity and Health (3)
ESS 695 Independent Study (Sport and Exercise Psychology topic) (1-3)
ESS 743 Psychological Aspects of Sport Injury (3)
ESS 744 Applied Sport Psychology (3)
ESS 745 Social Psychology and Physical Activity (3)
ESS 746 Practicum in Applied Sport and Exercise Psychology (1-6)
ESS 748 Advanced Topics in Sport and Exercise Psychology (topics vary) (3)
ESS 795 Independent Doctoral Research (3)

ESS 635 Gender Issues in Exercise and Sport (3)
ESS 644 Psychology of Sport and Exercise (3)
ESS 645 Exercise Psychology (3)
ESS 665 Physical Activity and Health (3)
ESS 695 Independent Study (Sport and Exercise Psychology topic) (1-3)
ESS 743 Psychological Aspects of Sport Injury (3)
ESS 744 Applied Sport Psychology (3)
ESS 745 Social Psychology and Physical Activity (3)
ESS 746 Practicum in Applied Sport and Exercise Psychology (1-6)
ESS 748 Advanced Topics in Sport and Exercise Psychology (topics vary) (3)
ESS 795 Independent Doctoral Research (3)

ESS 695 Independent Study (Sport and Exercise Psychology topic) (1-3)
ESS 744 Applied Sport Psychology (3)
ESS 745 Social Psychology and Physical Activity (3)
ESS 746 Practicum in Applied Sport and Exercise Psychology (1-6)
ESS 748 Advanced Topics in Sport and Exercise Psychology (topics vary) (3)
ESS 795 Independent Doctoral Research (3)

**Concentration Electives (27 hours)**
With approval of the advisor, students must complete a minimum of 27 hours of elective course work.

**Formal Reviews and Examinations**
The student must pass each of the reviews and examinations listed below. See this catalog and the ESS Graduate Handbook for details.

1. Approval of Plan of Study
2. Preliminary examination
3. Dissertation proposal approval
4. Advancement to candidacy
5. Final oral examination

**Dissertation (12 hours)**
ESS 799 Dissertation (12)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>535</td>
<td>Exercise Science/Fitness Internship (3:0:8)</td>
<td>Pr. 575 and 568 and permission of instructor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Field experience in fitness leadership in qualified agencies providing fitness programs. Students must purchase professional liability insurance.</td>
</tr>
<tr>
<td>536</td>
<td>Anatomical Basis of Athletic Injury (2:1:3)</td>
<td>Pr. undergraduate anatomy and physiology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The link between anatomical structure, function, and athletic injury evaluation; the functional consequence of injury and rehabilitation on anatomical structures.</td>
</tr>
<tr>
<td>545</td>
<td>Psychology of Coaching (3:3)</td>
<td>Pr. PSY 121 or permission of instructor</td>
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<tr>
<td></td>
<td></td>
<td>Overview of sport psychology principles applied to the teaching and coaching of sport activities. Primarily for students who do not take the graduate sports psychology sequence.</td>
</tr>
<tr>
<td>550</td>
<td>Sports Clinic (1)</td>
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<tr>
<td></td>
<td></td>
<td>Designed to improve teaching and coaching techniques in various sports utilizing current game strategies.</td>
</tr>
<tr>
<td>559</td>
<td>Water Exercise for Therapy and Rehabilitation (3:2:2)</td>
<td>Pr. 375 or 376 (may be taken concurrently)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Design and implement aquatic therapy exercise programs for persons with injuries or disabilities. Aquatic exercise/stretching protocols will be based on an understanding of anatomical structure and movement.</td>
</tr>
<tr>
<td>560</td>
<td>Aquatic Therapeutic Modalities (3:2:2)</td>
<td>Pr. 459 or 559 recommended or permission of instructor</td>
</tr>
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<td></td>
<td>Topics include mobility assessment and identification of contraindications for movement therapies used in therapeutic aquatics: development of techniques and protocols to increase mobility/decrease pain in persons with disability/injury.</td>
</tr>
<tr>
<td>563</td>
<td>Development of Physical Education in the Western World (3:3)</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Historical overview of the development of physical education in Western civilization from classical times to the present age.</td>
</tr>
<tr>
<td>565</td>
<td>History of the Olympic Games (3:3)</td>
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<tr>
<td></td>
<td></td>
<td>Development of the Olympic Games movement in both the ancient world and the modern era. Consideration of cultural, philosophical, political, economic, and performance perspectives.</td>
</tr>
<tr>
<td>567</td>
<td>Measurement and Evaluation in Physical Education (3:3)</td>
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<tr>
<td></td>
<td></td>
<td>Survey of tests and application of measurement in physical education. Elementary testing procedures.</td>
</tr>
<tr>
<td>570</td>
<td>Development and Implementation of Fitness Programs (3:3)</td>
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<tr>
<td></td>
<td></td>
<td>Pr. 468 and 469, GPA of 2.5, and admission to the fitness leadership concentration, or permission of instructor; grades of C (2.0) or better in all required ESS courses</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Preparation in planning, designing, developing, organizing, programming, implementing, directing and evaluating fitness programs.</td>
</tr>
<tr>
<td>571</td>
<td>Physical Education for Individuals with Special Needs (3:3)</td>
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<td>Pr. 381 or permission of instructor</td>
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<tr>
<td></td>
<td></td>
<td>Advanced study of physical education for mentally and physically disabled persons. Clinical experience is provided.</td>
</tr>
<tr>
<td>576</td>
<td>Nutrition and Physical Fitness (3:3)</td>
<td>Pr. BIO 277 and NTR 213 or equivalent required; ESS 375 or 575 recommended</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Metabolism during exercise, ergogenic aids, nutrients’ effects on performance, and body composition alterations during training. Gender and age-specific needs and responses to exercise and dietary intake. (Same as NTR 576)</td>
</tr>
<tr>
<td>578</td>
<td>Needs Assessment of Persons with Disabling Conditions (3:3)</td>
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<td></td>
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<td>Pr. permission of instructor</td>
</tr>
<tr>
<td>579</td>
<td>Exercise and Older Adults (3:3)</td>
<td>Pr. junior admission only by permission of instructor</td>
</tr>
<tr>
<td></td>
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<td>Basic principles underlying exercise/aging. The delivery of exercise information and the conduct of exercise programs for older adults.</td>
</tr>
<tr>
<td>589</td>
<td>Experimental Course</td>
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<tr>
<td></td>
<td></td>
<td>This number reserved for experimental courses. Refer to the Course Schedule for current offerings.</td>
</tr>
<tr>
<td>595</td>
<td>Exercise Science Internship (3:1:10) or (6:1:20)</td>
<td>Pr. permission of instructor; cumulative GPA of 2.50 or better; admission to the fitness leadership concentration; completion of all ESS core courses and additional concentration courses except 570; grades of “C” or better in all required ESS courses. Coreq. 570 must be taken prior to or concurrent with 595. Application process must be completed prior to registration.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supervised field experience in qualified agencies. Application process required for permission to register. Course involves specific assignments, supervision, seminars on campus, and evaluation of student’s performance. May be repeated for credit if taken for 3 hours; total credits may not exceed 6 hours.</td>
</tr>
<tr>
<td>606</td>
<td>Workshops in Physical Education (1-3)</td>
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<tr>
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<td>Practices, problems, and new approaches in physical education. Individual study and writing. May be repeated for credit.</td>
</tr>
<tr>
<td>609</td>
<td>Critical Analysis of Professional Literature in Physical Education (3:3)</td>
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<tr>
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<td>Understanding and practicing of written and oral skills involving critical reasoning and analysis, applied to current sources in physical education.</td>
</tr>
<tr>
<td>610</td>
<td>Statistical Methods for Exercise and Sport Science (3:3)</td>
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<td>Basic statistics with applications for exercise and sport science.</td>
</tr>
<tr>
<td>611</td>
<td>Research Methods for Exercise and Sport Science (3:3)</td>
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<tr>
<td></td>
<td></td>
<td>Concepts and methods of research for exercise and sport science; formulation of problems, design and methodologies, evaluation of research, development of research proposals.</td>
</tr>
<tr>
<td>612</td>
<td>Research in Exercise and Sport Science I: Advanced Topics (3:3)</td>
<td></td>
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<tr>
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<td></td>
<td>Pr. 611 or permission of instructor</td>
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<tr>
<td></td>
<td></td>
<td>Examination of selected strategies, methods, statistical or interpretative analytic processes used in exercise and sport science research. May be repeated for credit when topic varies.</td>
</tr>
</tbody>
</table>
613 The Meaning and Significance of Physical Education (3:3)
Integration and application of principles related to the art and science of human movement as a foundation for a practical philosophy of contemporary physical education.

614 Qualitative Inquiry in Health and Human Performance (3:3)
Concepts and methods of qualitative research in health and human performance. Philosophical and practical approaches to collection, management, analysis, and presentation of qualitative data.

617 Current Theories and Practice of Teaching Sports (3:3)
Contemporary approaches to sports analysis and sports teaching in instructional physical education.

620 Athletic Training Clinical Experience (3:0:20)
Pr. admission to the M.S.A.T. degree program
Supervised field experience in an assigned athletic training clinical setting. Students are required to complete 300 clock hours under the supervision of an approved clinical instructor. Must be taken twice.

630 Sport and Society: Social Inequalities (3:3)
Pr. 330, introductory sociology, or permission of instructor
Survey of current theories and research in the sociological study of sport, physical activity, and exercise; focus on sport and major social institutions, social inequalities, and social change.

632 Sport and Society: Global and Ethnic Relations (3:3)
Pr. 630 or permission of instructor
Structural and ideological dimensions of international, national, and local sport. Analysis of the political economy of sport, including colonialism, neo-colonialism, national identities, and social movements.

634 Athletic Training Foundations (2:1:3)
Pr. formal acceptance in the M.S. in athletic training program or permission of instructor
Introduction to athletic training emphasizing concepts and skills of prevention of athletic injuries, and management of life-threatening and catastrophic injuries.

635 Gender Issues in Exercise and Sport (3:3)
Interdisciplinary seminar emphasizing psycho-social issues and feminist perspectives on gender relations in sport and physical activity. Topics include historical, biological, psychological and socio-cultural influences and interrelations.

636 Athletic Injury Evaluation (3:3)
Pr. 390, 376, or permission of instructor
Recognizing and evaluating orthopedic injuries commonly sustained in the athletic environment. Additional topics include the body’s pathological response to injury and methods of documentation.

637 Athletic Injury Evaluation Laboratory (1:0:3)
Pr. admission to the M.S.A.T. degree program or permission of instructor
Laboratory course focused on the development of psychomotor competencies in orthopedic injury evaluation. A $25 lab fee for supplies required.

638 Therapeutic Modalities (3:3)
Pr. BIO 271, 277, or permission of instructor
Theoretical foundation of therapeutic modalities as a component of athletic injury reconditioning programs. Theory and clinical aspects of delivery of therapeutic modalities are examined.

639 Therapeutic Modalities Laboratory (1:0:3)
Pr. admission to the M.S.A.T. degree program or permission of instructor
Laboratory course focused on the development of psychomotor competencies in therapeutic modalities. A $25 lab fee for supplies required.

640 Rehabilitation Techniques for Athletic Injuries (3:3)
Pr. BIO 271, 277, or permission of instructor
Awareness, understanding, and application of principles and skills pertaining to rehabilitation of injuries in physically active populations.

641 Rehabilitation Techniques Laboratory (1:0:3)
Pr. admission to the M.S.A.T. degree program or permission of instructor
Laboratory course focused on the development of psychomotor competencies in therapeutic exercise and rehabilitation techniques. A $25 lab fee for supplies required.

643 Mechanical Analysis of Motor Skills (3:3)
Mechanical principles applied to the teaching and analysis of selected sports activities; evaluation of modern bio-mechanical techniques.

644 Psychology of Sport and Exercise (3:3)
Pr. introductory psychology or permission of instructor
Theories and research related to sport psychology; individual differences, motivation and social influence processes related to sport and exercise behavior.

645 Exercise Psychology (3:3)
Pr. 644, 575 or permission of instructor
Examination of the effects of exercise on various factors (e.g., stress, mood) and the effects of psychological variables (e.g., biofeedback, motivation) on exercise.

646 Theoretical Considerations of Physical Education for Children (3:3)
Pr. general and developmental psychology (9 hrs.), or permission of instructor
Theories upon which the current physical education program for children ages 4-12 are based. Relationship between theory and practice and implications for teacher education.

647 Motor Development and Human Movement (3:3)
Pr. 375, 376 or permission of instructor
Changes of motor behavior over time and factors that affect these changes. Ability to observe movement and interpret it developmentally. Laboratory experiences.

648 Learning and Performance of Physical Skills (3:3)
Pr. general and developmental psychology (9 hrs.), or permission of the instructor
Application of principles of learning to the learning and performance of physical skills, including the social, emotional, and personality factors affecting skill acquisition.

650 Scientific Factors Affecting Human Performance (3:3)
Pr. admission to the M.S.A.T. degree program or permission of instructor
Assessment and analysis of human performance through the application of basic principles and current research in biomechanics and exercise physiology.

651 Motor Behavior and Aging (3:3)
Pr. 375, 376 or permission of instructor
Changes in motor behavior over time and factors that affect these changes. Ability to observe movement and interpret it developmentally. Laboratory experiences.

652 Curriculum Development in Physical Education (3:3)
Modern principles and practices in curriculum construction and current theories of physical education.
History of American Sport and Exercise Science (3:3)
Study of development of sport and exercise science in the U.S. with special emphasis on the evolving institutional involvement of schools and colleges.

Seminar in Curriculum Development in Physical Education (3:3)
Pr. 652, ELC 615, or permission of instructor
Current theories and research in curriculum and instruction in the field of physical education.

Analysis of Teaching Behavior (3:3)
Pr. previous teaching experience at elementary, secondary, or college level, or by permission of instructor
Techniques of observation instruments for identifying and evaluating teacher behaviors. Extends the research competencies of those interested in the dynamics of student-teacher relationships.

Psycho-Social Aspects of Teaching Physical Education and Sport (3:3)
Pr. previous teaching experiences or permission of instructor
Social and psychological factors that influence instructional interactions and the perceptions of teachers, coaches and students.

Teacher Education in Physical Education (3:3)
Theoretical and practical dimensions of teacher education programs in physical education as reflected in current texts, accreditation standards, and research in teaching and teacher education. Limited field work included.

Movement Theory (3:3)
The theoretical structure of human movement; opportunity for developing an individual theory of movement.

Supervision of Physical Education (3:3)
Current theoretical approaches to supervision. Practice in using tools for observing teacher behavior in physical education setting.

Physical Activity and Health (3:3)
Pr. 375 or equivalent or permission of instructor
Health benefits and risks of physical activity/exercise.
Course content parallels the 1996 U.S. Surgeon General’s report Physical Activity and Health with updated referencing.

Exercise Electrocardiography and Cardiopulmonary Medications (3:3)
Pr. 375 or equivalent or permission of instructor. Coreq. 670 or permission of instructor
Electrocardiography and mechanisms/side effects of cardiopulmonary medications most likely encountered in clinical exercise settings. Particularly appropriate for students interested in cardiopulmonary rehabilitation and clinical exercise testing.

Advanced Exercise Assessment (3:2:2)
Pr. 468 or equivalent, 670, or permission of instructor
Exercise testing for cardiorespiratory fitness and disease diagnosis. Knowledge of ECG interpretation and cardiorespiratory pharmacology applied to clinical exercise testing. Also covers body composition and musculoskeletal fitness testing.

Advanced Exercise Prescription (3:3)
Pr. 670 or permission of instructor
Prescription of exercise for healthy, at-risk, and diseased individuals. Covers exercise prescription objectives for American College of Sport’s Medicine’s Exercise Specialist and Health Fitness certifications.

Physiology of Exercise (3:3)
Pr. 375 or permission of instructor
In-depth study of the physiological basis of human physical performance with emphasis on the acute response and chronic adaptations of the body to exercise.

Measurement Theory Applied to Physical Education (3:3)
Pr. 650 or equivalent or permission of instructor
Measurement theory necessary to the planning, construction, and use of tests in physical education and athletics.

Applied Human Work Physiology (3:3)
Pr. 375 or equivalent, or by permission of instructor
Physiological factors which influence the exercise and performance capabilities of humans.

Problems Seminar (3:3)
Pr. previous course work in appropriate content areas
Specific course title identified each semester by subscript, e.g., Problems Seminar: Tension and Relaxation Theories Applied to Sports. May be repeated for credit when topic varies.

Exercise and Older Adults: Advanced (3:3)
Pr. previous course work in motor development, motor learning and exercise physiology
Scientific and theoretical bases of exercise/aging and guidelines regarding leadership and planning of exercise programs.

Internship in Sport and Exercise Science (3-6)
Pr. permission of instructor
Supervised field experience appropriate to the student’s interests and background in selected settings during the final phases of the student’s curricular plan. May be repeated once for credit. (Graded on S-U basis)

Independent Study (1-3)
Pr. demonstrated competency for independent work and permission of departmental academic advisor and the instructor
Intensive study in an area of special interest in physical education.

Laboratory Technology in Exercise Science (1:0:3 or 2:0:6)
Pr. 670 or 718 and 643
Cost, function, and operation of laboratory equipment used in the area of exercise science (e.g., oxygen consumption, cinematography, body composition, kinetic analysis, specific computer applications, and timing techniques).

Field Practicum in Exercise and Sport Science (3-6)
Developing, implementing, and/or evaluating a focused set of professional activities in a field setting. Requires guidance, approval, and evaluation by one faculty member. (Graded on S-U basis)

Field Project in Exercise and Sport Science (6)
Pr. approved candidates for the master’s degree in exercise and sport science only
Developing, implementing, and/or evaluating a focused set of professional activities in a field setting. Three-member faculty guidance committee required, along with successful completion of formal project proposal, formal documentation of project, and final oral examination. (Graded on S-U basis)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites and Corequisites</th>
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<tbody>
<tr>
<td>700</td>
<td>Special Topics in Exercise and Sport Science (3)</td>
<td>Pr. prerequisites and defined research competencies will vary according to topic. Advanced study in special topics from the various sub-specialties within the field of exercise and sport science. May be repeated for credit when topic varies.</td>
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<tr>
<td>701</td>
<td>Research Topics in Exercise and Sport (3:3)</td>
<td>Pr. prerequisites and defined research competencies will vary according to topic. Intensive examination of specific topics; critical review of current literature. May be repeated for credit when topic varies.</td>
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<tr>
<td>702</td>
<td>Research Seminar in Applied Neuromechanics (1:1)</td>
<td>Pr. graduate student in ESS with an applied neuromechanical focus or permission of instructor. Exploration of the assessment of neuromechanical function of the extremities and its relationship to performance, joint instability, and injury risk. May be repeated for a total of 3 hours credit when topic varies. (Graded on S-U basis)</td>
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<tr>
<td>703</td>
<td>Optimizing Athletic Performance (1:1)</td>
<td>Pr. admission to the M.S.A.T. degree program. Exploration of sports nutrition, ergogenic aids, and strength and conditioning principles within the context of sport injury and rehabilitation.</td>
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<tr>
<td>704</td>
<td>Athletic Training Seminar (1:1)</td>
<td>Pr. admission to the M.S.A.T. degree program. Structured review for the National Athletic Trainers’ Association Board of Certification (BOC) examination.</td>
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<tr>
<td>705</td>
<td>Applied Rehabilitation Concepts (1:0:6)</td>
<td>Pr. admission to the M.S.A.T. degree program. Capstone experience involving the supervision of a comprehensive orthopedic rehabilitation project.</td>
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<tr>
<td>708</td>
<td>College Teaching in Exercise and Sport Science (1:1)</td>
<td>Pr. permission of instructor. Introduction to issues and methods for teaching exercise and sport science in higher education. Seminar and online discussion format. (Graded on S-U basis)</td>
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<tr>
<td>709</td>
<td>Mentored Teaching in Exercise and Sport Science (1-3)</td>
<td>Pr. permission of instructor. Mentored teaching experience in exercise and sport science developed by student and faculty mentor, beyond graduate assistantship. May be repeated for a maximum of 6 credits. (Graded on S-U basis)</td>
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<tr>
<td>710</td>
<td>Sport and Feminisms (3:3)</td>
<td>Pr. undergraduate/graduate feminist theory course or permission of instructor. Emergence of U.S. feminist theories, including U.S. Third World feminisms. Application of feminisms to sport as cultural practice.</td>
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<tr>
<td>711</td>
<td>Experimental Course (3:3)</td>
<td>This number reserved for experimental courses. Refer to the Course Schedule for current offerings.</td>
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<tr>
<td>718</td>
<td>Cardiovascular Aspects of Exercise Physiology (3:3)</td>
<td>Pr. 670 or permission of instructor. Effects of acute and chronic exercise on heart function and size, peripheral vasculature, hemodynamics and cardiac output. (formerly ESS 678)</td>
<td></td>
</tr>
</tbody>
</table>

### Notes:
- **Thesis (1-6)**
- **Muscular Aspects of Exercise Physiology (3:3)**
  - Pr. 670 or permission of instructor. Effects of acute and chronic exercise on muscular mechanics, blood supply, size of muscle, fiber types, fatigue and physical performance. (formerly ESS 677) |
- **Pathophysiology and Pharmacology (3:3)**
  - Pr. 375 and BIO 111 or equivalent or permission of instructor. In-depth study of the pathophysiology and pharmacologic treatment of major illnesses, injuries, and diseases observed in clinical settings. |
- **Athletic Training Clinical Education VI (3:2:4)**
  - Pr. formal acceptance in the M.S. in athletic training program or permission of instructor. Coreq. 720. Laboratory sessions and supervised field experiences to develop clinical skills in assessment and management of general medical situations common to athletic training. Lab fee for supplies required. |
- **Management and Professional Issues in Athletic Training (3:3)**
  - Pr. formal acceptance in the M.S. in athletic training program or permission of instructor. The administration and organization of athletic training health care programs and facilities. Current issues in athletic training professional conduct and practice will also be discussed. |
- **Neural Aspects of Motor Control (3:3)**
  - Pr. undergraduate survey course in motor learning/control or permission of instructor. Multi-disciplinary seminar exploring theories and mechanisms of neuromuscular control of human movement. |
- **Practicum in Supervision of Physical Education (1-3)**
  - Pr. 663 or permission of instructor. Individually directed experiences in the organization and evaluation of field experiences in teacher education. |
- **Psychological Aspects of Sport Injury (3:3)**
  - Pr. 644 or permission of instructor. Psychological factors and intervention strategies as they relate to the risk, experience, and treatment of athletic injuries from a biopsychosocial perspective. |
- **Applied Sport Psychology (3:2:2)**
  - Pr. 644. Current research in applied sport psychology; sport-specific individual differences, motivational approaches, and interventions. |
- **Seminar: Social Psychology and Physical Activity (3:3)**
  - Pr. 644. Current theories, research methodologies and findings related to the social psychological aspects of sport and exercise behavior. |
- **Practicum in Applied Sport and Exercise Psychology (1-3)**
  - Pr. 744 or equivalent and permission of instructor. Skill development and application of theory to practice in applied sport psychology through supervised work in a laboratory and/or field setting. May be repeated for up to 10 credit hours. No more than 6 credit hours can count toward degree requirements. Lab fee required each semester. (Graded on S-U basis)
748 Advanced Topics in Sport Exercise and Psychology (3:3)  
Pr. 644 or equivalent and permission of instructor  
Advanced study in special topics within a field of sport and exercise psychology. May be repeated for credit when topic varies for a maximum of 12 credits.

750 Seminar in Exercise and Sport Science (3:3)  
Integrative seminar focusing on major issues confronting the field of exercise and sport science, and applying concepts to professional practice and higher education. (formerly ESS 649)

751 Advanced Research Seminar in Exercise and Sport Science (3:3)  
Pr. 611 or permission of instructor  
Integrative seminar focusing on development, refinement, and presentation of research. (Graded on S-U basis) (formerly ESS 713)

754 Applied Sport Psychology Issues and Practice (3:3)  
Pr. 644, 744  
Theories and research underlying applied sport psychology. Consideration of issues in educational sport psychology practice.

795 Independent Doctoral Research (1-6)  
Pr. prior approval of graduate faculty member who will supervise and evaluate the project  
In-depth study of a problem in exercise and sport science. May include a synthesis/review of literature, scientific investigation, or design, implementation, or evaluation of project. (Graded on S-U basis)

798 Doctoral Seminar in Grant Writing (3:3)  
Pr. minimum second year doctoral candidate in HHP or permission of instructor. Coreq. 695 with faculty advisor or course instructor for individualized mentoring of the grant writing project  
The grant writing process, including the procedures and technical strategies for developing and submitting a grant proposal for funding. (Graded on S-U basis)

799 Dissertation (1-12)
801 Thesis Extension (1-3)
802 Dissertation Extension (1-3)
803 Research Extension (1-3)
Master of Science in Genetic Counseling

Interdisciplinary Faculty and Advisors:

Professors
L. DiAnne Borders, Ph.D.
Counseling supervision, counseling theory and process, ethics, school counseling, adoptive families (Department of Counseling and Educational Development).

Terrance McConnell, Ph.D.
Ethical theory, medical ethics, political philosophy (Department of Philosophy).

Clinical Professor
Nancy P. Callanan, M.S., C.G.C.
Counseling and educational needs in genetic screening programs (Program Director).

Adjunct Professor
Pamela J. Reitnauer, Ph.D., M.D.
Dysmorphology syndromes, primary care of individuals with genetic disorders, epidemiology of birth defects (Program Medical Director).

Adjunct Associate Professor
Tamision Jewett, M.D.
Clinical evaluation and management of individuals with multiple malformations, connective tissue disorders, services to Spanish speaking individuals, professional and community education (Department of Biology).

Assistant Professors
Thomas R. Kwapil, Ph.D.
Schizophrenia and related illnesses studied from experimental and developmental psychopathology perspectives (Department of Psychology).

Dennis R. LaJeunesse, Ph.D.
Developmental genetics and cell biology (Department of Biology).

Clinical Assistant Professor
Sonja R. Eubanks, M.S., C.G.C.
Clinical supervision, prenatal and pediatric genetic counseling (Assistant Program Director).

An interdisciplinary Master of Science in genetic counseling is offered through The Graduate School. The program is accredited by the American Board of Genetic Counseling (ABGC). Applicants admitted to the program are expected to enroll as full-time students, registering for the required courses for each of the four semesters of the program and the intervening summer sessions.

The Curriculum
The Master of Science in genetic counseling program was designed in accordance with guidelines provided by the American Board of Genetic Counseling (ABGC) to prepare students with the knowledge and proficiencies necessary to practice as genetic counselors in a variety of settings including prenatal, pediatric, adult, and cancer genetics. Upon completion of the program, students are eligible to apply for certification by the ABGC. A total of 55 semester hours are required for the degree. This program includes required and elective course work, laboratory experience and clinical internships. Students are also required to complete a research project as the culminating experience for the degree.
Admission Requirements
In addition to the application materials required by The Graduate School, applicants must submit a personal essay and evidence of successful completion of at least one upper level undergraduate course in general genetics and biochemistry and at least one undergraduate course in statistics. Applicants who are evaluated as meeting the standards for admission will be invited for a required personal interview with the admissions committee.

It is recommended that applicants have previous experience in a volunteer or paid position working in social service agencies or with crisis counseling organizations. It is also recommended that applicants have previous exposure to genetic counseling via shadowing or internship experiences.

Requirements for the Master of Science in Genetic Counseling

Required Courses

Year One: Fall Semester (13 hours)
- BIO 614 Prenatal Development: Embryology and Teratology (3)
- BIO 616 Human Molecular Genetics (3)
- GEN 601 Principles of Genetic Counseling I (3)
- GEN 610 Genetic Counseling and the Community (2)
- GEN 658 Molecular Diagnostics (1)
- GEN 688 Genetics Journal Club (1)

Year One: Spring Semester (13 hours)
- GEN 602 Principles of Genetic Counseling II (3)
- GEN 630 Medical/Clinical Genetics I (3)
- GEN 688 Genetics Journal Club (1)
- PSY 624 Research Methods in Clinical Psychology (3)
- Approved elective (3)

Year One: Summer Session I (2 hours)
- GEN 669 Clinical Skills Seminar (1)
- GEN 671 Quantitative Risks in Practice: Understanding Risk Assessment (1)

Year One: Summer Session II (1 hour)
- GEN 698 Summer Clinical Rotations (1)

Year Two: Fall Semester (13 hours)
- GEN 701 Principles of Genetic Counseling III (3)
- GEN 718 Clinical Rotations I (4)
- GEN 730 Medical/Clinical Genetics II (3)
- *GEN 748 Research Project (3)

Year Two: Spring Semester (13-16 hours)
- CED 645 Mental Health Issues in Genetic Counseling (3)
- GEN 719 Clinical Rotations II (4)
- *GEN 749 Research Project (3)
- PHI 620 Ethics and Genetics (3)
- Optional elective (3)

*Comprise Capstone Experience

Elective (3-6 hours)
An elective relevant to the student’s professional goals will be selected during the second semester of the program. Electives must be approved by the program director. With approval of the program director, students may select an additional (optional) elective in the fourth semester of the program.

Clinical Internships (9 hours)
The clinical rotations will be an integral part of the program and will serve to provide students with opportunities to increase their general clinical knowledge, gain experience with genetic counseling for a variety of indications, and develop the necessary skills and competencies required for the practice of genetic counseling. Under the supervision of on-site, board certified genetic counselors, students will progress from observation to participation in various aspects of clinical genetic services. Evaluation/feedback of the student’s activities and progress will be an ongoing component of the clinical rotations. At the end of each rotation, a formal written evaluation will be conducted by the Clinical Supervisor and reviewed with the student. Students will be required to keep an accurate logbook of clinical cases according to guidelines provided by the American Board of Genetic Counseling.

Students will complete a summer clinical rotation (GEN 698) during Summer Session II of the program. Summer clinical rotations will be available at the following sites: Duke University Medical Center, Fullerton Genetics Clinic, Moses Cone Health System, University of North Carolina at Chapel Hill, Wake Forest School of Medicine, and Women’s Health Specialties in Wilmington.

Students may also make arrangements for a summer clinical rotation at another site with permission of the program director and provided that the site is approved by the American Board of Genetic Counseling (ABGC) as an ad hoc clinical training site.

During the second year of the program, students will be assigned to four clinical rotations (GEN 718/719). Second year clinical rotations will be available at the following sites: Duke University Medical Center, Moses Cone Health System,
Students must select a project during the second semester of the program. All projects must be approved by the program director. Projects will be completed under the guidance of a research project committee, which will consist of a chair and two other members. Adjunct clinical faculty may serve on research project committees. Students will be required to submit a detailed written report of their project and to make an oral presentation about their project to their classmates and the faculty.

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

601 Principles of Genetic Counseling I (3:3)
Pr. enrollment in M.S. genetic counseling program
Introduction to techniques used in genetic evaluation and counseling. Issues in preconception and prenatal genetic counseling. Skill development including basic interviewing techniques, psychosocial assessment, pedigree construction, searching on-line resources.

602 Principles of Genetic Counseling II (3:3)
Pr. matriculation to second semester of M.S. genetic counseling program
Issues in genetic counseling for pediatric and adult-onset genetic disorders including cancer genetics. Skill development, including working with special populations, decision-making, elements of informed consent.

605 Research Design in Genetic Counseling (3:3)
Pr. matriculation to second semester of M.S. genetic counseling program
Knowledge and skills basic to critical analysis, interpretation of research findings. Use of the scientific method and research process to address issues in the practice of genetic counseling.

610 Genetic Counseling and the Community (2:1.5:3)
Pr. enrollment in M.S. genetic counseling program
Impact of genetic disorders on patients and families, structure and function of support groups, and role of allied health professionals in evaluation, treatment and referral of patients with genetic disorders.

614 Prenatal Development: Embryology and Teratology (3:3)
Pr. enrollment in M.S. genetic counseling program or permission of instructor
Human embryological development with emphasis on normal and abnormal development. Issues in teratology and birth defects, clinical problems associated with birth defects and their means of prevention. (Same as BIO 614)

616 Human Molecular Genetics (3:3)
Pr. enrollment in M.S. genetic counseling program or permission of instructor
Review and extension of basic principles of molecular genetics and their application for the characterization, understanding, and treatment of genetically based disorders and susceptibilities. (Same as BIO 616)

630 Medical/Clinical Genetics I (3:3)
Pr. enrollment in M.S. genetic counseling program, BIO 614, BIO 616
Introduction to clinical/medical genetics for genetic counseling students. Topics include clinical cytogenetics and molecular genetics, Mendelian and non-traditional inheritance, dysmorphology, genetics of common cancers.

658 Molecular Diagnostics (1:0:3)
Pr. enrollment in M.S. genetic counseling program or permission of instructor
Survey of current clinical methods used for the diagnosis of human genetic disorders. Special emphasis given to the molecular principles, interpretations, and limitations of these tests. (Same as BIO 658)

669 Clinical Skills Seminar (1:1)
Pr. matriculation to Summer Session I of M.S. genetic counseling program
Skill development, eliciting histories, pedigree construction, case preparation and presentation, written documentation of clinical contacts. Introduction to components of clinical and dysmorphology examination and physical measurements.

671 Quantitative Risks in Practice: Understanding Risk Assessment (1:3)
Pr. matriculation to Summer Session I of M.S. genetic counseling program
Analytical and mathematical techniques utilized in genetic risk assessment. Topics include pedigree analysis, probability and segregation analysis, Bayes theorem, Hardy Weinberg, empiric risk counseling.

GEN Genetic Counseling Courses
688 Genetics Journal Club (1:1)
Pr. enrollment in M.S. genetic counseling program or permission of instructor.
Students will select or be assigned articles from the genetics literature for presentation/class discussion. Topics will reflect current trends in research, clinical practice, public policy and social issues. May be repeated for a maximum of two semester hours credit.

698 Summer Clinical Rotations (1)
Pr. matriculation to Summer Session II of M.S. genetic counseling program
Introduction to clinical genetic counseling. Supervised observational and participatory activities, skill development. (Graded on S-U basis)

701 Principles of Genetic Counseling III (3:3)
Pr. matriculation to third semester of M.S. genetic counseling program
Issues in professional development, public policy and health care systems. Introduction to legal issues in genetic counseling. Skill development including advanced genetic counseling skills, case management and preparing educational programs.

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

718/719 Clinical Rotations I, II (4:0:15)
Pr. matriculation to second year of M.S. genetic counseling program
Supervised clinical experiences in genetic counseling: case preparation, risk assessment and intervention, psychosocial assessment and support, identification of testing and support resources for patients, skill development. (Graded on S-U basis)

730 Medical/Clinical Genetics II (3:3)
Pr. matriculation to third semester of M.S. genetic counseling program or permission of instructor
Common diseases of childhood and adulthood, genetic screening programs, population genetics and genetic epidemiology, special topics in selected Mendelian disorders, models of molecular disease, and current applications of gene therapy.

748/749 Research Project (3)
Pr. matriculation to third semester (748) and fourth semester (749) of M.S. genetic counseling program and successful completion of PSY 624
Research project in genetic counseling. (Graded on S-U basis)

803 Research Extension (1-3)
The Department of Geography offers the Master of Arts in applied geography, the Doctor of Philosophy in geography, and Post-Baccalaureate Certificates in Geographic Information Science (GISc) and in Urban and Economic Development. The programs focus on the application of theory and methods in geography toward the understanding of problems related to economic development, environmental quality, population change, and social well-being in urban, rural, regional and international contexts.

The master’s degree in applied geography prepares and educates graduates for professional careers in Geographic Information Science (remote sensing, cartography, and geographic information systems), industrial and commercial site selection, transportation planning, environmental assessment, geographic information scientists, and urban and regional development. The program emphasizes the application of theoretical constructs in geography to solve problems, particularly within the Triad and the State but also at the national and international levels.

The program also leads to the acquisition of research skills and expertise appropriate to geographic analysis, including spatial statistics, cartography, remote sensing, and geographic information systems.

The doctoral degree in geography is designed primarily for persons who are preparing for careers that apply geographic theory, method, information technology and other skills to solving problems in urban and regional planning, natural resource management and environmental assessment, demographic analysis, and economic development, as well as those preparing for careers in teaching and research in colleges and universities. The main areas of research of the faculty are in urban planning, earth science/environmental studies, and the geographic information sciences; these serve as the main orientation of the doctoral program.
GEOGRAPHIC INFORMATION SCIENCE

The Department of Geography offers a Post-Baccalaureate Certificate in Geographic Information Science (GIS) requiring 18 semester hours of course work (15 hours of core courses and 3 hours of approved electives). The purpose of the certificate is to provide professionals with the knowledge and skills needed to effectively utilize spatial analytic tools, geographic data visualization techniques, spatial programming, and geographic information and image processing software. The program emphasizes the application of GIS in the fields of urban and regional planning, environmental assessment, remote sensing, spatial software development, cartography, and economic development. Please consult the department for any prerequisite courses that may be required.

Required Core Courses (15 hours)

- GEO 520 Advanced Remote Sensing-Imaging (3)
- GEO 521 Advanced Cartography (3)
- GEO 613 Advanced Geographic Information Systems (3)
- GEO 614 GIS Programming, Design and Application (3)
- GEO 620 Spatial Analysis (3)

Electives (3 hours)

Select one from the following:
- GEO 622 GIS Applications in Urban Planning (3)
- GEO 623 Seminar in Geographic Information Science (3)
- BIO 522 Landscape Ecology (3)
- Or other elective course approved by the Director of Graduate Study

URBAN AND ECONOMIC DEVELOPMENT

The Departments of Geography and Political Science jointly offer a program of study leading to a Post-Baccalaureate Certificate in urban and economic development. The certificate requires 18 semester hours of course work (12 hours of core courses and 6 hours of approved electives). Courses emphasize the knowledge and skills needed to prepare students to work in organizations focusing on urban planning and community economic development activities in government and nonprofit organizations.

Required Core Courses (12 hours)

- GEO 502 Urban Planning (3)
- GEO 533 Industrial Development: State and Local (3)
- PSC 520 The Urban Political System (3)
- PSC 630 Community and Economic Development: Theory and Practice (3)

Electives (6 hours)

Select two from the following:
- GEO 602 Regional Planning (3)
- GEO 603 Understanding Geographic Information Systems (3)
- GEO 622 GIS Applications in Urban Planning (3)
- GEO 631 Transportation Planning (3)
- PSC 613 Local Government Administration (3)
- PSC 620 Urban Development Policy (3)

Requirements for the Master of Arts in Applied Geography

The Department of Geography offers a graduate program of study requiring a minimum 34 hours of graduate work, including a maximum of 6 hours of GEO 695 or GEO 699. Seventeen of these 34 hours must be at the 600-749 level. As part of the master’s degree, students may choose to either complete a thesis or internship project or pursue a non-thesis option. The non-thesis option requires a minimum of 37 hours of course work, excluding GEO 695 and GEO 699, and completion of a competency portfolio. The non-thesis option is considered to result in a terminal degree.

Required Core Courses (4 hours)

- GEO 601 Research Trends in Geography (1)
- GEO 620 Spatial Analysis (3)

Electives (24-33 hours)

The student, in consultation with the advisor, will determine the appropriate courses to be taken in that individual’s program, including any cognate courses.

*Research Courses (3-6 hours)

- GEO 695 Internship (3-6) or GEO 699 Thesis (3-6)
Formal Review and Examinations
1. Approval of master’s plan of study.
2. *Comprehensive examination (taken after the completion of 24 hours of course work; administered at the beginning of the fall and spring terms).
3. Approval of thesis or internship proposal.

Details concerning specific core requirements, the comprehensive examination, admission to candidacy, plans of study, theses, internships, and competency portfolios can be obtained from the Director of Graduate Study.

* Research courses and comprehensive examination comprise Capstone Experience.

URBAN PLANNING AND ECONOMIC DEVELOPMENT CONCENTRATION
The Department of Geography offers a concentration in urban planning and economic development. This concentration is directed towards students who have an interest in preserving and enhancing the quality-of-life of urban areas and dealing effectively with growth and development issues. Students completing this concentration will combine the core requirements of the master’s degree in applied geography with courses emphasizing the knowledge and skills required to provide effective leadership in urban and economic development for metropolitan areas. The required core courses, electives, research courses, collateral expertise, and formal reviews and examinations are the same as for the Master of Arts degree in applied geography. Within this framework, the following 15 hours must be completed.

Required Core Courses (12 hours)
- GEO 502 Urban Planning (3)
- GEO 522 Seminar in Population and Urban Studies (3)
- GEO 533 Industrial Development: State and Local (3)
- GEO 603 Understanding Geographic Information Systems (3)

Elective Courses (3 hours)
Choose one from the following:
- GEO 602 Regional Planning (3)
- GEO 622 GIS Applications in Urban Planning (3)
- GEO 631 Transportation Planning (3)
- PSC 620 Urban Development Policy (3)
- PSC 630 Community and Economic Development: Theory and Practice (3)

Formal Reviews and Examinations
1. Approval of master’s plan of study.
2. *Comprehensive examination (taken after the completion of 24 hours of course work; administered at the beginning of the fall and spring terms).
3. Approval of thesis or internship proposal.

Details concerning specific core requirements, the comprehensive examination, admission to candidacy, plans of study, theses, internships, and competency portfolios can be obtained from the Director of Graduate Study.

* Research courses and comprehensive examination comprise Capstone Experience.

PhD Requirements for the Doctor of Philosophy in Geography
The Department of Geography offers a graduate program of study leading to the Ph.D. degree. This innovative program is centered on the research-oriented application of geographical concepts and theories to the solving of real-world problems. The total number of hours required for the degree is 48-54. Of the 33 hours in required core and cluster courses (excluding dissertation hours), 27 hours must be at the 600 level or higher. Up to nine hours of course work may be transferred from another institution on approval of the Department.

Required Core Courses (9 hours)
- GEO 750 Advanced Spatial Analysis (3)
- GEO 760 Research Design (3)
- GEO 761 History of Geographic Thought (3)

Courses Required from Geography Clusters (24 hours)
Clusters of courses from three broad areas of applied geography form the basis of the doctoral program. These three clusters are: geographic information sciences (GIS), urban and regional economic development and planning, and earth science and natural resource management. Students are required to complete two courses in each of the three clusters and an additional two courses related to the dissertation research cluster.

Dissertation (15-21 hours)
- GEO 799 Dissertation (15-21)

Formal Reviews and Examinations
1. Diagnostic Exam.
2. Approval of doctoral plan of study.
3. Comprehensive preliminary examination (taken after the completion of 33 hours of course work).
5. Public dissertation defense.
GEO Geography Courses

502 Urban Planning (3:3)
Experiences in planning and primary concepts and procedures utilized by planners in city and other local government agencies for improving the quality of the urban environment.

510 Biogeography (3:3)
Pr. one of the following: 311, 314, BIO 301, admission to graduate program in geography, or permission of instructor
Geographic distribution of organisms and the factors/processes accountable with emphasis on the increasingly important role humans play in influencing biogeographic processes.

511 Advanced Weather and Climate (3:3)
Pr. one of the following: 311, admission to graduate program in geography, or permission of instructor
Exploration of atmospheric dynamics and general circulation patterns throughout the world. Emphasis on cyclogenesis, surface-upper atmosphere links, tropospheric waves, vorticity, and forecasting.

520 Advanced Remote Sensing-Imaging (3:3)
Pr. 323
Remote sensing of the environment using scientific visualization and digital image processing techniques.

521 Advanced Cartography (3:3)
Pr. 321 or permission of instructor
Advanced instruction in cartographic production techniques and introduction to cartographic research. Students will learn to evaluate academic literature and to implement research ideas using state-of-the-art technology.

522 Seminar in Population and Urban Studies (3:3)
Advanced study of population processes and urban concepts from an interdisciplinary viewpoint. Emphasis on accessing and interpreting data from the U.S. census and other sources.

533 Industrial Development: State and Local (3:3)
Theories of industrial location; techniques to measure impact of industry on communities; policy and institutional issues related to state and local industrial development.

560 Seminar in Regional Geography (3:3)
Case studies of regionalism and the regional method in geography. May be repeated once for credit when topic changes.

570 Applied Physical Geography (3:1:6) (SVL)
Applications in physical geography. Topics include field experience in hydrology, dendrochronology, geomorphology, climatology, and mapping. May be repeated once for credit when topic changes.

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

601 Research Trends in Geography (1:1)
Pr. admission to graduate program in geography
Overview of major research themes in geography. Student will meet faculty and other professional geographers, facilitating the development of research through field experience, colloquia, and conferences. (Graded on S-U basis)

602 Regional Planning (3:3)
Regional development and planning processes focused on regional planning techniques and law.

603 Understanding Geographic Information Systems (3:3)
Study and application of geographic information systems for professional problem-solving, spatial analysis, and mapping.

605 Seminar in Environmental Studies (3:3)
Selected topics of current interest in environmental studies. May be repeated once for credit when topic changes.

606 Environmental Planning (3:3)
Examination and analysis of environmental concepts and their relationship to various planning and management scenarios, including environmental issues, strategies, and plans.

612 Natural Resource Geography (3:3)
Application of geographical theory to natural resource use and distribution. Emphasis on resource use and constraints to development.

613 Advanced Geographic Information Systems (3:3)
Pr. 603 or permission of instructor
Development and application of geographic information systems. Emphasis on spatial data structures and their relationship to the analytic processes of geography and planning.

614 GIS Programming and Design Application (3:3)
Pr. 613
Theory and practice in the creation of Geographic Information Systems using logic based programming and database construction tools. Emphasis on modeling of spatial information and logic-based approaches to GIS.

620 Spatial Analysis (3:3)
Pr. 613 and STA 571 or equivalent
Theory and practice in combining Geographic Information Systems software with statistical analysis software. Emphasis will be on the quantitative analysis and visual display of spatial information.

622 GIS Applications in Urban Planning (3:3)
Pr. 322 (or equivalent) and 613 or permission of instructor
Theory and practice integrating Geographic Information Systems with land use planning practice. Emphasis on advanced analysis and display of spatial data and information in support of land use planning decision-making.

623 Seminar in Geographic Information Science (3:3)
Pr. 323 and 613 or permission of instructor
Research in geographic information science. Focus on current research in application of remotely sensed imagery, geographic information systems, and maps in the visualization and analysis of spatial data. May be repeated once for credit when topic changes.

631 Transportation Planning (3:3)
Pr. 502 or permission of instructor
Theory and practice of transportation planning with an emphasis on urban transportation systems.

635 Geography of Asia (3:3)
Examines dynamic economic, sociocultural, and political changes in Asia by looking at their roots in physical and human resources influencing rapid modernization within an ancient cultural framework.
641 Earth Surface Processes and Landforms (3:3)
Pr. 314/314L or equivalent advanced undergraduate course in geomorphology
Advanced systematic study of geomorphology with applications to human responses to natural hazards and environmental management.

690 Research Problems in Applied Geography (3)
Pr. graduate course on the topic
Independent study on a topic of special interest.

695 Internship (1-6)
Pr. 18 hours in the M.A. in applied geography program
Practical experience in a professional setting related to the student’s main topic of interest. Includes written paper linking the topic to the experience. May be repeated for a maximum of 6 hours credit.

699 Thesis (1-6)
Pr. permission of Geography Thesis Committee

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

750 Advanced Spatial Analysis (3:3)
Pr. 620
Theory and practice in spatial analysis with an emphasis on spatial statistics. Spatial pattern analysis, spatial association and interpolation, spatial data mining.

760 Research Design (3:3)
Pr. STA 571 or equivalent
Design and execution of applied research projects as practiced by professional geographers.

761 History of Geographic Thought (3:3)
Pr. admission to doctoral program in geography or allied field
Seminar on the nature of geography and what geographers do. Focus on the history of the discipline, approaches to its study, major paradigms, and application of geographic theory.

771 Doctoral Seminar in Geographic Information Science (3:3)
Advanced seminar in the theory, practice, and technical aspects of Geographic Information Science. May be repeated once for credit when topic changes.

781 Seminar in Earth Science/Natural Resources (3:3)
Pr. 612 or 641 or permission of instructor
Directed readings and research proposal development on selected aspects of natural resource policy and management from the perspective of earth science. May be repeated once for credit when topic changes.

790 Independent Geographic Research (3:3)
Pr. graduate course in topic
Independent study on topic of interest in theoretical geography. May be repeated for credit for up to 6 semester hours.

791 Seminar in Urban Planning/Economic Development (3:3)
Pr. 502 or 533 or permission of instructor
Directed readings on selected aspects of urban planning/economic development focused on theory and policy issues from a geographic perspective. May be repeated once for credit when topic changes.

792 Seminar in Regional Economic Development (3:3)
Pr. 533 or permission of instructor
A geographic perspective is applied to analysis of regional economic performance and change in the developed and developing world. Theory is integrated with strategies for development policy and planning.

799 Dissertation (1-21)
Pr. completion of all Ph.D. course requirements and examinations
Required of all Ph.D. in geography candidates. May be taken in two or more semesters.

801 Thesis Extension (1-3)

802 Dissertation Extension (1-3)

803 Research Extension (1-3)
511 The Russian Novel in Translation (3:3)
Survey of the Russian novel from the nineteenth (Pushkin, Gogol, Turgenev, Goncharov, Dostoevsky, Tolstoy) to the twentieth-century (Bely, Sologub, Pasternak, and Solzhenitsyn). Analysis of the artistic structure and ideas, within the context of Russian literary history, philosophy, and religious thought.
Graduate Programs in Gerontology

Program Director:
Janice I. Wassel, Ph.D.
Demography; financial resources and the aging family; retirement decisions of professionals, women, and married couples; caregiving and family systems (Gerontology and The Graduate School).

Interdisciplinary Faculty and Advisors:

Professors
Beth E. Barba, Ph.D.
Human/animal interactions with older adults, Eden Alternative (team care delivery, animals and children) in nursing homes, failure to thrive in older adults (School of Nursing).

Linda Buettner, Ph.D.
Dementia, depression, and Therapeutic programs for older adults, Alzheimer’s disease care, and community based interventions for frail older adults (Department of Recreation, Tourism, and Hospitality Management).

Laurie M. Kennedy-Malone, Ph.D.
Community-gerontological nursing (School of Nursing).

Jane E. Myers, Ph.D.
Gerontological counseling, adult development, developmental counseling, wellness, clinical assessment, adult children of older adults (Department of Counseling and Educational Development).

William L. Tullar, Ph.D.
Knowledge management, human resource metrics, and employee selection (Department of Business Administration).

Associate Professors
Kenneth A. Klase, D.P.A.
Public administration, public budgeting and finance, public financial management. (Department of Political Science).

Martha Taylor, Ph.D.
Nutritional health and needs of older adults, health promotion/disease prevention, nutrition education (Department of Nutrition).

Visiting Associate Professors
Michele A. Haber, M.P.H., M.D.
Individual geriatric assessment and improvement, staff and program development for long-term care facilities and other organizations serving seniors (Gerontology Program).

A. Frank Johns, J.D.
Elder law, multidisciplinary ethics impacting community, advance litigation strategies, guardianship and fiduciary responsibilities relating to older adults.

Assistant Professors
Kurt W. Kornatz, Ph.D.
Adaptations of the neuromuscular system in response to aging and training (Department of Exercise and Sport Science).

Olav Ruepell, Ph.D.
Life history and behavior of social insects, aging and genetics of complex traits (Department of Biology).

Sudha Shreeniwas, Ph.D.
Gender and family issues among seniors in India and among ethnic groups in the U.S. (Department of Human Development and Family Studies).

Adjunct Instructor
Sandra Leak, M.H.A.
Comparative long term care policy at the community and state level (Department of Public Health Education).
The Graduate School offers graduate work leading to a Post-Baccalaureate Certificate and a Master of Science in gerontology. The Bryan School of Business and Economics and the Gerontology Program offer a dual Master of Science in gerontology and Master of Business Administration degree.

Students wishing to combine a Post-Baccalaureate Certificate in gerontology with a degree should consult with the Director of the gerontology program and with the department of interest.

Admission Requirements
In addition to the application materials required by The Graduate School, applicants to all gerontology programs must submit a personal essay elaborating on the applicant’s experience and/or interest in working with older adults. Applicants to the M.S./M.B.A. may take either the GMAT or GRE qualifying exam and must have a minimum of two years of relevant work experience. M.S./M.B.A. applications are reviewed by the directors of the gerontology and M.B.A. programs. Applicants to the nonprofit management concentration must apply simultaneously to the Post-Baccalaureate Certificate in nonprofit management offered by the Department of Political Science.

PBC
Requirements for the Post-Baccalaureate Certificate in Gerontology

Sixteen (16) semester hours must be successfully completed during four academic years to earn the certificate. Courses fulfilling the certificate program may be used to meet requirements in a degree program in accordance with the policies of The Graduate School.

Required Core Courses (10 hours)
- GRO 501 Seminar: Critical Issues of Aging (3)
- GRO 600 Proseminar in Gerontology (1)
- GRO 621 Health and Aging (3)
- GRO 649 Gerontology Internship or Research Experience I (3)

MS
Requirements for the Master of Science in Gerontology

The Master of Science in gerontology requires 37 semester hours of course work and internships/research experiences. The program offers a thesis and non-thesis option.

Required Core Courses (22 hours)
- GRO 501 Seminar: Critical Issues of Aging (3)
- GRO 600 Proseminar in Gerontology (1)
- GRO 620 Research Methods in Gerontology (3)
- GRO 621 Health and Aging (3)
- GRO 649 Gerontology Internship or Research Experience I (3)
- GRO 651 Integrative Seminar in Gerontology (3)
- GRO 679 Gerontology Internship or Research Experience II (3)
- ERM 617 Statistical Methods in Education (3) or STA 571 Statistical Methods for Research I (3) and STA 571L Statistical Methods Laboratory I (1)

*Indicates Capstone Experience

Students are required to complete GRO 501 and GRO 600 in the first fall semester enrolled in the program. Additionally, students will be strongly encouraged to take both GRO 620 and GRO 621 during their first 16 semester hours after acceptance into the M.S. program. It is recommended that students complete the statistics requirement prior to enrolling in GRO 620. Students accepted without an undergraduate statistics course are encouraged to complete such a course prior to enrolling in the graduate statistics course.

Electives (15 hours)
To meet the student’s educational objectives, fifteen (15) hours are selected under advisement from three academic areas:
- Biology/health
- Gerontology
- Psychosocial
**Thesis Option**  
GRO 699 Thesis (6)

With faculty approval, students who are interested in exploring a specific research problem in depth may choose to complete a thesis. Students must register for up to six (6) hours of thesis thereby reducing elective hours.

**AGING AND BUSINESS CONCENTRATION**

Graduates of the aging and business concentration are prepared to integrate the critical issues of aging and business across a wide-range of settings, including health and wellness programming, older adult housing and retirement communities, product development and marketing, policy and program development, or financial gerontology. This program may be completed with a thesis (49 hours) or non-thesis option (43 hours).

**Required Core Courses (22 hours)**

- GRO 501 Seminar: Critical Issues in Aging (3)
- GRO 600 Proseminar in Gerontology (1)
- GRO 620 Research Methods in Gerontology (3)
- GRO 621 Health and Aging (3)
- GRO 649 Gerontology Internship or Research Experience I (3)
- *GRO 651 Integrative Seminar in Gerontology (3)
- GRO 679 Gerontology Internship or Research Experience II (3)
- ERM 617 Statistical Methods in Education (3) or
  - STA 571 Statistical Methods for Research I (3) and
  - STA 571L Statistical Methods Laboratory I (1)
- *Indicates Capstone Experience.

**Additional Aging Requirements (9 hours)**

- GRO 610 Life Planning for the Third Age (3)
- GRO 622 Financing Longevity: Issues in Insurance (3)
- GRO 631 Planning and Evaluation for Professionals in Aging (3)
- GRO 611 Issues in Aging and Business (3)

Students must choose two:

- GRO 611A Silver Industries (1.5)
- GRO 611B Boomer Demographic Phenomena (1.5)

**Business Applications Requirements**  
(6 hours)

- MBA 602 Presentation and Interpretation of Financial Statements (1.5)
- MBA 603 Economic Analysis (1.5)
- MBA 606 Marketing Management (1.5)
- MBA 601A Entrepreneurship (1.5)

**Electives (6 hours)**

Elective courses are selected with faculty advisement to permit tailoring of the program of study to the student’s specific interests. With faculty consultation, students select 6 hours of elective courses at the 500 or 600 level from a range of disciplines including gerontology, sociology business administration, counseling, human development and family studies, public health education, and/or social work.

**Thesis Option (6 hours)**  
GRO 699 Thesis (6)

With faculty approval, students who are interested in exploring a specific research problem in depth may choose to complete a thesis.

**NONPROFIT MANAGEMENT CONCENTRATION**

Graduates in the nonprofit management concentration are prepared to meet the growing demand for trained professionals in public service at local, state and federal agencies; private, nonprofit agencies, and voluntary organizations serving the elderly and older adult population and/or meeting the needs of an aging society. This program may be completed with a thesis (46 hours) or a non-thesis option (40 hours). Course work fulfills the requirements for the Post-Baccalaureate Certificate in nonprofit management through the Department of Political Science. Students must submit an application for the certificate.

**Required Core Courses (25 hours)**

- GRO 501 Seminar: Critical Issues of Aging (3)
- GRO 600 Proseminar in Gerontology (1)
- GRO 620 Research Methods in Gerontology (3)
- GRO 621 Health and Aging (3)
- GRO 649 Gerontology Internship or Research Experience I (3)
- *GRO 651 Integrative Seminar in Gerontology (3)
- ERM 617 Statistical Methods in Education (3) or
  - STA 571 Statistical Methods for Research I (3) and
  - STA 571L Statistical Methods Laboratory I (1)
- PSC 540 Nonprofit Management and Leadership (3)
- PSC 550 Philanthropy and Resource Development (3)

*Indicates Capstone Experience.

**Choice Requirements (3 hours)**

- PSC 511F Problems in Public Management: Financial Management (1) or PSC 511R Problems in Public Management: Nonprofit Budgets (1)

Students must choose two of the following:

- PSC 511B Problems in Public Management: Marketing for Public and Nonprofit Agencies (1)
- PSC 511D Problems in Public Management: Strategic Planning (1)
- PSC 511G Problems in Public Management: Grant Writing (1)
- PSC 511N Problems in Public Management: Nonprofit Law (1)
Elective Requirements (9 hours)
Elective courses are selected with faculty advisement to permit tailoring of the program of study to the student's specific interests. With faculty consultation, students select 9 hours of elective courses at the 500 or 600 level with at least 3 credit hours in political science and 3 credit hours in gerontology. Other possible electives include courses in business administration, counseling, human development and family studies, public health education, and/or social work.

Internship or Research Experience Requirement (3 hours)
GRO 679 Gerontology Internship or Research Experience II (3)

Requirements for the Master of Science/Master of Business Administration

The Gerontology Program and the Bryan School of Business and Economics offer a combined Master of Science in gerontology/Master of Business Administration degree. A minimum of 57 semester hours is required for the degree.

Computer Literacy
Upon entry to the M.S./M.B.A. degree program, students should have a working knowledge of word processing and spreadsheet applications in a PC environment. Familiarity with Excel is required.

Required Core Course (46.5 hours)
Up to 12 hours in the MBA course work may be waived based on demonstrated competencies in the subject matter but must be replaced with elective courses.

MBA 600 Business Statistics (1.5) and MBA 610 Advanced Business Statistics (1.5) or ERM 617 Statistical Methods in Education (3) or STA 571 Statistical Methods in Research (3) and 571L Statistical Methods Lab (1)
MBA 602 Presentation and Interpretation of Financial Statements (1.5)
MBA 603 Economic Analysis (1.5)
MBA 604 Organizational Behavior (1.5)
MBA 605 Financial Management (1.5)
MBA 606 Marketing Management (1.5)
MBA 607 The Operations Function (1.5)
MBA 609 Management Communications (1.5)
MBA 612 Cost Management Systems (1.5)
MBA 613 Economic Policy and the Global Environment (1.5)
MBA 615 Leadership Assessment and Development (1.5)
MBA 616 Managing in a Global Environment (1.5)
MBA 617 Management Science (1.5)
MBA 618 Business Processes and Technology (1.5)
MBA 620 Competitive Analysis and Strategy Formulation (1.5)

With advisement of faculty in the Gerontology Program and the Department of Political Science, students select an appropriate structured setting as an experiential learning activity within a public or nonprofit agency. The internship or research experience will provide students with practical experience in the ongoing operations of an agency of government or in an organization engaged in public affairs activities serving the elderly or addressing the needs of an aging society.

Thesis Option (1-6 hours)
GRO 699 Thesis (1-6)

With faculty approval, students who are interested in exploring a specific research problem in depth may choose to complete a thesis.

Electives (10.5 hours)
Selected upon advisement to permit tailoring of the program of study to the student's specific interests and to include at least 9 semester hours in gerontology or gerontology electives.
Gerontology Courses

501 Seminar: Critical Issues of Aging (3:3)
Intensive review and analysis of the literature and research on issues of aging and the unresolved problems. (Fall)

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

600 Proseminar in Gerontology (1:1)
Introduction and gateway to the profession and study of gerontology including career roles and paths, professional development and ethics, and research processes and conduct.

601 Practical Issues in Aging (1:1)
Examination of a topic in aging from an applied perspective applicable to professionals working in the field of aging. May be repeated for a maximum of 3 credits when topic varies.

610 Life Planning for the Third Age (3:3)
Pr. permission of instructor
Integrative approach to explore how trends in finances, relationships, health, self-development, housing and work/leisure time interact to impact quality of life and options available to aging adults.

611A Silver Industries (1.5:1.5)
Comprehensive overview of the gerontological trends and associated business consequences that characterize an aging society. Case illustrations highlighted.

611B The Boomer Demographic Phenomena (1.5:1.5)

620 Research Methods in Gerontology (3:3)
Pr. 501 and permission of instructor
The integration and application of qualitative and quantitative research designs and methods used in gerontology. Additional attention focuses on the formulation and writing of a research proposal.

621 Health and Aging (3:3)
Examines aspects of health and aging from an integration of biomedical and psychosocial perspectives. Foundations for the professional practice of gerontology.

622 Financing Longevity: Topics in Insurance (3:3)
Overview of concepts and products of insurance related to financing longevity in the United States. Topics include Medicare, Medicaid, long term care insurance and related products.

631 Planning and Evaluation for Professionals in Aging (3:3)
Introduction to the knowledge and skills related to planning and evaluating innovative responses to the aging of society using program theory as a foundation.

632 Communities Responding to an Aging Society (3:3)
Addresses community responses to an aging society and how those responses may be enhanced through civic engagement, infrastructure development, and public/private initiatives. Emphasizes developing and sustaining innovative programs.

633 Long Term Care Public Policy (3:3)
Addresses public policy related to the organization, financing, and delivery of the broad continuum of long term care with a concentration on the care of frail older adults.

649 Gerontology Internship or Research Experience I (3:0:10-12)
Pr. 501 and permission of instructor
First internship or research experience for graduate students in gerontology. 140 to 160 hours in a program approved site developed from among nonprofit, governmental, or business settings. (Graded on S-U basis)

651 Integrative Seminar in Gerontology (3:3)
Pr. enrollment in the M.S. in gerontology program and completion of at least 24 hours of coursework including: 501, 620, 649, ERM 617 or STA 571 (plus lab), and 12 hours of gerontology electives
Integration of current literature and theoretical applications in gerontology focusing on specific area(s) of student’s specialty and internship experiences. Additional emphasis on professional writing, presentations, networks, and extramural funding. (Spring)

676 Special Topics in Gerontology (1-3)
Study of a special topic in gerontology. May be repeated for credit when topic varies.

679 Gerontology Internship or Research Experience II (3:0:12-15)
Pr. admission to the M.S. in gerontology. Completion of at least 2/3 course work, including 501, 600, 620, and 649, CITI certification for social and behavioral sciences, and permission of instructor
Final internship or research experience for graduate students in gerontology. 160 to 200 hours in a program approved site developed from among nonprofit, governmental, or business settings (Graded on S-U basis)

695 Independent Study (1-3)
Intensive study in an area of special interest in gerontology. May be repeated for a maximum of 6 semester hours credit.

699 Thesis (1-6)
Pr. 501, 620, 649, 651, 660
Individual guidance in the development of a specific research problem. May be repeated for a maximum of 6 hours credit. (Graded on S-U basis)

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

801 Thesis Extension (1-3)
803 Research Extension (1-3)
Department of History

2129 Moore Humanities and Research Administration Building
(336) 334-5992 • www.uncg.edu/his

Professors
Jodi Bilinkoff, Ph.D.
  Renaissance and Reformation Europe, early modern Spain, religion, gender.
Charles C. Bolton, Ph.D.
  Southern history, oral history (Head of Department).
Kenneth L. Caneva, Ph.D.
  History of science, 19th century physical science, science in Germany.
Colleen Kriger, Ph.D.
  African history, European expansion in Africa, material culture, oral history.
Paul Mazgaj, Ph.D.
  Modern European intellectual history, French history, history of ideologies, French revolution, Napoleonic era.
Frank T. Melton, Ph.D.
  English history 1485-1714, reformation.
Karl A. Schleunes, Ph.D.
  Modern German history, the Holocaust, national socialism, history of antisemitism, World War II.
Loren Schweninger, Ph.D.
  African-American history, race, slavery, quantitative methods.

Associate Professors
James A. Anderson, Ph.D.
  East Asia, China, Vietnam.
Richard E. Barton, Ph.D.
  Medieval history (Director of Graduate Study).
Benjamin P. Filene, Ph.D.
  Public history (Director of Public History).
Mary Floyd, Ph.D.
  Latin America, Venezuela, 19th century.
Phyllis W. Hunter, Ph.D.
  American, Colonial, material culture.
Thomas F. Jackson, Ph.D.
  Recent America, civil rights.
Stephen Ruzicka, Ph.D.
  Ancient history, Greek, Roman, Persia.
Lisa C. Tolbert, Ph.D.
  American cultural history, 19th century U.S., antebellum South, architectural history, museum studies.

Assistant Professors
Watson Jennison, Ph.D.
  African American history, U.S. South.
Jeffrey W. Jones, Ph.D.
  Russia.
Lisa Levenstein, Ph.D.
  U.S. women’s history.
Kaarin Michaelsen, Ph.D.
  Modern Britain, women’s history.
Linda M. Rupert, Ph.D.
  Atlantic world, Caribbean, Latin America.
The Department of History offer Post-Baccalaureate Certificates in museum studies and historic preservation, a Master of Arts in history with concentrations in U.S., European, museum studies, and historic preservation, and a Ph.D. in American history. Classes in each of our programs are generally small and, through an intensive mentoring program, faculty-student interaction has become a hallmark of graduate study in the department.

The M.A. in history offers excellent preparation for those planning to teach history at community colleges and secondary schools and provides a solid foundation for those who go on to Ph.D. programs or who find employment in government and business. The M.A. improves analytic, research, and writing skills.

The public history concentration in museum studies and historic preservation provides intensive graduate-level preparation in the core history program as well as hands-on training in museum and historical preservation work. Through mentoring and an internship program, students are prepared to enter the job market in the museum and preservation fields.

Applicants to the M.A. must present an approved undergraduate background (though not necessarily a major) in history.

The Ph.D. program prepares students to teach and conduct research in American history and to understand it within an expanded global perspective. Students are required to integrate the major field with one of three minor fields: African American history, the history of the Atlantic World, or European history. This broader intercontinental perspective—including the Americas, Europe, and Africa—enables students to explore themes such as the interaction of political, economic and cultural systems, questions of race and ethnicity, and the transnational dimensions of national experience. This global perspective is encouraged by providing a selection of courses that are cross-national, comparative, and integrative in content and format.

The Ph.D. program admits only a few highly qualified students each year. In a setting of relatively small classes, individualized research projects, and frequent contact with faculty, students are trained in the arts of scholarly research and writing. No less is the emphasis placed on fostering teaching skills. Through a required teaching seminar, hands-on teaching experience, and careful mentoring, students are prepared for teaching in a college or university environment.

### Requirements for the Post-Baccalaureate Certificate in Museum Studies or Historic Preservation

The Departments of History and Interior Architecture jointly offer two 15 hour Post-Baccalaureate Certificates: museum studies and historic preservation. The two certificates provide graduate students in history, interior architecture, and related fields training and credentials to pursue careers in history museums, historic preservation, cultural resource management, management of historic sites, and related public history professions.

#### Required Courses (9-12 Hours)

**Museum Studies** (9 hours)
- HIS 626 The Practice of Public History (3)
- HIS 627 Museum and Historic Site Interpretation: Principles and Practice (3)
- *HIS 690 Internship (3)

6 hours of electives approved by the Director of Graduate Study

**Historic Preservation** (12 hours)
- HIS 543 Historic Preservation: Principles and Practice (3)
- HIS 624 History of American Landscapes and Architecture (3)

### Electives (Historic Preservation - 3 hours, Museum Studies - 6 hours)

To complete the 15 hours of course work for either certificate, electives should be selected with the prior approval of the Director of Graduate Study from the following list:

- HIS 505 Introduction to Archival Management (3)
- HIS 536 History of Decorative Arts (3)
- HIS 545 Southern History and Southern Material Culture in a Museum Context (3)
- HIS 547 Museum Curatorship: Collections Management (3)
- HIS 548 Architectural Conservation (3)
- HIS 552 History and Theories in Material Culture (3)
- HIS 555 Field Methods in Preservation Technology (3)

*Students with appropriate professional work experience may substitute an elective for the internship requirement with prior approval of the Director of Graduate Study.*

HIS 625 Preservation Planning and Law (3)

*HIS 690 Internship (3)

3 hours of electives approved by the Director of Graduate Study
HIS 628 Identification and Evaluation of the Historic Built Environment (3)
ART 590 Museum Studies (3)
ATY 597 Special Problems in Anthropology (3)
GEO 502 Urban Planning (3)
PSC 540 Nonprofit Management and Leadership (3)

Core courses for either certificate may be taken as electives for the other. Because public history requires interdisciplinary work, students may substitute 3 hours of electives from another department with approval of the Director of Graduate Study.

**Requirements for the Master of Arts in American History, European History, or Public History with a Concentration in Museum Studies or Historic Preservation**

The Department of History offers a graduate program of study in the areas of American, European, and public history, leading to a Master of Arts degree. Students in American and European history complete a 30 hour program consisting of a major concentration of 21 hours and a minor concentration of 9 hours. Students in these concentrations must pass a language examination or take an extra three hours of course work in either their major or minor. Public history students choose a concentration in either historic preservation or museum studies and complete a 36 hour degree consisting of 15 hours in history courses, 9-12 hours in the selected public history concentration and 9-12 hours in electives. Upon entering the program, students will develop a plan of study with prior approval from the Director of Graduate Study.

**Required Courses (15-21 hours)**

**American History**
- HIS 701 Colloquium in American History before 1865 (3)
- HIS 702 Colloquium in American History since 1865 (3)
- HIS 703 Seminar in American History (3)
- HIS 704 Seminar in American History (3)
- HIS 709 Introductory Research Seminar (3)

**European History**
- HIS 705 Colloquium in European History before 1789 (3)
- HIS 706 Colloquium in European History since 1789 (3)
- HIS 707 Seminar in European History (3)
- HIS 708 Seminar in European History (3)
- HIS 709 Introductory Research Seminar (3)

**Public History (Museum Studies and Historic Preservation Concentrations)**
- HIS 701-702 Colloquia in American History (6) or HIS 705-706 Colloquia in European History (6)
- *HIS 703-704 Seminars in American History (6) or HIS 707-708 Seminars in European History (6)
- HIS 709 Introductory Research Seminar (3)
- *Public history students may elect to do a thesis in lieu of either HIS 703-704 or HIS 707-708

**Electives and Concentration Requirements Major Concentration**

By approval of the Director of Graduate Study, students in the areas of American and European history select, in addition to the 15 hours of core courses, 6 to 9 hours in their major concentration.

**American History**
- HIS 502 African American History: Selected Topics (3)
- HIS 515 American Diplomatic History: The Twentieth Century (3)
- HIS 517 American Economic History: Colonial Times to 1865 (3)
- HIS 518 American Economic History: 1865 to Present (3)
- HIS 520 Southern History: Selected Topics (3)
- HIS 522 Early American History: Selected Topics (3)
- HIS 524 Twentieth Century U.S. History: Selected Topics (3)
- HIS 526 The Civil War and Reconstruction: Selected Topics (3)
- HIS 530 History of Sexuality: Selected Topics (3)
- HIS 546 American Cultural History: Selected Topics (3)
- HIS 549 American Social History: Family and Religion (3)
- HIS 551 Gender and History: Selected Topics (3)
- HIS 552 History and Theories of Material Culture (3)
- HIS 624 History of American Landscapes and Architecture (3)
- HIS 710 Colloquium in the Atlantic World (3)
- HIS 712 Slavery in the Americas (3)
- HIS 713 African Americans after Slavery (3)
- HIS 715 Atlantic World: Selected Topics (3)
- HIS 722 Early America: Selected Topics (3)
- HIS 723 Selected Topics in Nineteenth-Century United States History (3)
- HIS 724 Selected Topics in Twentieth-Century American History (3)

**European History**
- HIS 510 Historiography (3)
- HIS 541 Ancient World: Selected Topics (3)
- HIS 542 Middle Ages: Selected Topics (3)
- HIS 544 Early Modern Europe: Selected Topics (3)
- HIS 560 Nineteenth Century Europe: Selected Topics (3)
- HIS 562 Twentieth Century Europe: Selected Topics (3)
- HIS 563 Early Modern England: Selected Topics (3)
- HIS 564 Modern Britain: Selected Topics (3)
- HIS 567 French History: Selected Topics (3)
- HIS 571 Modern European Thought: Selected Topics (3)
- HIS 574 Modern Germany: Selected Topics (3)
- HIS 575 Modern Russian History: Selected Topics (3)
- HIS 710 Colloquium in the Atlantic World (3)
- HIS 740 Selected Topics in European History (3)

**Public History**

By approval of the Director of Graduate Study, students in the area of public history complete a concentration in either museum studies or historic
preservation. Students in the museum studies concentration complete 9 hours of required courses and 12 additional hours of electives. Students in the historic preservation concentration complete 12 hours of required courses and 9 hours of electives. Because public history requires interdisciplinary work, students may substitute 3 hours of electives from another department with the permission of the Director of Graduate Study. Requirements for both concentrations are as follows:

**Museum Studies Concentration Required Courses (9 hours)**
- HIS 626 The Practice of Public History (3)
- HIS 627 Museum and Historic Site Interpretation: Principles and Practice (3)
- *HIS 690 Internship (3)

**Historic Preservation Concentration Required Courses (12 hours)**
- HIS 543 Historic Preservation: Principles and Practice (3)
- HIS 624 History of American Landscapes and Architecture (3)
- HIS 625 Preservation Planning and Law (3)
- *HIS 690 Internship (3)

*Students in either concentration with appropriate professional work experience may substitute an additional elective for the internship requirement with the permission of the Director of Graduate Study.

**Public History Electives (9-12 hours)**
Electives may be chosen from courses American, European, and public history. Required courses in either concentration may be taken as electives for students in the other concentration. Electives must reflect a coherent plan of study and must be approved by the public history coordinator and Director of Graduate Study.

**Additional Public History Courses**
- HIS 505 Introduction to Archival Management (3)
- HIS 536 History of Decorative Arts (3)
- HIS 545 Southern History and Southern Material Culture in a Museum Context (3)
- HIS 547 History Museum Curatorship: Collections Management (3)
- HIS 548 Architectural Conservation (3)
- HIS 555 Field Methods in Preservation Technology (3)
- HIS 628 Identification and Evaluation of the Historic Built Environment (3)
- ART 590 Museum Studies (3)
- ATY 597 Special Problems in Anthropology (3)
- GEO 502 Urban Planning (3)
- PSC 540 Nonprofit Management and Leadership (3)

**Minor Concentration**
By approval of the Director of Graduate Study, students must select a minor concentration of 9 hours in an area other than their major concentration.

**Collateral Expertise**
Many areas of historical research require proficiency in a foreign language. Students who intend to concentrate in such areas are encouraged to pass the written language examination, administered by the Department. In lieu of the language examination, students may substitute an extra 3-hour course in either the major or minor. Students who intend to pursue a Ph.D., especially in European history, are strongly encouraged to pass the language examination.

**Comprehensive Examination** (Capstone Experience)
All students must pass a written comprehensive examination, usually administered three times a year, during fall, spring, and summer. Students may retake a failed exam once.

**Thesis**
Students may take 703/704 or 707/708 research seminars or they have the option of completing a 3-hour thesis, with the approval of the Director of Graduate Study.
The Department of History offers a graduate program of study leading to the Ph.D. in American history. Although all students must major in U.S. history, they are encouraged to enlarge their perspective by understanding and analyzing national history in broader, international contexts. This goal is facilitated in two ways: first, a close integration of the minor into the major area; second, a selection of courses that are cross-national and integrative in format.

As a basic requirement, all applicants to the Ph.D. program must hold the B.A. degree and have completed the M.A. in history. Students who enter without a M.A. in history and who wish to complete a Ph.D. must first enter the M.A. program and complete the requirements.

A total of 45-51 hours of course work and dissertation credit, including a minimum of 33-39 hours of course work beyond the M.A. in history and a minimum of 12 hours of dissertation credit, are required to complete the Ph.D. in history.

Upon entering the program, all students will develop a Plan of Study with the approval of the Director of Graduate Study.

Required Core Courses (15 hours)
- HIS 701, 702 Colloquia in American History (6)
- HIS 714 Varieties of Teaching (3)
- HIS 750 Ph.D. Readings Course (3)
- HIS 751 Ph.D. Dissertation Seminar (3)

Research Hours (0-6 hours)
If the Director of Graduate Study should conclude that an admitted Ph.D. candidate did not perform at least 6 hours of substantive research during the M.A. degree program or earned an M.A. in an area of history other than U.S. history, then the student will be required to complete up to 6 hours of additional research. These additional research hours will ordinarily include HIS 703 and HIS 709.

Electives in U.S. Major (9 hours)
In addition to the core requirements, students must complete 9 hours of elective courses in their major. HIS 692 may not be counted for Ph.D. credit. Consult with the Director of Graduate Study for course offerings.

Minor Field (9 hours)
The minor field must be chosen in one of the following concentrations: African American, Atlantic World, European. Required courses for each minor area are as follows:

- **African American**
  - HIS 710 Colloquium in the Atlantic World (3)
  - HIS 712 Slavery in the Americas (3)
  - HIS 713 African Americans after Slavery (3)

- **Atlantic World**
  - HIS 710 Colloquium in the Atlantic World (3)
  - HIS 712 Slavery in the Americas (3)
  - HIS 715 Atlantic World: Selected Topics (3)

- **European**
  - HIS 710 Colloquium in the Atlantic World (3)
  - HIS 705 Colloquium in European History before 1789 (3)
  - HIS 706 Colloquium in European History since 1789 (3)

Where appropriate, and with the permission of the Doctoral Advisory/Dissertation Committee, doctoral students may take a maximum of 3 hours outside the Department of History as part of their minor field.

Language
All students are required to pass a written test demonstrating reading knowledge of one foreign language appropriate to their area of specialization prior to taking the qualifying examination.

Mentor and Doctoral Advisory/Dissertation Committee
A mentor must be named after 9 hours of course work. Normally, the mentor will be the graduate faculty member in the Department whose research and teaching interests most closely correspond to those of the student. Prospective mentors must agree to serve and be approved by the Graduate Committee. Mentors will be responsible for the pedagogical, scholarly, and professional development of their students during their program of study, will chair their Doctoral Advisory/Dissertation Advisory Committee, and will direct the student’s dissertation.

Permission to Proceed and Grade Point Average (GPA)
All students in the Ph.D. program must obtain “permission to proceed” at the end of their first year of courses (normally 18 hours). This permission is granted by a collective decision of the Doctoral Advisory/Dissertation Committee and the departmental Graduate Committee.
Students must maintain a 3.5 GPA to proceed to the writing of the dissertation.

Qualifying Examination
The qualifying examination, which will come at the end of the 33-39 hours of course work (including a 3 hour Ph.D. readings course and a 3 hour Ph.D. seminar), will include two parts:
1. A written examination composed of questions from the major and minor fields.
2. An oral examination to be given no later than one month after the completion of the written examination.

If a student fails only one part of the written examination, he/she may be required to retake only that part. If a student fails either the written or oral examination (or both), he/she must retake the entire examination.

Dissertation (minimum of 12 hours)
Students will register for a minimum of 12 hours of dissertation credit (HIS 799) while researching and writing the dissertation.

HIS History Courses

Before any student may enroll in a 500-level course, the Department of History requires the completion of 6 hours of 300-level history courses or permission of the instructor.

502 African American History: Selected Topics (3:3)
Intensive examinations of selected topics in black history including African beginnings, slavery, racial attitudes, and civil rights. May be repeated once for credit.

505 Introduction to Archival Management (3:3)
Pr. permission of instructor
Principles of archival management, featuring both classroom instruction in archival theory and practical experience in manuscript repositories and public and private archives. (Same as LIS 505)

508 Latin America and Caribbean: Selected Topics (3:3)
Pr. one course in Latin American history or permission of instructor
Study of select political and economic developments from a historical perspective. Topics include an examination of Hispanic democracy, the evolution of the military, and land tenure. Seminar format. May be repeated once for credit when topic varies.

510 Historiography (3:3)
Development of the historical profession and perspectives on historical writing. Selected readings by philosophers and practicing historians such as Herodotus, Ibn Khaldun, Ranke, Marx, Braudel, Thompson, Foucault, Dilthey, and Steedman.

511a,b,c Seminar in Historical Research and Writing (3:3), (3:3), (3:3)
Pr. one 300-level research intensive history course and permission of instructor
Locating and using historical source materials, written and oral, published and unpublished. 511a: American; 511b: European; 511c: Wider World. May be repeated once for credit when topic varies. Required of history majors.

512 Public History (3:3)
History of the preservation of America’s past through museums (indoor and outdoor); collections and their interpretation; exhibitions and park and wilderness areas.

515 American Diplomatic History: The Twentieth Century (3:3)
Emphasis on the most important crises and the making of basic policy decisions from the Spanish American War to the present.

517 American Economic History: Colonial Times to 1865 (3:3)
Pr. ECO 201 or permission of instructor
Evolution of the American economy through the Civil War. Emphasis on sources of economic growth and economic welfare. (Same as ECO 517)

518 American Economic History: 1865 to Present (3:3)
Pr. ECO 201 or permission of instructor
Evolution of the American economy from the Civil War to the present. Emphasis on economic performance through time measured against the goals of full employment, price stability, and rapid growth. (Same as ECO 518)

520 Southern History: Selected Topics (3:3)
Selected topics in the history of the American South from the colonial origins to our time. Examples include politics, education, economic development, reform, race, and gender. May be repeated once for credit when topic varies.

522 Early American History: Selected Topics (3:3)
Varying topics in early American history including settlement, economic development, Puritanism, the Great Awakening, slavery, ethnicity, and pre-Revolutionary politics. May be repeated once for credit when topic varies.

524 Twentieth Century U.S. History: Selected Topics (3:3)
Varying topics in twentieth century U.S. history including Progressive Era, World War I, the 1920s, the Great Depression and New Deal, World War II, McCarthyism, Civil Rights Movement, Vietnam War, the 1960s. May be repeated once for credit when topic varies.
526 The Civil War and Reconstruction: Selected Topics (3:3)
Causes of the Civil War. Military events and developments on the home front in wartime, North and South. Reconstruction policy in Washington and its implementation in the South. May be repeated once for credit when topic varies.

530 History of Sexuality: Selected Topics (3:3)
Intensive exploration of critical themes in the history of sexuality, including such issues as fertility control, sexual identity, and sexual politics. May be repeated once for credit when topic varies.

534 The American Revolution (3:3)
211 recommended
Politics of Empire, colonial political culture, War for Independence, constitutionalism, race, partisanship from the 1750s to 1800.

536 History of Decorative Arts (3:3)
Study of changing stylistic and cultural developments in the decorative arts with special concentration on America. (Same as IAR 536)

541 Ancient World: Selected Topics (3:3)
Varying topics in ancient Near Eastern, Greek, and Roman history, including politics and public rituals, patterns of social organization, ancient slavery, cross-cultural interactions. May be repeated once for credit when topic varies.

542 Middle Ages: Selected Topics (3:3)
Varying topics in medieval culture and society chosen from the broad categories of political, social, economic, intellectual, or religious history. May be repeated once for credit when topic varies.

543 Historic Preservation: Principles and Practice (3:3)
Pr. IAR 221, IAR 222, or permission of instructor
Change in historic preservation theory and practice since the 1800’s with emphasis on preservation of built environment and development of philosophical approach for designers to contemporary preservation projects. (Same as IAR 543)

544 Early Modern Europe: Selected Topics (3:3)
Varying topics in early modern European history, including Renaissance cities, Protestant Reformation, Catholic Reformation, court cultures, impact of printing, gender and identity, and the Age of Discovery. May be repeated once for credit when topic varies.

545 Southern History and Southern Material Culture in a Museum Context (3)
Pr. permission of instructors after completion of required application form
Combined southern history and material culture with a museum practicum. May be repeated for credit when topic varies with permission of instructor. (Same as IAR 545)

546 American Cultural History: Selected Topics (3:3)
Varying topics in the creation and development of American culture including the role of technology, environment, ethnic diversity, and the history of ideas. May be repeated once for credit when topic varies.

547 History Museum Curatorship: Collections Management (3:3)
Pr. admission to a graduate program in history or interior architecture, or permission of instructor
Professional practices in the care and management of historic site and history museum collections, including principles of collection development, object registration, cataloging, and preservation. (Same as IAR 547)

548 Architectural Conservation (3:3)
Pr. IAR 301, IAR 332, or permission of instructor
Contemporary architectural conservation principles, practice and technology. Field exercises, group projects and investigation of an individual research topic expand upon lectures and readings. (Same as IAR 548)

549 American Social History: Family and Religion (3:3)
American social history from the eve of colonization to Reconstruction, the family and communal organization of early American society and the assumptions about human nature and destiny underlying culture and change.

551 Gender and History: Selected Topics (3:3)
Pr. 6 hours of 300-level courses or permission of instructor
Varying topics in gender and history including gender and popular culture; gender, labor, race, and class; history of masculinity. May be repeated once for credit when topic varies.

552 History and Theories of Material Culture (3:3)
Pr. admission to a graduate program in history or interior architecture, or permission of instructor
Material culture as it has been defined and interpreted in the past by scholars from the disciplines of history, anthropology, geography, art history, psychology, linguistics, and archaeology. (Same as IAR 552)

555 Field Methods in Preservation Technology (3:1:6)
Pr. admission to a graduate program in history or interior architecture, or permission of instructor
Intensive on-site fieldwork experience addressing issues of architectural conservation and historic building technology. Includes methods, techniques, and theories of preservation technology and accepted conservation practices. (Same as IAR 555)

560 Nineteenth Century Europe: Selected Topics (3:3)
Selected topics address comparative political, social, and economic development of major European states and changing power relationships from the defeat of Napoleon to the end of the First World War. May be repeated once for credit when topic varies.

562 Twentieth Century Europe: Selected Topics (3:3)
Topics in 20th century European history including World War I, its impact on European thought and culture, the origins of World War II, the movement for European Unity, the Cold War. May be repeated once for credit when topic varies.

563 Early Modern England: Selected Topics (3:3)
Varying topics in early modern British history, including the Protestant Reformation, political revolutions and economic and social change. May be repeated once for credit when topic varies.
564 Modern Britain: Selected Topics (3:3)
Varying topics in modern British history including the Third Reich, Germany during World War II, Bismarckian Germany, ideology in Germany. May be repeated once for credit when topic varies.

567 French History: Selected Topics (3:3)
Study of specific themes and problem areas in French history. May be repeated for credit when topic varies. May be repeated once for credit when topic varies.

571 Modern European Thought: Selected Topics (3:3)
Study of selected themes and/or problems in European intellectual and cultural history. May be repeated once for credit when topic varies.

574 Modern Germany: Selected Topics (3:3)
Varying topics in modern German history including the Third Reich, Germany during World War II, Bismarckian Germany, ideology in Germany. May be repeated once for credit when topic varies.

575 Modern Russian History: Selected Topics (3:3)
Varying topics in modern Russian history, including “Great Reforms,” industrialization, revolutionary movement, Marxism-Leninism, tsarist and Soviet foreign policy, Soviet politics, post-World War II changes, Gorbachev era, and end of Soviet Union. May be repeated once for credit when topic varies.

578 Research Methods in Historical Archaeology (3:3)
Training in research methods in historic archaeology. Involves on-site training in field, laboratory, and library components of historic archaeology. (Same as ATY/IAR 578)

581 African History: Selected Topics (3:3)
Varying topics in African history including Central African Kingdoms, Pre-colonial West African Kingdoms, “Stateless” Societies of Africa, etc. May be repeated once for credit when topic varies.

587 Southern African History (3:3)
The rise and decline of African nations in nineteenth century southern Africa; economic and social change, the creation of the Union of South Africa and the roots of apartheid.

588 East Asian History: Selected Topics (3:3)
Varying topics in East Asian history: a detailed examination of specific social, economic, political and intellectual facets of Chinese, Korean and Japanese history. May be repeated once for credit when topic varies.

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

624 History of American Landscapes and Architecture (3:3)
Pr. admission to a graduate program in history or interior architecture, or permission of instructor
Examination of the social and cultural forces affecting the design and use of landscapes and buildings in North America from the colonial period through the mid-twentieth century. (Same as IAR 624)

625 Preservation Planning and Law (3:3)
Pr. admission to a graduate program in history or interior architecture, or permission of instructor
Examination and analysis of the relationship of government programs and policies, community and regional planning strategies, and legal case precedents to the field of historic preservation. (Same as IAR 625)

626 The Practice of Public History (3:3)
Pr. admission to a graduate program in history or interior architecture, or permission of instructor
Basic principles in the administration of museums, historic sites, and other cultural resources. Subjects include fundraising, personnel and volunteer management, working with board members, and museum law and ethics. (Same as IAR 626)

627 Museum and Historic Site Interpretation: Principles and Practice (3:3)
Pr. admission to a graduate program in history or interior architecture, or permission of instructor
Theory and practice of interpreting history to the public in the context of museums and historic sites. Topics include exhibit planning and technologies, living history, research methods, and audience evaluation. (Same as IAR 627)

628 Identification and Evaluation of the Historic Built Environment (3:2:2)
Pr. 550, admission to a graduate program in history or interior architecture, or permission of instructor
Methods, techniques, and theories of researching, analyzing, documenting, and evaluating the historic built environment. Includes architectural survey field methods, documentation techniques, archival research, and approaches to evaluating historic significance. (Same as IAR 628)

630a,b,c Historical Conceptualization (3:3), (3:3), (3:3)
Historical developments: urbanism, the family, material consumption, deviance, revolution, science and technology, warfare, and other topics through the use of comparative history, social and political theory, and analytical tools from other disciplines. May be repeated when topic varies.

690 Internship (3)
Pr. at least 12 hours in history M.A. or interior architecture M.S. program and permission of Director of Graduate Study
Supervised professional experience in selected museum, historic site, or other professional setting in accordance with the major course of study of the student. (Graded on S-U basis) (Same as IAR 690)

692 Advanced Topics in History (3:3)
Pr. admission to graduate study in history and permission of instructor
Topics in history and thematic topics not otherwise covered at the graduate level. For details, see the Director of Graduate Study.
697 Directed Reading (1-4)
Pr. admission to graduate study in history and permission of instructor and Director of Graduate Study
A directed program of reading and research, available to the qualified student upon the recommendation of an instructor and the department head.

699 Thesis (1-6)

701 Colloquium in American History before 1865 (3:3)
Pr. permission of Director of Graduate Study
Issues of historical interpretation from the Revolution through the Civil War.

702 Colloquium in American History since 1865 (3:3)
Pr. permission of Director of Graduate Study
Issues of historical interpretation from Reconstruction to the present.

703 Seminar in American History (3:3)
Pr. permission of Director of Graduate Study
Research and writing on selected topics in American history.

704 Seminar in American History (3:3)
Pr. permission of Director of Graduate Study
Research and writing on selected topics in American history.

705 Colloquium in European History before 1789 (3:3)
Pr. permission of Director of Graduate Study
Topics in European social, economic, political and intellectual history from the Middle Ages to the French Revolution. Methodology and the diversity of historical approaches.

706 Colloquium in European History since 1789 (3:3)
Pr. permission of Director of Graduate Study
Interpretations of selected historical problems from the French Revolution to the present.

707 Seminar in European History (3:3)
Pr. permission of Director of Graduate Study
Research and writing on selected topics in European history.

708 Seminar in European History (3:3)
Pr. permission of Director of Graduate Study
Research and writing on selected topics in European history.

709 Introductory Research Seminar (3:3)
Pr. permission of Director of Graduate Study
Will focus on methods, sources, and writing; research paper based on primary and contextualized in secondary sources. May be repeated once for credit when topic varies.

710 Colloquium in the Atlantic World (3:3)
Pr. permission of Director of Graduate Study
Introduction to the history of the Atlantic trading system, the historiography of Atlantic World studies, and comparative, cross-cultural approaches to historical research.

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

712 Slavery in the Americas (3:3)
Pr. permission of Director of Graduate Study
Comparative analysis of slavery and race relations in South and Central America, the Caribbean, British North America, and the United States, 1501-1888.

713 African Americans after Slavery (3:3)
Pr. permission of Director of Graduate Study
African American history during the Civil War, Reconstruction, the era of Jim Crow, the civil rights and post-civil rights eras.

714 Varieties of Teaching (3:3)
Pr. M.A. in history
Introduction to college level teaching in history with attention to syllabi, lecturing, examinations, discussions, grading, and responding to student input. Students participate in teaching actual courses. (Graded on S-U basis)

715 Atlantic World: Selected Topics (3:3)
Pr. permission of Director of Graduate Study
Topics include European migration, comparative colonization, African diaspora, and “underdevelopment” in Latin America and Africa. May be repeated once for credit when topic varies.

722 Early America: Selected Topics (3:3)
Topics in early American history from New World encounters, popular culture, race, gender, religion, or politics to 1800. May be repeated once for credit when topic varies.

723 Selected Topics in Nineteenth-Century United States History (3:3)
Varying topics that explore political, social, economic, intellectual, cultural, or religious history of nineteenth-century U.S. History. May be repeated once for credit when topic varies.

724 Selected Topics in Twentieth-Century American History (3:3)
Major developments in the political, social, and cultural history of the United States since 1900. May be repeated once for credit when topic varies.

740 Selected Topics in European History (3:3)
Varying topics that explore political, social, economic, intellectual, cultural, or religious history of European History. May be repeated once for credit when topic varies.

750 Ph.D. Readings Course (3)
Pr. permission of Director of Graduate Study
Designed to provide doctoral students with a program of focused readings in the student’s field of study. (Graded on S-U basis)

751 Ph.D. Dissertation Seminar (3:3)
Pr. completion of all course requirements and qualifying examination
Students will develop a doctoral dissertation topic. (Graded on S-U basis)

799 Dissertation (1-12)

801 Thesis Extension (1-3)

802 Dissertation Extension (1-3)

803 Research Extension (1-3)
Department of

Human Development and Family Studies

Professors
Cheryl Buehler, Ph.D.
Interparental conflict and child adjustment, divorce and family transitions, family foster care.

Susan D. Calkins, Ph.D.
Social and emotional development in infancy and early childhood.

Deborah J. Cassidy, Ph.D.
Child-care quality, early childhood professional development, developmentally appropriate practices.

David H. Demo, Ph.D.
Family diversity, family relationships and children’s well-being; parent-child interaction; self-concept development (Director of Graduate Study).

Marion O’Brien, Ph.D.
Child care, school environments, and children’s development; parenting and children’s socio-emotional development; infant-toddler behavior and development.

Daniel Perlman, Ph.D.
Intimate relationships and friendships including initiation, maintenance, and termination; the dark side of relationships; loneliness (Chair of Department).

Jonathan Tudge, Ph.D.
Ecological and socio-cultural theory, children’s development in ethnic, social, and cross-cultural contexts, links between home, preschool and school.

Associate Professors
Stephanie I. Coard, Ph.D.
Socio-cultural influences on child mental health, racial/ethnic socialization processes, racial/ethnic identity development.

Anne C. Fletcher, Ph.D.
Parental and peer influences on adolescent adjustment, parent and adolescent social integration, social network closure.

Heather Helms, Ph.D.
Marriage, friendship, work and family in dual-earner couples; midlife parenting and relationships.

Linda Lott Hestenes, Ph.D.
Young children’s understanding of disability, inclusive classrooms, early peer relations.

Andrea Hunter, Ph.D.
Diversity in children’s living arrangements, grandparenthood, multigeneration family systems, constructions of gender.

Mary Y. Morgan, Ph.D.
Women’s everyday lived experiences using feminist research approaches and exploring ethnic and racial diversity.

Sudha Shreeniwas, Ph.D.
Well-being and health over the life course; ethnicity, culture, and health among the elderly.

Andrew J. Supple, Ph.D.
Youth and adolescent development, parent-child relationships, cultural variations, research methods, and program evaluation.

Graduate Programs in Human Development and Family Studies

• Post-Baccalaureate Certificate
  Leadership in Early Care and Education

• M.Ed.
  with a concentration in Birth-Kindergarten: Interdisciplinary Studies in Education and Development (jointly with the Department of Specialized Education Services)

• M.S.
  Elective Concentration: Family Life and Parent Education

• Ph.D.
The Department of Human Development and Family Studies offers graduate work leading to the Master of Education, Master of Science, and Doctor of Philosophy degrees in human development and family studies.

Departmental faculty have a wide range of research interests and methodological approaches which include experimental tests of children’s social and cognitive development, micro-analytic analyses of peer and parent-child interactions, survey, interview, and qualitative/interpretive investigations of individual development and family processes, and the design and evaluation of educational and intervention programs for children, family members, and educational personnel. Within these general areas of concentration students focus upon more specific topics of study.

Graduate course work in human development and family studies focuses on individuals and families as they relate to friendship and kinship networks, media and technology, the workplace, and economic, human service, health, and formal and informal educational systems. Graduate students have considerable flexibility in tailoring their studies to special interests and career goals. Broad areas of concentration include child and adolescent development, child care and early childhood education, adult development and aging, divorce/remarriage, parent and family life education, and family relationships. Students enrolled in M.S. and Ph.D. programs are expected to engage in graduate work full-time.

Admission Requirements
In addition to a review of the admission materials required by The Graduate School, the department considers the compatibility of the student’s interest areas with those of the faculty and with curriculum emphasis, as well as the student’s availability for full-time graduate study.

Requirements for the Post-Baccalaureate Certificate in Leadership in Early Care and Education

The departments of Human Development and Family Studies and Specialized Education Services offer a Post-Baccalaureate Certificate in Early Care and Education Leadership. The certificate will provide students with graduate level training and a credential to pursue careers in leadership positions in early care and education settings including early intervention, Smart Start, resource and referral, and community college instruction. The certificate requires 18 semester hours of course work and is available to students with a bachelor’s or masters’ degree who do not plan to pursue a degree program or for students who are pursuing a master’s degree in Human Development and Family Studies or Specialized Education Services. If pursuing a master’s degree simultaneously, students must meet all requirements for admission to The Graduate School, Human Development and Family Studies, and Specialized Education Services. The Certificate is also open to graduate students in related fields.

**Required Courses (15 hours)**

- HDF 633 Advanced Early Childhood Educational Theory and Practices (3)
- HDF 634 Contemporary Issues in Early Childhood Policy (3)
- HDF 636 Leadership and Mentoring Roles in Educating Young Children (3)
- SES 601 Program and Policies in Early Intervention (3)
- SES 605 Diversity and Inclusive Early Care and Education (3)

**Electives (3 hours)**

With the approval of the advisor, students choose 3 hours of electives at the 500 or 600 level.
Requirements for the Master of Science
in Human Development and Family Studies

The Department of Human Development and Family Studies offers a graduate program of study leading to the Master of Science degree. The M.S. Thesis Option requires a minimum of 38 hours (including thesis) and prepares graduates to conduct research or to embark on a doctoral program of study. The M.S. with a concentration in Family Life and Parent Education (34 hours) prepares graduates as consumers of research enabling them to translate and apply research findings in government and community agencies or to develop social policy. This program concentration is administered jointly with North Carolina State University.

Electives (9 hours)
To be selected from list or with approval of advisor.
- HDF 610 Child Development in Cultural Context (3)
- HDF 621 Advanced Theories and Principles of Parenting (3)
- HDF 653 Contemporary Research in Family Studies (3)
- HDF 667 Infant Development (3)
- SES 608 Seminar in Early Childhood (3)
- SES 647 Consultation in Education: Theory, Research, Practices (3)
- SES 657 Introduction to Behavior Disorders (3)
- SES 662 Assistive Technology for Inclusive Education (3)
- Other courses as approved by advisor.

Professional Portfolio (Capstone Experience)
The final portfolio is the culminating experience for the M.Ed. in Birth-Kindergarten: Interdisciplinary Studies in Education and Development (BKISED). It includes two components: 1) a written document that includes a series of reflective essays and 2) oral defense, discussing the content of the essays and rationale for the use of documents. This portfolio will demonstrate the mastery of skills and knowledge in the program competency areas. It is submitted to the student’s advisor and evaluated by a team of two faculty and one practicing professional. If the portfolio and presentation do not meet departmental standards, one revision is allowed. The final portfolio is required of all students graduating from the BKISED program.

Requirements for the Master of Education
in Human Development and Family Studies with a Concentration in Birth-Kindergarten: Interdisciplinary Studies in Education and Development

The Departments of Human Development and Family Studies and Specialized Education Services offer a joint program of study leading to a 39 hour Master of Education degree. Those who do not have initial teaching license in B-K will be required to take prerequisite courses to fulfill this requirement. Upon completion of this program of study, students will be eligible for “M” license in birth-kindergarten.

Electives (9 hours)
To be selected from list or with approval of advisor.
- HDF 610 Child Development in Cultural Context (3)
- HDF 621 Advanced Theories and Principles of Parenting (3)
- HDF 653 Contemporary Research in Family Studies (3)
- HDF 667 Infant Development (3)
- SES 608 Seminar in Early Childhood (3)
- SES 647 Consultation in Education: Theory, Research, Practices (3)
- SES 657 Introduction to Behavior Disorders (3)
- SES 662 Assistive Technology for Inclusive Education (3)
- Other courses as approved by advisor.

Professional Portfolio (Capstone Experience)
The final portfolio is the culminating experience for the M.Ed. in Birth-Kindergarten: Interdisciplinary Studies in Education and Development (BKISED). It includes two components: 1) a written document that includes a series of reflective essays and 2) oral defense, discussing the content of the essays and rationale for the use of documents. This portfolio will demonstrate the mastery of skills and knowledge in the program competency areas. It is submitted to the student’s advisor and evaluated by a team of two faculty and one practicing professional. If the portfolio and presentation do not meet departmental standards, one revision is allowed. The final portfolio is required of all students graduating from the BKISED program.

Research Requirements (6 hours)
- ERM 604 Methods of Educational Research (3)
- HDF 650 Theory and Research in Early Childhood (3)

Theory and Practice Requirements (18 hours)
- HDF 631 Families of Individuals with Special Needs (3)
- HDF 633 Advanced Early Childhood Educational Theory and Practices (3)
- HDF 636 Leadership and Mentoring Roles in Educating Young Children (3)
- SES 601 Programs and Policies in Early Intervention (3)
- SES 602 Theory and Practice in Early Intervention (3)
- SES 603 Preschool Disabilities: Assessment and Evaluation (3)

Practicum (6 hours)
- SES 604 Internship in Early Childhood (6)
Area of Specialization (9 hours)
Area of specialization courses are selected jointly by the student and the faculty advisory committee. All 9 hours must be fulfilled through content courses, and at least 6 of the 9 hours must be taken within the Department of Human Development and Family Studies.

Statistics and Methodology (9 hours)
ERM 680 Intermediate Statistical Methods in Education (3)
ERM 681 Design and Analysis of Educational Experiments (3)
HDF 658 Research Methods in HDFS (3)

Research (6 hours) (Capstone Experience)
HDF 699 Thesis (6) and oral examination

FAMILY LIFE AND PARENT EDUCATION CONCENTRATION (34 HOURS)
Core Content (6 hours)
HDF 644 Applications of Theory and Research in Family Studies (3)
HDF 654 Applications of Theory and Research in Human Development (3)

Area of Specialization (9 hours)
FCS 512 Family and Community Partnerships (3)
FCS 522 Family Life Education (3)
HDF 621 Applied Theories and Principles of Parenting (3)

Applied Research Requirements (6 hours)
ERM 604 Methods of Educational Research (3)
ERM 642 Evaluation of Educational Programs (3) or FCS 510 Program Development and Evaluation (3)

Applied Research Internship and Professional Development (4-7 hours)
HDF 695 Professional Seminar in Family Life/Parent Education or FCS 595 Contemporary Issues in Family Life Education
*HDF 696 Supervised Professional Experience in Human Development and Family Studies or FCS 600 Supervised Professional Experience in Family and Consumer Sciences

*Indicates Capstone Experience. The number of field project hours will be negotiated with the student and his/her advisor based on student experience and learning needs.

Additional Requirements (6-9 hours)
Six to nine hours from the following electives, or from other courses if approved by the program advisor, will be selected and submitted with the program of study. If 3 hours are taken in HDF 696/FCS 600 (field project), then 9 hours of electives are required.

HDF 667 Infant Development
HDF 668 Seminar in Adolescence
HDF 671 Contemporary Family Life
HDF 672 Divorce and Remarriage
HDF 675a Divorce Mediation
FCS 523 Family Relationships over the Life Course
FCS 524 Applied Gerontology
FCS 525 End of Life Issues
FCS 531 Effective Management of Family Resources
FCS 540 Environmental Influences on the Family
*FCS 601 Independent Study

*Independent study hours may be taken as an elective but would exceed the necessary hours for degree completion.

PhD Requirements for the Doctor of Philosophy in Human Development and Family Studies

The Department of Human Development and Family Studies offers a graduate program leading to a Doctor of Philosophy of 89 hours beyond the baccalaureate degree (for students entering the program in the M.S./Ph.D. track) or a minimum of 51 hours beyond a master’s degree program. Required and elective course work and research are listed below. Entering doctoral students who have completed a master’s degree program at another institution or department must fulfill (or have comparable substitutions for) all of the requirements of the HDFS M.S. Thesis Option degree program. Assessment of prerequisite courses occurs at the time of admission to the program. These requirements must be fulfilled in addition to completing the minimum of 51 hours of course work and research shown below.

Area of Specialization (18 hours)
The Ph.D. program requires the completion of 18 hours of elective course work (selected jointly by the student and the faculty advisory committee) beyond the minimum of 9 hours of specialization course work taken for the M.S. Thesis Option. Of the 18 hours to be taken for the Ph.D., 9 hours must be fulfilled through content knowledge courses.

Professional Development (1 hour)/ Teaching Practicum (5 hours)
All doctoral students will complete a two-semester teaching practicum supervised by the student’s advisor, or the advisor’s designee. The practicum requires the student to serve as an assistant, then as a co-instructor of a course (or courses) at the 200, 300, or 400 level.
Human Development and Family Studies Courses

**HDF 502 Gender in Families (3:3)**
*Pr. 211, 212, 410 or permission of instructor*
Influence of social, philosophical, political, and technological change on gender relationships in families in the past, present, and future.

**HDF 510 Child and Family Ecology (3:3)**
*Pr. 412 and 452 or graduate standing*
Study of children and families in their social contexts; examination of issues such as parent-child relations, child maltreatment, divorce and single-parent families, and work-family linkages.

**HDF 527 Problems in Human Development and Family Studies (2-6)**
*Pr. permission of instructor*
Designated special problems.

**HDF 589 Experimental Course**
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

**HDF 601 Directed Individual Study in Human Development and Family Studies (1-6)**
*Pr. 6 semester hours of HDF graduate courses and permission of instructor*

**HDF 602 Problems in Human Development and Family Studies (2-4)**
Designated special problems such as Child Care Administration, Parent Education, Practicum, Child Guidance. May be repeated for credit.

**HDF 603 Research Laboratory Practicum in Human Development and Family Studies (1:0:3)**
Supervised practicum experiences in planning, designing, and implementing research investigations in the field of human development and family studies. Students must obtain approval of a supervising graduate faculty member before registering. May be repeated for credit; credit can not be used to meet minimum hour requirements of a degree program. (Graded on S-U basis)

**HDF 610 Child Development in Cultural Context (3:3)**
Examines how culture influences children’s development and is simultaneously influenced by members of that culture.

**HDF 621 Applied Theories and Principles of Parenting (3:3)**
*Pr. HDF major or permission of instructor*
Examination of established parenting models and programs. Theoretical foundations and issues related to program development, adaptation, and implementation. Implications for outcome analyses and program evaluation.

**HDF 624 Feminist Theory and Research Methodologies (3:3)**
Research issues associated with the study of women and families from a feminist perspective on scholarship. Examination of feminist research methods focusing on interpretive inquiry and critical science. (formerly HDF 607)

**HDF 626 Social and Economic Problems of the Family (3:3)**
Social and economic conditions in the U.S. as they affect the welfare of families in general and influence or interact with an individual family’s values, goals, and resource development and use. (formerly HDF 606)

**HDF 631 Families of Individuals with Special Needs (3:3)**
*Pr. HDF/SES 425 or HDF/SES 435 or permission of instructor*
Current theory, research and intervention models concerning family coping and adaptation to children’s exceptional development: physical handicaps, developmental disabilities, chronic illness, and psychiatric disorders. (formerly HDF 660)

**HDF 633 Advanced Early Childhood Educational Theory and Practices (3:3)**
*Pr. HDF/SES 425 or HDF/SES 435 or permission of instructor*
Examination of current curriculum approaches in early childhood programs. Theoretical and developmental foundations of these approaches, accepted early childhood classroom practices, research in curriculum effectiveness will be researched and critiqued. (formerly HDF 609)

**HDF 634 Contemporary Issues in Early Childhood Policy (3:3)**
Analysis of how federal, state, and local policies impact early childhood programs, early childhood professionals, children, and families. (formerly HDF 684)
636 Leadership and Mentoring Roles in Educating Young Children (3:3)
Advanced leadership and mentoring skills for those who develop and implement early childhood programs for typically and atypically developing young children and their families. (formerly HDF 683)

640 Professional Seminar I (1:1)
Conceptual and methodological perspectives of multidisciplinary study in the field of human development and family studies. Required of all first-year master’s and doctoral students. (formerly HDF 689)

644 Applications of Theory and Research in Family Studies (3:3)
Abbreviated examination of theories that relate to family studies and contemporary research findings in the areas of family studies relevant to family life/parent education.

650 Theory and Research in Early Childhood (3:3)
Examination of theory and current research in the development of children from birth through kindergarten.

651 Contemporary Research in Human Development (3:3)
Pr. HDF major or permission of instructor
Examination of contemporary research findings in the field of human development.

653 Contemporary Research in Family Studies (3:3)
Pr. HDF major or permission of instructor
Examination of contemporary research findings in the field of family studies. (formerly HDF 641)

654 Applications of Theory and Research in Human Development (3:3)
Abbreviated examination of theories that relate to human development and contemporary research findings in the areas of human development relevant to family life/parent education.

655 Family Theory (3:3)
Pr. HDF major and 653 or permission of instructor
Theories that relate to studying families; linking conceptual ideas, theorizing, and research examples relevant to families. (formerly HDF 642)

658 Research Methods in Human Development and Family Studies (3:3)
Research methods and designs of research with children and families. Core requirement for M.S. and Ph.D. degrees. (formerly HDF 630)

661 Professional Seminar II (1:1)
Professional activities and ethical responsibilities of university teachers and research scholars; professional writing, peer-review, extramural funding, and research practices with human subjects. Core requirement for M.S. and Ph.D. degrees. (formerly HDF 690)

665 Personality and Social Development (3:3)
Pr. 651 (or 650 or 654) and 652, or permission of instructor
Integrates theory and research focusing on dimensions of normal personal-social growth from infancy through childhood. Importance of peer and family relations in the development of social attitudes, self-concept, prosocial behaviors, social conformity, and moral reasoning. (Same as PSY 608) (formerly HDF 608)

666 Intellectual Development in Young Children (3:3)
Pr. 653 (or 650 or 654), 652, or permission of instructor
Current theories and recent research on intellectual development from infancy through middle childhood; language acquisition, thinking, conceptual representation, learning, memory, and perceptual development. (formerly HDF 618)

667 Infant Development (3:3:3)
Pr. 651 (or 650 or 654), 652, or permission of instructor
Principles of perceptual, motor, cognitive and socio-emotional development in infants and very young children. (formerly HDF 632)

668 Seminar in Adolescence (3:3)
Pr. 653 (or 650 or 654) or permission of instructor
Integrates theory, research, and practice focusing on dimensions of normative and problematic adolescent development within its ecological contexts. (formerly HDF 635)

671 Contemporary Family Life (3:3)
Pr. 653, 655, or permission of instructor
Contemporary families; the nature of family dynamics and the needs of family members in a changing social context. (formerly HDF 692)

672 Divorce and Remarriage (3:3)
Pr. 653 (or 644) or permission of instructor
Trends in divorce and remarriage. Critique of theory and research and study of relationships in the reorganization of the family.

673 The Family in Comparative Perspective (3:3)
Pr. 653, 655, or permission of instructor
Family patterns in different cultures; viewing family systems within their cultural contexts. (formerly HDF 662)

674 Close Relationships in Adulthood (3:3)
Pr. 653 or 644 or permission of instructor
Interdisciplinary introduction to close relationships in adulthood, including the major theoretical perspectives scholars use to examine close relationships, the methods researchers employ, and the substantive foci that characterize the field. (formerly HDF 643)

675a Family Conflict Resolution (3:3)
Pr. for HDF majors, HDF 672; for CNR majors, CNR 600; for all others, permission of instructor
Explores the theory, research and methods of working with family conflicts related to divorce (financial and parenting), parent-child, and older adult issues. Assignments include reading, case studies, and role plays. (Same as CNR 675)

675b Divorce Mediation Practicum (3)
Pr. 675a or permission of instructor
Skill development and application of theory to practice in divorce mediation through supervised work with clients in a laboratory setting. (Graded on S-U basis)

695 Professional Seminar in Family Life and Parent Education (1:1)
Professional issues and career development skills in the field of family life and parent education.
696 Supervised Professional Experience in Human Development and Family Studies (1-6:0:3-12)
   Pr. permission of instructor
   Supervised professional experience in selected commercial or industrial organizations, public or private agencies. Completion of a major project or activities appropriate to the goals of the agencies. (formerly HDF 600)

699 Thesis (1-6)
   Pr. permission of instructor
   Required of all candidates for the Master of Science degree. Credit may be divided over two or more semesters.

700 College Teaching in Human Development and Family Studies I (2:1:3)
   Introduction to college teaching through observation and exploration of issues for beginning teachers. Students are assigned to work with graduate faculty members. May be repeated with a different member of the graduate faculty. (Graded on S-U basis) (formerly HDF 664)

701 Minor Research (2-6)
   Pr. permission of instructor
   (formerly HDF 670)

710 The Ecology of Human Development (3:3)
   For advanced level graduate students in human development and family studies, sociology, psychology, and counseling education. Urie Bronfenbrenner’s Ecological Systems Theory is a major contemporary theory in the field of human development. Course deals with its theoretical foundations, its development, and related contemporary empirical research.

711 Experimental Course
   This number reserved for experimental courses. Refer to Course Schedule for current offerings.

712 Advanced Research Design in Human Development and Family Studies (3:3)
   Pr. HDF core requirements and two graduate statistics courses or permission of instructor
   Methods and designs of research with individuals and families from problem specification, data collection and reduction, to data analysis. Core requirement for Ph.D. degree.

721 Seminar in Parent-Child Relations (3:3)
   Pr. 651 (or 650 or 654), 652, and 653 (or 644); or permission of instructor
   Current theoretical and research perspectives on parent-child relations. Child-rearing practices and socialization processes. (formerly HDF 612)

750 Professional Seminar III (1:1)
   Pr. 640, 661
   Job search methods and strategies in human development and family studies for doctoral students. (formerly HDF 691)

765 College Teaching Practicum in Human Development and Family Studies II (3:1:6)
   Supervised experiences in planning, teaching, and evaluating a college-level course. Student must obtain the approval of a supervising graduate faculty member before registering. May be repeated with a different member of the graduate faculty.

790 Independent Doctoral Research (1-6)
   Individual work on problems related to the student’s primary area(s) of specialization. Work may consist of empirical research or of critical reviews and integrations of existing literature.

799 Dissertation Problem (1-12)
   Pr. permission of instructor
   Required of all candidates for the Doctor of Philosophy degree. Credit may be divided over two or more semesters.

801 Thesis Extension (1-3)

802 Dissertation Extension (1-3)

803 Research Extension (1-3)
**Graduate Programs in Information Systems and Operations Management**

- Post-Baccalaureate Certificates
  - Information Assurance, Security, and Privacy
  - Information Technology
- Supply Chain and Logistics Management
- M.S.
  - Information Technology and Management
- Post-Master’s Certificate
  - Information Technology
- Ph.D.
  - Information Systems
- Doctoral Minor
  - Information Systems

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**Professors**

**Kwasi Amoako-Gyampah**, Ph.D.
- Management of advanced technology, systems implementation, supply chain management, global manufacturing practices, manufacturing strategy (Head of Department, Director of Ph.D. Program).

**Joyendu Bhadury**, Ph.D.
- Location modeling, logistics and supply chain management, applied management science.

**Richard A. Ehrhardt**, Ph.D.
- Management science, stochastic modeling, inventory theory, semantic web ontologies, supply chain logistics.

**Vidyaranya B. Gargeya**, Ph.D.
- Global operations strategy, supply chain management, total quality management and continuous improvement systems, just-in-time manufacturing, service operations management.

**Gerald L. Hershey**, Ph.D.
- Organization and management of information systems, support systems productivity, process reengineering, IS program content and management.

**Prashant C. Palvia**, Ph.D.
- Global information technology management, electronic commerce, media richness theory, security and privacy, technology diffusion.

**James K. Weeks**, Ph.D.
- Strategic management, operations management, manufacturing strategy, materials and logistics planning and controls.

**Associate Professors**

**John L. Eatman**, Ph.D.
- Information systems management and planning, systems analysis and design, telecommunications management (Bryan School IT Director).

**Lakshmi S. Iyer**, Ph.D.
- Electronic commerce, knowledge management, decision support systems, AI and Expert Systems, electronic privacy and security.

**Ruth King**, Ph.D.
- Strategic use of IT, MIS professional development, computer mediated group work and group decision making.

**Hamid R. Nemati**, Ph.D.
- Data flow management, strategic use of information technologies, decision support, knowledge management, information privacy (Director of MSITM program).

**Al Farooq N. Salam**, Ph.D.
- Electronic commerce, enterprise resource planning, telecommunications, systems analysis and design, e-business models and implementation, emerging technologies, semantic e-business, ontology and e-business processes.

**Rahul Singh**, Ph.D.
- Intelligent systems, semantic e-business, systems development, data communications and computer networks, electronic commerce, security and privacy.

**Larry R. Taube**, Ph.D.
- Material and logistics planning and control, just-in-time implementations, total quality management, supply chain management.

**Assistant Professor**

**Thomas Van Dyke**, Ph.D.
- Information systems service quality, user information satisfaction, software developer productivity, privacy.
The Department of Information Systems and Operations Management offers degree programs leading to the Master of Science and the Doctor of Philosophy. The department also offers Post-Baccalaureate Certificates in information assurance, security, and privacy; information technology; and supply chain and logistics management as well as a Post-Master’s Certificate in information technology.

The Master of Science in Information Technology and Management (MSITM) program focuses on both information technology and the management of information technology resources. The program combines technological and managerial components to train graduates who can deal effectively with the variety and complexity of issues involved in applying information technology successfully within organizations. The MSITM program seeks to extend both the knowledge of students and their ability to effectively utilize their knowledge in a collaborative work environment.

Our curriculum is designed to be flexible and dynamic and provides state-of-the-art exposure to both information technology and management practices. The program places an emphasis on problem solving activities, multi-functional group decision making, and communication skills. In addition to technology and business studies, all students will be required to demonstrate acceptable competence in communication and presentation skills, interpersonal skills, teamwork skills, and problem-solving capabilities.

The Ph.D. in information systems (IS) is an innovative research degree program designed to prepare professionals and research scholars of the highest quality for careers in academic IS units and other organizations. The program is innovative in that it enhances the traditional Ph.D. program with four distinctive elements: commitment to practical relevance, emphasis on producing quality teachers, research apprenticeship, and interdisciplinary research. Additionally, an emphasis on global information technology is available to interested students. The program is primarily for full-time students and is available to students with master’s degrees in appropriate areas such as business, computer science, public administration, engineering, or the social sciences. Students without a master’s degree in business will need to take additional courses to establish an understanding of business processes.

Admission Requirements
Admission to graduate programs in Information Systems and Operations Management is required for enrollment in course work at any level of the program. In addition to the application materials required by The Graduate School, applicants must submit a personal statement and evidence of relevant work experience (resume). Applicants should consult the MSITM or Ph.D. Program Director for specific admission requirements. Applicants to the Post-Master’s Certificate program are required to have a M.B.A. or related master’s degree.

Requirements for the Post-Baccalaureate Certificate in Information Assurance, Security, and Privacy

The Department of Information Systems and Operations Management offers a Post-Baccalaureate Certificate in information assurance, security, and privacy. This certificate is intended for professionals who already have a bachelor’s degree in any field from an accredited institution and are interested in gaining state-of-the-art knowledge and skills in the application of information security and privacy to solve organizational problems. The program offers an innovative and relevant educational opportunity that reflects the changing information security and privacy environment of the 21st century by incorporating the latest thinking and best practices in the field with a solid foundation in theory and proven principles. Additionally, the program provides knowledge and skills on all aspects of information security and privacy technologies, tools, methodologies, and management.

Course Requirements
The certificate program will consist of at least 12 hours. Students must take the following courses (6 hours):

- ISM 608 Networks and Telecommunications (1.5)
- ISM 625 Information Assurance and Systems Security (1.5)
- ISM 626 Information Technology Security (1.5)
- ISM 627 Data Privacy Management (1.5)

Additional hours are selected from the following courses (minimum 6 hours):

- ISM 601 Business Processes and Technology (1.5)
- ISM 602 Business Data Systems (1.5)
- ISM 609 Distributed Systems and Architecture (1.5)
- ISM 610 Enterprise Information Systems and Data Warehousing (1.5)
- ISM 611 Data Mining (1.5)
- ISM 623 e-Business Strategy (1.5)
- ISM 654 Project Management (1.5)
The Department of Information Systems and Operations Management offers a Post-Baccalaureate Certificate in information technology. This certificate is intended for professionals who already have a bachelor’s degree in any field from an accredited institution and are interested in gaining state-of-the-art knowledge and skills in the application of information technology to solve organizational problems.

Course Requirements
The certificate program will consist of 12 hours but not to exceed 15 hours. Students must take the following courses:

- ISM 601 Business Processes and Technology (1.5)
- ISM 602 Business Data Systems (1.5)
- ISM 603 Web Design and Development (1.5)
- ISM 604 Business Applications Programming I (1.5)

Additional hours will come from the following courses (minimum 6 hours):

- ISM 605 Business Applications Programming II (1.5)
- ISM 608 Networks and Telecommunications (1.5)
- ISM 610 Enterprise Information Systems and Data Warehousing (1.5)
- ISM 623 e-Business Strategy (1.5)
- ISM 625 Information Assurance and Systems Security (1.5)
- ISM 631 Management of Information Technology Services (1.5)
- ISM 632 Managing Vendor Relationships (1.5)
- ISM 651 Management of Technology and Innovation (1.5)
- ISM 654 Project Management (1.5)
- ISM 655 IT Consulting in a Business Environment (1.5)
- ISM 657 Knowledge Management (1.5)

Students should demonstrate sufficient proficiency in basic PC skills. In the event such proficiency cannot be demonstrated, students will be required to take ISM 600 Desktop Data Management Tools (1.5) during their first semester.
The MSITM program is open to students with diverse undergraduate degrees. Depending on the business and information technology background the student possesses, the length of the program will vary. A student can complete the program in two to four years, depending on the individual student’s background and course load.

The Department of Information Systems and Operations Management offers a graduate program of study leading to a 43.5 hour Master of Science degree. This includes 7.5 hours of required Basic Business and IT Knowledge graduate level courses (which may be waived), 13.5 hours of foundation graduate level courses (of which up to 4.5 credit hours can be waived), 12 hours of core graduate level courses, 1.5 hours of independent project in IT, and 9 hours of approved graduate electives. Depending on academic background and prior course work, a person with an adequate background in both business and IT could complete the program in a minimum 31.5 hours; a person with an adequate background in business but not IT would need a minimum 40.5 hours; a person with an adequate background in IT but not business would require a minimum 34.5 hours; and a person with NO background in business or IT would require 43.5 hours. Students must satisfy foundation level course requirements and demonstrate specific computing competencies prior to enrolling in any of the required core level courses. The degree requirements consist of the following:

### Basic Business and IT Knowledge (7.5 hours)
Basic Business and IT Knowledge level courses may be waived by students who have completed equivalent academic course work and who can meet specific learning objectives. Applicants should consult with the MSITM Program Director for course waiver information.

- MBA 600 Business Statistics (1.5)
- MBA 602 Business Applications Programming I (1.5)
- ISM 600 Networks and Telecommunications (1.5)
- ISM 601 Enterprise Information Systems and Data Warehousing (1.5)
- ISM 603 Business Processes and Technology (1.5)
- ISM 607 Web Design and Development (1.5)

### Foundation Level (13.5 hours)
Up to 4.5 semester hours of foundation level courses may be waived by students who have completed equivalent academic course work and who can meet specific learning objectives. Applicants should consult the MSITM Program Director for course waiver information.

- ISM 602 Business Data Systems (1.5)
- ISM 604 Business Applications Programming I (1.5)
- ISM 608 Networks and Telecommunications (1.5)
- ISM 610 Enterprise Information Systems and Data Warehousing (1.5)
- ISM 620 Systems Analysis (1.5)
- ISM 623 e-Business Strategy (1.5)
- ISM 625 Information Assurance and Systems Security (1.5)
- ISM 654 Project Management (1.5)
- ISM 660 XML and Related Technologies (1.5)

### Core Level (12 hours)

- ISM 605 Business Applications Programming II (1.5)
- ISM 609 Distributed Systems and Architecture (1.5)
- ISM 611 Data Mining (1.5)
- ISM 621 Systems Design and Software Engineering (1.5)
- ISM 622 Advanced Relational Database Design and Implementation (1.5)
- ISM 624 e-Commerce Application Development (1.5)
- ISM 626 Information Technology Security (1.5)
- ISM 641 Business Planning and Information Technology (1.5)

### Capstone Experience (1.5 hours)
ISM 699 Project in Information Technology (1.5)

Students must demonstrate a broad knowledge of the material covered in the MSITM curriculum by undertaking an approved project that might range from a major research paper (mini-thesis) to a technology development project. A formal contract is established between the MSITM program committee and the student to clearly define the scope and other requirements of the project. This course is taken by students who have completed at least two-thirds of their minimum program hours.

### Electives (minimum 9 hours)
With the approval of the MSITM Program Director, a student will select 9 hours of other graduate level courses.
### PMC - Requirements for the Post-Master’s Certificate in Information Technology

The Department of Information Systems and Operations Management offers a Post-Master’s Certificate in Information Technology. The purpose of this certificate is to provide professionals who already have an M.B.A. degree (or a master’s degree in a related field) with state-of-the-art knowledge and skills in the application of information technology to the solution of organizational problems.

#### Course Requirements

The certificate program will consist of at least 12 hours. Students must take the following courses:

- ISM 601 Business Processes and Technology (1.5)
- ISM 602 Business Data Systems (1.5)
- ISM 603 Web Design and Development (1.5)
- ISM 604 Business Applications Programming I (1.5)
- ISM 605 Business Applications Programming II (1.5)
- ISM 608 Networks and Telecommunications (1.5)
- ISM 610 Distributed Systems and Architecture (1.5)
- ISM 610 Enterprise Information Systems and Data Warehousing (1.5)
- ISM 620 Systems Analysis (1.5)
- ISM 621 Systems Design and Software Engineering (1.5)
- ISM 622 Advanced Relational Database Design and Implementation (1.5)
- ISM 641 Business Planning and Information Technology (1.5)
- MBA 601 Business Planning and Information Technology (1.5)
- MBA 602 Presentation and Interpretation of Financial Statements (1.5)
- MBA 603 Economic Analysis (1.5)
- MBA 604 Organizational Behavior (1.5)
- MBA 605 Financial Management (1.5)
- MBA 606 Marketing Management (1.5)
- MBA 607 The Operations Function (1.5)
- MBA 617 Management Science (1.5)

Students with equivalent course work may waive any of the required courses and substitute other courses approved by the MSITM Program Director.

Additional hours to complete the program are chosen from the following courses (or other 600-level ISM courses approved by the MSITM Program Director):

- ISM 601 Business Processes and Technology (1.5)
- ISM 605 Business Applications Programming II (1.5)
- ISM 609 Distributed Systems and Architecture (1.5)
- ISM 610 Enterprise Information Systems and Data Warehousing (1.5)
- ISM 620 Systems Analysis (1.5)
- ISM 623 e-Business Strategy (1.5)
- ISM 625 Information Assurance and Systems Security (1.5)
- ISM 631 Management of Information Technology Services (1.5)
- ISM 632 Managing Vendor Relationships (1.5)
- ISM 641 Business Planning and Information Technology (1.5)
- ISM 654 Project Management (1.5)
- ISM 655 IT Consulting in a Business Environment (1.5)
- ISM 657 Knowledge Management (1.5)
- ISM 660 XML and Related Technologies (1.5)

Students should demonstrate sufficient proficiency in basic PC skills. In the event such proficiency cannot be demonstrated, students will be required to take ISM 600 Desktop Data Management Tools (1.5) during their first semester.

### PhD - Requirements for the Doctor of Philosophy in Information Systems

The Department of Information Systems and Operations Management offers a graduate program of study leading to a 74-84 hour Doctor of Philosophy degree in information systems.

#### Leveling Courses/Prerequisites

To be taken as needed to remedy deficiencies, in consultation with the Ph.D. Program Director.

- ISM 601 Business Processes and Technology (1.5)
- ISM 602 Business Data Systems (1.5)
- ISM 603 Web Design and Development (1.5)
- ISM 604 Business Applications Programming I (1.5)
- ISM 605 Business Applications Programming II (1.5)
- ISM 608 Networks and Telecommunications (1.5)
- ISM 609 Distributed Systems and Architecture (1.5)
- ISM 610 Enterprise Information Systems and Data Warehousing (1.5)
- ISM 620 Systems Analysis (1.5)
- ISM 621 Systems Design and Software Engineering (1.5)
- ISM 622 Advanced Relational Database Design and Implementation (1.5)
- ISM 641 Business Planning and Information Technology (1.5)
- MBA 602 Presentation and Interpretation of Financial Statements (1.5)
- MBA 603 Economic Analysis (1.5)
- MBA 604 Organizational Behavior (1.5)
- MBA 605 Financial Management (1.5)
- MBA 606 Marketing Management (1.5)
- MBA 607 The Operations Function (1.5)
- MBA 617 Management Science (1.5)

#### Major (21 hours)

- ISM 733 Seminar in IS Planning, Management and Global Issues (3)
- ISM 754 Seminar in Inter-Organizational Systems (3)
- ISM 755 Seminar on Current and Emerging Information Technologies (3)
- ISM 756 Seminar in Information Systems Behavioral Topics (3)
- ISM 785 Theories of Information Systems (3)
- ISM 786 Introduction to Research and Frameworks in Information Systems (3)
- ISM 788 Seminar in IS Research Methods (3)

#### Supporting Area (9 hours)

Courses chosen in consultation with the Ph.D. Program Director.

#### Research Methodology (15 hours)

Courses chosen in consultation with the Ph.D. Program Director. Possible courses include:

- STA 661 Advanced Statistics in the Behavioral and Biological Sciences I (3)
- STA 662 Advanced Statistics in the Behavioral and Biological Sciences II (3)
- STA 671 Multivariate Analysis (3)
- ERM 731 Structural Equation Modeling in Education (3)
- ELC 665 Approaches to Qualitative Inquiry (3)
Teaching Education (4-7 hours)
Courses chosen in consultation with the Ph.D. Program Director.

Organizational Research Internship
Required of students lacking relevant work experience, as determined by the Ph.D. Program Director.

Research Seminars (7-8 hours)
A minimum of 7 hours taken throughout the program.

Research Apprenticeship
Two papers must be submitted for publication in conference proceedings or journals prior to taking written comprehensive examinations.

Comprehensive Written Examination
Upon completion of the required course work and research apprenticeship, the student will be eligible to sit for written comprehensive examinations. The major examination will have two parts: the first part will be composed of IS content from various courses and existing literature; the second part will be designed to evaluate the research readiness of the student. Typically, the major examination is given in the fall semester. If the student fails at the first attempt, a second attempt may be allowed by the Ph.D. Program Director.

Oral Examination
Following the successful completion of the written comprehensive examination, the student will be given an oral examination by the doctoral Advisory/Dissertation Committee. Upon successful completion of the oral examination, the student may apply for doctoral candidacy.

Proposal Defense
Following the oral examination, the student will prepare a dissertation proposal that will be defended before the doctoral Advisory/Dissertation Committee. The defense may be attended by others outside the committee.

Dissertation (18-24 hours)
A minimum of 18 hours credit will be devoted to research that culminates in the preparation of the required doctoral dissertation.

Requirements for the Doctoral Minor in Information Systems

The Department of Information Systems and Operations Management offers a graduate program of study leading to a doctoral minor in information systems. The requirement for the minor is 12 semester hours taken from the following course options.

ISM 602  Business Data Systems (1.5)
ISM 608  Networks and Telecommunications (1.5)
ISM 609  Distributed Systems and Architecture (1.5)
ISM 611  Data Mining (1.5)
ISM 620  Systems Analysis (1.5)
ISM 622  Advanced Relational Database Design and Implementation (1.5)
ISM 623  e-Business Strategy (1.5)

Any of the following 700-level courses may be taken with the instructor’s permission.

ISM 753  Seminar in IS Planning, Management and Global Issues (3)
ISM 754  Seminar in Inter-Organizational Systems (3)
ISM 755  Seminar on Current and Emerging Information Technologies (3)
ISM 756  Seminar in Information Systems Behavioral Topics (3)
ISM 785  Theories of Information Systems (3)
ISM 786  Introduction to Research and Frameworks in Information Systems (3)
ISM 788  Seminar in IS Research Methods (3)
## Information Systems and Operations Management Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>512</td>
<td>Open Source Software and Applications (3:3)</td>
<td>Pr. 210 and 240 or equivalents, or permission of instructor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Student of open source systems (OSS), the concept and state of the art OSS applications; experience with the installation, administration, development, and deployment of OSS in organizations.</td>
</tr>
<tr>
<td>515</td>
<td>Object-Oriented Programming (3:3)</td>
<td>Pr. 310 or equivalent or permission of instructor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Foundation in object-oriented (OO) concepts and programming for students who wish to learn how to develop applications in a contemporary OO programming language.</td>
</tr>
<tr>
<td>589</td>
<td>Experimental Course</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>This number reserved for experimental courses. Refer to the Course Schedule for current offerings.</td>
</tr>
<tr>
<td>600</td>
<td>Desktop Data Management Tools (1.5:1.5)</td>
<td>Pr. admission to a Bryan School graduate program</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Computer hardware, software and micro processing applications including the internet, word processing, spreadsheets, databases, and web page design. Emphasis on effective collaboration and file sharing techniques.</td>
</tr>
<tr>
<td>601</td>
<td>Business Processes and Technology (1.5:1.5)</td>
<td>Pr. admission to an approved graduate program or permission of the MSITM Program Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Computer systems and networks, telecommunications, and business applications using all forms of information technology; survey of the managerial challenges presented by the use of information technology. (Same as MBA 618)</td>
</tr>
<tr>
<td>602</td>
<td>Business Data Systems (1.5:1.5)</td>
<td>Pr. admission to an approved graduate program or permission of the MSITM Program Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fundamental concepts of database management systems, including database design, implementation, and the use of the SQL query language.</td>
</tr>
<tr>
<td>603</td>
<td>Web Design and Development (1.5:1.5)</td>
<td>Pr. admission to an approved graduate program or permission of the MSITM Program Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Study of the best practices in site design and use of leading-edge design and development tools and techniques to design effective web pages.</td>
</tr>
<tr>
<td>604</td>
<td>Business Applications Programming I (1.5:1.5)</td>
<td>Pr. admission to an approved graduate program or permission of the MSITM Program Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Work group application design and the use of contemporary programming language to construct work group business applications.</td>
</tr>
<tr>
<td>605</td>
<td>Business Applications Programming II (1.5:1.5)</td>
<td>Pr. 604 and admission to an approved graduate program or permission of the MSITM Program Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Study of best practices in work group application design and the use of a contemporary programming language to construct work group business applications.</td>
</tr>
<tr>
<td>606</td>
<td>Open Source Operating Systems (1.5:1.5)</td>
<td>Pr. permission of MSITM Program Director for VISIONS students</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Study of the open source software concept and operating systems; experience with the installation, administration, use, and support of the Linux operating system.</td>
</tr>
<tr>
<td>607</td>
<td>Open Source Applications Software (1.5:1.5)</td>
<td>Pr. 606 or permission of MSITM Program Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Open source application software; experience with the installation and use of open source web server, database, programming, office suite, and other open source applications.</td>
</tr>
<tr>
<td>608</td>
<td>Networks and Telecommunications (1.5:1.5)</td>
<td>Pr. admission to an approved graduate program or permission of MSITM Program Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Managerial and business issues related to the use and application of networks and telecommunications as part of the Information Technology infrastructure in modern business enterprises.</td>
</tr>
<tr>
<td>609</td>
<td>Distributed Systems and Architecture (1.5:1.5)</td>
<td>Pr. 608 and admission to an approved graduate program or permission of MSITM Program Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Concepts related to distributed computing and architecture. Managerial and business issues related to the use and application of distributed computing in modern business enterprises.</td>
</tr>
<tr>
<td>610</td>
<td>Enterprise Information Systems and Data Warehousing (1.5:1.5)</td>
<td>Pr. 602 and admission to an approved graduate program or permission of the MSITM Program Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Enterprise Information Systems provide an infrastructure to extract, cleanse, and store vast amounts of data. Introduction to data warehousing as the core technology and its basic concepts and architecture.</td>
</tr>
<tr>
<td>611</td>
<td>Data Mining (1.5:1.5)</td>
<td>Pr. 610 and admission to MSITM degree program or permission of MSITM Program Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Data mining is an interactive process of analyzing and exploring enterprise data to find valuable insights that can be exploited for competitive advantage. Introduction to data mining tools and technologies.</td>
</tr>
<tr>
<td>612</td>
<td>Information and Communications Architectures (3:3)</td>
<td>信息系统架构, 电信通信技术, 性能评估方法; 信息架构规划方法; 业务规划和IT规划的整合。</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Information system architectures, telecommunications technologies, and performance evaluation methods; examination of information architecture planning methods; integration of business planning and IT planning.</td>
</tr>
<tr>
<td>613</td>
<td>Directed Studies (1-3)</td>
<td>Pr. permission of MSITM Program Director and instructor who will supervise study</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Individual study problems in the field. Regular conferences with instructor required.</td>
</tr>
<tr>
<td>614</td>
<td>Object-Oriented Programming I (1.5:1.5)</td>
<td>Pr. 605 and admission to a Bryan School graduate program or permission of MSITM Program Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Object-oriented design and the use of an object-oriented programming language to develop object-oriented programs.</td>
</tr>
<tr>
<td>615</td>
<td>Object-Oriented Programming II (1.5:1.5)</td>
<td>Pr. 614 or equivalent and admission to a Bryan School graduate program or permission of MSITM Program Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Enhanced study of object-oriented systems design and the use of an object-oriented programming environment to create business applications.</td>
</tr>
</tbody>
</table>
616 Object-Oriented Programming (3:3)  
Pr. 604, 605, 611, 612 or permission of MSITM Program Director  
Provides a foundation in object-oriented concepts and programming course for students who wish to learn how to develop applications in Java.

620 Systems Analysis (1.5:1.5)  
Pr. 601 and admission to an approved graduate program or permission of MSITM Program Director  
Role of systems analysis and the many structured methodologies for its application. Incorporates a balanced consideration of traditional structured analysis and object oriented analysis.

621 Systems Design and Software Engineering (1.5:1.5)  
Pr. 620 and admission to MSITM degree program or permission of MSITM Program Director  
Mechanism for creating conceptual blueprints of systems, their processes using object-oriented design principles, and principles of software engineering, testing, and software quality.

622 Advanced Relational Database Design and Implementation (1.5:1.5)  
Pr. 602 and admission to MSITM degree program or permission of MSITM Program Director  
Design and development of relational and object-related databases, physical database architecture, administration of database security, and management of operational databases.

623 e-Business Strategy (1.5:1.5)  
Pr. 601 or MBA 618, and admission to an approved graduate program or permission of MSITM Program Director  
Skills, business concepts, strategic opportunities, and social issues that surround the emergence of electronic commerce (EC) or e-Business.

624 e-Commerce Application Development (1.5:1.5)  
Pr. 603, 605, 623, and admission to MSITM degree program, or permission of MSITM Program Director  
Application software for business-to-business (B2B) and business-to-consumer (B2C) e-Commerce. Create dynamic Web applications using server-side programming technologies.

625 Information Assurance and Systems Security (1.5:1.5)  
Pr. 601 or MBA 618, and admission to an approved graduate program or permission of MSITM Program Director  
Technical, managerial, and organizational issues in systems security, including systems security models, analysis of business process and technology for systems security and information assurance.

626 Information Technology Security (1.5:1.5)  
Pr. 625 and admission to MSITM degree program or permission of MSITM Program Director  
Technical mechanisms to ensure security in enterprise information systems. Includes technical, managerial, and strategic aspects of security in e-Commerce and e-Business.

627 Data Privacy Management (1.5:1.5)  
Pr. permission of MSITM Program Director for VISIONS students  
Concepts, methods, laws, and technologies for protecting privacy of personally identifiable data while allowing for their collection, sharing, and use for many worthy purposes.

631 Management of Information Technology Services (1.5:1.5)  
Pr. permission of MSITM Program Director for VISIONS students  
Study of management challenges and methods for ensuring quality and providing information technology services including training, system maintenance, user support, system evolution, and communications.

632 Managing Vendor Relationships (1.5:1.5)  
Pr. 611, 612, or permission of MSITM Program Director  
Computer technology and service-related contracts, including legal issues, product/service liability, and negotiation and management of performance standards and assessment.

633 Enterprise Resource Planning Systems (1.5:1.5)  
Pr. permission of MSITM Program Director  
Purpose, design, and configuration of ERP systems; experience in the use of an ERP system.

641 Business Planning and Information Technology (1.5:1.5)  
Pr. 601, 602, 610, 620, admission to MSITM degree program, and completion of at least 15 credit hours toward MSITM degree, or permission of MSITM Program Director  
Planning issues of information technology and its integration into the business strategy; review of frameworks and methodologies for evaluation of information technology.

650 Total Quality Management (1.5:1.5)  
Coreq. 620  
Philosophy and tools that comprise Total Quality Management (TQM). How TQM can be implemented in manufacturing and service firms. Integrates philosophy, tools, and implementation issues through cases/projects. (Same as MBA 650)

651 Management of Technology and Innovation (1.5:1.5)  
Technology and innovation in the competitive strategy of organizations; sources of innovations, the different dimensions of technological innovations, and the adoption and justification of innovations. (Same as MBA 651)

652 Implementation of Total Quality Management (1.5:1.5)  
Pr. 650  
Implementation of quality management in organizations. Organization-based project to study the strategic and operational details of building quality for enhancing competitiveness. (Same as MBA 652)

653 Service Operations Management (1.5:1.5)  
Pr. 607  
Managerial processes underlying operations management in service-providing organizations; operations strategy, design and delivery, and operations planning and control in services. (Same as MBA 653)

654 Project Management (1.5:1.5)  
Pr. MBA 607 or admission to an approved graduate program or permission of MSITM program director  
Modern methods for defining, planning and managing large projects. Computer software and network modeling are used to support the efficient scheduling of interdependent activities. (Same as MBA 654)
655 IT Consulting in a Business Environment (1.5:1.5)
Pr. admission to a Bryan School graduate program or permission of instructor
Provides a solid understanding of the consulting services industry, beginning with the sale of a consulting service engagement and ending with the management of a consulting project.

656 Understanding Groupware: Technology for Teamwork (1.5:1.5)
Impact of collaborative technology on group work; computer-based teamwork, group support systems, distributed group work, justifying and implementing groupware, and facilitation of electronic meetings.

657 Knowledge Management (1.5:1.5)
Pr. admission to a Bryan School graduate program or permission of MSITM Program Director
Examines current theories and foundations of knowledge management, knowledge assets and their organizational, analytical, managerial tools and techniques for knowledge acquisition, generation, assessment, evaluation, and dissemination are studied. (Same as MBA 655)

658 Web Services Application Development (1.5:1.5)
Pr. 616
Application development using the Web Services Architecture and related emerging technologies including SOAP, WSDL, UDDI, ebXML and web service orchestration and management issues.

659 Seminar in Management Information Systems (3:3)
The relationships of information systems planning to overall business goals, policies, management and industry conditions with an overview of strategies and techniques of structured analysis and design.

660 XML Applications (1.5:1.5)
Pr. 602, 605, and admission to an approved graduate program or permission of MSITM Program Director

661 Global IT Strategy and Management (1.5:1.5)
Pr. 612, 621 or permission of MSITM Program Director
Strategic and management issues of global IT. Topics include: information technology’s impact on globalization of businesses, international IT environment, global IT strategy and management, and global electronic commerce.

662 Global IT Operations and Implementation (1.5:1.5)
Pr. 661 or permission of MSITM Program Director
Operational and implementation issues of global IT. Topics include: global system development and implementation, global software outsourcing, and global IT infrastructure and operations.

695 Special Topics in IT (1.5:1.5)
Pr. admission to MSITM degree program and permission of MSITM Program Director
Specific course title identified each time the course is offered. Selected topics will address contemporary issues in information technology and its management. Course may be repeated for credit when topic varies.

696 Organizational Internship (1.5-3:1.5)
Pr. permission of MSITM Program Director
Academic and required work components allow students to gain organization experience. Course supervised by a designated graduate faculty member and an organization manager. May be repeated for credit.

699 Project in Information Technology (1.5:1.5)
Pr. admission to MSITM degree program and completion of at least two-thirds of the minimum MSITM program hours
Capstone experience in which the student demonstrates a broad knowledge of the material covered in the MSITM curricula by undertaking a project approved in consultation with the MSITM Program Director. (Graded on S-U basis)

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

751 Seminar in Decision Support Systems (2:2)
Pr. permission of Ph.D. Director
Research frameworks and methodologies in developing systems that support decision making; current and merging research issues in Decision Support Systems, data warehousing, and data mining.

752 Seminar in Information Networks and Architecture (2:2)
Pr. permission of Ph.D. Director
Concepts involved in data communication and advanced computer networks and architectures. Exposure to research issues and new developments.

753 Seminar in IS Planning, Management, and Global Issues (3:3)
Pr. 601 or permission of Ph.D. Director
Research issues in IS planning management, and global information technology management. Topics include strategy formulation, tactics, process integration, business alignment, global environment, outsourcing, transborder dataflows, and cultural issues.

754 Seminar in Inter-organizational Systems (3:3)
Pr. 601 or permission of Ph.D. Director
Current research issues on organizational processes and inter-organizational linkages that are transformed by the emergence of general information technology and Internet based applications.

755 Seminar in Current and Emerging Information Technologies (3:3)
Pr. 601 or permission of Ph.D. Director
Research related to current and emerging information technologies in organizations. Topics include communications and network technologies, service-oriented architecture, workflow systems, semantic web technologies and virtual world environments.

756 Seminar in Information Systems Behavioral Topics (3:3)
Pr. permission of Ph.D. Director
Issues in design, development, use and impact of information systems from a behavioral perspective. Topics include ethical, privacy, societal, decision support, user interface, system usability and training aspects.
Seminar in Systems Development (2:2)
Pr. permission of Ph.D. Director
Methodologies and processes used for planning, design, and implementation of information systems. Topics include project management, development life-cycles, systems architectures, object-oriented design, development, and evaluation metrics.

Seminar in Database Design and Administration (2:2)
Pr. permission of Ph.D. Director
Research and advanced issues in database design and database administration. Topics include design and development of relational databases, E/R diagramming, normalization, DBMS architecture, and database administration.

Seminar in Electronic Commerce (2:2)
Pr. 752, 762, or permission of Ph.D. Director
Current research issues on the expanding field of electronic commerce (EC). Topics include EC strategy, business models, e-marketing, internet advertising, CRM, trust, privacy, and security.

Seminar in Information Systems Security (2:2)
Pr. permission of Ph.D. Director
Research on the technical, managerial, and organizational issues in systems security and information assurance, including systems security models, strategic aspects, policies, process, technology, and risk assessment.

Seminar in Management of Information Technology Services (2:2)
Pr. permission of Ph.D. Director
Challenges, principles, and research related to IT service management. Topics include service center management, service metrics, service quality, and leadership.

Seminar in Supply Chain Management (2:2)
Pr. permission of Ph.D. Director
Research on supply chain management in light of global competition, gaining competitive advantage, quality practices, and adoption of new technologies.

Seminar in Global Information Technology Management (2:2)
Pr. 761 or permission of Ph.D. Director
Current and research issues in global information technology management. Topics include global IT environment, planning and management, global architectures, application development, transborder data flows, and cross-cultural issues.

Seminar in Workflow and Collaboration Systems (2:2)
Pr. 761 or permission of Ph.D. Director
Research on workflow technologies, workflow systems, and collaboration technologies. Topics include intra- and inter-organizational workflow and coordination, virtual collaboration, and design, composition, and implementation of intelligent workflow systems.

Seminar in Emerging Information Technologies (2:2)
Pr. permission of Ph.D. Director
Advanced and emerging topics in information technology research. Focuses on the impact of information technologies on IS practices and application research. May be repeated for credit.

Seminar in Business Planning and Information Technology (2:2)
Pr. 752, 761, and 762; or permission of Ph.D. Director
Research on strategic information systems and tactics for planning to support business initiatives and processes. Topics include organization and management of IT, evaluative frameworks, process integration, and virtual planning.

Practicum in IS Teaching (1-3)
Pr. permission of Ph.D. Director
Supervised teaching of an information systems (IS) course. Faculty mentor will guide in planning and delivery. Course may be repeated for credit. (Graded on S-U basis)

Organizational Research Internship (3-6)
Pr. permission of Ph.D. Director
Organizational work and research in information systems in actual organization. Expose student to practical and relevant research problems. Supervised by designated faculty member and organization manager. May be repeated for credit.

Theories of Information Systems (3:3)
Pr. permission of Ph.D. Director
Examines underlying theories in information systems research. Theories from organizational behavior, strategic management, economics, other disciplines inside and outside business, and IS will be discussed.

Introduction to Research and Frameworks in Information Systems (3:3)
Pr. permission of Ph.D. Director
Provides an in-depth understanding of the research process. Topics include: IS frameworks and research methodologies, models, development, and evaluation.

Research Development in Information Systems (3:3)
Pr. 786 or permission of Ph.D. Director
Continues the research apprenticeship experience of ISM 786. Research skills and knowledge are deepened while conducting a semester-long research project that culminates in a substantial research paper worthy of publication.

Seminar in IS Research Methods (3:3)
Pr. STA 661, STA 662, and permission of Ph.D. Director
Research process and various design elements for quantitative and qualitative research in information systems.

Research Seminar in Information Systems (1-3)
Pr. 786 or permission of Ph.D. Director
Explores current and emerging research topics in information systems. May be repeated for credit.

Independent Doctoral Research (1-6)
Pr. permission of Ph.D. Director
Individual work on research issues related to the student’s primary area(s) of specialization. Work may consist of original research and/or critical examination and integration of existing literature.

Dissertation (1-24)
Pr. admission to candidacy

Dissertation Extension (1-3)

Research Extension (1-3)
Supply Chain Management Courses

601 Supply Chain Management Concepts and Principles (1.5:1.5)
Survey of supply chain management. Introduces sourcing, making and delivery functions of supply chain management. Topics: supplier selection, collaborative planning, forecasting and replenishment, inventory and distribution management.

602 Supply Chain Cost and Design Issues (1.5:1.5)
Overview of strategic cost management in the supply chain; introduces tactics required to understand and manage supply chain costs; total cost of ownership.

606 Logistics in the Supply Chain (1.5:1.5)
Pr. 601 or MBA 607 or equivalent
Microanalysis of logistics and transportation services including customer service, third party logistics providers, and operation of transportation services. Topics include order processing, transportation mode and carrier selection, and transportation costing.

607 Distribution Center Operations and Management (1.5:1.5)
Pr. 601 or MBA 607 or equivalent
Management of warehouses and distribution centers. Topics include role of distribution centers in supply chains, information technology, materials handling, private versus public warehousing, cost controls, and performance measurements.

608 Contracts and Negotiations (1.5:1.5)
Pr. 601 or MBA 607 or equivalent
Selection, development and execution of appropriate buyer-supplier arrangements. Emphasis on negotiation, alliance development, and contracts in conjunction with ethics and cross-cultural issues.

612 E-Commerce for Managing Supply Chains (1.5:1.5)
Pr. 601 or MBA 607 or equivalent
Impact of E-commerce on supply chains, including buyer/supplier interfaces, purchasing and business process improvements, cost/benefit analysis, EDI and ERP. Case studies of international business, technical and legal issues.

620 Purchasing and Procurement (1.5:1.5)
Pr. 601
Purchasing and procurement activities in the supply chain; strategic sourcing, strategic alliances between buyers and suppliers, use of information technology in procurement.

630 Global Supply Operations (1.5:1.5)
Pr. 601 or MBA 607 or equivalent
Resources and information to create and deliver products globally. Emphasis on inter-firm systems, industry supply chains, transportation, global sourcing, and customs clearance issues.

640 Special Topics in Supply Chain Management (1.5:1.5)
Pr. 601
Selected topics will address contemporary supply chain management issues and problems. Specific course title identified each time the course is offered. May be repeated for credit when topic varies.
The Master of Science program in interior architecture is a post-professional degree program intended to provide opportunities for students to achieve a high level of excellence in the design of architectural interiors, and to develop specialization in selected areas of individual interest. The design studio is the nucleus of the program and is taken concurrently with courses in design and research methods, courses that expand the base of knowledge relating to both user needs and environments that serve those needs, and seminars devoted to pertinent issues of environmental design. Special attention may be directed toward problems of adaptive use of existing structures, the preservation and restoration of buildings and neighborhoods, museum studies, exhibit design, design for special populations, interdisciplinary study, ecological design.

The department offers concentrations and Post-Baccalaureate Certificates in historic preservation and museum studies. A concentration in interior product design is also offered.

Admission Requirements

In addition to the application materials required by The Graduate School, applicants must submit a statement of personal interest and participate in an interview with portfolio. Enrollment in the program is limited and priority is given to applications received before March 1.

An undergraduate professional degree in interior architecture is preferred. Candidates who do not hold a professional undergraduate degree in interior architecture but are graduates of a related environmental design program, such as architecture, industrial design, etc., may be required to complete specific undergraduate prerequisite courses in interior architecture. Such decisions will be based upon an individual evaluation of credentials, portfolio, and design experience.
The Department of Interior Architecture offers a graduate program of study leading to a 36-hour Master of Science degree.

**Studio Course**
At least one studio course is required. Typically one or two are taken for 6-12 hours.
- IAR 501 Advanced Interior Architecture I (6)
- IAR 502 Advanced Interior Architecture II (6)
- IAR 602 Advanced Interior Design III (6)

**Research Techniques** (9 hours)
With prior approval by the Director of Graduate Study or the student’s committee, a student will select 6 hours from the following:
- IAR 631 Environmental Design Research (3)
- IAR 645 Seminar in Interior Architecture (3) or approved alternative

A student will take an additional 3 hours of research methods courses approved by the student’s committee, such as statistics, advanced computer science, or other research methods course appropriate to the student’s concentration or area of specialization.

**Electives** (12 hours)
With prior approval by the Director of Graduate Study or the student’s committee, a student will select 12 hours in the concentration or area of specialization.

**Thesis** (6 hours) (Capstone Experience)
The student will complete a 6-hour thesis and will participate in a public discussion of the thesis with other students and faculty members. The student’s graduate committee will be responsible for reviewing and approving successful completion of the thesis. Credit may be divided over two or more semesters.
- IAR 699 Thesis (6)
HISTORIC PRESERVATION OR MUSEUM STUDIES CONCENTRATION

The Department of Interior Architecture offers a graduate program of study leading to a 36 hour Master of Science degree with a concentration in either historic preservation or museum studies.

Required Core Courses (15 hours)

**Historic Preservation Concentration**

- IAR 543 Historic Preservation: Principles and Practice (3)
- IAR 624 History of American Landscapes and Architecture (3)
- IAR 625 Preservation Planning and Law (3)
- *IAR 690 Internship (3)
- Approved Elective (3)

**Museum Studies Concentration**

- IAR 626 The Practice of Public History (3)
- IAR 627 Museum and Historic Site Interpretation: Principles and Practice (3)
- *IAR 690 Internship (3)
- Approved Electives (6)

*Students with appropriate professional experience may substitute an elective for the Internship requirement with prior approval of the Director of Graduate Study.

Studio Courses (6 hours)

- IAR 501, 502 Advanced Interior Architecture I, II (6) or IAR 602 Advanced Interior Architecture III (6)

Research Techniques (9 hours)

- IAR 631 Environmental Design Research (3)
- IAR 645 Seminar in Interior Architecture (3)

And three (3) hours of research methods approved by the student’s committee and typically chosen from the following:

- IAR 548 Architectural Conservation (3)
- IAR 555 Field Methods in Preservation Technology (3)
- IAR 628 Identification and Evaluation of the Historic Built Environment (3)
- IAR 545 Southern History and Southern Material Culture in a Museum Context (3)

Electives (0-3 hours)

**Interior Product Design Concentration**

The Department of Interior Architecture offers a graduate program of study leading to a 36 hour Master of Science degree with a concentration in interior product design.

Required Core Courses (12 hours)

- IAR 500 Supervised Professional Experience (3)
- IAR 540 Evolution of Furniture (3)
- IAR 560 Advanced Computer-Aided Design and Research Seminar (3)
- IAR 565 Materials and Methodologies Seminar (3)

Required Studio Courses (minimum 12 hours)

- IAR 501 Advanced Interior Architecture I (6)
- IAR 502 Advanced Interior Architecture II (6)
- IAR 602 Advanced Interior Architecture III (6)

Research Techniques (6 hours)

- IAR 631 Environmental Design Research (3)
- IAR 645 Seminar in Interior Architecture (3)

Electives (0-3 hours)

- Electives as recommended by Graduate Thesis Committee.

Thesis (6 hours) (Capstone Experience)

A thesis is required of all candidates for the M.S. degree. Credit may be divided over two or more semesters.

- IAR 699 Thesis (6)
Intermediate Architecture Courses

500 Supervised Professional Experience (1-4:0:3-12)
Supervised professional experience in selected commercial or industrial organizations, public or private agencies in accordance with the major course of study of the student.

501, 502 Advanced Interior Architecture I, II (6:0:12), (6:0:12)
Pr. 412 for undergraduates
Advanced design problems having complex functional, social, and economic implications, with emphasis on problem identification, formulation, and design development.

527 Problems in Interior Architecture (2-6)

531 Design Seminar (2:2)
Pr. permission of instructor
Investigation of current research and subjects of topical interest in environmental design. May be repeated for credit.

533 Architectural Lighting Design (2:2)
Study of architectural lighting design: uses and control of light, lighting fixtures, and lighting installation for desired effect.

536 History of Decorative Arts (3:3)
Study of changing stylistic and cultural developments in the decorative arts with special concentration on America. (Same as HIS 536)

540 Evolution of Furniture (3:3)
Pr. or Coreq: 221, 222 or permission of instructor
Chronological study of basic furniture forms (chairs, stools, tables, beds, chests) from Ancient Egypt to 21st century Minimalism. Examines changes in each historic period.

541 Contemporary Trends in Interior Product Design (3:3)
Pr. 540 or 221, 222 or permission of instructor
Study of trade events, showrooms, retailers, designers, and trade and consumer media as forces shaping 21st century trends in interior products. Focuses on furniture, lighting, and textiles.

543 Historic Preservation: Principles and Practice (3:3)
Pr. 222 or permission of instructor
Change in historic preservation theory and practice since the 1800’s with emphasis on preservation of built environment and development of philosophical approach for designers to contemporary preservation projects. (Same as HIS 543)

545 Southern History and Southern Material Culture in a Museum Context (3)
Pr. permission of instructors after completion of required application form
Combined southern history and material culture with a museum practicum. Students selected by individual application. May be repeated for credit when topic varies with permission of instructor. (Same as HIS 545)

547 History Museum Curatorship: Collections Management (3:3)
Pr. admission to a graduate program in history or interior architecture, or permission of instructor
Professional practices in the care and management of historic site and history museum collections, including principles of collection development, object registration, cataloging, and preservation. (Same as HIS 547)

548 Architectural Conservation (3:3)
Pr. 301, 332, or permission of instructor
Contemporary architectural conservation principles, practice and technology. Field exercises, group projects and investigation of an individual research topic expand upon lectures and readings. (Same as HIS 548)

552 History and Theories of Material Culture (3:3)
Pr. admission to a graduate program in history or interior architecture, or permission of instructor
Material culture as it has been defined and interpreted in the past by scholars from the disciplines of history, anthropology, geography, art history, psychology, linguistics, and archaeology. (Same as HIS 552)

555 Field Methods in Preservation Technology (3:1:6)
Pr. admission to a graduate program in history or interior architecture, or permission of instructor
Intensive on-site fieldwork experience addressing issues of architectural conservation and historic building technology. Includes methods, techniques, and theories of preservation technology and accepted conservation practices. (Same as HIS 555)

560 Advanced Computer-Aided Design and Research Seminar (3:3)
Pr. 202, 212, 222, graduate standing, or permission of instructor
Rigorous examination of the origins, evolution, and applications of CAD and evaluation of its significance in interior architecture. With a specific concern on how computational tools affect design decision-making process.

565 Materials and Methodologies Seminar (3:3)
Pr. 333, graduate standing or permission of instructor
Investigation of materials, methods, and technologies for the design, fabrications, manufacturing, and production of products and components of interior architecture.

578 Research Methods in Historical Archaeology (3:3)
Training in research methods in historic archaeology. Involves on-site training in field, laboratory, and library components of historic archaeology. (Same as ATY/HIS 578)

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

601 Directed Individual Study in Interior Architecture (1-6)

602 Advanced Interior Architecture III (6)
Pr. 501 or 502
Design issues or problems relevant to the individual student’s concentration or area of specialization are explored in real or simulated studio projects.
611 Graduate Seminar (0)

624 History of American Landscapes and Architecture (3:3)
Pr. admission to a graduate program in history or interior architecture, or permission of instructor
Examination of the social and cultural forces affecting the design and use of landscapes and buildings in North America from the colonial period through the mid-twentieth century. (Same as HIS 624)

625 Preservation Planning and Law (3:3)
Pr. admission to a graduate program in history or interior architecture, or permission of instructor
Examination and analysis of the relationship of government programs and policies, community and regional planning strategies, and legal case precedents to the field of historic preservation. (Same as HIS 625)

626 The Practice of Public History (3:3)
Pr. admission to a graduate program in history or interior architecture, or permission of instructor
Basic principles in the administration of museums, historic sites, and other cultural resources. Subjects include fundraising, personnel and volunteer management, working with board members, and museum law and ethics. (Same as HIS 626)

627 Museum and Historic Site Interpretation: Principles and Practice (3:3)
Pr. admission to a graduate program in history or interior architecture, or permission of instructor
Theory and practice of interpreting history to the public in the context of museums and historic sites. Topics include exhibit planning and technologies, living history, research methods, and audience evaluation. (Same as HIS 627)

628 Identification and Evaluation of the Historic Built Environment (3:2:2)
Pr. 624, admission to a graduate program in history or interior architecture, or permission of instructor
Methods, techniques, and theories of researching, analyzing, documenting, and evaluating the historic built environment. Includes architectural survey field methods, documentation techniques, archival research, and approaches to evaluating historic significance. (Same as HIS 628)

631 Environmental Design Research (3:3)
Advanced skills for identifying research questions and methods for accomplishing research in the environmental design field. Design research project is planned. Emphasis on research process including problem identification, literature review, data collection, and analysis.

645 Seminar in Interior Architecture (3:3)
Introduction to basic research methodologies and examination of contemporary research questions and issues in interior architecture and related fields.

665 Problems in Interior Architecture (2-4)

690 Internship (3)
Pr. at least 12 hours in history M.A. or interior architecture M.S. program and permission of Director of Graduate Study
Supervised professional experience in selected museum, historic site, or other professional setting in accordance with the major course of study of the student. (Graded on S-U basis) (Same as HIS 690)

699 Thesis (1-6)
Required of all candidates for the Master of Science in interior architecture. Credit may be divided over two or more semesters.

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

801 Thesis Extension (1-3)

803 Research Extension (1-3)
Master of Arts in

Liberal Studies

Advisory Board:

Program Director
Kathleen Forbes, M.Div.
(Division of Continual Learning).

Professors
Robert Cannon, Ph.D.
Microbiology, biology of Acetobacter, a cellulose synthesizing microbe (Director of Graduate Study; Department of Biology).

Anthony N. Fragola, Master of Professional Writing
Scriptwriting, the auteur director, literature and film, film production, development of cinema (Department of Broadcasting and Cinema).

Mark I. Smith-Soto, Ph.D.
19th and 20th century Spanish American poetry (Department of Romance Languages).

Associate Professors
Elizabeth Chiseri-Strater, Ph.D.
Composition theory and pedagogy, language and literacy, portfolio evaluation, ethnography, collaborative learning (Department of English).

Stephen C. Danford, Ph.D.
Observational stellar astronomy (including stellar evolution, Population II abundances and variable stars in globular clusters) (Department of Physics and Astronomy).

Nancy Nelson Hodges, Ph.D.
Social psychological issues of dress, identity, and consumer behavior; epistemological and methodological components of apparel consumer research; qualitative and interpretive inquiry into dress, consumption, and human behavior; gender, education, and apparel industry employment (Department of Consumer, Apparel, and Retail Studies).

Ex officio
John J. Young, Ph.D.
Philosophy of language, ethics, ancient and medieval philosophy, philosophy of religion.

The Master of Arts in Liberal Studies program encourages innovative graduate studies across traditional disciplinary boundaries. It seeks to establish an intellectual community whose members, both students and faculty, are eager to employ the disciplines of the various liberal arts in ways that will enrich their understanding of themselves and of the world surrounding them. Interdisciplinary seminars, course work, and symposia are intended to nurture this intellectual community. The M.A.L.S. degree can serve to enhance career opportunities as well as provide personal enrichment. More information is available at The Graduate School or the Division of Continual Learning.
Requirements for the Master of Arts in Liberal Studies

The M.A.L.S. is an interdisciplinary degree consisting of 33 hours of graduate course work. The student must satisfy the admission requirements of The Graduate School. The program requires that applicants submit a three to four page essay describing their academic background and interest in the liberal arts and the program.

Required Core Seminars (9 hours)
- MLS 610  Culture and Ideas (3)
- MLS 620  Human Nature and Society (3)
- MLS 630  Scientific Reasoning (3)

Electives (18 hours)
In consultation with the program director, a student may choose 18 hours of 500- to 600-level electives.

Thesis Option
*MLS 699  Thesis (6)

Non-Thesis Option
6 additional hours in one of the core seminar areas
*Portfolio

* Indicates Capstone Experience options

Master of Liberal Studies Courses

589  Experimental Course
 This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

610  Culture and Ideas (3:3)
 Pr. admission to the M.A.L.S. program
 Artistic, literary, philosophical, or religious traditions, works of particular thinkers, and historical discourse on intellectual issues. May be repeated for credit when topic varies.

620  Human Nature and Society (3:3)
 Pr. admission to the M.A.L.S. program
 Issues concerning human nature, society, or political life through works or problems from the various social sciences. May be repeated for credit when topic varies.

630  Scientific Reasoning (3:3)
 Pr. admission to the M.A.L.S. program
 Reflections on scientific reasoning and/or investigations of particular problems to illustrate scientific reasoning. May be repeated for credit when topic varies.

650  Independent Study (1-3)
 Guided readings, research and individual project work on an interdisciplinary topic under direction of a faculty member. May be repeated for a maximum of 6 hours credit when topic varies.

699  Thesis (1-6)

711  Experimental Course
 This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

801  Thesis Extension (1-3)

803  Research Extension (1-3)
The Department of Library and Information Studies provides an educational program leading to the Master of Library and Information Studies (MLIS) degree. The program emphasizes the rapidly changing library and information field and prepares students for positions of leadership in school, public, special, and academic libraries and other information centers, and for a variety of roles in both public and private agencies as information specialists.

The MLIS degree program is accredited by the American Library Association and is approved by the North Carolina Department of Public Instruction for the licensure of school library media personnel. The school library media specialist program is approved by NCATE using the AASL/ALA professional education association guidelines. Graduates qualify for the North Carolina Public Library Certification.

LIS courses are offered to off-site locations via distance learning options. Students may take 36 hours leading to the MLIS degree in Greensboro and Charlotte. Individuals wishing more information about courses at off-campus sites should contact the department at (336) 334-3477.

The department, in conjunction with the Department of Curriculum and Instruction, also offers a post-baccalaureate certificate in special endorsement for computer education for currently licensed teachers who wish to pursue North Carolina endorsement for the position of Technology Facilitator.
Requirements for the Master of Library and Information Studies

The Department of Library and Information Studies offers a 36 hour graduate program of study leading to a Master of Library and Information Studies degree. At least 24 hours must be in 600-level courses.

Required Core Courses (16 hours)
LIS 600 Foundations of Library and Information Studies (3)
LIS 615 Collection Management (3)
LIS 620 Information Sources and Services (3)
LIS 640 Organizing Library Collections (3)
LIS 650 Library Administration and Management (3)
LIS 698 Capstone Experience in Library and Information Studies (1)

Additional Technology Requirement (3 hours)
Selected with advisement:
LIS 630 Computer-Related Technologies for Information Management (3)
LIS 631 Emerging Technological Trends in Information Access (3)
LIS 632 Managing School/Library Computer Laboratories (3)
LIS 635 Media Production Services for Library Programs (3)

Electives (17 hours)
Seventeen hours selected with advisement from other 500- or 600-level courses in Library and Information Studies or cognate fields. Students in licensure programs in school and public libraries should confer with faculty for specific requirements.

Capstone Experience
Students must complete a professional portfolio or master’s project. Please consult the LIS homepage for details.

INSTRUCTIONAL TECHNOLOGY CONCENTRATION (37 HOURS)
This 37 hour concentration is designed for teachers and other candidates who wish to focus their studies on instructional technology as it relates to library and information studies. The Instructional Technology Specialist—Computers (077) licensure is attached to this concentration.

Required Core Courses (16 hours)
LIS 600 Foundations of Library and Information Studies (3)
LIS 698 Capstone Experience in Library and Information Studies (1)
LIS 615 Collection Management (3)
LIS 620 Information Sources and Services (3)
LIS 640 Organizing Library Collections (3)
LIS 650 Library Administration and Management (3)

Concentration Requirements (21 hours)
LIS 631 Emerging Technological Trends in Information Access (3)
LIS 632 Managing School/Library Computer Laboratories (3) or LIS 630 Computer-Related Technologies for Information Management (3)
LIS 635 Media Production Services for Library Programs (3)
LIS 691, CUI 644 Practicum (with Portfolio requirement) (3)
CUI 610 Integrating Technology into Subject Matter Instruction (3)
CUI/LIS 672 Instructional Design (3)
SES 662 Assistive Technology for Inclusive Education (3)
**MEDIA COORDINATOR (076) LICENSURE**

The Department of Library and Information Studies offers students the opportunity to earn the Media Coordinator (076) licensure. Applicants already holding an MLIS degree and wishing to obtain 076 licensure should contact the Department of Library and Information Studies for specific requirements. Students not holding a valid North Carolina teaching license will be required to take additional course work as well as an additional practicum.

**MLIS Core Requirements (16 hours)**

- LIS 600 Foundations of Library and Information Studies (3)
- LIS 615 Collection Management (3)
- LIS 620 Information Sources and Services (3)
- LIS 640 Organizing Library Collections (3)
- LIS 650 Library Administration and Management (3)
- LIS 698 Capstone Experience in Library and Information Studies (1)

**Designated Electives for Media Coordinator Licensure (15 hours)**

- LIS 617 Materials for Children (3) or LIS 618 Materials for Adolescents (3)
- LIS 635 Media Production Services for Library Programs (3)
- LIS 653 The School Library (3)
- LIS 654 School Library Media Specialist and the Curriculum (3)
- LIS 693 Practicum in School Library Media (3)

**Library and Information Studies Courses**

- **505 Introduction to Archival Management (3:3)**
  - Pr. permission of instructor
  - Principles of archival management, featuring both classroom instruction in archival theory and practical experience in manuscript repositories and public and private archives. (Same as HIS 505)

- **589 Experimental Course**
  - This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

- **600 Foundations of Library and Information Studies (3:3)**
  - Survey of access issues in library and information studies; professional operations and potential roles in society. Required for all M.L.I.S. students in first year. (Core course)

- **604 The History of Libraries and Librarianship (3:3)**
  - Examines the history of libraries in the Western World with particular emphasis on the United States. (formerly LIS 621)

- **611 Humanities Information Sources (3:3)**
  - Pr. 600, 620, or permission of instructor
  - Major bibliographic and information sources and services in the humanities.

- **612 Science and Technology Information Sources (3:3)**
  - Pr. 600, 620, or permission of instructor
  - Major bibliographic and information sources and services in the sciences and technology.

- **613 Business Information Sources and Services (3:3)**
  - Pr. 620 or permission of instructor
  - Business reference work in the library setting; types of business topics, reference materials, and methods of research.

- **614 Public Documents Information Sources (3:3)**
  - Pr. 600, 620, or permission of instructor
  - Federal, state, and United Nations agency documents: selection, organization, and use. For students in library studies, business and economics, history and political science.

- **615 Collection Management (3:3)**
  - Principles, processes, and problems in selection, evaluation, and acquisition of resources for libraries and information centers. (Core course)

- **617 Materials for Children (3:3)**
  - Survey of resources for early childhood through elementary school levels, study of selection aids and criteria, use of materials and investigation of reading, listening, viewing interests.

- **618 Materials for Adolescents (3:3)**
  - Survey of resources and services appropriate for adolescents, study of selection aids and criteria, use of resources, and investigation of reading, listening, viewing interests.

- **620 Information Sources and Services (3:3)**
  - Selection, evaluation, and use of basic information sources; emphasizing search strategies, question negotiation, and current problems in the provision of information service. (Core course)

- **622 Seminar in Advanced Information Sources and Services (3:3)**
  - Pr. 620
  - Application of sophisticated tools and techniques to the solution of information problems. Emphasis on academic and large public libraries, and special collections. (formerly LIS 651)

- **623 Online Bibliographic Information Retrieval (2:2)**
  - Develops competencies in selecting, evaluating, and using the variety of commercially available electronic databases. (formerly LIS 605d)

- **625 Electronic Resources for Youth (3:3)**
  - How today's youth use technology to access information with an emphasis on the effective use of technology to enhance learning.

**LIS**

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626 Social Sciences Information Sources (3:3)
Pr. 600, 620, or permission of instructor
Major bibliographic and information sources and services in the social and behavioral sciences. (formerly LIS 610)

630 Computer-Related Technologies for Information Man-
gement (3:3)
Pr. 600 or permission of instructor
Essential computer-related technologies in a library/ school/information agency environment. (formerly LIS 645)

631 Emerging Technological Trends in Information Access
(3:3)
Emerging technologies in libraries including local, regional, national, and international communication systems for information transfer as these trends impact delivery of information to library and information center users. (formerly LIS 647)

632 Managing School/Library Computer Laboratories (3:3)
Design, development, maintenance and management of computer labs in libraries and schools. Other topics include: performance support for school and library users, budgeting and planning. (formerly LIS 648)

633 Telecommunications and the Internet (2:1:1)
Examines components of and modes of access to the Internet, Internet telecommunications technologies, Internet use and finding aids, evaluation of Internet resources, and ethical and social issues and the Internet. (formerly LIS 605b)

635 Media Production Services for Library Programs (3:3)
Media and technology applications in libraries and information agencies. Develops competencies in designing, developing and producing, and presenting media and technology. (formerly LIS 605a)

636 Website Production and Usability for Librarians (3:3)
Introduction to Website production and usability issues that are particularly relevant to librarians. Emphasis on seeking to understand and enhance users’ experiences. (formerly LIS 605a)

640 Organizing Library Collections (3:3)
Methods of organizing library and information center collections for effective use; principles and techniques of cataloging and classification. (Core course)

642 Seminar in Indexing and Abstracting (3:3)
Pr. 600, 640, or permission of instructor
Critical study of print and computer-assisted indexes and indexing with creation of thesaurus, indexes, and concordances. Study of database management program indexing and indexing of internet resources. (formerly LIS 646)

650 Library Administration and Management (3:3)
Emphasizes management functions, resource management, and application of concepts to management situations in libraries and information centers. (Core course)

652 Library Administration and Management Seminar (3:3)
Pr. 650 or permission of instructor
Topical approach examines current management issues in an in-depth manner.

653 The School Library (3:3)
Pr. 600, 615, 620, 640, 650 or permission of instructor
The role and function of the school library media center; planning, evaluation, and program development.

654 School Library Media Specialist and the Curriculum (3:3)
Pr. 650 and 653 or permission of instructor
Relationship of the library media program to the school curriculum; library/media and computer skills K-12 instructional program. Observation and practice in school settings.

655 The Public Library (3:3)
Pr. 600, 630, or permission of instructor
The public library in the governmental structure, the librarian as a public administrator, financial and cooperative planning, library services, community analysis.

656 The Academic Library (3:3)
Pr. 600, 650, or permission of instructor
Major trends, issues, and problems in the organization and provision of services in college and university libraries.

657 The Special Library (3:3)
Pr. 600, 650, or permission of instructor
Major trends, issues, and problems in the provision of services in profit and not-for-profit special libraries.

661 Library and Information Science Research (3:3)
Pr. 600, 615, 620, 640, 650, or permission of instructor
Problems of concern to libraries and information center personnel, including application of interdisciplinary concepts and research methods. (formerly LIS 659)

662 Information Services to Diverse Client Groups (3:3)
Changing demographic patterns affecting library and information services in all types of libraries. Services, collections and staffing to reflect a variety of cultural/ethnic experiences/needs. (formerly LIS 658)

663 Library Services for Young People (3:3)
Pr. 617 or 618 or permission of instructor
Planning, evaluation, and administration of programs and services designed to meet the needs of individuals and groups of children and adolescents; current issues in public libraries. (formerly LIS 665)

666 Information Ethics and Policy (3:3)
Pr. 600, 615, or permission of instructor
Examination of legal and ethical aspects of information ethics and policies in libraries/information centers. Covers traditional concerns of access to print, government information, and issues of technology access, privacy concerns. (formerly LIS 664)

667 Information Services for Adults (3:3)
Pr. 615, 620, and 650 or permission of instructor
Design, planning, evaluation, and administration of information services designed to meet lifelong learning goals and needs of individuals and groups of adults in information organizations. Primary emphasis on public libraries.

672 Instructional Design (3:3)
Components of the systems approach to instructional design. (Same as CUI 672)
673 Methods of Teaching Computer Literacy and Computer Programming (3:3:3)
Pr. 672, CUI 669, or permission of the instructor
Content and method for teaching for computer literacy and computer programming and strategies for teaching these subjects. Designed for computer specialists, computer teachers, and regular classroom teachers. (Same as CUI 609) (formerly LIS 609)

674 Seminar: Issues and the Virtual Community (3:3)
Pr. permission of instructor
Major social and ethical issues emerging in the virtual community including those embraced by access, privacy, intellectual property, freedom of speech, institutional/social control, and evolving formats. (Same as CUI 674)

688 Seminar in Selected Topics I (1-4)
Contemporary issues and current trends in librarianship, educational technology, and information science. Topics to be identified for a particular seminar. Course may be repeated when topic varies.

690 Independent Study (1-4)
Pr. 600, 620, 640, 650, and permission of instructor
Guided readings, research, and individual project work under direction of faculty. (formerly LIS 608)

691 Practicum (3-6)
Pr. 600 and permission of instructor
Supervised field experience in library/media center settings, with seminars. Credit required will vary with individual needs. Only 3 hours credit may count towards M.L.I.S. degree. (Graded on S-U basis) (formerly LIS 601)

692 Field Experience in School Library Media (3:0:3)
Supervised field experiences in a school library media center with seminars, observation, and exploration into the school setting and media coordinator roles, for students with no teaching license. (formerly LIS 602a)

693 Practicum in School Library Media (3:0:3)
Pr. 600, 615, 617 or 618, 620, 635, 640, 650, 653, and 654; and 692 for students who do not have a teaching licensure
Supervised field experiences in a school library media center with seminars. Meets a requirement for licensure as a school library media coordinator. (formerly LIS 602b)

694 Supervision: School System Library Media Programs (3:3)
Pr. permission of instructor
Principles and problems in administration and supervision of the district level library/media program of the school system. (formerly LIS 660)

698 Capstone Experience in Library and Information Studies (1:1)
Pr. completion of all other degree requirements and permission of instructor
Developing a professional portfolio or master’s project. Faculty supervised, department chair approved. Required in final semester of MLIS program. Consult LIS homepage for details. (Graded on S-U basis) (formerly LIS 603)

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

803 Research Extension (1-3)
Department of Mathematics and Statistics

Graduate Programs in Mathematics and Statistics

• Post-Baccalaureate Certificate in Statistics
• Doctoral Minor in Statistics
• Ph.D. Computational Mathematics

Professors
Alexander Chigogidze, D.Sc.
Geometric topology, functional analysis (Head of Department).

Paul F. Duvall, Jr., Ph.D.
Geometric topology, combinatorics, dynamics (Director of Graduate Study).

Sat N. Gupta, Ph.D.
Sampling designs, time series forecasting, biostatistics.

Jerry E. Vaughan, Ph.D.
General topology and set theory.

Associate Professors
Maya Chhetri, Ph.D.
Nonlinear elliptic PDE’s, nonlinear functional analysis, applied mathematics.

Richard H. Fabiano, Ph.D.
Analysis, applied mathematics, differential equations, and control theory.

Scott J. Richter, Ph.D.
Nonparametric methods, equivalence testing, statistical consulting.

Brett A. Tangedal, Ph.D.
Number theory.

Assistant Professors
Gregory Bell, Ph.D.
Geometric group theory, geometric topology, asymptotic invariants of groups.

Roland Deutsch, Ph.D.
Environmetrics, computational statistics, multivariate statistics and nonparametric statistics.

Igor Erovenko, Ph.D.
Combinatorial properties of linear groups, bounded generation of S-arithmetic groups.

Sebastian Pauli, Ph.D.
Computational number theory, algebraic number theory, computer algebra.

Jan Rychtar, Ph.D.
Functional analysis, game theory.

Filip Saidak, Ph.D.
Analytic and probabilistic number theory, mathematical biology.

Requirements for the Post-Baccalaureate Certificate in Statistics

The Department of Mathematics and Statistics offers a graduate program of study leading to a 12 hour Post-Baccalaureate Certificate in statistics. The purpose of the certificate is to provide statistical training for persons who wish to enhance their knowledge of statistics but do not wish to pursue a formal degree and for professionals whose interests require a knowledge of statistics beyond the undergraduate level. The objective of the certificate is to offer a structured introduction to the basic ideas of graduate level statistical analysis.

Required Courses (6 hours)

STA 661 Advanced Statistics in the Behavioral and Biological Sciences I (3)
STA 662 Advanced Statistics in the Behavioral and Biological Sciences II (3)

Electives (6 hours)

Students must complete two additional three-hour STA courses at the 500 level or above, excluding STA 571/571L, STA 572/572L, and STA 580.
Requirements for the Master of Arts in Mathematics with a Concentration in Applied Mathematics, Applied Statistics or Pure Mathematics

The Department of Mathematics and Statistics offers a graduate program of study leading to a Master of Arts degree in three areas of concentration: applied mathematics (30-33 hours), applied statistics (33 hours), and pure mathematics (30-33 hours). In the applied mathematics and pure mathematics concentrations, there is a thesis option (30 hours) and a non-thesis option (33 hours). At least half the work credited towards the degree must be in 600-level courses: 15 hours for the 30 hour program, and 18 hours for the 33 hour program. Course work must be approved by the Department of Mathematics and Statistics and must include certain courses as explained in the discussion of the concentrations.

APPLIED MATHEMATICS CONCENTRATION (30-33 HOURS)

Algebra or Analysis (3 hours)
Each candidate must complete any one of the following courses:

MAT 517 Theory of Groups (3)
MAT 545 Differential Equations and Orthogonal Systems (3)
MAT 591 Modern Algebra (3)
MAT 595 Mathematical Analysis (3)
(Note: Students who have had appropriate algebra or analysis courses as undergraduates may be exempted from this requirement upon approval by the Director of Graduate Study. In this case, these 3 hours must be replaced by 3 hours chosen in consultation with the Director of Graduate Study.)

Core Courses (9 hours)
At least 9 hours of course work must be chosen from the following list. At least 6 of these hours must constitute a complete year-long sequence.

MAT 623, 624 Numerical Mathematics (3) (3)
MAT 631, 632 Combinatorics and Graph Theory (3) (3)
MAT 647, 648 Linear Algebra and Matrix Theory (3) (3)
MAT 615, CSC 653 Symbolic Logic and Advanced Theory of Computation (3) (3)
MAT 615, CSC 656 Symbolic Logic and Foundations of Computer Science (3) (3)
CSC 653, 656 Advanced Theory of Computation and Foundations of Computer Science (3) (3)
MAT 695, 696 Real Analysis (3) (3)
MAT 645, 646 Approximation Theory (3) (3)
STA 651, 652 Mathematical Statistics (3) (3)

Electives (12-21 hours)
With prior approval of the Director of Graduate Study a student will select 12-21 hours of other 500- or 600-level mathematical sciences courses.

Thesis or Comprehensive Examination (Capstone Experience)
Each candidate may elect to prepare a thesis or pass a written comprehensive examination on his/her program of course work. The thesis option is a 30 hour program; the non-thesis option is a 33 hour program.

Thesis (6 hours)
The candidate may prepare a thesis based on the investigation of a topic in mathematics. A thesis director will be appointed by the Department Head after consultation with the student and the Director of Graduate Study. Candidates may include up to 6 hours of thesis (MAT 699) in the required 30 hours. An oral examination on the thesis is required.

Comprehensive Examination
A candidate who does not prepare a thesis must take 33 hours of course work and pass a written comprehensive examination of his/her program. Please consult with the Director of Graduate Study for information concerning the comprehensive examination.

APPLIED STATISTICS CONCENTRATION (33 HOURS)
Undergraduate prerequisites: Baccalaureate degree and the following courses or their equivalents: STA 290, 291; MAT 191, 292; and CSC 130 or 230 or 231.

Foundation Courses (7 hours)

STA 551 Introduction to Probability (3)
STA 552 Introduction to Mathematical Statistics (3)
STA 581 SAS System for Statistical Analysis (1)

Students who have completed these courses as part of another degree prior to being accepted in the master’s program will choose replacement courses.

Core Courses (8 hours)

STA 661 Advanced Statistics in the Behavioral and Biological Sciences I (3)
STA 662 Advanced Statistics in the Behavioral and Biological Sciences II (3)
STA 668 Consulting Experience (1)
STA 690 Graduate Seminar (1)
Statistics Electives (6-9 hours)
At least two courses chosen from the following:

- STA 670 Categorical Data Analysis (3)
- STA 671 Multivariate Analysis (3)
- STA 673 Statistical Linear Models I (3)
- STA 674 Statistical Linear Models II (3)
- STA 675 Advanced Experimental Design (3)
- STA 676 Sample Survey Methods (3)
- STA 677 Advanced Topics in Data Analysis and Quantitative Methods (3)
- STA 711 Experimental Course

Interdisciplinary Electives (3-6 hours)
Student can earn the remaining credits required for the degree either by taking any STA courses at the 500 level or above (except STA 571) or by taking a maximum of six (6) hours of approved graduate courses outside of statistics. Pre-approved interdisciplinary electives are:

- CSC 523/524 Numerical Analysis and Computing (3)
- CSC 526 Bioinformatics (3)
- ECO 553 Economic Forecasting (3)
- ECO 722 Time Series and Forecasting (1-4)
- ECO 723 Predictive Data Mining (1-4)
- ERM 669 Item Response Theory (3)
- ERM 728 Factor Analysis and Multidimensional Scaling (3)
- ERM 729 Advanced Item Response Theory (3)
- ERM 731 Structural Equation Modeling in Education (3)
- HEA 602 Epidemiology (3)
- MAT 531 Combinatorial Analysis (3)
- MAT 541/542 Stochastic Processes (3)

Thesis or Project (Capstone Experience)
Each candidate must elect to prepare a thesis or project. Both options require 33 hours.

**Thesis** (6 hours)
The candidate may prepare a thesis based on the investigation of a topic in statistics. A thesis director will be appointed by the Department Head after consultation with the student and the Director of Graduate Study. Candidates will include 6 hours of thesis (STA 699) or 3 hours of STA 698 and 3 hours of STA 699 in the required 33 hours. An oral examination on the thesis is required.

**Project** (3 hours)
A candidate who does not prepare a thesis must complete a project under the direction of an advisor chosen by the Director of Graduate Study in consultation with the student. Three hours of STA 698 will be included in the 33 hour program.

PURE MATHEMATICS CONCENTRATION (30-33 HOURS)

**Algebra and Analysis** (9 hours)
Each candidate must complete any three of the following four courses:
- MAT 591 Advanced Modern Algebra (3)
- MAT 592 Abstract Algebra (3)
- MAT 595 Mathematical Analysis (3)
- MAT 596 Mathematical Analysis (3)
(Note: students who have had appropriate algebra or analysis courses as undergraduates may be exempted from this requirement upon approval by the Director of Graduate Study. In this case, these 3, 6, or 9 hours must be replaced by the same number of hours chosen in consultation with the Director of Graduate Study.)

**Core Courses** (9 hours)
At least 9 hours of course work must be chosen from the following list. At least 6 of these hours must constitute a complete year-long sequence.

- MAT 631, 632 Combinatorics and Graph Theory (3)
- MAT 647, 648 Linear Algebra and Matrix Theory (3)
- MAT 688, 689 Mathematical Logic and Axiomatic Set Theory (3)
- MAT 691, 692 Modern Abstract Algebra (3)
- MAT 693, 694 Complex Analysis (3)
- MAT 695, 696 Real Analysis (3)
- MAT 697, 698 General Topology (3)

**Electives** (6-15 hours)
With prior approval of the Director of Graduate Study, a student will select 6-15 hours of other 500-600 level mathematics courses.

**Thesis or Comprehensive Examination (Capstone Experience)**
Each candidate may elect to (1) prepare a thesis or (2) pass a written comprehensive examination on his/her program of course work. The thesis option is a 30 hour program, and the non-thesis option is a 33 hour program.

**Thesis** (6 hours)
The candidate may prepare a thesis based on the investigation of a topic in mathematics. A thesis director will be appointed by the Department Head after consultation with the student and the Director of Graduate Study. Candidates may include up to 6 hours of thesis (MAT 699) in the required 30 hours. An oral examination on the thesis is required.

**Comprehensive Examination**
A candidate who does not prepare a thesis must take 33 hours of course work and pass a written comprehensive examination of his/her program. Please consult with the Director of Graduate Study for information concerning the comprehensive examination.
**Minor Requirements for the Doctoral Minor in Statistics**

Students pursuing a doctorate from other departments may obtain a statistics minor by completing 18 semester hours of graduate level statistics courses.

**Required Courses (6 hours)**
- STA 661 Advanced Statistics in the Behavioral and Biological Sciences I
- STA 662 Advanced Statistics in the Behavioral and Biological Sciences II

**Electives (12 hours)**
Four additional three-hour STA courses, excluding 571, 572, and 580.

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**PhD Requirements for the Doctor of Philosophy in Computational Mathematics**

The Department of Mathematics and Statistics offers a graduate program of study leading to the Ph.D. in computational mathematics. The program requires a minimum of 60 hours, including 48 hours of course work in mathematics or related area and 12 hours of dissertation.

**Course Work (48 hours)**

The student selects 48 hours of course work in mathematics and related areas with the approval of the Director of Graduate Study.

**Comprehensive Examinations**

Comprehensive qualifying examinations, covering a student’s chosen field of research and related advanced course work, must be taken after the student has removed any provisions or special conditions attached to admission and should be taken prior to the beginning of the fifth semester. These examinations each cover the material of two courses. The student must pass examinations in three of the following five areas.

- Algebra—MAT 591 Advanced Modern Algebra, MAT 592 Abstract Algebra
- Analysis—MAT 595 Mathematical Analysis, MAT 596 Mathematical Analysis
- Topology—MAT 697 General Topology, MAT 698 General Topology
- Combinatorics—MAT 631 Combinatorics, MAT 632 Graph Theory
- Numerical Mathematics—MAT 623 Numerical Mathematics, MAT 624 Numerical Mathematics

**Programming Project**

The student must complete a programming project of such quality that it can become part of a computer algebra system, could be distributed as a package for a computer algebra system, or yields new mathematical data.

**Other Reviews and Examinations**

When a student has passed the comprehensive examination, and completed the programming project successfully, the student submits a dissertation research proposal, which is defended before the dissertation advisor and the advisory committee in an oral examination. After passing this examination, the student may then make a formal application to the Graduate School for admission for candidacy for a doctoral degree.

The advisory committee shall examine the dissertation, and no dissertation shall be accepted unless it secures unanimous approval of the advisory committee. The doctoral candidate who has successfully completed all other requirements for the degree will be scheduled by the chair of the advisory committee to take a final oral examination.

**Schedule for Examinations and Projects**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Examination or Project</th>
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<tbody>
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<td>1-5</td>
<td>3 written comprehensive examinations</td>
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<tr>
<td>2-6</td>
<td>Programming project</td>
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<tr>
<td>3-7</td>
<td>Dissertation proposal (oral examination)</td>
</tr>
<tr>
<td>6-14</td>
<td>Dissertation defense (oral examination)</td>
</tr>
</tbody>
</table>

**Dissertation (12 hours)**

MAT 799 Dissertation (12)
**Mathematics Courses**

503 Problem Solving in Mathematics (3:3)
Pr. grade of at least C in 191 and 303 or permission of instructor
Investigates the nature of problem solving, covers procedures involved in problem solving, develops individual problem solving skills, and collects a set of appropriate problems. Required for middle grades mathematics concentration. This course can not be applied toward the requirements for the M.A. degree in mathematics.

504 Foundations of Geometry (3:3)
Pr. grade of at least C in 292 or permission of instructor
Primarily for students seeking teacher certification. Includes logic and axiom systems, history, plane and solid Euclidean geometry, proof strategies, introduction to non-Euclidean geometries, and transformational geometry. This course can not be applied toward the requirements for the M.A. degree in mathematics.

505 Foundations of Mathematics (3:3)
Pr. grade of at least C in 292 or 303 or permission of instructor
Primarily for students seeking teacher certification. Includes properties and algebra of real numbers; analytic geometry; polynomial, rational, exponential, logarithmic, and trigonometric functions; complex numbers; concept of limits of functions. This course can not be applied toward the requirements for the M.A. degree in mathematics.

513 Historical Development of Mathematics (3:3)
Pr. grade of at least C in 292
Study of the historical development of mathematics—not a history of the persons involved in this development. This course can not be applied toward the requirements for the M.A. degree in mathematics.

514 Theory of Numbers (3:3)
Pr. grade of at least C in 311, or permission of instructor
Introduction to multiplicative and additive number theory. Divisibility, prime numbers, congruences, linear and non-linear Diophantine equations (including Pell’s equation), quadratic residues, number-theoretic functions, and other topics.

515 Mathematical Logic (3:3)
Pr. grade of at least C in 253 or 311, or permission of instructor

516 Polynomial Rings (3:3)
Pr. grade of at least C in 311 or permission of instructor
Rings, integral domains, fields, division algorithm, factorization theorems, zeros of polynomials, greatest common divisor, relation between the zeros and the coefficients of a polynomial, formal derivatives, prime polynomials, Euclidean rings, the Fundamental Theorem of Algebra.

517 Theory of Groups (3:3)
Pr. grade of at least C in 311 or permission of instructor
Elementary properties of groups and homomorphisms, quotients and products of groups, the Sylow theorems, structure theory for finitely generated Abelian groups.

518 Set Theory and Transfinite Arithmetic (3:3)
Pr. grade of at least C in 311 or 395 or permission of instructor
The axioms of set theory, operations on sets, relations and functions, ordinal and cardinal numbers.

519 Intuitive Concepts in Topology (3:3)
Pr. grade of at least C in 311 or 395 or permission of instructor
Basic concepts, vector fields, the Jordan curve theorem, surfaces, homology of complexes, continuity.

520 Non-Euclidean Geometry (3:3)
Pr. grade of at least C in 311 or 395 or permission of instructor
The fifth postulate, hyperbolic geometries, elliptic geometries, the consistency of the non-Euclidean geometries, models for Euclidean and non-Euclidean geometries, elements of inversion.

521 Projective Geometry (3:3)
Pr. permission of instructor
Transformation groups and projective, affine, and metric geometries of the line, plane, and space. Homogeneous coordinates, principles of duality, involutions, cross-ratio, collinearities, fixed points, conics, ideal and imaginary elements, models, and Euclidean specifications.

522 Hilbert Spaces and Spectral Theory (3:3)
Pr. grade of at least C in 359 or permission of instructor

531 Combinatorial Analysis (3:3)
Pr. grade of at least C in 253 or 295 or 311 or 395, or permission of instructor
The pigeon-hole principle, permutations, combinations, generating functions, principle of inclusion and exclusion, distributions, partitions, recurrence relations.

532 Introductory Graph Theory (3:3)
Pr. grade of at least C in 310 and any one of the following courses: 253, 295, 311, 395, 531
Basic concepts, graph coloring, trees, planar graphs, networks.

540 Complex Functions with Applications (3:3)
Pr. grade of at least C in 293
The complex number system, holomorphic functions, power series, complex integration, representation theorems, the calculus of residues.

541, 542 Stochastic Processes (3:3), (3:3)
Pr. grade of at least C in 384 and either 353 or STA 351
Markov processes, Markov reward processes, queuing, decision making, graphs and networks. Applications to performance, reliability, and availability modeling.

545 Differential Equations and Orthogonal Systems (3:3)
Pr. grade of at least C in 293 and 390 or permission of instructor
An introduction to Fourier series and orthogonal sets of functions, with applications to boundary value problems.
546 Partial Differential Equations with Applications (3:3)  
Pr. grade of at least C in 545  
Fourier integrals, Bessel functions, Legendre polynomials and their applications. Existence and uniqueness of solutions to boundary value problems.

549 Topics in Applied Mathematics (3:3)  
Pr. grade of at least C in 293 and 390 or permission of instructor  
Selected topics of current interest in applied mathematics. May be repeated for credit with approval of department head.

556 Advanced Discrete Mathematics (3:3)  
Pr. grade of at least C in 253 or permission of instructor  
Advanced topics in discrete mathematics and their uses in computing science.

589 Experimental Course  
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

591 Advanced Modern Algebra (3:3)  
Pr. grade of at least C in 311  

592 Abstract Algebra (3:3)  
Pr. grade of at least C in 391 or 311 with permission of instructor  

593, 594 Directed Study in Mathematics (1-3), (1-3)  
Pr. 395 or permission of instructor  
Real number axioms, basic topology, sequences, series, continuity, differentiation. Riemann-Stieltjes integral.

601 Seminar in the Teaching of Mathematics I (1:1)  
Seminar on practices and principles of undergraduate teaching in mathematics and statistics. Required for all teaching assistants. (Graded on S-U basis)

602 Seminar on Mathematical Software (3:3)  
Pr. knowledge of a programming language  
Topics vary according to interest and demand, and include algebra, applied mathematics, combinatorics, dynamics, mathematical logic, topology, and other topics. May be repeated for credit when topic varies.

606 Calculus for Middle Grade Teachers (3:3)  
Pr. 505 or permission of instructor  
History, developments, major concepts, and applications of differential and integral calculus covering functions of several variables. No credit toward mathematics degrees.

607 Abstract Algebra for Middle Grade Teachers (3:3)  
Pr. 303 and 505; or permission of instructor  
Development and major concepts of abstract algebraic structures including groups, rings, fields, vector spaces, and matrix algebra. No credit toward mathematics degrees.

623, 624 Numerical Mathematics (3:3), (3:3)  
Pr. MAT 390, MAT 595, MAT 596, or equivalents  

631 Combinatorics (3:3)  
Pr. 311 or permission of instructor  
Topics include selections, arrangements, theory of generating functions, inclusion-exclusion principle, recurrences, Polya’s theory, block designs, stirling numbers, coding theory.

632 Graph Theory (3:3)  
Pr. 631 or permission of instructor  
Topics include graphs, paths, trees, directed trees, networks, cycles and circuits, planarity, matching theory, independence, chromatic polynomials, Ramsey theory, extremal theory, the vector spaces associated with a graph.

645, 646 Approximation Theory (3:3), (3:3)  
Pr. 390, 595, 596  

647, 648 Linear Algebra and Matrix Theory (3:3), (3:3)  
Pr. 310, 311 or permission of instructor  

649 Topics in Operations Research (3:3)  
Pr. permission of instructor  
Advanced linear programming, Integer programming, nonlinear programming, inventory models and queuing models. Application of these optimization techniques in the general area of administration are demonstrated through examples via the digital computer.

650 Management Decision-Making Under Uncertainty (3:3)  
Pr. permission of instructor  
Models and techniques to be used in making decisions under uncertainty. Markov Chains, Linear Programming Under Uncertainty, and Chance-Constrained programming.

659 Advanced Topics in Mathematics (3:3)  
Pr. permission of instructor  
Topics vary according to interest and demand, and include algebra, applied mathematics, combinatorics, dynamics, mathematical logic, topology, and other topics. May be repeated for credit when topic varies.

671 Computational Algebra (3:3)  
Pr. 591, 592, and knowledge of a programming language, or permission of instructor  
Variety of basic subjects in computational algebra: fast arithmetic, algorithms for finite fields, matrix normal forms over rings, polynomial factorization, and Groebner bases.
688, 689 Mathematical Logic and Axiomatic Set Theory (3:3), (3:3)
Pr. 311, 394, or equivalents
Quantification theory, completeness theorems, prenex normal forms, categoricity. The characterization problem, consistency, the theory of models, isomorphisms and substructures, cardinality of models, joint consistency. Incompleteness and undecidability, recursive functions. Church’s thesis. Recursion theory, Set theory, the axiom of constructibility, forcing, the independence proofs.

690 Mathematics Seminar (2:2)
Pr. admission to candidacy for master’s degree
Topics in mathematics suitable for development into a master’s thesis. Current mathematical literature.

691, 692 Modern Abstract Algebra (3:3), (3:3)
Pr. bachelor’s degree with a major in mathematics. Credits equivalent to credits for mathematics 310, 311, 595, and 596, or permission of instructor and department head
Real and complex number fields; rings, integral domains and fields; polynomial rings; extensions of rings and fields; elementary factorization theory; ideals; topics in linear algebra.

693, 694 Complex Analysis (3:3), (3:3)
Pr. bachelor’s degree with a major in mathematics. Credits equivalent to credits for mathematics 310, 311, 595, and 596, or permission of instructor and department head
The complex number system, holomorphic functions, power series, complex integration, representation theorems, the calculus of residues.

695, 696 Real Analysis (3:3), (3:3)
Pr. bachelor’s degree with a major in mathematics. Credits equivalent to credits for mathematics 310, 311, 595, and 596, or permission of instructor and department head
Lebesgue measure; the Lebesgue integral; differentiation and integration, the classical Banach spaces; metric spaces, topological spaces, compact spaces; Banach spaces, measure and integration, measure and outer measure; the Daniell integral; mappings of measure spaces.

697, 698 General Topology (3:3), (3:3)
Pr. bachelor’s degree with a major in mathematics. Credits equivalent to credit for mathematics 310, 311, 595, and 596, or permission of instructor and department head
Topological spaces, point set topology, product and quotient spaces, embedding and metrization, uniform spaces, function spaces, homotopy theory, simplicial complexes and homology, more algebraic topology, general homology theories.

699 Thesis (1-6)

701 Graduate Seminar in Computational Mathematics (3:3)
Pr. 671 or permission of instructor
Readings from the literature of computational mathematics. May be repeated for credit when topic varies.

709 Topics in Computational Mathematics (3:3)
Pr. 671 or permission of instructor
Advanced study in special topics in computational mathematics. May be repeated for credit when topic varies.

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

721 Mathematical Cryptography (3:3)
Pr. 671 or permission of instructor
Mathematics of cryptography with emphasis on public key systems. Applications of elliptic and hyperelliptic curves and lattice theory in attacking and evaluating the security of cryptographic systems.

742 Computational Number Theory (3:3)
Pr. 671 or permission of instructor
Main algorithms used to compute basic information about algebraic number fields, including integral bases, ideal factorization, system of fundamental units, and class group structure.

747 Computational Topology (3:3)
Pr. 671 or permission of instructor
Triangulations and WRAP. Computing homology algorithmically. Morse theory and persistent homology. Computations on knots, braids, and links.

799 Dissertation (1-12)

801 Thesis Extension (1-3)

803 Research Extension (1-3)

Courses Planned Primarily for Mathematics Teachers
The courses below are planned primarily for teachers who have a bachelor’s degree with a major in mathematics. They are offered by special arrangement.

Prerequisites: The student is expected to have credits in courses equivalent to 191, 292, 293, 310, 311, or 390.

613 Development of Mathematics (3:3)

614 Advanced Number Theory (3:3)

615 Symbolic Logic (3:3)

616 Polynomials over General Rings (3:3)

617 Algebraic Theory of Semigroups (3:3)

618 Transfinite Ordinal and Cardinal Numbers (3:3)

619 Conceptual Topology (3:3)

620 A Survey of Geometry (3:3)

621 Advanced Linear Geometry (3:3)
Statistics Courses

551 Introduction to Probability (3:3)
Pr. grade of at least C in 290 and MAT 293 or permission of instructor
Events and probabilities (sample spaces), dependent and independent events, random variables and probability distributions, expectation, moment generating functions, multivariate normal distribution, sampling distributions. (Fall)

552 Introduction to Mathematical Statistics (3:3)
Pr. grade of at least C in 551 or permission of instructor
Point estimation, hypothesis testing, confidence intervals, correlation and regression, small sample distributions. (Spring)

562 Statistical Computing (3:3)
Pr. 291 or 580 and knowledge of a scientific programming language
Statistical methods requiring significant computing or specialized software. Simulation, randomization, bootstrap, Monte Carlo techniques, numerical optimization. Extensive computer programming involved. NOT a course in the use of statistical software packages.

565 Analysis of Survival Data (3:3)
Pr. 291 or 352 or permission of instructor
Methods for comparing time-to-event data, including parametric and nonparametric procedures for censored or truncated data, regression model diagnostics, group comparisons, and the use of relevant statistical computing packages.

571 Statistical Methods for Research I (3:3)
Coreq. 571L
Introduction to statistical concepts. Basic probability, random variables, the binomial, normal, and student’s t distributions, hypothesis tests, confidence intervals, chi-square tests, introduction to regression, and analysis of variance.

571L Statistical Methods Laboratory I (1:0:2)
Coreq. 571
Using statistical software packages for data analysis. Problems parallel assignments in 571.

572 Statistical Methods for Research II (3:3)
Pr. 571 and 571L or permission of instructor. Coreq. 572L
Statistical methodology in research and use of statistical software. Regression, confidence intervals, hypothesis testing, design and analysis of experiments, one and two-factor analysis of variance, multiple comparisons, hypothesis tests.

572L Statistical Methods Laboratory II (1:0:2)
Pr. 571 and 571L or permission of instructor. Coreq. 572
Using statistical software packages for data analysis. Problems parallel assignments in 572.

573 Theory of Linear Regression (3:3)
Pr. grade of at least C in 352 and MAT 310, or 662, or permission of instructor
Linear regression, least squares, inference, hypothesis testing, matrix approach to multiple regression. Estimation, Gauss-Markov Theorem, confidence bounds, model testing, analysis of residuals, polynomial regression, indicator variables.

574 Theory of the Analysis of Variance (3:3)
Pr. 573 or permission of instructor
Multivariate normal distribution, one-way analysis of variance, balanced and unbalanced two-way analysis of variance, empty cells, multiple comparisons, special designs, selected topics from random effects models.

575 Nonparametric Statistics (3:3)
Pr. grade of at least C in 352 or 572 or 662 or permission of instructor
Introduction to nonparametric statistical methods for the analysis of qualitative and rank data. Binomial test, sign test, tests based on ranks, nonparametric analysis of variance, nonparametric correlation and measures of association.

580 Biostatistical Methods (3:3)
Pr. grade of at least C in 271 or 290, or permission of instructor
Statistical methods for biological research including: descriptive statistics, probability distributions, parametric and nonparametric tests, ANOVA, regression, correlation, contingency table analysis.

581 SAS System for Statistical Analysis (1:1)
Pr. 271, 290 or similar introductory statistics course
Creating, importing, and working with SAS data sets. Using SAS procedures for elementary statistical analysis, graphical displays, and report generation.

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

593, 594 Directed Study in Statistics (1-3), (1-3)

651, 652 Mathematical Statistics (3:3), (3:3)
Pr. 352 and either MAT 394 or MAT 395 or MAT 595

661 Advanced Statistics in the Behavioral and Biological Sciences I (3:3)
Pr. 271 or an equivalent introductory statistics course
Statistical techniques and design considerations for controlled experiments and observational studies. Exploratory data analysis, elementary probability theory, principles of statistical inference, contingency tables, one-way ANOVA, bivariate regression and correlation.
662 Advanced Statistics in the Behavioral and Biological Sciences II (3:3)
Pr. 661 or permission of instructor
Continuation of STA 661. Multiple regression and correlation, analysis of covariance, factorial ANOVAs, randomized block designs, multiple comparisons, split-plot designs, repeated measures.

667 Statistical Consulting (1:1)
Pr. permission of instructor
Statistical consultation on doctoral or master’s research. Access to the Statistical Consulting Center. Students are required to attend the initial class meeting during the beginning of the semester. (Graded on S-U basis. Credit is not applicable to a graduate plan of study.)

668 Consulting Experience (1:0:1)
Pr. 662 or permission of instructor
Development of consulting skills through reading and discussion of literature on statistical consulting and participation in statistical consulting sessions. (Graded on S-U basis).

670 Categorical Data Analysis (3:3)
Pr. 662 or permission of instructor
Methods for analyzing dichotomous, multinomial and ordinal responses. Measures of association; inference for proportions and contingency tables; generalized linear models including logistic regression and loglinear models.

671 Multivariate Analysis (3:3)
Pr. 573 or 662 or permission of instructor
Multivariate normal distribution. Cluster analysis, discriminant analysis, canonical correlation, principal component analysis, factor analysis, multivariate analysis of variance. Use and interpretation of relevant statistical software.

672 Applied Statistical Computing (3:3)
Pr. 572 or 662
Limitations and advantages of statistical packages (SAS, SPSSX, BMDP, Minitab). Evaluation in terms of statistical methods, utility, availability, sophistication, data base manipulation, and programming capabilities. Applications from various disciplines.

673, 674 Statistical Linear Models I, II (3:3), (3:3)
Pr. 352 and MAT 310 or permission of instructor
Abstract vector spaces, inner product spaces, projections, the Spectral Theorem, least squares, multiple regression, ANOVA, multiple comparisons, data analysis.

675 Advanced Experimental Design (3:3)
Pr. 662 or permission of instructor
Topics include factorials and fractional factorials, incomplete block designs, split-plot and repeated measures, random and mixed effects models, crossover designs, response surface designs, power analysis.

676 Sample Survey Methods (3:3)
Pr. 352 or 572 or 662 or permission of instructor
Survey methods for students from any discipline. Random, stratified, cluster, multi-stage and other sampling schemes. Estimation of population means, variances, and proportions. Questionnaire design and analysis.

677 Advanced Topics in Data Analysis and Quantitative Methods (3:3)
Pr. 662
Topics vary according to interest and demand. Quantitative methods not normally covered in detail in other statistics courses. Topics may be selected from psychometrics, econometrics, biometrics, sociometrics, quantitative epidemiology.

690 Graduate Seminar (1:0:1)
Pr. 662 or permission of instructor
Development of presentation skills through reading, discussions, and presentation of current research topics in applied statistics. (Graded on S-U basis)

698 Project in Statistics (3)
Pr. permission of instructor
Directed research project in statistics. (Graded on S-U basis)

699 Thesis (1-6)

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

801 Thesis Extension (1-3)

803 Research Extension (1-3)
School of Music

Professors
Kelly Burke, D.M.A., Clarinet, EastWind Trio d’Anches (Chair, Instrumental Division).
William P. Carroll, D.M.A., Choral conducting (Associate Dean).
John J. Deal, Ph.D., Music education (Dean).
Robert Gutter, M.M., University Symphony Orchestra, instrumental conducting.
Donald Hartmann, D.M.A., Voice.
Donald A. Hodges, Ph.D., Music education (Director, Music Research Institute).
David Holley, M.M., Opera, voice (Director of Operas).
George Kiorpes, D.M.A., Piano, keyboard literature, piano pedagogy.
Randy Kohlenberg, Ph.D., Trombone, music education, Market Street Brass.
John Locke, Ed.D., Instrumental conducting, music education, band literature (Director of Bands, Director of Summer Music Camps).
David L. Nelson, Ph.D., Music theory.
John Salmon, D.M.A., Piano, keyboard literature, jazz.
Paul Stewart, D.M., Piano, piano pedagogy (Chair, Keyboard Division).
J. Kent Williams, Ph.D., Music theory and analysis, computer applications and programming, multimedia, music cognition, jazz (Chair, Composition, History and Theory Division).

Clinical Professor

Associate Professors
Dennis AsKew, D.M.A., Tuba, brass pedagogy, chamber ensembles, Market Street Brass.
Mary A. Barret, D.M.A., Oboe and English horn, EastWind Trio d’Anches.
Robert Bracey, D.M.A., Voice (Chair, Vocal Studies Division).
Michael J. Burns, D.M.A., Bassoon, wind chamber music, EastWind Trio d’Anches.
Guy Capuzzo, Ph.D., Music theory.
Gregory Carroll, Ph.D., Theory and analysis, composition, counterpoint, serial techniques, music appreciation, binaural sound and accelerated learning.
Deborah Egekvist, D.M., Flute, chamber ensembles.
Steve Haines, M.M., Jazz studies.
Andrew Harley, D.M.A., Accompanying, vocal coach.
Jack Masarie, M.M., Brass specialist, horn, historical instrument performance and pedagogy, brass literature, brass pedagogy, Market Street Brass.
Cort McClaren, Ph.D., Percussion, percussion ensemble, percussion pedagogy, instrumental music education, conducting.
Scott Rawls, D.M.A., Viola, chamber music, Contemporary music, McIver String Ensemble.
Patricia Sink, Ph.D., Music psychology and acoustics, measurement of music behaviors, music therapy and special music education, Choral/General music education.
Steven Stusek, D.M., Saxophone, chamber music.
David Teachout, Ph.D., Music education (Chair, Music Education Division).
Welborn E. Young, D.M.A., Choral conducting (Director of Choral Activities).

Assistant Professors
Aaron Allen, Ph.D., Musicology
J. Revell Carr, Ph.D., Ethnomusicology
James Douglass, D.M.A., Accompanying and collaborative piano.
Gavin D. Douglas, Ph.D., Ethnomusicology, music history.
Chad Eby, M.M., Jazz studies.
Mark Engebretson, D.M.A., Composition, electronic music.
Aspects of Music Study
The School of Music is an accredited institutional member of the National Association of Schools of Music. The requirements for entrance and graduation as set forth in this Bulletin are in accordance with the published regulations of the National Association of Schools of Music. The School of Music is the representative of the state of North Carolina to the National Association of Music Executives in State Universities.

The School of Music enjoys national recognition as a leader in graduate music study. Strong curricular programs support the only Doctor of Musical Arts (in performance, conducting, and accompanying/chamber music) and Doctor of Philosophy (in music education) degrees offered in North Carolina. Within these doctoral programs the student may select, with the approval of the advisory committee, a minor area of study, including the Post-Master’s Certificate in music theory pedagogy. Master’s degrees are offered in performance studies (voice, piano, organ, strings, early keyboard, individual woodwinds, brass, percussion), conducting, vocal pedagogy, piano pedagogy, woodwinds (multiple), and accompanying. In addition, master’s programs are offered in music education, music theory, and composition. A large faculty of outstanding artists, teachers, and researchers supports a comprehensive program of study.

Auditions
Performance auditions/interviews are required for acceptance as a music major and for approval of the area of study. (M.M. in music education applicants may have the audition waived if the transcript shows satisfactory grades and hours in performance studies.) Auditions should be arranged in advance through the office of the Director of Academic Programs in the School of Music, preferably on regularly scheduled audition dates (D.M.A. auditions are scheduled separately). Recorded auditions for provisional admission must be approved in advance by the Director of Academic Programs. A campus audition, however, will be required before full admission to a degree program may be confirmed or for a graduate assistantship. Ph.D. applicants should consult the Director of Graduate Study for specific requirements prior to scheduling an on-campus interview.

Admission Requirements
Admission to graduate programs in music assumes undergraduate and, for doctoral applicants, graduate study appropriate to the proposed graduate program.

Performance Activities
Qualified students may perform as soloists, members of major performance organizations, and chamber ensembles within the School of Music. Students are encouraged to audition for
roles/positions as vocalists or instrumentalists in opera and musical theatre performances which the School of Music presents in cooperation with the Department of Theatre. Students are also afforded opportunities to audition for positions in the Greensboro Symphony Orchestra, North Carolina Symphony Orchestra, and for positions as church organists, vocal soloists, and directors.

Recital and Concert Opportunities
The University Concert/Lecture Series and the School of Music bring outstanding artists to campus, many of whom also present master classes or engage in informal musical discussions on campus. Students are invited to attend or participate in the many recitals and concerts given during the year by the School of Music faculty and students.

Facilities
The School of Music occupies a recently constructed, three-level, 130,000 square-foot facility. Located prominently on the corner of Market and McIver Streets, the School of Music is the northeast window to the University. The music building, considered to be one of the largest of its kind in the southeast, is accessed easily from an adjacent parking deck and is within a short walking distance to the central portion of the campus and housing.

The “state-of-the-art” building features a 350-seat recital hall; a 120-seat organ recital hall; instrumental, choral, and percussion rehearsal halls; a unified music library; a computer laboratory; classrooms; seminar-conference rooms; faculty studios/offices; practice facilities; an acoustics research laboratory; a psychoacoustics laboratory; an electronic piano laboratory; electronic music studios, a music education methods room; administrative offices; faculty and student lounges; and storage.

Students in instrumental areas, although encouraged to own the best possible instruments for their personal use, are afforded access to the school’s large inventory of orchestral and keyboard instruments, including a new $400,000 Andover tracker organ with 3 manuals, 35 ranks, and 30 stops.

Performance Studies
Advance approval is required for all registration in performance studies. Inquire with the Associate Dean in the School of Music for additional information.

Student Information Manual
Additional policies and regulations are found in the Graduate Music Handbook. This source is made available to all music students after entrance requirements are met. Adherence to the contents of this publication is the responsibility of the student.

Requirements for the Master of Music
in Music Education, Music Performance, Music Theory, or Composition

MUSIC EDUCATION (34 HOURS)
At least one half the work credited toward the degree must be in 600-level courses or above. A diagnostic examination is administered prior to the first semester of enrollment. During the final semester of the master’s program, music education students must complete a portfolio that demonstrates advanced competencies.

Core (6 hours)
MUS 601 Research Methods in Music (3)
One of the following: MUS 606, 611, 628, 660, 662, 674

Professional (17 hours)
MUS 650, 639a or b, 2 credit hours of ensemble or performance study, and select 9 hours from MUS 605, 633, 634, or 653

Music Electives (9 hours)
A minimum of two 3-hour courses is required.

Portfolio (2 hours) (Capstone Experience)
MUS 692a,b Portfolio Development in Music Education (2)

Elective Concentrations
In addition to the Core and Portfolio requirements listed above, students must complete the appropriate Professional and Elective requirements as follows:

Elementary/General Concentration (34 hours)
Professional/Concentration (17 hours)
MUS 639a or b, 650, 633, 634
Select one course from: MUS 605, 653
Music Performance/Ensemble (2)

Concentration/Electives (9 hours)
MUS 645, 678, Electives

Choral Literature/Conducting Concentration (34 hours)
Professional/Concentration (17 hours)
MUS 639a or b, 650
Choral Ensemble: 680, 681, 682, or 688 (2)
Select 9 hours from the following: MUS 605, 633, 634, 653
Electives (9 hours)
MUS 541 and/or 652 (Vocal Pedagogy or Voice) (6)

String Instrument Pedagogy Concentration
(34 hours)

Professional/Concentration (17 hours)
MUS 650, 639a or b
Music Performance (Principal Instrument) (2)
Select 9 hours from the following: MUS 605, 633, 634, 653

Concentration/Electives (9 hours)
MUS 603
Music Performance (Secondary Instrument(s))
MUS 657

Winds and Percussion Concentration (34 hours)

Professional/Concentration (17 hours)
MUS 650, 639a or b
Music Performance (Principal Instrument) (2)
Select 9 hours from the following: MUS 605, 633, 634, 653

Concentration/Electives (9 hours)
MUS 604, 607, or 608
Music Performance (Secondary Instrument(s))
MUS 657

Secondary Choral/General Concentration
(34 hours)

Professional/Concentration (17 hours)
MUS 650, 639a or b, 633, 634
Music Performance or Ensemble (2)
Select 3 hours from the following: MUS 605, 653

Concentration/Electives (9 hours)
MUS 656, 678, Electives

MUSIC PERFORMANCE (32 HOURS)

At least one half the work credited toward the degree must be in 600-level courses or above. A diagnostic examination is administered prior to the first semester of enrollment. A written comprehensive examination* in the final semester is required.

Enrollment in performance studies at the 651 level is required during the semester of recital performance.

Instrumental Division students must perform in an ensemble each semester. The ensemble will be selected by the Division Chair in consultation with the ensemble directors, the performance teacher, and the student.

*Indicates Capstone Experience

Accompanying Concentration

Nine hours of language are required for accompanying majors, one semester each of French, German, and Italian. Also required is the equivalent of MUS 170, Diction for Singers. Language and diction hours must be credited satisfactorily on a college transcript. If not, this requirement may be resolved with appropriate enrollment while working on the current degree; these hours will NOT, however, count toward the M.M. in performance in accompanying degree program.

Core (6 hours)
MUS 602 (601 optional)
One of the following: MUS 606, 611, 660, 662

Performance (piano) (9 hours)
MUS 551/651
MUS 652 (one hour) harpsichord and/or fortepiano

Area Literature (10 hours)
Two semesters of each: MUS 511, 521, 620, 621, 637, 670, 671, 673, 697

Ensemble (4 hours)
MUS 696a

Music Electives (3 hours)

Accompanying Recital (two) (NC)
MUS 600 Recital (0)

Two full accompanying or chamber ensemble recitals are required. The 651 level must be achieved before jury approval of the second recital. The repertoire should include representative selections from vocal, string, and wind literature. The distribution and quantity of repertoire from the three areas is determined at the discretion of the teacher. At least one work played on the harpsichord should be included in the repertoire. For one of the required recitals, any part may be solo literature.

Conducting (Choral) Concentration

Core (6 hours)
MUS 602 (3)
One of the following: MUS 606, 611, 660, 662 (3)

Performance (Conducting) (8 hours)
MUS 551/651, 629, 639b

Secondary Performance Study (Keyboard/Voice) (2 hours)
MUS 652 (2)

Pedagogy (3 hours)
MUS 541 (3)

Ensemble (4 hours)
MUS 680, 681a, 681b, 682, 688

Choral Literature (6 hours)
MUS 528, 628

Recital (6 hours)
MUS 600 (0)
Music Electives (3 hours)  
Must be a 3-hour course

Conducting (Instrumental) Concentration
Core (6 hours)
MUS 602 (601 optional)
One of the following: MUS 606, 611, 628, 660, 662, 664

Performance (Conducting) (8 hours)
MUS 551/651 and/or 639a

Performance (Keyboard Secondary) (2 hours)
MUS 652

Ensemble (preferably large) (2 hours)

Recital (NC)
MUS 600 Recital (0)

Music Electives (14 hours)
Minimum of two 3-hour courses required

Early Keyboard Instruments Concentration
MUS 302 or 303 Keyboard Harmony or proficiency required (not graduate credit)
Core (6 hours)
MUS 602 (required)
One of the following: MUS 606, 611, 660, 662, 664

Performance (harpischord or fortepiano) (8 hours)
MUS 551/651
Two hours at 651 required before the recital

Performance (second keyboard instrument - organ, fortepiano, harpsichord, clavichord) (2 hours)
MUS 652

Area Literature (6 hours)
MUS 530 or 531
MUS 613

Ensemble (2 hours)
MUS 648 required

Recital (NC)
MUS 600 Recital (0)

Music Electives (8 hours)

Keyboard Concentration
Core (6 hours)
MUS 602 (601 optional)
One of the following: MUS 606, 611, 628, 660, 662, 664

Performance (8 hours)
MUS 551/651

Area Literature (6 hours)

Ensemble (2 hours)
MUS 600 Recital (0)

Music Electives (14 hours)
Minimum of two 3-hour courses required

Piano Pedagogy Concentration
MUS 302 or 303 Keyboard Harmony or proficiency required (will not count toward the degree).
Core (6 hours)
MUS 602 (601 optional)
One of the following: MUS 606, 611, 660, 662, 664

Performance (6 hours)
MUS 551/651

Pedagogy (6 hours)
Six hours from the following: MUS 612, 616, 617, 672

Area Literature (6 hours)
Two of the following: MUS 613, 614, 615, 620

Lecture/Demonstration (2 hours)
MUS 610

Music Electives (6 hours)

String, Wind, Percussion Concentration
Core (6 hours)
MUS 602/601
One of the following: MUS 606, 611, 660, 662, 664

Performance (8 hours)
MUS 551/651

Area Courses (6 hours)
Three hours of Area Literature from one of the following:
MUS 635, 636, 637, 670, 671, 673
Three hours of Area Pedagogy from one of the following:
MUS 603, 604, 607, 608, 626

Ensemble (preferably large) (4 hours)

Recital (NC)
MUS 600 Recital (0)

Music Electives (8 hours)
A minimum of two 3-hour courses required

Vocal Pedagogy Concentration (35 hours)
Twelve (12) hours of language are required for voice majors—one semester each of French, German, and Italian plus a second semester to be selected from one of these three languages. Also required is the equivalent of MUS 170-Diction for Singers. Language and diction hours must be satisfactorily credited on a college transcript. If not,
this requirement may be resolved with appropriate enrollment while working on the current degree; however, these hours will not count toward the Master’s in Performance-Voice or Vocal Pedagogy.

Core (6 hours)
MUS 602 (601 optional)
One of the following: MUS *606, 611, 628, 660, 662
*If MUS 606 is submitted as part of Area Literature requirement, an additional course (MUS 606 with different topic, 611, 628, 660, or 662) must be taken to satisfy core requirement.

Performance (voice) (8 hours)
MUS 551/651

Ensemble (2 hours)
MUS 680, 681a, 681b, 682, 688

Vocal Pedagogy (6 hours)
MUS 541, 641

Area Literature (6 hours)
Selected from MUS 511, 521, 621, 606 (if vocal topic and not counted under core)

Lecture/Demonstration and Paper (2 hours)
MUS 610 (2)

Recital (NC)
MUS 600 Recital (0)

Music Electives (5 hours)
Minimum of one 3-hour course required

Voice Concentration (32 hours)
Twelve (12) hours of language are required for voice majors—one semester each of French, German, and Italian plus a second semester to be selected from one of these three languages. Also required is the equivalent of MUS 170-Diction for Singers. Language and diction hours must be satisfactorily credited on a college transcript. If not, this requirement may be resolved with appropriate enrollment while working on the current degree; however, these hours will not count toward the Master’s in Performance-Voice or Vocal Pedagogy.

Core (6 hours)
MUS 602 (3)
One of the following: MUS 606, 611, 628, 660, 662, 664 (3)

Performance (10 hours)
MUS 551/651 (8)
MUS 675 (2)

Large Performance Ensemble (2 hours)
Select 2 hours from: MUS 680, 681a, 681b, 682, 688

Pedagogy (3 hours)
MUS 541 (3)

Area Literature (6 hours)
Selected from MUS 511, 521, 621, 606 (if vocal topic and not counted under core)

Recital (NC)
MUS 600 Recital (0)

Music Electives (5 hours)
Minimum of one 3-hour course required

Woodwinds Concentration
Core (6 hours)
MUS 602/601
One of the following: MUS 606, 611, 660, 662, 664

Performance (11 hours)
MUS 551/651/652 (flute, oboe, clarinet, bassoon, saxophone) (4 hours-principal, 4 hours-minor, 3 hours-secondary)
Must show 651 proficiency on principal instrument
Must show 551 proficiency on minor instrument (principal and minor instruments must be non-alike)
Must study for 1 hour credit on remaining 3 instruments (652) (jury required)

Ensemble (preferably large) (2 hours)

Area Courses (6 hours)
MUS 670 Woodwind Literature (3)
MUS 604 Woodwind Instrument Pedagogy (3)

Recital (NC)
MUS 600 Recital (0)
Must include at least two instruments

Music Electives (7 hours)
Minimum of one 3-hour course

MUSIC THEORY (34 HOURS)
At least one half the work credited toward the degree must be in 600-level courses or above. A diagnostic examination is administered prior to the first semester of enrollment. A written comprehensive examination* in the final semester is required.

*Indicates Capstone Experience

Core (6 hours)
MUS 602 (3)
MUS 606 (3)

Major Courses (18 hours)
MUS 611, 644, 660, 662, 664, 690

Thesis (5 hours)
MUS 699 (5)

Performance (2 hours)
MUS 652, performance, composition, or conducting

Electives (3 hours)
Recommended: MUS 618, 619, 654, history and literature, composition or electronic music, or improvisation
COMPOSITION (32 HOURS)

At least one half the work credited toward the degree must be in 600-level courses or above. A diagnostic examination is administered prior to the first semester of enrollment. A written comprehensive examination* in the final semester is required.

*Indicates Capstone Experience

Core (6 hours)
MUS 602 Research Seminar in Music History (3)
MUS 606 or 611 (3)

Composition (6 hours)
MUS 551/651 Composition Lessons (6)

Enrollment in composition studies at the 651 level is required before or during the semester of recital performance.

Area Study (15 hours)
MUS 507 Modal Counterpoint (3) or MUS 508 Tonal Counterpoint (3) (A Music Elective may be substituted if equivalents of both of these have been included in undergraduate study)
MUS 533 Twentieth-Century Music (c. 1890-1950) (3)
MUS 534 Music Since 1945 (3)
MUS 550 Electronic Music (3) or MUS 640 Electroacoustic Music Composition (3)
MUS 654 Computers in Music Research (3)
One of the following: MUS 660 Theory and Analysis of Rhythm (3) or MUS 662 Schenkerian Analysis (3) or MUS 664 Post-Tonal Theory (3)

Music Electives (2 hours)
Upon approval of the Composition Faculty and the Associate Dean, a course in digital media (e.g., film, video) offered in other departments such as Art or Broadcasting and Cinema may be used as an elective.

Recital (NC)
MUS 600 Recital (0)

Thesis (3 hours)
MUS 699 Thesis (3)

Requirements for the Post-Master’s Certificate in Music Theory Pedagogy

Within the Ph.D. or D.M.A. programs a student may elect a Post-Master’s Certificate in music theory pedagogy (14 hours). The purpose is to provide the student with knowledge and skills necessary to be successful teaching music theory and ear training in higher education. See the Associate Dean for admission and exit requirements.

Required Courses (14 hours)
MUS 644 Pedagogy of Music Theory (3)
MUS 662 Schenkerian Analysis (3)
Two semesters of MUS 689 Practicum in Theory Pedagogy (1)

Select two of the following:
MUS 611 Seminar in Music Analysis (3) (may be taken twice with different topics)
MUS 660 Theory and Analysis of Rhythm (3)
MUS 664 Post-Tonal Theory (3)
MUS 690 Readings in Music Theory (3)

Requirements for the Doctor of Musical Arts in Performance

The School of Music offers a flexible program of study leading to the Doctor of Musical Arts degree in performance with a minimum of 90 hours post-baccalaureate course work. Students who begin study at the master’s level at UNCG must successfully fulfill all requirements for the master’s degree and successfully present a doctoral audition/interview to be admitted into the doctoral program.

The plan of study is developed individually in consultation with the student’s advisory committee. At least 75% of all course work, exclusive of the dissertation, must be at the 600 or 700 level. A diagnostic examination is administered prior to the first semester of enrollment.

The D.M.A. in performance is offered in the following concentrations: Accompanying and Chamber Music, Choral Conducting, Keyboard, Instrumental Conducting, Strings, Winds, Brass, Percussion, and Voice.

Up to 30 hours earned in a master’s program from an accredited graduate school may be applied to the elective portion of this degree. These
credits may count toward any elected cognates or help to satisfy competencies with the approval of the doctoral advisory committee and the Director of Graduate Study in accordance with the academic regulations of The Graduate School.

The following 60 hours must be completed at UNCG:

Performance Studies (18 hours minimum)
Students registered for more than one credit of MUS 751 must simultaneously enroll for at least one three-hour music course.

Reading/Writing/Speaking Intensive Courses (9 hours minimum)
At least one history course (606) and one theory course (611, 660, 662, 664) must be taken.
Other courses may be chosen from the above listed courses or the following:
MUS 605, 618, 627, 628, 633, 634, 645, 646, 650, 653, 658, 659, 678, 749, 750

Required Competencies
Area Literature
Area Pedagogy
Satisfactory completion of competencies is determined by the Doctoral Advisory Committee.
Voice, Choral Conducting, and Accompanying and Chamber Music students must fulfill a language competency as outlined in the D.M.A. Handbook.

Research Skills
Students who have not earned a B or higher in a bibliography course at the master’s level from a NASM accredited school must take MUS 602.
Additional research skills appropriate to the area of study as determined by the advisory committee, such as computer programming, including web-design language(s), statistics, foreign languages, non-traditional notation systems, etc.

Electives (51 hours - 21 at UNCG)
Unless exempt by the diagnostic examination, student must take MUS 525 and 526.

Cognates
Students are encouraged to gain in-depth competence in one or possibly two fields of specialization and shall develop a cognate that comprises 12 credit hours from any one area of study. These credits may come from the master’s degree, the required courses, or any other courses taken at UNCG as electives.

Possible cognates include but are not limited to Music History, Music Theory, Composition, Music Literature, Music Pedagogy, Music Education, Conducting, Jazz, Music Technology, Movement Pedagogy, and World Music.

The cognate may also be fulfilled if a student completes an official minor or certificate program within the School of Music. Cognates outside of the School of Music will be allowed with permission of the doctoral advisory committee. A separate application is required for minors and certificates. Any student approved for a minor or certificate program must have an approved faculty member to represent the area of study as a member of the doctoral advisory committee.

No more than 9 hours of ensemble or performance studies earned during the doctoral enrollment may be credited toward the electives requirement.

Dissertation (12 hours minimum)
MUS 799 Dissertation

The dissertation in performance consists of three public recitals and one of the following options:
1. Lecture-Recital: A 50-60 minute performance and lecture accompanied by a written body of work that is generally between 20-25 pages.
2. Lecture: The completion of a paper in which the body of work is generally 30-50 pages and a 50-60 minute public presentation of the paper. There is no additional performance involved with this option.
3. Doctoral Document: The completion of a paper in which the body of work is generally 50-100 pages. While there is no lecture or additional performance involved, a public defense of the document to the doctoral advisory committee is required.

Regardless of the option chosen by the student in consultation with the doctoral advisory committee, the written portion of the dissertation should represent original scholarship, be carried out at the highest level of scholarship, and be relevant to the particular major field’s repertory, pedagogy, history, or practice. See the section on Public Presentation of the Written Portion of the Dissertation in the Graduate Handbook for more information.

Required Examinations
Diagnostic, Preliminary (written and oral), Final Oral Examinations
MINOR IN EARLY KEYBOARD INSTRUMENTS
Within the D.M.A. in performance, students may elect to fulfill the requirements for a 12-hour minor in early keyboard instruments. The following courses are required:

MUS 613 Keyboard Literature I (to c. 1800) (3)
MUS 620 Seminar in Piano (3)

PhD Requirements for the Doctor of Philosophy in Music Education

The School of Music offers a graduate program of study leading to a 69 hour Doctor of Philosophy degree. At least 75% of all course work, exclusive of the dissertation, must be at the 600 or 700 level. A diagnostic examination is administered prior to the first semester of enrollment. A minor, or minors, in any area approved by the student’s advisory/dissertation committee and The Graduate School may be elected as specified in The Graduate School Bulletin.

Music Education (18 hours)
Select from MUS 605, 618, 619, 633, 634, 645, 650, 653, 750, and 797

Research (12 hours)
ERM 680, ERM 681, MUS 601, MUS 701

Music Courses

500 Organ Pedagogy (3:3)
Pr. junior, senior, or graduate keyboard major or principal
Study and evaluation of procedures used in the teaching of organ. Emphasis on skills and techniques through exercises and literature.

507 Modal Counterpoint (3:3)
Pr. 202 and 206 or permission of instructor
Contrapuntal techniques and standard forms of Renaissance sacred vocal repertoire. Analysis of music by such composers as Josquin, Palestrina, and Lassus. Standard writing techniques of motet and mass; aural training. (Spring)

508 Tonal Counterpoint (3:3)
Pr. 202 and 206, or permission of instructor
Contrapuntal techniques and standard forms of the middle and late Baroque. Analysis of music by composers from Corelli to Bach, composition in representative forms, and aural training. (Fall)

510 Advanced Tonal Analysis (3:3)
Analysis of selected major compositions in the tonal repertoire. Reading and discussion of literature on theoretical concepts and on analysis and interpretation.

511 History of Opera (3:3)
Pr. 333 or permission of instructor
Principal opera composers and styles from Monteverdi to the present; analytical study of selected major works. Not offered every year. (Odd Spring)

513a Song Repertory I: Voice (1:0:2)
Pr. voice 251 and courses in the grammar and/or the phonetics of the language (German for 513, French for 514), or Piano 251 and permission of instructor
Class study of selected songs with emphasis on stylistic elements. First semester: German lieder from Haydn through Strauss, Berg and Schönberg. Second semester: French song from Berlioz to present; modern English and American songs. Each semester may be repeated once for credit. Open to junior, senior, and graduate music majors. (Fall)
538 The Symphonic Tradition (3:3)
Pr. 333, or permission of instructor
Advanced study of symphonic styles and techniques from Baroque era to present. (Even Spring)

541 Principles of Vocal Pedagogy (3:3)
Pr. senior or graduate standing as a voice major or principal or permission of instructor
Teaching process as applied to singing. Includes historical development and an examination and comparison of concepts and approaches past and present. (Fall)

550 Electronic Music (3:2:2)
Pr. permission of instructor
Introductory course in electronic composition. Lecture and laboratory experience. Open to all University students. (Fall)

566 Orchestration (3:3)
Advanced techniques in instrumental scoring for large ensembles such as orchestra, wind ensemble, and jazz ensemble. Historical and stylistic analysis of the art of orchestration. Additional practical exercises in scoring and arranging for small and large ensembles. (Spring)

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

600 Recital (0)
(Graded on S-U basis) (Fall, Spring, and Summer)

601 Research Methods in Music (3:3)
Pr. graduate music education major or permission of instructor
Writing skills, materials, and procedures utilized in music research; measurement, experimental design, theories/procedures for evaluation, statistics, computer applications, and initiation of scholarly research. Computer fee charged. (Fall and Summer)

602 Research Seminar in Music History (3:3)
Methods and procedures used in historical research. Computer fee charged. (Fall, Spring)

603 String Instrument Pedagogy (3:3)
Pr. bowed string principal or major or permission of instructor
Survey of string teaching philosophies, methods, and materials, and their applications. To include lab experience. (Odd Spring)

604 Woodwind Instrument Pedagogy (3:3)
Pr. 351 performance level or permission of instructor
Survey of various philosophies, methods, and materials utilized in the teaching and performing of woodwind instruments. (Even Spring)

605 The Measurement of Musical Behavior (3:3)
Pr. graduate music education major or permission of instructor
Review of standardized music tests and an examination of methods for developing tests related to the measurement of musical behavior. (Spring, Summer)

606 Seminar in Music History (3:3)
Pr. 602 (601) or permission of instructor
Selected compositions, including contemporary writings about musical culture with reference to the composers. May be repeated once for credit when topic varies. (Fall, Spring, and Summer)
<table>
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<th>Course Code</th>
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<tr>
<td>607</td>
<td>Brass Instrument Pedagogy (3:3)</td>
<td>Pr. 351 performance level or permission of instructor</td>
</tr>
<tr>
<td></td>
<td>Survey of various philosophies, methods, and materials utilized in the teaching and performing of brasswind instruments. (Odd Fall)</td>
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<tr>
<td>608</td>
<td>Percussion Instrument Pedagogy (3:3)</td>
<td>Pr. 351 performance level or permission of instructor</td>
</tr>
<tr>
<td></td>
<td>Survey of various philosophies, methods, and materials utilized in the teaching and performing of percussion instruments. (Even Fall)</td>
<td></td>
</tr>
<tr>
<td>609</td>
<td>Jazz Pedagogy (3:3)</td>
<td>Pr. 202, 206 or admission into any UNCG graduate program in music or permission of instructor</td>
</tr>
<tr>
<td></td>
<td>Principles of jazz interpretation, improvisation, and arranging. Procedures for organizing and administering jazz programs. Survey of jazz materials. (Even Fall)</td>
<td></td>
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<tr>
<td>610</td>
<td>Lecture-Demonstration (2:1)</td>
<td>Pr. six hours of 551 or 651</td>
</tr>
<tr>
<td></td>
<td>A research project leading to a public lecture recital. (Graded on S-U basis) (Fall and Spring)</td>
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<tr>
<td>611</td>
<td>Seminar in Musical Analysis (3:3)</td>
<td>Pr. graduate standing in music</td>
</tr>
<tr>
<td></td>
<td>Analysis of selected compositions representative of one style period of Western music. May be repeated once for credit when topic varies. (Fall, Spring, and Summer)</td>
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<tr>
<td>612</td>
<td>Piano Pedagogy I (3:3)</td>
<td>Pr. 331, 332, or permission of instructor</td>
</tr>
<tr>
<td></td>
<td>Survey of current piano teaching philosophies, methods, materials, and their application for private and group instruction. Supervised teaching of beginning piano students. (Fall)</td>
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<tr>
<td>613</td>
<td>Piano Literature I (3:3)</td>
<td>Pr. admission to graduate program in music education or permission of instructor</td>
</tr>
<tr>
<td></td>
<td>Survey of piano literature from ca. 1760-1825, with a preliminary investigation of music for the other keyboard instruments from the earliest extant sources. (Odd Fall)</td>
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<tr>
<td>614</td>
<td>Piano Literature II (3:3)</td>
<td>Pr. permission of instructor</td>
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<tr>
<td></td>
<td>Survey of piano literature from ca. 1825 to the present. (Even Spring)</td>
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<tr>
<td>615</td>
<td>Seminar in Nineteenth-Century Piano Literature (3:3)</td>
<td>Pr. graduate keyboard majors or permission of instructor</td>
</tr>
<tr>
<td></td>
<td>Study in selected composers or genre of the nineteenth century; historical, stylistic, analytical, and performance practice aspects. May be repeated once for credit when topic varies. (Even Fall, Odd Spring)</td>
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<tr>
<td>616</td>
<td>Techniques of New Music for Piano (3:3)</td>
<td>Pr. 500 level or above in piano, or with permission of instructor</td>
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<tr>
<td></td>
<td>Performance practices in twentieth-century piano music; technical, notational, and rhythmic considerations. (Even Spring)</td>
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<tr>
<td>617</td>
<td>Piano Pedagogy II (3:3)</td>
<td>Pr. admission to graduate program in conducting, or permission of instructor</td>
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<tr>
<td></td>
<td>Survey of intermediate and moderately advanced teaching literature with emphasis on basic pedagogical approaches to technique, style, and interpretation. Procedures for teaching functional skills. Supervised teaching experience. (Spring)</td>
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<tr>
<td>618</td>
<td>Psychology of Music (3:3)</td>
<td>Pr. singing experience in Italian, French, and German</td>
</tr>
<tr>
<td></td>
<td>The physical and psychological aspects of music involving human behavior. (Fall and Summer)</td>
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<tr>
<td>619</td>
<td>Acoustics of Music (3:3)</td>
<td>Pr. admission of instructor</td>
</tr>
<tr>
<td></td>
<td>Designed to develop an understanding of the production, transmission, and reception of musical sounds. (Even Spring)</td>
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</tr>
</tbody>
</table>
632 Methods and Materials of Music Reading Instruction (3:2:2)
Pr. graduate music student or K-12 music teacher licensure
Overview of methods and materials for music reading instruction. Emphasis on connections between language and music reading. Involves weekly online sessions, individual projects, and two related workshops. (Online Spring)

633 Music for Exceptional Children (3:3)
Pr. 361 or permission of instructor
Review of the learning styles of exceptional children and the implications for providing realistic musical activities in the classroom. Emphasis will be placed on developing musical skills with special learners. Nonmusic majors may enroll. (Even Fall and Summer)

634 Contemporary Trends in Music Education (3:3)
Current philosophies and concepts influencing contemporary music education practices, methods, and materials. Investigation into social psychology of music as applied to existing music instruction in public schools. (Odd Fall)

635 Percussion Literature (3:3)
Survey of percussion literature from the Medieval era to the present emphasizing the role of percussion in various musical settings. (Odd Fall)

636 Band Literature (3:3)
Band literature and the origins of the band emphasizing its important and expanded cultivation during the past century in the United States and Europe. (Odd Spring)

637 String and Keyboard Chamber Literature (3:3)
Survey of string and piano chamber music literature from the seventeenth century to the present. Emphasis on historical perspectives, performance of representative works, and score analysis. (Odd Fall)

638 Exploring Musical Cultures (1-3)
Pr. consult Director of Graduate Study for specific prerequisites for each trip
Music study trips. Offered only in conjunction with a specific trip. May be repeated for credit.

639a,b Advanced Conducting (3:3), (3:3)
Pr. 472 or 419; permission of instructor required
Advanced conducting skills including baton technique, score reading, rehearsal techniques, score analysis, repertoire, programming, and interpretation. 639a, Instrumental (Fall); 639b, Choral/instrumental (Summer).

640 Electroacoustic Music Composition (3:3:3)
Pr. 350, 550, or permission of instructor
Further exploration of compositional concepts dealing with MIDI, sound synthesis, multitracking, and recording techniques. Emphasis on live, interactive electronic music resources including Max/MSP, C-Sound, Reaktor, and others. (Spring)

641 Advanced Vocal Pedagogy (3:3)
Pr. 541
Practical application of proven pedagogical techniques in a supervised teaching situation. (Spring)

642 Orchestral Reduction Repertory: Vocal Repertoire (1:0:2)
Pr. accompanying or piano performance major
Study and performance of works within the vocal repertoire that have been transcribed from an orchestral, chamber orchestra, or instrumental ensemble to a piano arrangement.

643 Orchestral Reduction Repertory: Instrumental Repertoire (1:0:2)
Pr. accompanying or piano performance major
Study and performance of works within the instrumental repertoire that have been transcribed from an orchestral, chamber orchestra, or instrumental ensemble version to a piano arrangement.

644 Pedagogy of Music Theory (3:3)
Pr. graduate standing in music
Survey of philosophies, curricula, course content, and teaching approaches for undergraduate courses in music theory and aural skills. (Even Fall)

645 Teaching Elementary Music: Theory and Practice (3:3)
Pr. music teaching experience in elementary school or the equivalent of 465
Emphasis on strategies and materials for developing children’s musicianship and problem-solving skills. Consideration of current child development and learning theories to teaching elementary general music. (Odd Fall)

646 Music Experiences: Birth through Kindergarten (3:3)
Comprehensive overview of music experiences for children from birth to seven years. Developmentally appropriate teaching materials, methods, approaches, and strategies for preschool caregivers, general educators, and music educators are emphasized. (Odd Spring)

650 Seminar in Music Education (3:3)
Salient philosophies, practices, and methods involving music education as considered in a social context; challenges in dealing with elementary and secondary students and opportunities for music education in the community. Individual research project required. (Fall and Summer)

653 Music Supervision (3:3)
Philosophical foundations of music education as related to the development of supervisory and administrative programs. Basic concepts of music education and means for evaluation of music education curricula. (Odd Spring and Summer)

654 Computers in Music Research (3:3)
Pr. 601 or 602
Use of computer systems for music research. (Spring)

656 Advanced Choral and General Music Methods for the Adolescent (3:3)
Examination of contemporary research and pedagogy with an emphasis on developing appropriate instructional strategies for use with adolescent students in choral and general music classrooms. (Even Fall)

657 Advanced Instrumental Methods (3:3)
Overview of current practice in learning and teaching music with emphasis on the development of practical strategies for implementation within the instrumental music classroom. (Odd Fall)

658 Topics in Music Technology for Educators (1:0:1)
Advanced study of music technology with an emphasis on integration into the music classroom. May be repeated when topic varies. (Summer as needed)
659 Philosophy of Music (3:3)  
Pr. admission to master’s or doctoral program in music  
Overview of historical and current philosophies of music.  
Specific applications will be made to various areas of  
expertise, including music composition, education, history,  
performance, and theory. (Spring)

660 Theory and Analysis of Rhythm (3:3)  
Survey of theories and analytical approaches regarding  
the temporal organization of music. (Odd Fall)

662 Schenkerian Analysis (3:3)  
Pr. 507 or 508 or equivalent  
Theories and analytical methods of Heinrich Schenker as  
applied to masterworks of the tonal repertory. Selected  
readings from Schenkerian literature. (Spring)

663 History of Jazz (3:3)  
Chronological survey of jazz music and jazz history. Introdu-  
tion to standard reference works and investigation of  
socio-cultural aspects. (Even Spring)

664 Post-Tonal Theory (3:3)  
In-depth study of theoretical and analytical approaches to  
post-tonal music. Readings, analyses, papers, and present-  
tations required. (Even Fall)

668 Organ Literature (3:3)  
Survey of organ literature from sixteenth century to  
present. Open to all graduate students by permission of  
instructor.

670 Woodwind Literature (3:3)  
Survey of woodwind solo and chamber literature, 17th  
century to the present; historical perspectives, woodwind  
genres, performance practice, performances of representa- 
tive works, and score analysis. (Odd Spring)

671 String Solo Literature (3:3)  
Survey of literature for the violin, viola, cello, and bass  
from the seventeenth century to the present. Emphasis on  
historical perspectives, score analysis, aspects of  
performance practice, and performance of representative  
compositions. (Even Fall)

672 Piano Technique, A Pedagogical Survey (3:3)  
Chronological survey of theories of piano technique from  
the clavier methods of the early eighteenth century to the  
present. (Odd Fall)

673 Brass Solo Literature (3:3)  
Survey of brass solo literature from the seventeenth cen-  
tury to the present. Emphasis upon historical perspectives,  
aspects of performance practice techniques, performances  
of representative works, and score analysis. (Even Fall)

674 Masterpieces of Musical Styles (3:3)  
Pr. music education major, passing score on music history  
diagnostic test  
In depth study of five masterpieces of music history  
selected from a variety of periods.

675 Opera Performance Techniques (2:2:2)  
Pr. 375 and/or permission of instructor  
Techniques for the singer-actor; study of the materials and  
nature of music theatre; development of skills required in  
opera/musical theatre. May be repeated once for credit.  
(Fall)

678 Orff in the Music Classroom (3:3)  
Pr. advanced undergraduate or graduate standing in music or  
permission of instructor  
Practical experiences in the Orff-Schulwerk process of  
music teaching. Recorder proficiency, Orff instrumental  
technique, and orchestra tion for Orff instrumentarium are  
emphasized. Nonmusic majors may enroll. (Summer as  
needed)

679 Music Education Workshop (1-3)  
Activities and study involving specific experiences related  
to music education. Credit hours, duration, and subject  
emphas is will vary as announced. May be repeated if topic  
diffs; however, three semester hours are maximum  
credits allowed in master’s and specialists programs.  
(Graded on S-U basis)

687 Aural and Keyboard Skills for Music Theory (1:5:3)  
Pr. admission to the master’s degree program in music theory or  
the certificate program for music theory pedagogy  
Instruction and practice leading to the development of  
aural and keyboard skills sufficient for instructors of music  
th eory and ear training. May be repeated for credit.

689 Practicum in Teaching Music Theory and Musicology  
(1:0:2)  
Pr. admission to the certificate program in music theory peda-  
gogy or in musicology  
Supervised teaching of basic music theory and aural skills,  
music history, music appreciation, or world music.

690 Readings in Music Theory (3:3)  
Pr. 602  
Survey of the evolution and present state of the discipline  
of music theory. (Fall and Spring)

692a,b Portfolio Development in Music Education (1) (1)  
Pr. acceptance in M.M. in music education or permission of  
instructor  
Development of a portfolio that reflects the application  
of course work in music education to classroom teaching.  
(Fall and Spring online)

697 Directed Study in Music (1-6)  
Pr. permission of supervising professor; Director of Graduate  
Study, and Dean  
Supervised advanced research requiring a written  
document or composition. 697a, Music Education; 697b,  
Performance, Composition, Theory; 697c, Music History  
and Literature. (Fall, Spring, and Summer)

698 Document in Music Theory (1)  
Development of research topic in music theory to publica- 
tion stage. May be repeated for credit. (Fall and Spring)

699 Thesis (1-6)  
Individual guidance in the development of a specific  
research problem. (Fall, Spring, and Summer)

701 Research Methods in Music II (3:3)  
Pr. 601 and permission of instructor  
Advanced research methodology and procedures in music  
education. (Spring as needed)

702 Musicological Research for Performers (3:3)  
Pr. 602 or equivalent  
Research problems and methodologies for doctoral-level  
performing musicians. Computer fee charged. (Spring)
703 Research Methods for Performers (3:3)
Pr. admission to the D.M.A. degree program; completion of a 600-level research course at UNCG or equivalent
Survey of research methodology and approaches appropriate for doctoral students in performance and preparation for the completion of a D.M.A. dissertation document.

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

749 Seminar in Higher Education for Performers (3:3)
Pr. admission to the D.M.A. degree program
Issues related to teaching music performance in higher education. Topics include curriculum design, teaching methods, evaluation, promotion, school/departmental structure, job searching/resume preparation, copyright, publication, etc. (Fall)

750 Doctoral Seminar (3:1:4)
Pr. 601, 650
Develop an understanding of functional aspects of teaching in higher education. Assignments in specific areas of professionalism, college curriculum, and research will provide direct experiences. (Spring as needed)

797 Directed Study in Music (1-12)
Pr. permission of supervising professor; Director of Graduate Study, and Dean, School of Music
Supervised advanced research requiring a written document or composition. 797a, Music Education; 797b, Performance, Composition, Theory; 797c, Music History and Literature. (Fall, Spring, and Summer)

799 Dissertation (1-12)
801 Thesis Extension (1-3)
802 Dissertation Extension (1-3)
803 Research Extension (1-3)

Ensembles
Open for credit to all students enrolled in the University. May be repeated for credit.

647 Casella Sinfonietta (1:0:1-2)
Pr. permission of instructor. Coreq. 691 or 693
Chamber literature for winds, strings and percussion from all eras, including contemporary works for this medium. May be repeated when repertoire varies.

648 Chamber Music (1:0:1)
Pr. permission of instructor
Group study and performance of selected chamber music literature/jazz combo literature (non-conducted) with emphasis on development of independent chamber music performance skills. Personnel and repertoire assigned by performance faculty. May be repeated for credit when repertoire varies.

680 University Women’s Choir (1:0:3)
Choral organization for women’s voices. Membership by audition.

681b Women’s Glee Club (1:0:3)
Choral organization for women’s voices. Membership by audition.

682 University Chorale (1:0:3)
Mixed choral organization of approximately 50 singers. Membership by audition.

688 Chamber Singers (1:0:3)
Select mixed vocal ensemble of graduate and advanced undergraduate singers. Membership by audition.

691 University Orchestra (1:0:4)
Full symphony orchestra, performing works from the symphonic repertoire of the eighteenth, nineteenth, and twentieth centuries.

693 University Wind Ensemble (1:0:4)
Performance of selected works for wind ensemble including both original and transcribed literature. Advanced performers only. Membership by audition.

694a Symphonic Band (1:0:3)
Performs literature from all eras, including contemporary works for this medium. Open to all University students.

694b University Band (1:0:3)
Performs literature from all eras, including contemporary works for this medium. Open to all University students.

695 Jazz Laboratory Ensemble (1:0:3)
Performance of literature encompassing all of the jazz idioms, with emphasis on contemporary composition. Open to all students by audition and permission of director.

696 Small Ensemble (1:0:3)
Participation by audition in conducted small ensembles appropriate to the individual’s performance area. Contact the School for a list of small ensembles and specific audition requirements. (Fall and Spring)
Professors

Beth E. Barba, Ph.D.
Gerontological nursing, nursing home environments, end-of-life care.

Carolyn Blue, Ph.D.
Health promotion/health promotive behaviors, occupational health, public health.

Hazel N. Brown, Ed.D.
Parent Child nursing and nursing administration.

William Richard Cowling, Ph.D.
Healing and unitary inquiry.

Laurie M. Kennedy-Malone, Ph.D.
Community-gerontology nursing.

Lynne G. Pearcey, Ph.D.
Psychosocial nursing, nursing administration, continuing education in nursing (Dean).

Debra C. Wallace, Ph.D.
Gerontology, minority health services and behaviors.

Visiting Professor

Charlotte Herrick, Ph.D.
Psychosocial nursing and administrative systems.

Associate Professors

Patricia B. Crane, Ph.D.
Adult/gerontological nursing, heart disease, and administration.

Margaret J. Dick, Ph.D.
Parent Child nursing.

Jie Hu, Ph.D.
Health-related quality of life and symptoms in older adults with chronic disease.

Luba L. Ivanov, D.N.S.
Effects of migration on access and satisfaction with health services for Russian-speaking immigrants.

Ellen D. Jones, D.N.
Community and adult/gerontological nursing.

Virginia B. Karb, Ph.D.
Pharmacology in nursing, nursing education (Associate Dean for Undergraduate Programs).

Eileen M. Kohlenberg, Ph.D.
Adult health nursing, nursing administration, nursing education (Associate Dean, Director of Graduate Study).

Heidi V. Krowchuk, Ph.D.
Parent Child nursing.

Susan Ann Letvak, Ph.D.
Gerontological nursing and the nursing workforce.

Lynne P. Lewallen, Ph.D.
Pregnancy, breast-feeding, and nursing education.

Anita S. Tesh, Ph.D.
Adult health nursing.

Clinical Associate Professors

Dorothy Herron, Ph.D.
Nursing education.

Betsy Lehman, M.S.
Family and community nursing.

Linda McNeal, Ph.D.
Adult health.

Lois VonCannon, M.S.N.
Adult/gerontological nursing.
The School of Nursing offers the Master of Science in Nursing degree program which is designed to prepare persons for leadership roles in nursing education, administration, and clinical practice. The development of these functional competencies is founded upon concentration in a selected area of clinical practice and is supported by a strong research emphasis. Admission by The Graduate School does not guarantee admission to a specific concentration. The School is accredited by the National League for Nursing Accrediting Commission (NLNAC). Information about the graduate program in nursing may be obtained from the NLNAC at 61 Broadway, New York, NY 10006, (212) 363-5555. The anesthesia concentration is accredited by the Council on Accreditation of Educational Programs/Schools, 222 South Prospect Avenue, Suite 304, Park Ridge, IL 60068-4010, (847) 692-7050.

Admission Requirements
The Student Admission, Progression, and Appeals Committee reviews the credentials of each applicant. Exceptions to the requirements can be made on recommendation of the committee.

Master’s and Certificate Programs
In addition to the admission requirements set forth by The Graduate School, applicants must have the following credentials:

1. Current unrestricted licensure as a registered nurse in one of the fifty states or validated credentials by CGFNS for international applicants. Residents of North Carolina must hold unrestricted North Carolina licensure as a registered nurse.
2. Baccalaureate degree in nursing from a program accredited by a nationally recognized accrediting agency. Post-Master’s Certificate applicants must hold a master’s degree from an accredited program.

3. Minimum of one year clinical experience full time; one year critical care experience required for anesthesia concentration.

Nonresidential international students are required to participate in a telephone interview.

Applicants to a Post-Master’s Certificate program are not required to provide GRE or MAT scores.

Nurse Anesthesia Concentration

Admission to The Graduate School does not constitute admission to the anesthesia concentration. Contact the School of Nursing for details regarding the additional admission procedures for anesthesia.

Ph.D. Program

Students will be admitted once per year to the doctoral nursing program with an application deadline of February 15 for the following fall semester. Admission to the program is competitive and contingent upon available space in the program. In addition to the admission requirements set forth by The Graduate School, applicants must have the following credentials:

1. Current unrestricted licensure as a registered nurse in one of the fifty states or validated credentials by CGFNS for international applicants. Residents of North Carolina must hold unrestricted North Carolina licensure as a registered nurse.

2. Master’s degree in nursing from a school accredited by a nationally recognized accrediting agency.

In addition to the application materials required by The Graduate School, applicants must submit a 300-word statement of research goals in doctoral program related to promotion of optimal health for ethnic minorities, women, children, or older adults.

Selected applicants must participate in an interview with Graduate Nursing Faculty.

Enrollment Requirements for All Graduate Nursing Students

1. Evidence of current liability insurance coverage appropriate to concentration or program.

2. A three hour chemistry course for anesthesia concentration.

3. Competency in basic health assessment prior to NUR 642, 651, 671, and 681.

4. Completion of inferential statistics course prior to enrollment in NUR 601.

5. An approved criminal background check prior to enrollment in clinical courses, including NUR 642, 651, 671, 681, and 742.

6. Satisfactory completion of Advanced Cardiac Life Support (ACLS) for anesthesia students. All other concentrations require Cardiopulmonary Resuscitation (CPR) prior to enrollment in clinical practica.

7. Evidence of all immunizations identified on Parts A and B of the UNCG Health History and Immunization Form, excluding the meningococcal vaccine.

Students should provide evidence of nursing licensure and CPR to the School of Nursing Graduate Program Assistant and evidence of health history and immunizations to the UNCG Student Health Services. Copies of all records should be retained by the student.

Students are responsible for all costs associated with their own health care. Students are encouraged to have health insurance and to be familiar with its provisions.

Required Withdrawal for M.S.N. Students

Withdrawal from the program will be recommended if the student:

1. Fails to register for two consecutive semesters (fall and spring) in the nursing curriculum.

2. Has earned a “B- or below” in more than 6 semester hours of course work.

3. Has earned a “B- or below” in any nursing specialty course.

4. Has earned a failing grade in any course.

5. Has a GPA that indicates the inability to meet the 3.0 required for graduation.

6. Does not complete requirements for the degree within the time limit (5 academic years).

7. Is dismissed from the affiliated anesthesia schools.

Readmission after Withdrawal

Any student who is withdrawn or withdraws from the program must apply for readmission through normal admission procedures.

Required Withdrawal for Ph.D. Students

Students will become academically ineligible to continue if any of the following occur:

1. Grades of U, F, or WF for any semester hours of credit.

2. Grades of C, C+, or B- in 6 semester hours.

3. Degree requirements not completed within the time limit (7 academic years).
Appeal of Policies
If a student wishes to appeal a policy in the School of Nursing, the student should complete a “Student Appeal Request.” The Student Admission, Progression, and Appeals Committee hears students appeals. Students may obtain the request form and discuss the appeals process with the Chair of the Committee or the Associate Dean and Director of Graduate Study.

General Information for All Nursing Graduate Students
Policy on Dismissal of Students who Present Physical and/or Emotional Problems that do not Respond to Treatment
Students can be dismissed from the School of Nursing for physical and/or emotional problems that do not respond to appropriate treatment and/or counseling within a reasonable period of time.

Investigation and Evaluation
When faculty members identify a student who presents physical and/or emotional problems that do not respond to appropriate treatment and/or counseling, they immediately suspend the student from the course. Faculty notify the Course Chair and/or Department Chair within the School of Nursing. Upon determination by the faculty, Course Chair and Department Chair, that the physical and/or emotional problems warrant dismissal from the School of Nursing, the Dean will be notified.

The Dean, in consultation with the faculty, and upon review of the documentation, will make a decision regarding recommending dismissal of the student from the School of Nursing.

The Dean of Nursing will send to the Dean of The Graduate School written notification of the recommendation. If the Dean of Nursing recommends dismissal from the School of Nursing, the Dean of The Graduate School will notify the student. Should the student wish to appeal the decision, the student will submit a written request to the School of Nursing Admission, Progression, and Appeals Committee. The Dean of Nursing will provide to the committee the accumulated correspondence or documentation related to the issue.

A request for an appeal should occur within seven working days of written notification of the decision from the Dean of The Graduate School.

Hearing Process
The chairman of the School of Nursing Student Appeals Committee will thereafter notify the student, the faculty member, Course Chair and Department Chair as to the time and place for a hearing to determine whether the physical and/or emotional problems warrant dismissal.

The Committee will hold a closed hearing within ten days at which time the faculty member, Course Chair and Department Chair will be present and will provide documentation and other oral or written evidence regarding the incident. The student will be present and will be given an opportunity to provide documentation and other oral or written evidence regarding the problem. The student will be allowed an advocate/support person at the hearing; however, the support cannot speak and cannot be an attorney.

Following the factual presentation, the Committee will convene in executive session to determine whether the problem warrants dismissal from the School.

The Committee shall make its recommendation in writing to the Dean of Nursing and forward pertinent documentation. The Committee may recommend dismissal from the School of Nursing major, or reinstatement in the program.

Post Hearing Process
The Dean of Nursing may accept, reject, or modify the Committee’s recommendation. The Dean’s decision will be made after review of the minutes of the hearing and report to the Committee. If the Dean of Nursing accepts the Committee’s recommendation to dismiss the student from the School of Nursing, the recommendation will be forwarded to the Dean of The Graduate School who will notify the student. The Dean of Nursing will notify the faculty member(s) as to the determination.

A student who has been dismissed may reapply for admission to the School of Nursing.

Policy on Unsafe Practice
The nursing faculty of the School of Nursing have an academic, legal, and ethical responsibility to prepare graduates who are competent as well as to protect the public and health care community from unsafe nursing practice. It is within this context that students can be disciplined or dismissed from the School of Nursing for practice or behavior which threatens or has the potential to threaten the safety of a client, a family member or substitute familial person, another student, a faculty member, or other health care provider.

Student Awareness
All students are expected to be familiar with the principles of safe practice and are expected to perform in accordance with these requirements. Within courses, counseling and advising processes, and other instructional forums, students will be provided with the opportunity to discuss the policy and its implications.

Definition
An unsafe practice is defined as:

1. An act or behavior of the type which violates the North Carolina Nursing Practice Act, Article 9 of Chapter 90 of the North Carolina General Statutes (NCGS 90-171.37; 90-171.44).
2. An act or behavior of the type which violates the Code of Ethics for Nurses of the American Nurses Association.
3. An act or behavior which threatens or has the potential to threaten the physical, emotional, mental or environmental safety of the client, a family member or
substitute familial person, another student, a faculty member or other health care provider.

4. An act or behavior (commission or omission) which constitutes nursing practice for which a student is not authorized or educated at the time of the incident.

Investigation and Evaluation of an Unsafe Practice

When an incident occurs which a faculty member believes may constitute an unsafe practice, he/she shall immediately notify the student and instruct the student to leave the clinical setting. The faculty member will notify the Course Chair and/or Department Chair within the School of Nursing.

The Course Chair and/or Department Chair will investigate the incident within three working days to determine whether there are grounds for believing that an unsafe practice has occurred. If the incident is minor, the faculty member, in consultation with the person named above, may require remedial work or instruction for the student. If the incident is major, or serial in nature, the Course Chair or Department Chair will notify the Dean.

The Dean, in consultation with the involved faculty members, will review the student’s clinical performance evaluation(s), academic record and potential for successful completion of the major in nursing. Based upon this careful and deliberate review, a decision to reprimand the student, require withdrawal from the clinical course, or to recommend dismissal of the student from the School of Nursing will be made. The Dean of Nursing will send written notification of the decision to reprimand or to require withdrawal from the clinical course to the student. If the Dean of Nursing recommends dismissal from the School of Nursing, the recommendation will be forwarded to the Dean of The Graduate School for approval and notification of the student.

A student who has been dismissed may reapply for admission to the School of Nursing.

Additional Information

Master’s programs of study may be reduced by up to 6 hours for qualified students. Requests for consideration may be submitted to the Director of Graduate Study.

Part-time study is facilitated by the curricular design, but all degree requirements must be met within five academic years of initial enrollment. In addition to courses required for the degree program, students may enroll in independent study courses to enhance their program of study. No foreign language is required.

Following the factual presentation, the Committee will convene in executive session to determine whether an unsafe practice occurred and to recommend a resolution to the incident. The Committee will base its recommendation on the evidence presented at the hearing.

The Committee shall make its recommendation in writing to the Dean and forward pertinent documentation. The Committee may recommend the following remedies: no finding of an act of unsafe practice; a reprimand to the student; or dismissal from the School of Nursing major.

Post Hearing Process

The Dean of Nursing may accept, reject, or modify the Committee’s recommendation. The Dean’s decision will be made after review of the minutes of the hearing and report to the Committee. If the Dean of Nursing accepts the Committee’s recommendation to dismiss the student from the School of Nursing, the recommendation will be forwarded to the Dean of The Graduate School for approval and notification of the student. The Dean of Nursing will notify the faculty member(s) as to the determination.

A student who has been dismissed may reapply for admission to the School of Nursing.
Requirements for the Master of Science in Nursing
Various Concentrations

The School of Nursing offers a graduate program of study leading to a Master of Science in Nursing degree. Students may choose one of several concentrations. The nursing administration and nursing education concentrations can be completed in 36 hours. The adult nurse practitioner/gerontological nurse practitioner concentration requires 50 hours for completion, and the nurse anesthesia concentration requires 47 hours for completion.

Required Core Courses (9 hours)
- NUR 602 Research Methods in Nursing (3)
- NUR 610 Theoretical Foundations of Advanced Nursing Practice (3)
- NUR 620 Law, Policy, and Economics of Healthcare (3)

Required Courses by Concentration

Nursing Administration (21 hours)
- NUR 540 Budget Development and Analysis of Nursing Services (3)
- NUR 541 Nursing Case Management: Coordinating Systems of Care (3)
- NUR 614 Information Technology in Nursing Service Administration (3)
- NUR 641 Nursing Administration (4)
- NUR 642 Nursing Administration: Theoretical Applications (4)
- NUR 643 Nursing Administration Practicum (4)

Nursing Education (24 hours)
- NUR 550 Pathophysiology for Advanced Nursing (3)
- NUR 551 Instructional Technologies in Nursing and Patient Education (3)
- NUR 615 Theories, Design, and Evaluation of Nursing Education (3)
- NUR 616 Pedagogical Strategies in Nursing Education (3)
- NUR 650 Psychopharmacology and Holistic Care (3)
- NUR 651 Computer Applications in Nursing (3)

Gerontological Nursing
- NUR 561 Scope of Gerontological Healthcare (3)
- NUR 581 End of Life Care (3)

Core and Support Courses
- NUR 505 Research Methods in Nursing (3)
- NUR 560 Pathophysiology for Advanced Nursing (3)
- NUR 580 Psychopharmacology and Holistic Care (3)
- NUR 602 Research Methods in Nursing (3)
- NUR 610 Theoretical Foundations of Advanced Nursing Practice (3)
- NUR 620 Law, Policy, and Economics of Healthcare (3)
- NUR 692 Independent Study (3)

Upon successful completion of the four courses, students receive a Post-Baccalaureate Certificate. If two or more courses are completed within the categories of nursing administration, nursing education, or gerontological nursing, the certificate will denote the specialty area(s). All courses must be completed in the nursing case management category to receive that certificate. If courses are completed across several categories or within the core and support course category, a Post-Baccalaureate Certificate in Nursing will be issued.

The student will develop a program plan with the Director of Graduate Study in the School of Nursing before enrolling in courses. At least 6 credits of course work shall be completed at the 600 level. However, exceptions may be made by the Director of Graduate Study to accommodate the individual student’s learning needs and career goals.
NURSING

NUR 616 Pedagogical Strategies in Nursing Education (3)
NUR 651 Advanced Application of Nursing Concepts in Client Care (4)
NUR 652 Advanced Application of Nursing Concepts in Professional Development (4)
NUR 653 Advanced Application of Nursing Concepts in Academic Education (4)

Adult Nurse Practitioner/Gerontological Nurse Practitioner (41 hours)
NUR 550 Pathophysiology for Advanced Nursing (3)
NUR 681 Advanced Health Assessment (4)
NUR 682 Health Promotion/Disease Prevention for Healthy Aging (3)
NUR 683 Clinical Management of the Older Adult I (6)
NUR 684 Pharmacotherapeutics for Nurse Practitioners (3)
NUR 685 Advanced Practice Nursing: Role, Theory and Practice (3)
NUR 686 Clinical Management of the Older Adult II (6)
NUR 687 Primary Care of the Adult (5)
*NUR 688 Advanced Concepts in the Management of the Older Adult (4)
*NUR 689 Primary Care of the Adult Practicum (4)

*Indicates Capstone Experience

Nurse Anesthesia (38 hours)
*NUR 604 Nurse Anesthesia Seminar (4)
NUR 671 Clinical Practicum in Nurse Anesthesia I (4)
NUR 672 Clinical Practicum in Nurse Anesthesia II (4)
NUR 674 Clinical Practicum in Nurse Anesthesia IV (5)
NUR 675 Clinical Practicum in Nurse Anesthesia V (5)

*Indicates Capstone Experience

Electives (3 hours)
With prior approval of the advisor, a student will select 3 hours from other 500- or 600-level nursing courses, or other related courses, for the nursing administration concentration.

Comprehensive Examination
This examination is completed in the process of meeting the requirements for the thesis or advanced nursing project. Consult with the advisor.

Capstone Experience for Nursing
Administration and Nursing Education
NUR 698 Advanced Nursing Project (1-6)
NUR 699 Thesis (1-6)
NUR 601 Critique and Utilization of Research in Nursing (3)

The thesis, advanced nursing project, or NUR 601 Critique and Utilization of Research in Nursing is required for the nursing education and nursing administration concentrations. Once a student enrolls in NUR 698 Advanced Nursing Project or NUR 699 Thesis the student must remain continuously enrolled for the course for a minimum of 3 credits and a maximum of 6 credits. Three credits are applied toward graduation and may be taken in one semester or divided over two or three semesters. Students who have not completed the Project/Thesis after registering for the first 3 credits must continue to register for NUR 698 or NUR 699 for one credit each succeeding semester until 6 credits are earned. If the Project is not completed after 6 credits are earned, the student should enroll for NUR 803 Research Extension for 1-3 hours until completion. If the Thesis is not completed after 6 credits are earned, the student should enroll in NUR 801 Thesis Extension for 1-3 hours credit until completion.

Additional Information
The 36-hour program of study for concentrations in nursing education or administration is designed to be completed in six semesters of full-time study, beginning in August and ending in May of the third year. The adult nurse practitioner/gerontological nurse practitioner concentration may be completed in five semesters of full-time study, beginning in August of each year.

The nurse anesthesia concentration is designed to be taught over four semesters and two summers of noncredit clinical residency. Classes begin in August of one year with graduation in May of the second year. The noncredit clinical residency continues until August of the second year, and is required for certification. A modified M.S.N. program is available for CRNAs.
The School of Nursing and the Bryan School of Business and Economics offer a combined Master of Science in Nursing/Master of Business Administration degree. A minimum of 54 semester hours is required for this degree.

**Computer Literacy**

Upon entry to the M.S.N./M.B.A. degree program, students should have a working knowledge of word processing and spreadsheet applications in a PC environment. Familiarity with Excel is required.

**Statistics**

Completion of a statistics course prior to enrollment in NUR 602 is required. ECO 250 or MBA 600 is recommended to meet the program prerequisite for statistics.

**Required Courses (54 hours)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>NUR 610</td>
<td>Theoretical Foundations of Advanced Nursing Practice (3)</td>
</tr>
<tr>
<td>NUR 614</td>
<td>Information Technology in Nursing Service Administration (3)</td>
</tr>
<tr>
<td>MBA 602</td>
<td>Presentation and Interpretation of Financial Statements (1.5)</td>
</tr>
</tbody>
</table>

**MSC/MBA**

**Requirements for the Master of Science in Nursing/Master of Business Administration**

- NUR 540  Budget Development and Analysis of Nursing Services (3)
- NUR 620  Law, Policy, and Economics of Healthcare (3)
- MBA 603  Economic Analysis (1.5)
- NUR 602  Research Methods in Nursing (3)
- NUR 641  Nursing Administration (4)
- MBA 604  Organizational Behavior (1.5)
- MBA 605  Financial Management (1.5)
- NUR 642  Nursing Administration: Theoretical Applications (4)
- MBA 606  Marketing Management (1.5)
- MBA 607  The Operations Function (1.5)
- NUR 643  Nursing Administration Practicum (4)
- MBA 610  Advanced Business Statistics (1.5)
- MBA 613  Economic Policy and the Global Environment (1.5)
- MBA 616  Managing in a Global Environment (1.5)
- MBA 617  Management Science (1.5)
- MBA 620  Competitive Analysis and Strategy Formulation (1.5)
- MBA 624  Strategies for Managing Human Resources (1.5)
- MBA 628  Business Strategy and Information Technology (1.5)
- MBA 625  Corporate Strategy and the Finance Function (1.5)
- MBA 626  Advanced Marketing Management (1.5)
- MBA 627  Global Operations Strategy (1.5)
- *MBA 629a Creating and Sustaining Competitive Advantage (3)

*Indicates Capstone Experience

**Additional Information**

Students will receive a certificate from The Graduate School upon completion of the required course of study and are eligible to take the appropriate national certification examination as a Nurse Anesthetist or Adult Nurse Practitioner and Gerontological Nurse Practitioner.

The School of Nursing offers Post-Master’s Certificate programs in two areas: nurse anesthesia and adult nurse practitioner/gerontological nurse practitioner. Students are advised individually, based on the focus of the previous master’s degree. Typical course requirements for these programs are listed.

**Adult Nurse Practitioner/Gerontological Nurse Practitioner (41 hours)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>NUR 550</td>
<td>Pathophysiology for Advanced Nursing (3)</td>
</tr>
<tr>
<td>NUR 681</td>
<td>Advanced Health Assessment (4)</td>
</tr>
<tr>
<td>NUR 682</td>
<td>Health Promotion/Disease Prevention for Healthy Aging (3)</td>
</tr>
<tr>
<td>NUR 683</td>
<td>Clinical Management of the Older Adult I (6)</td>
</tr>
<tr>
<td>NUR 684</td>
<td>Pharmacotherapeutics for Nurse Practitioners (3)</td>
</tr>
<tr>
<td>NUR 685</td>
<td>Advanced Practice Nursing: Role, Theory and Practice (5)</td>
</tr>
<tr>
<td>NUR 686</td>
<td>Clinical Management of the Older Adult II (6)</td>
</tr>
<tr>
<td>NUR 687</td>
<td>Primary Care of the Adult (5)</td>
</tr>
<tr>
<td>NUR 688</td>
<td>Advanced Concepts in the Management of the Older Adult (4)</td>
</tr>
<tr>
<td>NUR 689</td>
<td>Primary Care of the Adult Practicum (4)</td>
</tr>
</tbody>
</table>

**Nurse Anesthesia (38 hours)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>NUR 604</td>
<td>Nurse Anesthesia Seminar (4)</td>
</tr>
<tr>
<td>NUR 671</td>
<td>Clinical Practicum in Nurse Anesthesia I (4)</td>
</tr>
<tr>
<td>NUR 672</td>
<td>Clinical Practicum in Nurse Anesthesia II (4)</td>
</tr>
<tr>
<td>NUR 674</td>
<td>Clinical Practicum in Nurse Anesthesia IV (5)</td>
</tr>
<tr>
<td>NUR 675</td>
<td>Clinical Practicum in Nurse Anesthesia V (5)</td>
</tr>
</tbody>
</table>
Requirements for the Doctor of Philosophy in Nursing

The School of Nursing offers a graduate program of study leading to a 57 hour Doctor of Philosophy degree. Up to 15 hours of credit may be transferred into the Ph.D. in nursing program. The Director of Graduate Study may waive up to 6 hours for successful completion of previous graduate work.

Required Courses (21 hours)
- NUR 710 Philosophy of Knowledge Development in Nursing (3)
- NUR 712 Theory Analysis in Nursing Science (3)
- NUR 741, 742 Nurse Scientists in Academia and Industry I, II (3) (3)
- NUR 781 Health Promotion Models and Interventions (3)
- NUR 782 Health Disparities and Outcomes (3)
- NUR 783 Advanced Health Policy and Ethics (3)

Research Methodology and Statistics (12 hours)
- NUR 701, 702 Statistical Applications for Nursing I, II (3) (3)
- NUR 703 Qualitative Methods for Nursing (3)
- NUR 704 Quantitative Methods for Nursing (3)

Directed Research (3 hours)
- NUR 790 Directed Research (3)

Cognates (6 hours)

Electives (3 hours)

Preliminary Examinations
Preliminary examinations are required after the completion of ¾ of the course work. See page 24 for additional information.

Dissertation (12 hours)
- NUR 799 Dissertation (12)

Nursing Courses

505 Computer Applications in Nursing (3:2:3)
Pr. basic understanding of microcomputers or permission of instructor. Not recommended for nursing administration majors
Introduction to computer applications in nursing. Practical experience with microcomputers and generic software applicable to patient care and nursing management. Lab assignments will vary to meet specific learning needs.

540 Budget Development and Analysis of Nursing Services (3:3)
Introduction to the principles of fiscal management, health care agency accounting practices and the nurse manager’s role in the budgeting process.

541 Nursing Case Management: Coordinating Systems of Care (4:2:6 for Post-Baccalaureate Certificate) (3:2:3 for M.S.N.)
Pr. licensure as a registered nurse
Theory and practice of nursing case management for diverse populations across the health care continuum.

550 Pathophysiology for Advanced Nursing (3:3)
Physiological changes across the lifespan and common pathophysiological mechanisms.

551 Instructional Technologies in Nursing and Patient Education (3:3)
Selection, development, use, and evaluation of instructional media and technologies for diverse populations in nursing practice and education settings.

561 Scope of Gerontological Healthcare (3:3)
Aging theories and concepts; demographics, health problems, treatments, supports, and the role of the gerontological healthcare professional.

580 Psychoimmunology and Holistic Care (3:3)
Mind-brain-body interactions and holistic views of health. Relation of integrative, alternative and complementary therapies to holistic care.

581 End-of-Life Care (3:3)
Critical aspects of interdisciplinary approaches to quality care at end-of-life. Includes palliative care, family, advocacy, culture, special populations, systems of care, financial issues, life threatening illnesses and sudden death.

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

Admission to The Graduate School required for enrollment in 600-level courses.

601 Critique and Utilization of Research in Nursing (3:3)
Pr. 602, 610 and first concentration specialty course
Development of knowledge and skill competencies basic to the critical interpretation and utilization of research findings in solutions. Application to nursing education, management, and practice problems. (Graded on S-U basis)

602 Research Methods in Nursing (3:3)
Pr. one course in statistics that included inferential statistics (preferred within past five years)
Examines the basic concepts, strategies, and procedures used in conducting and evaluating nursing research. Emphasis will be on proposal development and quantitative and qualitative analysis of data.
601 Advanced Application of Nursing Concepts in Client Care (4:1:9)  
Pr. or coreq. 550, 551  
Continuing development of clinical nursing competencies for a specialty or population in preparation for the educator role. Seminars, conferences, and practicum emphasize client care and education.

602 Advanced Application of Nursing Concepts in Professional Development (4:1:9)  
Pr. 651. Pr. or coreq. 615, 616  
Competencies in preparation for professional development roles in nursing. Seminars, conferences, and practica emphasize staff and continuing education.

603 Advanced Application of Nursing Concepts in Academic Education (4:1:9)  
Pr. 652  
Development of competencies in preparation for academic educator roles. Seminars, conferences, and practica emphasize nursing education in academic settings.

604 Nurse Anesthesia Research Seminar (4:4)  
Coreq. 675  
Analysis of professional issues and research affecting anesthesia nursing practice.

605 Scientific Foundations in Nurse Anesthesia I (4:4)  
Pr. admission to the M.S.N. concentration in nurse anesthesia or enrolled in clinical concentrations. Pr. or coreq. 610  
Advanced knowledge of pathophysiology, pharmacology, and anesthesia nursing care related to persons with neurological dysfunction.

606 Scientific Foundations in Nurse Anesthesia II (4:4)  
Pr. 605, 610 or permission of instructor. Pr. or coreq. 602  
Advanced knowledge of pathophysiology, pharmacology, and anesthesia nursing care related to persons with cardiovascular and cellular dysfunction.

607 Scientific Foundations in Nurse Anesthesia III (4:4)  
Pr. 602, 606 or permission of instructor, Pr. or Coreq. 620  
Advanced knowledge of pathophysiology, pharmacology, and anesthesia nursing care related to persons with respiratory dysfunction.

608 Scientific Foundations in Nurse Anesthesia IV (4:4)  
Pr. 607 or permission of instructor  
Advanced knowledge of pathophysiology, pharmacology, and anesthesia nursing care related to persons with hepatic, renal, and endocrine dysfunction.

610 Theoretical Foundations of Advanced Nursing Practice (3:3)  
Role of theory in nursing is evaluated using the organizing concepts of person, environment, health, and nursing.

614 Information Technology in Nursing Service Administration (3:3)  
Pr. enrolled in administration concentration of M.S.N. program or permission of instructor  
Prepares the student to apply principles and techniques of communication and computer technology in health care management settings.

615 Theories, Design and Evaluation in Nursing Education (3:3)  
Pr. or coreq. 610  
An exploration of nursing curriculum development within a broad context related to history, philosophy, and current trends.

616 Pedagogical Strategies in Nursing Education (3:3)  
Pr. or coreq. 551  
Concepts of instructional design and educational strategies related to nursing education in a variety of settings.

620 Law, Policy, and Economics of Healthcare (3:3)  
Law, health policy, and economics related to advanced nursing practice. Policy development, state and federal statutes, and economics affecting delivery of nursing and healthcare.

641 Nursing Administration (4:4)  
Pr. or coreq. 610, 614  
Nursing management within the health care system. Management functions of planning, organizing and staffing studied within the framework of leadership in health care organizations.
Clinical Management of the Older Adult I (6:3:9)
Pr. 681, 682. Coreq. 684
Major health problems of older adults residing in the community; knowledge necessary to manage these health problems collaboratively with other health care professionals.

Pharmacotherapeutics for Nurse Practitioners (3:3)
Coreq. 683
Advanced principles of pharmacodynamics of major drug classes used in adults and older adults, including discussion of advanced nursing roles in prescription practices.

Advanced Practice Nursing: Role, Theory and Practice (3:3)
Pr. or coreq. 620
Professional development of the advanced practice nursing role in the health care delivery system.

Clinical Management of the Older Adult II (6:3:9)
Pr. 684
Major health problems of elderly residing in institutionalized settings. Content reflects knowledge necessary to manage health problems in collaboration with physicians, social workers, and other health professionals.

Primary Care of the Adult (5:3:6)
Pr. 686
Health behaviors of adults, promotion of healthy lifestyles, and the management of common acute and chronic health problems by an advanced practice nurse.

Advanced Concepts in the Management of the Older Adult (4:0:12)
Pr. 686
Implementation and evaluation of advanced practice strategies and leadership role of the gerontological nurse practitioner.

Primary Care of the Adult Practicum (4:1:9)
Pr. 687
Practicum for advanced nursing practice in primary health care for adults: Promotion of healthy lifestyles, evaluation and management of acute and chronic health problems.

Independent Study (1-3)
Guided readings, research, and individual project work under the direction of the School of Nursing faculty. May be used as part of minimum 36 hours required for the M.S.N. degree. May be repeated for a maximum of 6 hours credit.

Advanced Nursing Project (1-6)
Pr. 601, 610, one support course and one specialty course
Scholarly inquiry project developed by the student with faculty guidance. Advanced nursing project or 699 required for the M.S.N. May be repeated for a maximum of 6 hours credit. (Graded on S-U basis)

Thesis (1-6)
Pr. 601, 610, one support course and one specialty course
Individual guidance and research in support of a clinical or nonclinical project. Thesis or 698 required for the M.S.N. May be repeated for a maximum of 6 hours credit. (Graded on S-U basis)

Statistical Applications for Nursing Research I (3:3)
Pr. admission to Ph.D. in nursing and completion of a course in inferential statistics, or permission of instructor

Statistical Applications for Nursing Research II (3:3)
Pr. 701 or permission of instructor
Advanced statistics for nursing and health care research, including general linear model, multifactorial ANOVA, multiple regression. Emphasis on selection and conduct of analysis and interpretation of results.

Qualitative Methods for Nursing (3:3)
Pr. 702 and 712, or permission of instructor
Philosophy, theory, and methods of qualitative research with an emphasis on the application to nursing and health research.

Quantitative Research in Nursing (3:3)
Pr. 703 or permission of instructor
Theoretical foundations, design, and techniques of quantitative research for nursing and health care.

Philosophy of Knowledge Development in Nursing (3:3)
Pr. admission to Ph.D. in nursing
Philosophy, inquiry, and the development of knowledge within the discipline.

Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

Theory Analysis in Nursing Science (3:3)
Pr. 710
Nature of theory and strategies for theory development within the discipline of nursing. Analysis and evaluation of theory related to phenomena of interest.

Nurse Scientists in Academia and Industry I (3:3)
Pr. 704 and 782. Coreq. 783
Integration of the nurse scientist role into an academic and industry environment.

Nurse Scientists in Academia and Industry II (3:3)
Pr. 741
Internship to apply the nurse scientist role in an academic or industry environment.

Health Promotion Models and Interventions (3:3)
Pr. 702 and 712, or permission of instructor
Current epidemiological, methodological, and theoretical approaches to health promotion across the lifespan. Intervention strategies are evaluated.

Health Disparities and Outcomes (3:3)
Pr. 781 or permission of instructor. Coreq. 704
Critical analysis of health disparities and outcomes. Differences in access, use, cost, and quality of health care services; causes of health disparities; and strategies to eliminate disparities.

Advanced Health Policy and Ethics (3:3)
Pr. 782 or permission of instructor
Advanced analysis and evaluation of domestic and international regulation, financing, and delivery of health care; ethical issues and stakeholders that influence policy; evaluation of policies for selected populations.
Directed Research (3:3)
Pr. 704 and prior approval of graduate faculty member who will supervise and evaluate the project
Directed research that culminates in a scholarly product. (Graded on S-U basis)

Independent Study (1-3)
Pr. permission of instructor, Director of Graduate Study and Dean of Graduate School
Guided readings, research, and individual project work under direction of faculty. (Graded on S-U basis)

Dissertation (1-12)
Individual direction for the completion of doctoral dissertation research.

Thesis Extension (1-3)
Dissertation Extension (1-3)
Research Extension (1-3)
Professors

Deborah E. Kipp, Ph.D., R.D.
Effects of nutritional and hormonal imbalances, particularly iron and prolactin, on bone formation (Chair of Department).

George Loo, Ph.D.
Nutritional biochemistry, atherosclerosis and lipoprotein metabolism, cellular and molecular functions of phytochemicals and other natural products.

Cheryl A. Lovelady, Ph.D., R.D.
Nutrition and women’s health with emphasis on nutrient needs during lactation and exercise, assessment of energy intake and expenditure.

Michael K. McIntosh, Ph.D., R.D.
Regulation of adipocyte growth and metabolism, energy metabolism, obesity, diabetes.

Laura S. Sims, Ph.D.
Domestic nutrition policy and its implications, nutrition education, hunger and food assistance.

Rosemary C. Wander, Ph.D.
Impact of dietary fat, including omega-3 fatty acids, on lipid metabolism and cardiovascular disease.

Adjunct Professors

Harvey W. Gruchow, Ph.D.
Epidemiology of heart disease and hypertension focusing on nutrition, infant mortality and adolescent pregnancy prevention.

Vincent C. Henrich, Ph.D.
Gene expression, regulation of steroid production and response, nuclear hormone receptors.

Mary K. Sanford, Ph.D.
Biological and nutritional anthropology, macro and trace minerals in ancient bone and hair.

Associate Professors

Ron F. Morrison, Ph.D.
Transcriptional control of adipocyte differentiation and gene expression, obesity, diabetes, cellular and molecular mechanisms coupling growth arrest and cell differentiation, cell cycle, cancer.

Martha L. Taylor, Ph.D., R.D.
Nutritional status of older adults, health promotion/disease prevention in the community, nutrition education (Director of Graduate Study and Director of Dietetic Internship Program).

Adjunct Associate Professor

Karen S. Katula, Ph.D.
Control of cell division, regulation of human cyclin B gene transcription, antioxidant regulation of gene expression and cell cycle.

Assistant Professors

Lynda M. Brown, Ph.D.
Effects of increased visceral fat on central insulin and leptin sensitivity in middle-aged rats, develop a rat model of menopause to explore the roles of aging, estrogen levels and visceral obesity on central insulin, leptin sensitivity as rats enter reproductive senescence.

Keith Erickson, Ph.D.
Micronutrients and brain development, function, and neurotoxicity.

Lauren Haldeman, Ph.D.
Design of theory-based nutrition interventions for low-income audiences, effects of food insecurity and psychosocial correlates (health beliefs, attitudes, and barriers) on eating behaviors and dietary quality.

Margaret Savoca, Ph.D.
Influence of beliefs about health and family and environmental factors on food choices of those with or at risk for chronic diseases, such as hypertension and type 2 diabetes.
The Department of Nutrition offers graduate programs leading to the Master of Science (M.S.) and the Doctor of Philosophy (Ph.D.) degrees in nutrition. Both degrees offer specializations in community nutrition and nutrition education, human/clinical nutrition, and cellular and molecular nutrition. Background courses in general chemistry, organic chemistry, biochemistry, mammalian physiology, and general nutrition are required for all degree programs. Upon entry, a Plan of Study is developed by students and their advisors or Advisory Committees. This Plan develops strengths in the area of interest the student has chosen.

The Master of Science has both a thesis and non-thesis option. The thesis option is research-based and designed to prepare students for research, administration and practitioner positions in nutrition, or for progression to the Ph.D. program. A written thesis is required for graduation. The non-thesis option is designed to prepare students for consulting, administrative, and practitioner positions in nutrition. A comprehensive examination must be passed. The registered dietitian (R.D.) credential must be obtained for a career in dietetics.

The focus of the doctoral program is the development of critical thinking, problem solving, communication, and organizational skills and the application of these skills to a nutrition-related research problem. The research goal of the department is to optimize human health. This is done through a wide variety of research approaches. Program strengths include nutritional assessment and intervention, nutritional biochemistry, molecular roles of nutrients, nutrition and disease, community nutrition, nutrition education, and life-span nutrition. Graduates of the doctoral program are prepared for careers in research, teaching at the college or university level, consulting, and management.

**Post-Baccalaureate Certificate - Dietetic Internship**

The Dietetic Internship at UNCG is currently granted accreditation by the Commission on Accreditation for Dietetics Education (CADE) of The American Dietetic Association. CADE is a specialized accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the United States Department of Education. The address and phone number of CADE are: 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, (312) 899-4876.

**Admission Requirements**

The Certificate program for the Dietetic Internship is designed for students with a bachelor’s degree from an accredited college or university who have completed the Didactic Program in Dietetics, as required by The American Dietetic Association, and wish to become eligible to take the national registration examination to become a registered dietitian (R.D.). To be eligible for the Dietetics Internship, completion of the undergraduate program must be within five years of application to the internship.

Varied work experiences in dietetics and/or foodservice management are preferred. The selection process is very competitive. Due to the limited number of placements that can be made for a given year, not all applicants who meet the minimum requirements may be selected.

A separate application to the DI program is required and students must apply to such programs following the American Dietetic Association’s computer matching application process. After selection into the program at UNCG, students must then submit an application to The Graduate School as well as all required application materials. In addition to these materials, applicants must provide an ADA Verification Form from their graduate institution and a personal essay stating their interests and experience in dietetics.

A limited number of positions in the DI program are set aside for graduate students who wish to complete both the graduate degree and DI program. Students who are eligible for these positions must complete the application form but do not have to participate in the computer matching process. Students interested in this option must contact the Director of the Dietetic Internship at UNCG for more information.

**Policy on Professional Impairment**

Nutrition faculty are responsible not only for the development of their students, but also to the profession and to the public. The faculty have a responsibility to teach and supervise their students, which is typically done in the context of an amicable relationship. However, they also have a responsibility to protect the public from incompetent professionals and to maintain the standards of the profession. Unfortunately, it is possible that not all students are capable of becoming competent professionals who will maintain standards of the profession. In these cases, faculty are obliged to take action when they have determined the student is professionally impaired. Students who experience continued serious difficulties and do not function effectively in academic and/or interpersonal situations will be counseled early, made aware of career alternatives, and if necessary, dropped from the program.
Definition of Professional Impairment

Professional impairment has been “defined broadly as an interference in professional functioning that is reflected in one or more of the following ways:

1. An inability and/or unwillingness to acquire and integrate professional standards into one’s repertoire of professional behavior.
2. An inability to acquire professional standards skills in order to reach an acceptable level of competency.
3. An inability to control personal stress, psychological dysfunction, and/or excessive emotional reactions that interfere with professional functioning.” (Lamb et al. 1987. *Professional Psychology: Research and Practice* 18: 597-603)

Examples of behaviors which may be evidence of professional impairment include the following The list contains examples, and is not intended to be definitive.

1. Violation of professional standards or ethical codes.
2. Inability or unwillingness to acquire and manifest professional skills at an acceptable level of competency.
3. Behaviors that can reasonably be predictive of poor future professional functioning, such as extensive tardiness or poor compliance with supervisory requirements.
4. Personal unsuitability to the profession, e.g., substance abuse, chronic and disabling physical problems.
5. Interpersonal behaviors and intrapersonal functioning that impair one’s professional functioning such as psychopathology, inability to exercise good judgment, poor interpersonal skills, and pervasive interpersonal problems.

Possible Actions to Follow Manifestations of Professional Impairment

This list contains examples, and is not intended to be definitive. These actions are not hierarchical and need not be applied in each case.

1. A formal reprimand.
2. An unsatisfactory grade (U) in a practicum course with the requirement that the course be repeated, whether it was an elective or required practicum.
3. Personal therapy.
4. Leave of absence.
5. Required additional practicum or course work.
6. Increased supervision (e.g., more frequent supervision, more than one supervisor).
7. Formal probation.
8. Recommendation of withdraw from the program or changing to another program.
9. Recommendation of formal dismissal from the program by the Dean of The Graduate School.

Due Process; Evaluation of Professional Impairment

1. There is a written policy on professional impairment that is systematically distributed to all NTR graduate students, with signatures evidencing student review of the policy. Copies of this will be included in each student’s folder.
2. All students will receive written notification of problems, including written descriptions of specific incidences that may evidence professional impairment, from the Director of the Graduate Program in Nutrition. Such written notification will be placed in the student’s departmental file.
3. The student evidencing professional impairment will usually be given an opportunity for remediation (although individual circumstances may not allow this, and this is not legally required), with specific descriptions of problems, suggestions for remediation, time limit, and notice of consequences if remediation is not successful, all noted in writing. Such written evaluation will also be placed in the student’s departmental file.
4. When the judgment is made that serious professional impairment exists and that the consequences to the student are major, the student may request a hearing in which the student may present his or her view of the situation. The hearing will be convened by the Director of the Graduate Program in Nutrition and will include a member of the Graduate Committee in Nutrition, the member(s) of the faculty who are making judgments of serious professional impairment, the student’s adviser, and the departmental chairperson.
5. Following a hearing, the student will receive written notification within one week that includes: the nature of the problem, opportunities for revision if any, the basis for the decision, and the opportunity for appeal. Such written evaluation will also be placed in the student’s departmental file.
6. After receiving written notification, the student may request an appeal within 14 days to the Chairperson of the Department of Nutrition. The appeal panel will include some persons who are different from those making the original decision, such as a faculty member within the department or school, a faculty representative of The Graduate School, and a member of the faculty selected by the student.
7. The results of the hearing and appeal will be forwarded to the Chairperson of the Department of Nutrition, who may accept, reject, or modify the recommendations. If the Department Chairperson accepts the recommendation to change to student’s program of study, or dismiss the student from the program, this recommendation will be forwarded to the Dean of the Graduate School who, upon further consideration, will notify the student in writing.
The Department of Nutrition offers a graduate program of study leading to a Master of Science degree. This degree offers two options: a thesis option (37 hours minimum) and a non-thesis option (40 hours minimum).

**THESIS OPTION (37 HOURS MINIMUM)**
At least 26 hours must be in 600-level courses. The minimum requirements include:

**Required Core (15 hours minimum)**
- NTR 609 Seminar in Nutrition (4)
- NTR 625 Gene Expression and Protein Metabolism (2)
- NTR 626 Energy, Carbohydrate, Lipid Metabolism (2)
- NTR 627 Antioxidants and Bioactive Food Components (2)
- NTR 628 Vitamins and Minerals (2)

and one of the following options:
- STA 571 Statistical Methods for Research I (3)
- STA 661 Advanced Statistics in the Behavioral and Biological Sciences I (3)
- STA 580 Biostatistical Methods (3)
- ERM 617 Statistical Methods in Education (3)
- ERM 680 Intermediate Statistical Methods in Education (3)
- HEA 604 Public Health Statistics (3)

**Research Techniques (9 hours minimum)**
- NTR 673 Nutrition Research Methodology (3)

At least 6 hours in one or more of the following research courses:
- NTR 601 Directed Study in Nutrition
- NTR 623 Current Trends in Nutrition
- NTR 653 Problems in Food and Nutrition
- NTR 670 Research Skill Development

**NON-THESIS OPTION (40 HOURS MINIMUM)**
At least 26 hours must be in 600-level courses. The minimum requirements include:

**Required Core (14 hours minimum)**
- NTR 609 Seminar in Nutrition (3)
- NTR 625 Gene Expression and Protein Metabolism (2)
- NTR 626 Energy, Carbohydrate, Lipid Metabolism (2)
- NTR 627 Antioxidants and Bioactive Food Components (2)
- NTR 628 Vitamins and Minerals (2)

and one of the following options:
- STA 571 Statistical Methods for Research I (3)
- STA 661 Advanced Statistics in the Behavioral and Biological Sciences I (3)
- STA 580 Biostatistical Methods (3)
- ERM 617 Statistical Methods in Education (3)
- ERM 680 Intermediate Statistical Methods in Education (3)
- HEA 604 Public Health Statistics (3)

**Electives (6 hours minimum)**
With approval of the Graduate Advisory committee, a student will select one 3-hour course from other NTR courses at the 500 or 600 level and at least 3 additional hours in either NTR or other science courses at the 500 or 600 level.

**Thesis (6 hours) (Capstone Experience)**
- NTR 699 Thesis (6)

**Additional Information**
Students will receive a certificate from The Graduate School upon completion of the required course of study and are eligible to take the national certification examination for the credential of Registered Dietitian.
The Department of Nutrition offers a graduate program of study leading to a Doctor of Philosophy degree (63 hours minimum). At least 75% of all course work, exclusive of dissertation hours, must be at the 600 or 700 level. Students entering the Ph.D. program with a Master of Science degree may be granted a waiver for some requirements if they have successfully completed equivalent course work. This decision will be made after evaluation by the student’s major advisor and the doctoral Advisory/Dissertation Committee.

**Required Core Courses** (16 hours)

- NTR 609 Seminar in Nutrition (8)
- NTR 625 Gene Expression and Protein Metabolism (2)
- NTR 626 Energy, Carbohydrate, Lipid Metabolism (2)
- NTR 627 Antioxidants and Bioactive Food Components (2)
- NTR 628 Vitamins and Minerals (2)

**Research Techniques** (21 hours minimum)

With approval of the Advisory/Dissertation Committee, a student will select a minimum of one statistics course (3-4 hours), NTR 673 Nutrition Research Methodology - 3 hours, and two or three additional courses for developing technical competency to enhance research skills and competitiveness (8 hours minimum). Students will also take at least 6 hours in one or more of the following research courses:

- NTR 601 Directed Study in Nutrition
- NTR 623 Current Trends in Nutrition
- NTR 653 Problems in Food and Nutrition
- NTR 670 Research Skill Development

**Electives** (8 hours minimum)

- NTR 602 Introduction to Clinical Dietetics (3)
- NTR 693 Advanced Medical Dietetics (3)

Nine elective hours will be designated from the Supervised Practice component requirement:

- NTR 606a Practicum in Clinical Dietetics: Management (3)
- NTR 606b Practicum in Clinical Dietetics: Clinical (3)
- NTR 606c Practicum in Clinical Dietetics: Community (3)

Successful completion of these courses is required for the student to be eligible to take The American Dietetic Association’s national examination to become a registered dietitian (R.D.).

**Comprehensive Examination** (Capstone Experience)

The written examination is offered at specific times each year. Please consult with the Director of Graduate Study for the dates.

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**PhD Requirements for the Doctor of Philosophy in Nutrition**

The Department of Nutrition offers a graduate program of study leading to a Doctor of Philosophy degree (63 hours minimum). At least 75% of all course work, exclusive of dissertation hours, must be at the 600 or 700 level. Students entering the Ph.D. program with a Master of Science degree may be granted a waiver for some requirements if they have successfully completed equivalent course work. This decision will be made after evaluation by the student’s major advisor and the doctoral Advisory/Dissertation Committee.

**Required Core Courses** (16 hours)

- NTR 609 Seminar in Nutrition (8)
- NTR 625 Gene Expression and Protein Metabolism (2)
- NTR 626 Energy, Carbohydrate, Lipid Metabolism (2)
- NTR 627 Antioxidants and Bioactive Food Components (2)
- NTR 628 Vitamins and Minerals (2)

**Research Techniques** (21 hours minimum)

With approval of the Advisory/Dissertation Committee, a student will select a minimum of one statistics course (3-4 hours), NTR 673 Nutrition Research Methodology - 3 hours, and two or three additional courses for developing technical competency to enhance research skills and competitiveness (8 hours minimum). Students will also take at least 6 hours in one or more of the following research courses:

- NTR 601 Directed Study in Nutrition
- NTR 623 Current Trends in Nutrition
- NTR 653 Problems in Food and Nutrition
- NTR 670 Research Skill Development

**Electives** (8 hours minimum)

- NTR 602 Introduction to Clinical Dietetics (3)
- NTR 693 Advanced Medical Dietetics (3)

Nine elective hours will be designated from the Supervised Practice component requirement:

- NTR 606a Practicum in Clinical Dietetics: Management (3)
- NTR 606b Practicum in Clinical Dietetics: Clinical (3)
- NTR 606c Practicum in Clinical Dietetics: Community (3)

Successful completion of these courses is required for the student to be eligible to take The American Dietetic Association’s national examination to become a registered dietitian (R.D.).

**Comprehensive Examination** (Capstone Experience)

The written examination is offered at specific times each year. Please consult with the Director of Graduate Study for the dates.

**FOR STUDENTS WHO COMPLETED THEIR M.S. AT UNCG**

Students who have completed their MS degree in the Department of Nutrition at UNCG will have already completed the majority of the Required Core Courses, Nutrition Research Methodology, and at least one statistics course. Therefore, their program of study will include primarily Research Techniques credits and Research and Dissertation credit hours. Credit received for courses taken as part of the M.S. degree cannot be counted towards the Ph.D. degree. The majority of credit hours must be at the 600-700 level. Their minimal course work is shown below.
**Nutrition Courses**

**Required Core Courses** (6 hours)
- NTR 609 Seminar in Nutrition (6)

**Research Techniques** (14 hours minimum)
- NTR 601 Directed Study in Nutrition
- NTR 623 Current Trends in Nutrition
- NTR 653 Problems in Food and Nutrition
- NTR 670 Research Skill Development

**Electives** (8 hours minimum)
- With the approval of the Advisory/Dissertation Committee, a student will select 6 hours from other NTR courses at the 500-700 level and an additional 2 hours minimum in NTR or a supporting program at the 500-700 level.

**Research and Dissertation** (18 hours minimum)
- NTR 790 Doctoral Research (6)
- NTR 799 Dissertation Problem (12)

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Students must earn a “C” or better in prerequisite courses for NTR 531, 560, and 573 in order to enroll in these classes.

**500 Supervised Professional Experience (1-4:0:3-12)**
Supervised professional experience in selected commercial or industrial organizations, public or private agencies in accordance with the major course of study of the student.

**531 Nutrition and Human Metabolism (4:4)**
*Pr. grade of C or better in 413, BIO 277, and the following CHE courses: 103 or 111, 104 or 114, 110 or 112, 205 or 351, and 206 or 354; or their equivalents as determined by instructor*
Structure, function, and metabolism of nutrients and related compounds; integration of nutrient metabolism at the cellular level with total body function; practical application of basic principles of nutrient metabolism.

**534 Nutrition and Human Metabolism Laboratory (2:1:3)**
*Pr. general chemistry and organic chemistry with labs; 531 (may be taken concurrently)*
Analytical procedures, their rationale and interpretations, applicable to the study of human metabolism.

**543 Maternal and Infant Nutrition (3:3)**
*Pr. 213 or equivalent, and BIO 277 or equivalent*
Nutritional needs of pregnant and lactating women and infants; methods of evaluating nutritional status of these groups; effects of nutrition on pregnancy outcome and infant development.

**550 Nutrition Assessment (3:2:3)**
*Pr. 213, 313, 413, BIO 277*
Assessment of nutritional status of healthy and ill persons before initiation of medical nutrition therapy.

**553 Child and Adolescent Nutrition (3:3)**
*Pr. 213 or equivalent, and BIO 277 or equivalent*
Nutritional needs of children and adolescents; methods of evaluating nutritional status of these groups; effects of nutrition on development.

**560 Advanced Nutrition (4:4)**
*Pr. grade of C or better in 213, 313, 531, and BIO 277, or equivalents as determined by the instructor*
Biochemical and physiological aspects of nutrient metabolism and utilization. Nutrient requirements for maintenance, growth, pregnancy, lactation, work and aging.

**573 Medical Nutrition Therapy (4:3:2)**
*Pr. grade of C or better in 313, 413, 531, 550, 560, and BIO 277*
Clinical aspects of nutrition. Development and use of therapeutic diets to combat nutritional diseases and physiological disorders.

**576 Nutrition and Physical Fitness (3:3)**
*Pr. 213, 413, BIO 277, or equivalents; ESS 375 or ESS 575 recommended*
Metabolism during exercise, ergogenic aids, nutrients’ effects on performance, and body composition alterations during training. Gender and age-specific needs and responses to exercise and dietary intake. (Same as ESS 576)

**589 Experimental Course**
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

**601 Directed Study in Nutrition (1-6)**
*Pr. permission of graduate faculty member*
May be repeated for credit. (Graded on S-U basis)

**602 Introduction to Clinical Dietetics (3:2:2)**
*Pr. admission into the DI program or 573 and 560*
Preparation for clinical supervised practice experiences in dietetics; helping relationships skills, human resource management, marketing strategies for revenue generating services in dietetics, appropriate professional conduct in patient care. (Fall)

**606a,b,c Practicum in Clinical Dietetics (3-6), (3-6), (3-6)**
For Dietetic Internship students only. Practical experience in the professional areas of dietetics: management, clinical, and community. Required for Dietetic Internship students. Combination of credit not to exceed 9 s.h.

**607 Nutrition Education (3:3)**
*Pr. 550 or equivalent or permission of instructor*
Philosophy, principles, methods, and materials involved in nutrition education. Emphasis on development of nutrition education curriculum and programs in school and community.

**609a,b Seminar in Nutrition (1)(2)**
Review, analysis and presentation of recent research findings and issues in food and nutrition. May be repeated for credit when topic varies. Enrollment for two credits requires presentation of seminar. (NTR 609a, 1 hour credit, graded S-U; NTR 609b, 2 hours credit, graded by letter grade)
Nutrition Consultation Methods (3:2:3)
Pr. 573, 560 or permission of instructor
Exploration of techniques and constraints for interviewing and eliciting change through nutritional consultation.

Current Trends in Nutrition (3:3)
Pr. senior or graduate level course in nutrition or permission of instructor
Emphasis on current trends in nutrition research/education from a molecular, cellular and/or human perspective. May be repeated for credit when topic varies.

Gene Expression and Protein Metabolism (2:4)
Pr. previous course in general nutrition, biochemistry and mammalian physiology and unconditional admission to the graduate program in Nutrition or other life sciences, or permission of instructor
Integration of cell biology and protein metabolism in relation to gene expression and regulation of enzyme activity in mammalian cells. Critical analysis of recent literature. (Fall)

Energy, Carbohydrate, Lipid Metabolism (2:4)
Pr. 625, previous course in general nutrition, biochemistry and mammalian physiology, and unconditional admission to the graduate program in Nutrition or other life sciences, or permission of instructor
Analysis of energy intake and metabolism; carbohydrate and lipid absorption, transport, and tissue-specific utilization. Clinical applications. Critical analysis of recent literature.

Antioxidants and Bioactive Food Components (2:4)
Pr. 625, previous course in general nutrition, biochemistry and mammalian physiology, and unconditional admission to the graduate program in Nutrition or other life sciences, or permission of instructor
Metabolism and function of selected bioactive food components, such as flavonoids, stanols and sterols, anthocyanins, carotenoids, polyphenolics, indole-3-carbinol. Clinical applications. Critical analysis of recent literature.

Vitamins and Minerals (2:4)
Pr. 625, previous course in general nutrition, biochemistry and mammalian physiology, and unconditional admission to the graduate program in Nutrition or other life sciences, or permission of instructor
Metabolism functions of selected vitamins. Regulation of selected trace metals emphasizing nutrient-gene interactions. Clinical applications. Critical analysis of recent literature.

Nutrition and Aging (3:3)
Pr. 213, BIO 277 or equivalent, or permission of instructor
Explore the nutritional issues associated with aging and the older adult (65 years+). Theories of aging; aging and chronic diseases; effects of aging on nutrient requirements; nutrition programs and services.

Problems in Food and Nutrition (2-4)
Pr. permission of instructor
Individual student problems related to food and nutrition. May be repeated for credit. (Graded on S-U basis)

Teaching Practicum in Nutrition (3:3)
Pr. admission to the graduate program in nutrition or permission of instructor.
Provides a supervised, structured learning experience in teaching for graduate students in the Department of Nutrition. Professors provide guidance for graduate students during the experience.

Research Skill Development (2-6)
May be repeated for credit. (Graded on S-U basis)

Nutrition Research Methodology (3:3)
Pr. 531 or equivalent as determined by the Department
Diverse research techniques used in cellular, small animal, and human experimental studies in nutritional sciences. Orientation to research methodologies, grant proposal writing, ethical use of human (IRB) and animal (IACUC) models, and policy in nutrition.

Nutrition and Physical Performance (3:3)
Pr. course work in biochemistry and physiology required, 531, 560 or equivalent courses, BIO 277
Effects of nutrition on physical performance, alternations in nutrient metabolism from increased activity, interaction of diet and exercise on aging and disease processes, training and competition diets examined.

Advanced Medical Dietetics (3:3)
Pr. 573 or equivalent
Development of nutritional therapies for certain disease conditions. Evaluation of the physiological and biochemical bases for such therapies. (Fall)

Nutritional Genomics (3:3)
Pr. permission of instructor
Comprehensive evaluation of principles and applicability of methodologies used to evaluate the regulation of gene expression in the field of nutrition science. May be repeated for credit.

Nutritional Proteomics (3:3)
Pr. permission of instructor
Comprehensive evaluation of principles and applicability of methodologies used to evaluate protein expression and function in the field of nutrition science. May be repeated for credit.

Thesis (1-6)
Required of all candidates for the Master of Science degree. Credit may be divided over two or more semesters. (Graded on S-U basis)

Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

Doctoral Research (1-6)
Pr. approval of graduate faculty member
Individual work on problems related to student’s primary area(s) of specialization. Empirical research or critical reviews and integrations of literature. May be repeated for credit. (Graded on S-U basis)

Dissertation Problem (1-12)
Pr. completion of oral and written comprehensive examinations
Required of all candidates for the Doctor of Philosophy degree. May be repeated for credit. (Graded on S-U basis)

Thesis Extension (1-3)

Dissertation Extension (1-3)

Research Extension (1-3)
Department of Philosophy

Professors

Joshua Hoffman, Ph.D.
Analytical metaphysics (theory of substance, theory of categories), analytical philosophy of religion, history of philosophy.

Jarrett Leplin, Ph.D.
Philosophy of science, epistemology.

Terrance McConnell, Ph.D.
Ethical theory, medical ethics, political philosophy.

Gary Rosenkrantz, Ph.D.
Metaphysics, epistemology, philosophy of mind, philosophy of religion (Head of Department).

Michael Zimmerman, Ph.D.
Ethics, action theory.

Associate Professors

Heather Gert, Ph.D.
Ethics, Wittgenstein.

Janine Jones, Ph.D.
Philosophy of mind, philosophy of language.

John King, Ph.D.
Epistemology, logic, history and philosophy of science, philosophy of mind.

Adjunct Associate Professor

John Young, Ph.D.
Philosophy of language, ethics, ancient and medieval philosophy, philosophy of religion.

Assistant Professor

David Lefkowitz, Ph.D.
Political philosophy, philosophy of law, ethics.

Graduate Programs in Philosophy

• No graduate degree program offered; see Master of Arts in Liberal Studies on page 212.

Philosophy Courses

520 Advanced Topics in Biomedical Ethics (3:3)
Pr. 220 or permission of instructor
Detailed examination of a particular issue in biomedical ethics, such as research ethics, assisted suicide and euthanasia, and the acquisition and allocation of organs for transplantation. May be repeated for credit when topic varies.

523 Philosophy of Social and Behavioral Science (3:3)
Central issues in philosophy of social and behavioral science from Hume to the present; explanation, theory construction, methodology of the social sciences, the status of the sociology of knowledge.

525 Philosophy of Physical Science (3:3)
Pr. one course in physical science and one in philosophy or permission of instructor
Current issues in the philosophy of science such as scientific progress and scientific change, scientific methods, relations between experiment and theory, scientific explanation, rationality and scientific realism, relations between philosophy of science and history of science. Examples drawn from modern history of physical science.

527 Philosophy of Biological Science (3:3)
Pr. one course in biology and one in philosophy or permission of instructor
Examination of concepts of law, theory, explanation, evidence, classification, and reduction using examples from biology. Investigation of problems related to alternative conceptual systems and conceptual change in biology, the nature of the biological subject matter, and the place of biology among the natural sciences.

545 Social Philosophy (3:3)
Pr. one course in philosophy or permission of instructor
Topics from social, political, and legal philosophy, such as property, justice, punishment, liberalism, conservatism, and a study of such major figures as Hobbes, Locke, Mill, and Rawls.

555 Epistemology (3:3)
Pr. one course in philosophy or permission of instructor
Skepticism, the analysis of knowledge, confirmation and induction, a priori knowledge, knowledge and truth.
559 Philosophy of Mind (3:3)
Pr. one course in philosophy or permission of instructor
The mind-body problem, identity theories, functionalism, reductive and eliminative materialism, behavioral and causal theories of mind.

565 Philosophy of Language (3:3)
Pr. one course in philosophy or permission of instructor
Theories of truth, meaning, and reference. The origin and nature of human language and its relation to animal and machine language.

575 Advanced Logic (3:3)
Pr. 311 or permission of instructor
Axiomatic first order quantification theory with completeness theorems. Numbers and sets. Paradoxes and Type Theory. Introduction to modal logic.

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

590 Aesthetics (3:3)
Pr. 322 or permission of instructor
Readings in the major philosophies of art. Analysis of the justification of evaluative judgments about art, the nature of aesthetic concepts, artistic truth, the art object, and the aesthetic experience.

601 Advanced Topics in Philosophy (3:3)
Pr. permission of instructor
Topics may include relativism, legal ethics, and artificial intelligence. May be repeated for credit when topic varies.

620 Ethics and Genetics (3:3)
Pr. matriculation to third semester of M.S. genetic counseling program or permission of instructor
Ethical issues in the acquisition and application of knowledge about the human genome. Topics include genetic testing and abortion, predictive testing, testing for minors, confidentiality, gene therapy, and human cloning.

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.
### Department of Physics and Astronomy

**Professor**

**Gerald W. Meisner**, Ph.D.
Experimental elementary particle physics, physics education, instructional use of telecomputing systems.

**Associate Professors**

**Stephen C. Danford**, Ph.D.
Observational stellar astronomy.

**Edward H. Hellen**, Ph.D.
Biophysics, nonlinear dynamics, fluorescence techniques, nerve signal propagation.

**Promod Pratap**, Ph.D.
Biophysics of biological membranes, biological energetics, thermodynamics of biochemical reactions (Head of Department).

**Assistant Professor**

**Anatoly Miroshnichenko**, Ph.D.
Observational astrophysics, interstellar and circumstellar matter.

Graduate level physics and astronomy courses prepare students for graduate study or for careers in industry, government, or teaching and may be used by teachers in elementary, middle, and secondary schools for licensure renewal.

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### Physics Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>543</td>
<td>Biophysics (3:3)</td>
<td>Pr. PHY 211, 212 or 291, 292, MAT 191, BIO 355, CHE 111, 114, or permission of instructor. Cellular biophysics with emphasis on the physical properties of membranes, including membrane transport mechanisms and electrical properties of membranes. (Same as BIO 543)</td>
</tr>
<tr>
<td>589</td>
<td>Experimental Course</td>
<td>This number reserved for experimental courses. Refer to the Course Schedule for current offerings.</td>
</tr>
<tr>
<td>601</td>
<td>Teaching Concepts in Physics and Astronomy (3:3)</td>
<td>Pr. permission of instructor Research in physics education, implications for instruction.</td>
</tr>
<tr>
<td>603, 604</td>
<td>General Physics for Teachers (3:3), (3:3)</td>
<td>Pr. one year of college physics, one year of college mathematics, or permission of instructor Concepts and theories, with some performance of demonstration and laboratory experiments. Develop basic knowledge of mechanics, properties of matter, heat, waves, electromagnetic fields, atomic structure and spectra, particle and wave theories.</td>
</tr>
<tr>
<td>605</td>
<td>Advanced-Placement Physics for Teachers (3:3)</td>
<td>Pr. permission of the instructor Concepts of mechanics, heat and wave motion presented in terms of the calculus.</td>
</tr>
<tr>
<td>606</td>
<td>Advanced-Placement Physics for Teachers (3:3)</td>
<td>Pr. permission of the instructor Concepts of electricity and magnetism, optics and modern physics presented in terms of the calculus.</td>
</tr>
<tr>
<td>607, 608</td>
<td>Modern Physics for Teachers (3:3), (3:3)</td>
<td>Pr. permission of instructor Recent developments in physics.</td>
</tr>
<tr>
<td>612</td>
<td>Experimental Physics for Teachers (1-3)</td>
<td>Pr. one year college physics, one year college mathematics, and permission of instructor Laboratory study of basic experiments. Principles of experimentation, laboratory techniques, laboratory safety, and techniques of data analysis. With permission of instructor, may be repeated for credit.</td>
</tr>
<tr>
<td>711</td>
<td>Experimental Course</td>
<td>This number reserved for experimental courses. Refer to the Course Schedule for current offerings.</td>
</tr>
</tbody>
</table>
Astronomy Courses

609 Solar System Astronomy for Teachers (3:3)
Basic concepts of planetary astronomy are introduced, including atmospheres, geology, and observing. High school mathematics is utilized. Teaching materials and strategies are developed.

635 Stars and Galaxies for Teachers (3:3)
Basic concepts of stellar and galactic astronomy are introduced, including stellar evolution, galaxies, and cosmology. High school mathematics is utilized. Teaching materials and strategies are developed.
Department of Political Science

Professors

James Clotfelter, Ph.D.
Southern politics, public policy (health, defense).

William Crowther, Ph.D.
Comparative politics, political economy, Eastern Europe, inter-ethnic relations.

Ruth Hoogland DeHoog, Ph.D.
Public administration, urban management, privatization, organization theory and behavior (Head of Department).

Charles L. Prysby, Ph.D.
Research methods, elections, voting behavior, political parties, southern politics, contextual analysis.

Jerry Pubantz, Ph.D.
International politics, Middle East politics, the United Nations, American Foreign Policy, and globalization.

Associate Professors

Susan J. Buck, Ph.D.
Environmental policy and law, public policy, administrative law.

Robert J. Griffiths, Ph.D.
Comparative and international politics, African politics, civil-military relations, politics of development.

David Holian, Ph.D.
The presidency, legislative politics, mass media, public opinion, and political methodology.

Kenneth A. Klase, D.P.A.
Public administration, public budgeting and finance, public financial management (Director of Graduate Study).

Fabrice Lehoucq, Ph.D.
Comparative politics, Latin American politics, political economy of development.

Gregory E. McAvoy, Ph.D.
Public policy, research methods, environmental policy, program evaluation.

Assistant Professors

Susan W. Johnson, Ph.D.
American politics, judicial politics, Supreme Court decisionmaking, Canadian Supreme Court.

Carisa Showden, Ph.D.
Modern and contemporary political theory, feminist theory, women in U.S. politics.

Takashi Tsukamoto, Ph.D.
Urban politics, community and economic development, urban development policy.

Lecturer

J. Alan Boyette, Ph.D.
State politics, federalism and intergovernmental relations, public policy (environment, education, campaign finance).

The M.P.A. degree is intended for public service professionals in local, state, and federal agencies; private, nonprofit agencies and voluntary organizations; public affairs offices in private businesses; and legislative staff positions. It provides professional training designed to meet current demands in public service positions and build the foundation for long-term development and advancement in a public service career. The M.P.A. program is accredited by the National Association of Schools of Public Affairs and Administration (NASPAA).

The Master of Public Affairs is linked to the Bachelor of Arts in economics and the Bachelor of Arts in political science so that a student may earn both degrees in approximately five years. Undergraduates must be
The Department of Political Science offers a program of study leading to a Post-Baccalaureate Certificate in nonprofit management. At least 9 hours must be taken in the M.P.A. curriculum.

Certificate graduates will be prepared for management positions in the nonprofit sector, including positions in human service agencies, foundations, or professional associations. The certificate program could prove to be useful to government and business professionals as well, especially if they have significant voluntary or nonprofit agency responsibilities. The program combines core courses and electives that allow a student some choice and tailoring to specific interests.

**Core Requirements (6 hours)**

- PSC 540 Nonprofit Management and Leadership (3)
- PSC 550 Philanthropy and Resource Development (3)

**Choice Requirements (3 hours)**

- PSC 511F Problems in Public Management: Financial Management (1) or PSC 511R Problems in Public Management: Nonprofit Budgeting (1)

Plus two of the following:

- PSC 511B Problems in Public Management: Marketing for Public and Nonprofit Agencies (1)
- PSC 511D Problems in Public Management: Strategic Planning (1)
- PSC 511F Problems in Public Management: Financial Management (1)
- PSC 511G Problems in Public Management: Grant Writing (1)
- PSC 511N Problems in Public Management: Nonprofit Law (1)

**Electives (6 hours)**

Students must take 6 hours in a combination of one-hour courses (PSC 511): financial management or nonprofit management ( whichever was not chosen above), strategic planning, marketing, legislative relations, volunteer management, media relations, oral communication skills, grantwriting, nonprofit law; and/or 3 hour courses from the M.P.A. curriculum or approved courses outside the department in human development and family studies, social work, public health, business administration, and/or counseling.

**URBAN AND ECONOMIC DEVELOPMENT**

The Departments of Political Science and Geography jointly offer a program of study leading to a Post-Baccalaureate Certificate in urban and economic development. This certificate requires courses emphasizing the knowledge and skills to prepare students to work in organizations focusing on urban planning and community economic development activities in government and nonprofit organizations.

The certificate requires 18 semester hours of course work (12 hours of core courses and 6 hours of approved electives).

**Required Core Courses (12 hours)**

- GEO 502 Urban Planning (3)
- GEO 533 Industrial Development: State and Local (3)
- PSC 520 The Urban Political System (3)
- PSC 630 Community and Economic Development Theory and Practice (3)

**Electives (6 hours)**

Select two from the following:

- GEO 602 Regional Planning (3)
- GEO 603 Understanding Geographic Information Systems (3)
- GEO 622 GIS Applications in Urban Planning (3)
- GEO 631 Transportation Planning (3)
- PSC 613 Local Government Administration (3)
- PSC 620 Urban Development Policy (3)
The Department of Political Science offers a graduate program of study leading to a 40 hour M.P.A. degree. Students with no work experience in public or nonprofit agencies must complete an additional 3 hour supervised internship.

The program provides a foundation in the major substantive areas of public affairs: policy-making and policy analysis; administration, management and organizational behavior; quantitative analysis and evaluation; and the political context of public administration. Beyond these areas, students can develop a specialization in courses in political science and up to 9 hours in other departments (e.g., geography, social work, public health education).

Prerequisite (3 hours)
The program requires students to have completed an undergraduate course in American government, politics, or public policy.

Core Courses (23 hours)
The eight required courses are to be taken in approximately the following order, when possible:

- PSC 600 Public Administration and Management (3)
- PSC 601 Politics of Public Policy (3)
- PSC 602 Quantitative Analysis and Program Evaluation (3)
- PSC 603 Budgeting and Fiscal Administration, with lab (4)
- PSC 604 Public Personnel Management (3)
- PSC 511J Problems in Public Management: Legal Issues in Public Administration (1)
- PSC 612 Organizational Behavior and Leadership (3)
- One applied research tools course chosen from 503, 504, 610, or 611 (3)

Electives (17 hours)
Regularly offered courses:

- PSC 504 Public Management Information Systems (3)
- PSC 510 Topics in Public Policy (1-3)
- PSC 511 Problems in Public Administration (1)
- PSC 512 Federalism and Intergovernmental Relations (3)
- PSC 516 Administrative Law (3)
- PSC 520 The Urban Political System (3)
- PSC 530 Administrative and Elected Leadership (3)
- PSC 540 Nonprofit Management and Leadership (3)
- PSC 550 Philanthropy and Resource Development (3)
- PSC 560 Special Topics in Public Administration (1-3)
- PSC 610 Public Policy Analysis (3)
- PSC 613 Local Government Administration (3)
- PSC 615 Human Resource Development and Performance Management (3)
- PSC 620 Urban Development Policy (3)
- PSC 630 Community and Economic Development Theory and Practice (3)

Students may take up to 9 hours from approved graduate courses in other departments.

Experiential Component
Students not having approved prior work experience will complete a supervised internship (PSC 695) in a public or nonprofit agency for 3-6 hours credit, depending on the duration of the placement, together with a directed field study (PSC 696). Students with prior work who desire experience in a new area of public affairs may choose to complete an internship as well.

Comprehensive Examination (Capstone Experience)
The required exam consists of two parts: (1) a written essay examination (based on core courses) when halfway through the graduate program, and (2) a summary of learning paper completed near the end of graduate work.

COMMUNITY AND ECONOMIC DEVELOPMENT CONCENTRATION
This concentration combines the M.P.A. core requirements with courses emphasizing the knowledge and skills to prepare students to work in organizations focusing on community and economic development activities. The prerequisite, comprehensive exam, and the experiential component are the same as for the M.P.A.

Required Courses (35 hours)
Students must complete all of the M.P.A. core courses including the required research tools course. They must also complete 15 hours of course work related to community and economic development skills and knowledge. Required courses are:

- PSC 520 The Urban Political System (3)
- PSC 620 Urban Development Policy (3)
- PSC 630 Community and Economic Development Theory and Practice (3)
- PSC 511J Problems in Public Management: Legal Issues in Public Administration (1)

Plus one of the following courses:

- GEO 502 Urban Planning (3)
- GEO 533 Industrial Development: State and Local (3)
**Electives (5 hours)**
With the approval of the Director of Graduate Study, students may select additional course work from political science or other departments, such as geography, sociology, business administration, or economics.

**Internship (3 hours)**
An internship (PSC 695) is required for students who have no prior experience in a professional or management position in community and economic development.

**LOCAL GOVERNMENT MANAGEMENT CONCENTRATION**
This concentration combines the M.P.A. core requirements with courses emphasizing the knowledge and skills to prepare students to work as local government managers. The prerequisite, comprehensive exam, and experiential component are the same as for the M.P.A.

**Required Courses (29 hours)**
Students must complete all of the M.P.A. core courses including the required research tools course (23 hours). For the concentration, they must complete 6 hours of required course work related to local government management skills and knowledge.

- PSC 520 Urban Political Systems (3)
- PSC 613 Local Government Administration (3)

**Electives (11 hours)**
Students complete an additional 11 hours of elective course work. Nine of these elective hours together with the 6 hours of required concentration courses listed above complete a 15 hour concentration in local government management.

Recommended courses include:
- PSC 560F Special Topics in Public Administration: Public Financial Management (2)
- PSC 512 Federalism and Intergovernmental Relations (3)
- PSC 530 Administrative and Elected Leadership (3)
- PSC 510K Topics in Public Policy: Ethics in Public Policy (3)

**NONPROFIT MANAGEMENT CONCENTRATION**
This concentration combines the M.P.A. core requirements with courses emphasizing the knowledge and skills to prepare students to work in or with the nonprofit sector. The prerequisite, comprehensive exam, and the experiential component are the same as for the M.P.A.

**Required Courses (31 hours)**
Students must complete all but one of the M.P.A. core courses (PSC 511N substitutes for PSC 511J). The research tools requirement in the M.P.A. core will be met by PSC 611. They must also complete 15 hours of course work related to nonprofit management skills and knowledge. Required courses are:

- PSC 540 Nonprofit Management and Leadership (3)
- PSC 550 Philanthropy and Resource Development (3)

Plus three of the following four one-hour Problems in Public Management:

- PSC 511B Marketing for Public and Nonprofit Agencies (1)
- PSC 511D Strategic Planning (1)
- PSC 511F Financial Management (1)
- PSC 511G Grant Writing (1)

**Electives (9 hours)**
With the approval of the Director of Graduate Study, students may select courses from political science or up to 9 hours in other departments, such as social work; recreation, tourism, and hospitality management; or sociology.

**Internship (3 hours)**
An internship (PSC 695) is required for students who have no prior experience in a professional or management position in a nonprofit agency.

**M.P.A. WITH POST-BACCALAUREATE CERTIFICATE IN GERONTOLOGY**
Students with an interest in public service work related to the elderly and meeting the needs of an aging society may complete elective course work in the M.P.A. degree by jointly completing the Post-Baccalaureate Certificate in Gerontology.
MA Requirements for the Master of Arts in Political Science

The Department of Political Science offers a graduate program of study leading to a 30 hour M.A. degree. Course offerings and the thesis focus on public administration and policy.

Required Courses (6 hours)
Two courses must be taken in the first 18 hours:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 601</td>
<td>Politics of Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>PSC 602</td>
<td>Quantitative Analysis and Program Evaluation</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (24 hours)
Students select from departmental offerings. Up to 6 hours may be taken as independent study courses.

Thesis
See the Director of Graduate Study for details.

Comprehensive Examination (Capstone Experience)
A written comprehensive examination is required when 18 hours of course work have been completed.

Political Science Courses

501 Selected Topics in Political Science (1-3)
Pr. major in political science or permission of instructor
Opportunity for advanced students to study in depth a topic of special interest. May be repeated for credit when topics vary.

503 Survey Methods for Policy Research (3:3)
Theoretical and practical issues involved in designing and using sample surveys for political and policy research. Emphasis on survey methods used by the government and others in the public sector.

504 Public Management Information Systems (3:3)
Overview of management information systems in public and nonprofit organizations, covering broad questions of design, management, training, utilization, and impact of decision making.

505 Problems in Politics (3:3)
Seminar in research and study in political science. Attention also on problems of methodology and alternative conceptions of field of political science as a scholarly discipline.

510 Topics in Public Policy (1-3)
Pr. permission of instructor
Intensive analysis of a major area of public policy. Examination of the sources of policy making, the policy-making process and the impact of policy. Students may repeat the course but not the same topic. 510a, Politics of Education; 510b, Criminal Justice; 510c, Labor Relations; 510d, Foreign and Defense Policy; 510e, Environmental Policy; 510f, Urban Development Policy; 510g, Health and Social Policy; 510h, Global Challenges; 510i, Press and Politics; 510j, Industrial Policy; 510k, Ethics in Public Policy.

511 Problems in Public Management (1)
Pr. permission of instructor
Intensive examination of important current problems related to the management of public institutions. 511j, Legal Issues in Public Administration, is a required course. Students may repeat the course when topics vary for a maximum of six credit hours.

512 Federalism and Intergovernmental Relations (3:3)
Pr. permission of instructor or 210, or 310; or graduate standing
Focuses on changing relationships of local-state-federal agencies, expanding role of regional cooperation and recent developments in sub-national governments.

516 Administrative Law (3:3)
The law, practice, and procedure in federal administrative agencies: agency rulemaking; administrative adjudication; judicial review; informal process and administrative discretion.

520 The Urban Political System (3:3)
Examination of major topics in the study of urban government and politics, including citizen participation, interest groups, parties, types of elections, forms of government, community power, and racial politics.

530 Administrative and Elected Leadership (3:3)
Pr. permission of instructor
Recruitment, selection, and roles of executives and legislators; organization and activities of the offices; and relationships among executive offices, administrative offices, and legislative bodies.

535 Citizen Participation in Policy Making (3:3)
Pr. permission of instructor
Political participation and citizen involvement in governmental policy making. Both citizen-initiated and government-sponsored efforts to increase popular input will be analyzed. Assessment of the impact of citizen participation on policy-making in specific areas of policy and on the performance of government in general.

540 Nonprofit Management and Leadership (3:3)
Pr. senior or graduate standing
Overview of major concepts and concerns of nonprofit organizations, including tax-exempt status, incorporation, nonprofit-government relations, board-director-staff relations, volunteers, service and program planning, implementation, resource development.
550 Philanthropy and Resource Development (3:3)
Pr. 540 and senior or graduate standing
Major concepts, strategies, issues, and approaches to resource development and philanthropy in nonprofit and educational organizations.

560 Special Topics in Public Administration (1-3)
Pr. permission of M.P.A. Program Director or instructor
Specific topic identified by extension to basic title: e.g., Special Topics in Public Administration: Public Financial Management; Financial Analysis Techniques; Grants and Contract Administration. Students may repeat three credit hour courses when topics vary. One credit hour courses may be repeated for a maximum of three credit hours when topics vary.

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

600 Public Administration and Management (3:3)
Pr. admission to the M.P.A. program or permission of instructor
Political environment, structure and process of public bureaucracies; organizational theory; professional ethics; and administrative functions including management, budgeting, and personnel.

601 Politics of Public Policy (3:3)
Pr. admission to the M.P.A. program or permission of instructor
Public policy process from agenda-setting to policy formation, legitimation, and implementation.

602 Quantitative Analysis and Program Evaluation (3:3)
Pr. admission to the M.P.A. program or permission of instructor
Basic principles of research design, measurement, data analysis, and computer usage for research in politics and public policy.

603 Budgeting and Fiscal Administration (3:3)
Pr. 600 or permission of instructor
Purposes of budgets. The political and economic environment that surrounds the budgetary process in government. Budget preparation, enactment, execution, and decision making at the federal, state, and local levels. Must be enrolled in PSC 603 and PSC 603L at the same time.

603L Budget Analysis Laboratory (1:1)
Pr. 600 or permission of instructor
Problems and exercises designed to assist students in understanding public budgeting. Emphasis on analyzing and communicating budget data. Must be enrolled in PSC 603 and PSC 603L at the same time.

604 Public Personnel Management (3:3)
Pr. 600 or permission of instructor
Employment practices as applied in the public sector; merit and merit systems, position management, equal employment opportunity and affirmative action, unionization, employee rights, and representative bureaucracy.

610 Public Policy Analysis (3:3)
Pr. 602
Approaches to analyzing public policy; cost-benefit analysis, decision-analysis, and other analytical methods used in policy development and evaluation.

611 Program and Policy Evaluation (3:3)
Pr. 602 or permission of instructor
Structure of program evaluation; identification and measurement of program outcomes; use of experiments and quasi-experiments in evaluation; development of performance measures; analysis of program evaluation data.

612 Organizational Behavior and Leadership (3:3)
Pr. 600 or permission of instructor
Behavior of public and nonprofit organizations. Problems of leadership, group dynamics, conflict resolution, and organizational change.

613 Local Government Administration (3:3)
Pr. permission of instructor
Administrative process, management, personnel, budget and finance, and intergovernmental relations in local government.

615 Human Resource Development and Performance Management (3:3)
Public and nonprofit employee performance evaluation and development: theories of motivation, workforce trends, training techniques and trends, career development, employee performance and evaluation techniques. Workshop format with group exercises.

620 Urban Development Policy (3:3)
Examines nature and evolution of U.S. urban development policy, including urban renewal, the war on poverty, and empowerment zones.

630 Community and Economic Development Theory and Practice (3:3)
Pr. permission of M.P.A. program director or instructor
Critical analysis of community and economic development theory and practice and its historical and theoretical roots, methods, strategies, and tactics.

631 Thesis Extension (1-3)
Pr. permission of M.P.A. program director or instructor
Thesis extension for advanced students in public affairs who have had work experience or internships in public agencies.

632 Thesis Internship (3-6)
Pr. 600, 601, 602, at least three other graduate level courses in political science, and permission of instructor
A full-time work and learning experience in a public or nonprofit agency of approximately three months duration designed to provide the graduate student with practical experience in the ongoing operations of an agency of government or an organization engaged in public affairs activities.

633 Thesis Internship (1-3)
Pr. 600, 601, 602, at least three other graduate level courses, and permission of instructor
Field research on selected problems and issues in public policy, including research design, data collection, data analysis, and interpretation of results. Open to advanced graduate students in the Master of Public Affairs program.

634 Directed Field Research (3-6)
Pr. 600, 601, 602, three other graduate level courses, and permission of instructor
Field research on selected problems and issues in public policy, including research design, data collection, data analysis, and interpretation of results. Open to advanced graduate students in the Master of Public Affairs program.

635 Special Problems in Political Science (1-3, 1-3)
Independent study or research in political science. Prior consent of faculty member with whom student wishes to work.

699 Thesis (1-6)

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

801 Thesis Extension (1-3)

803 Research Extension (1-3)
Professors

Arthur D. Anastopoulos, Ph.D.
Attention-Deficit/Hyperactivity Disorder in children, adolescents, and adults, including multi-method assessment, multi-modal treatment, parent-child interactions, and parent training.

Anthony DeCasper, Ph.D.
Early development of human perception and learning from the prenatal period to the preschool years.

Robert Guttentag, Ph.D.
Cognitive development, children’s learning and remembering.

Timothy Johnston, Ph.D.
Comparative studies of behavioral development and evolution, and the history of developmental theories in psychology and biology.

Susan P. Keane, Ph.D.
Social and emotional development in children and adolescents, peer relations, friendship, developmental psychopathology.

Cheryl Logan, Ph.D.
Animal communication, especially the reproductive functions of mockingbird song, history of psychology.

George F. Michel, Ph.D.
Developmental psychobiology, sensorimotor development during infancy, neuroendocrine processes in mammalian parental care (Head of Department).

Rosemary Nelson-Gray, Ph.D.
Adult depression and personality disorders; theory and techniques of behavioral assessment.

Walter Salinger, Ph.D.
Physiology of behavior, particularly pre- and postnatal neural development, infant and adult neural plasticity, visual physiology.

John Seta, Ph.D.
Processes related to social cognition and groups.

Terri L. Shelton, Ph.D.
Developmental psychopathology, assessment and treatment of young children.

Jacquelyn White, Ph.D.
Gender issues and interpersonal violence with a particular focus on intimate partner aggression and victimization.

Associate Professors

Michael J. Kane, Ph.D.
Attention and memory, particularly where they interact in the “working memory” system and how they contribute to intelligence and higher-order cognitive processes.

Thomas R. Kwapił, Ph.D.
Schizophrenia and related illnesses studied from experimental and developmental psychopathology perspectives.

Douglas W. Levine, Ph.D.
Areas of quantitative research includes power analysis, classification problems, categorical data analysis, and using resampling methodologies in factor analysis (Director of Graduate Study).

Paul Silvia, Ph.D.
Self-awareness, self-regulation, cognition and emotion.

Edward J. Wisniewski, Ph.D.
Cognitive processes underlying concept formation and conceptual combination, judgment and decision making.

Assistant Professors

Wesley D. Allan, Ph.D.
Child anxiety disorders, focusing on social phobia and related family factors.

Janet J. Bosevski, Ph.D.
Social cognition in early to middle childhood, including personality understanding, stereotyping and prejudice; development psychopathology.
Graduate Degrees

The Psychology Department offers two graduate training tracks. Students may apply to either or both tracks. One track leads to a terminal Master of Arts in general experimental psychology; the other leads to a Ph.D. with specializations in clinical, cognitive, developmental, and social psychology. The clinical program is fully accredited by the American Psychological Association.

At both the M.A. and the Ph.D. levels, the objective is to provide the combination of a sound scholarly foundation with methodological and practical skills that will enable the student to function in a variety of academic, research, and service settings. The program has an experimental orientation, with four major areas of concentrations:

- Clinical (Allan, Anastopoulos, Keane, Kwapiel, Nelson-Gray)—includes research training and clinical training in a variety of service settings.
- Developmental (Boseovski, Calkins, DeCasper, Gazelle, Guttentag, Johnston, Keane, Marcovitch, Michel, Sahakyan, Salinger)—includes basic research in behavioral, cognitive, language, and social development in infant, child, adolescent, and adult humans and in animals.
- Cognitive (Delaney, Guttentag, Kane, Marcovitch, Sahakyan, Touron, Wisniewski) — includes basic research in human memory, cognition, and language.
- Social (Boseovski, Calkins, Logan, Seta, Silvia, and White) — includes basic research in social phenomena, e.g., aggression, attitudes, communication, gender relations, intergroup comparison, and social competence.

The goal of the terminal M.A. is the Master of Arts degree. Those who successfully complete the terminal M.A., however, may apply to the Ph.D. program. In addition, students with master’s degrees from other institutions are welcome to apply to the Ph.D. program. Their past work is evaluated to determine which requirements of our program have been satisfied.

Policy on Professional Impairment

Clinical faculty bear a double loyalty—not only to their students, but also to the profession and to the public. On the one hand, clinical faculty have a responsibility to teach and supervise their students, which is typically done in the context of an amicable relationship. On the other hand, clinical faculty have a responsibility to protect the public from incompetent professionals and to maintain the standards of the profession. Unfortunately, it is possible that not all students are capable of becoming competent professionals who will maintain the standards of the profession. In these cases, faculty are obliged to take action when they have determined the student is professionally impaired.

Specifically, the Accreditation Handbook of the American Psychological Association (1979) specifies that:

- “programs must develop an explicit, comprehensive system for evaluation” (p. 8); and
- “students who experience continued serious difficulties and do not function effectively in academic and/or interpersonal situations should be counseled early, made aware of career alternatives, and if necessary, dropped from the program” (page 14).

Definition of Professional Impairment

Professional impairment has been “defined broadly as an interference in professional functioning that is reflected in one or more of the following ways:

- an inability and/or unwillingness to acquire and integrate professional standards into one’s repertoire of professional behavior.
- an inability to acquire professional skills in order to reach an acceptable level of competency.
- an inability to control personal stress, psychological dysfunction, and/or excessive emotional reactions that interfere with professional functioning” (Lamb, Presser, Post, Baum, Jackson, & Jarvis; Professional Psychology: Research and Practice, 1987, 18, 597-603).

Documents that describe standards of professional practice and local expected procedures include: APA Ethical Principles of Psychologists, APA Standards for Providers of Psychological Services, Joint Standards for Educational and Psychological Testing (laws and statutes that regulate professional practice within North Carolina), UNCG Psychology Clinic Manual.

Examples of behaviors which may be evidence of professional impairment include the following. This list contains examples, and is not intended to be definitive:

Peter Delaney, Ph.D.
Planning and problem solving, memory, expertise and skill.

Heidi Gazelle, Ph.D.
Social and emotional development in middle childhood and early adolescence, peer relations, developmental psychopathology, internalizing problems.

Stuart Marcovitch, Ph.D.
Cognitive development, particularly conscious and unconscious influences on behavior.

Lili Sahakyan, Ph.D.
Retrieval processes in human long-term memory, the role of context in memory.

Dayna R. Touron, Ph.D.
Cognitive aging, skill acquisition, strategy use, metacognition.
1. Violation of professional standards or ethical codes, e.g., breaches of client confidentiality, or engaging in dual relationships with clients

2. Inability or unwillingness to acquire and manifest professional skills at an acceptable level of competency

3. Behaviors that can reasonably be predictive of poor future professional functioning, such as extensive tardiness in client record-keeping or poor compliance with supervisory requirements

4. Personal unsuitability to the profession, e.g., substance abuse, chronic and disabling physical problems, interpersonal behaviors and intra-personal functioning that impair one’s professional functioning, such as psychopathology (including personality disorders), inability to exercise good judgment, poor interpersonal skills, and pervasive interpersonal problems.

Possible Actions to Follow Manifestations of Professional Impairment

This list contains examples and is not intended to be definitive. These actions are not hierarchical and need not be applied in each case:

- a formal reprimand
- an unsatisfactory grade (U) in a practicum course with the requirement that the course be repeated, whether it was an elective or required practicum
- reduced practicum case-load
- personal therapy
- leave of absence
- required additional practicum or course work
- increased supervision (e.g., more frequent supervision, more than one supervisor, more extensive use of video or audiotapes)
- formal probation
- recommendation to withdraw from the program
- recommendation of formal dismissal from the program by the Dean of The Graduate School.

Due Process: Evaluation of Professional Impairment

1. There is a written policy on professional impairment which is systematically distributed to all clinical students, with signatures evidencing student review of the policy.

2. All students routinely receive evaluations in writing, including written notification of problems, through semi-annual practicum evaluations and through annual letters prepared by the clinical faculty. Students may also receive in writing descriptions of specific incidences that may evidence professional impairment. Such written evaluation will also be placed in the student’s departmental file.

3. The student evidencing professional impairment will usually be given an opportunity for remediation (although individual circumstances may not allow this, and this is not legally required), with specific descriptions of problems, suggestions for remediation, time limit, and notice of consequences if remediation is not successful, all noted in writing. Such written evaluation will also be placed in the student’s departmental file.

4. When the judgment is made that serious professional impairment exists and that the consequences to the student are major, the student may request a hearing in which the student may present his or her view of the situation. The hearing will be convened by the Director of Clinical Training, and will include the clinical faculty who are making judgments of serious professional impairment (e.g., student’s faculty clinical supervisor or agency clinical supervisor and/or the Director of the UNCG Psychology Clinic), the Director of Graduate Study, and the student’s advisor.

5. Following a hearing, the student will receive written notification within one week that includes: the nature of the problem, opportunities for revision if any, the basis for the decision, and the opportunity for appeal. Such written evaluation will also be placed in the student’s departmental file.

6. After receiving written notification, the student may request an appeal within 14 days to the Head of the Department of Psychology. The appeal panel will include some persons who are different from those making the original decision, such as a psychologist from the community, a faculty representative of The Graduate School, and a member of the faculty selected by the student.

7. The results of the hearing and appeal will be forwarded to the Head of the Psychology Department, who may accept, reject, or modify the recommendations. If the Department Head accepts a recommendation to dismiss a student from the program, this recommendation will be forwarded to the Dean of The Graduate School who, upon further consideration, will notify the student in writing.
The terminal Master of Arts degree in general experimental psychology requires 36 hours—12 hours in four core courses, 8 hours of statistics, 10 hours of electives and 6 hours of thesis.

Core Courses (12 hours)
Each student must take at least one core course from four of five core areas:

Clinical
PSY 661 Psychological Disorders in Children (3)
PSY 662 Psychological Disorders in Adults (3)

Cognitive
PSY 652 Cognitive Processes (3)

Developmental
PSY 643 Developmental Psychology (3)

Biological
PSY 625 Advanced Animal Behavior (3)
PSY 650 Physiology of Sensory and Behavioral Processes (3)

Statistics and Methodology (8 hours)
PSY 609, 610 Statistical Methods in Psychology I, II (4)
*(4) or alternatives with permission of the Director of Graduate Study

Additional Courses (10 hours, plus 6 hours of thesis)
In addition to 6 hours of *PSY 699 Thesis, additional courses are to be selected from 600-level psychology courses or with the permission of the Director of Graduate Study, graduate level courses in other departments.

*Indicates Capstone Experience

Clinical students in the M.A./Ph.D. track are required to satisfy all requirements for the M.A. degree in clinical psychology as part of their Ph.D. requirement. A minimum of 55 hours is required for the M.A. component of the Ph.D. The Ph.D. in clinical psychology requires 100 semester hours including internship hours. All credits taken to satisfy the M.A. component may be applied toward the Ph.D. requirements.

Students who receive an M.A. in clinical psychology from another institution will submit syllabi, thesis document, and other materials for review. The students will work closely with their advisor and the Director of Clinical Training to develop their doctoral plan of study. Typically, students earn credit for 28-32 credit hours (approximately 1 year). In addition, the thesis is reviewed by a committee of three faculty, and if viewed as comparable in scope and theoretical focus to the UNCG thesis requirement, no additional thesis work will be required.

It is important to note that the department does not accept students who seek a terminal M.A. degree in clinical psychology, only those seeking a Ph.D.

M.A. General Core Courses (9 hours)
For APA accreditation purposes, one of the non-clinical courses must address social bases of behavior and one must address biological bases of behavior. Nine hours are chosen from the following core courses:

Cognitive
PSY 652 Cognitive Processes (3)

Developmental
PSY 643 Developmental Psychology (3)

Biological
PSY 625 Advanced Animal Behavior (3)
PSY 650 Physiology of Sensory and Behavioral Processes (3)

Social
PSY 647 Advanced Social Psychology (3)

M.A. Clinical Courses (21 hours)
Clinical Core Courses (9 hours)
PSY 661 Psychological Disorders in Children (3)
PSY 662 Psychological Disorders in Adults (3)
One course in ethics (e.g. PSY 735 Contemporary Problems: Ethics and Cultural Competence) (3)

Additional Clinical Courses (12 hours)
PSY 622 Theory and Methods of Psychotherapy (3)
PSY 623 Theory and Methods of Personality Assessment (3)
PSY 626  Theory and Methods of Behavioral Assessment and Therapy (3)
PSY 640  Theory and Methods of Intellectual Assessment (3)

**M.A. Research Tools Courses (17 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 609, 610 Statistical Methods in Psychology I, II</td>
<td>4</td>
</tr>
<tr>
<td>PSY 624  Research Methods in Clinical Psychology</td>
<td>3</td>
</tr>
<tr>
<td>*PSY 699 Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

*Indicates Capstone Experience

**M.A. Clinical Practicum Training (8 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 642  Practicum in Clinical Intervention</td>
<td>8</td>
</tr>
</tbody>
</table>

(Taken over four semesters)

**Ph.D. Seminars (12 hours)**

In addition to the M.A. requirements, students must complete the following:

- Two advanced clinical seminars (PSY 735) (6)
- Two advanced seminars outside the clinical area (PSY 735), approved in advance by the student’s doctoral committee (6)
  - One from another area in psychology or from another department.
  - One may address research design/statistical issues.

**Ph.D. Research Tools Courses (19 hours minimum)**

In addition to M.A. requirements, students must complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 721  Teaching of Psychology</td>
<td>1</td>
</tr>
<tr>
<td>PSY 751  Independent Doctoral Research</td>
<td>6</td>
</tr>
<tr>
<td>PSY 799  Doctoral Dissertation Research</td>
<td>12-24</td>
</tr>
</tbody>
</table>

**Ph.D. Clinical Practicum Training (14 hours)**

In addition to the 8 hours of PSY 642 taken to satisfy the M.A. requirements, students must complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 642  Practicum in Clinical Intervention</td>
<td>6</td>
</tr>
<tr>
<td>PSY 762  Advanced Practicum in Clinical Psychology</td>
<td>6</td>
</tr>
<tr>
<td>PSY 763  Internship in Clinical Psychology</td>
<td>2</td>
</tr>
</tbody>
</table>

(Taken over four semesters)

**Preliminary Examination**

This examination is scheduled in consultation with the doctoral advisory committee.

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**Requirements for the Doctor of Philosophy in Cognitive, Developmental, Social, or General Experimental Psychology**

Students must satisfy all requirements for the M.A. degree as part of their Ph.D. requirement, and all courses taken to satisfy the M.A. degree may be applied towards the Ph.D. requirements. Completion of the requirements for the terminal M.A. satisfies the M.A. requirement of the Ph.D. A minimum of 72 hours is required for the Ph.D. degree.

Students who receive an M.A. from another institution will submit syllabi, thesis document, and other materials for review to determine the portability of their M.A. degree. Typically, students earn credit for the M.A. degree and must complete remaining Ph.D. requirements and a minimum of 35 hours at UNCG.

**Core Courses and Electives (48 hours minimum, including hours acquired in M.A.)**

In addition to core courses and electives taken to satisfy the M.A. requirements, students complete 18-30 hours in their area of concentration (cognitive, developmental, or social) and 18-30 hours outside their area of concentration. Of these hours, only 6 hours of independent study courses (PSY 601) can be counted; at least an additional 3 hours of research tools courses beyond the M.A. statistics requirements must be taken; and at least four psychology seminars (PSY 735) must be taken.

**Research (24 hours minimum, including hours acquired in M.A.)**

In addition to the thesis completed to satisfy the M.A. requirements, all students complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 751  Independent Doctoral Research</td>
<td>6</td>
</tr>
<tr>
<td>PSY 799  Doctoral Dissertation Research</td>
<td>12-24</td>
</tr>
</tbody>
</table>

**Preliminary Examination**

This examination is scheduled in consultation with the doctoral advisory committee.
515 History and Systems of Psychology (3:3)
Pr. a minimum of 12 hours of psychology, including 121, senior standing, or permission of instructor
Discussion of prescientific thinking on psychological problems, origin of systems of psychology, and ways systems are reflected in contemporary psychology.

519 Special Topics in Psychology (3:3)
Pr. appropriate introductory 200-level core course or equivalent, or permission of instructor
Intensive examination of current theories and research in a specific area of biopsychology, learning, development, cognition, social psychology or clinical psychology. Check with department for offerings. May be repeated for credit when topic varies.

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

601 Graduate Problems in Psychology (1-3)
Work individually or in small groups in psychological problems of special interest. Work may represent either a survey of a given field or an intensive investigation of a particular problem. For students with a strong background in psychology; students should consult instructor before registering. (Graded on S-U basis)

602 Seminar in Systematic Issues (3:3)
Pr. 515 or equivalent, or permission of instructor
Contemporary state of knowledge with regard to the logic and language of psychology.

604 Behavior of Individuals in Work Organizations (3:3)
Pr. permission of instructor
Factors determining the behavior of individuals in work organizations including personal attributes such as motivation, attitude, personality, interest, skills, and knowledge; and organizational attributes such as formal structure, technology and work flow, leadership, role taking, and reward systems.

608 Personality and Social Development (3:3)
Pr. HDF 651 and HDF 652 or permission of instructor
Integrates theory and research focusing on dimensions of normal personal-social growth from infancy through childhood. Importance of peer and family relations in the development of social attitudes, self-concept, prosocial behaviors, social conformity, and moral reasoning. (Same as HDF 608)

609 Statistical Methods in Psychology I (4:3:1)
Pr. psychology graduate student or permission of instructor
Summarizing and comparing distributions. Thorough review of statistical estimation and hypothesis testing for linear models, e.g., t-test, one-way ANOVA, multiple comparisons.

610 Statistical Methods in Psychology II (4:3:1)
Pr. 609 or permission of instructor
Statistical estimation and hypothesis testing for linear models, e.g., ANOVA for crossed, nested, incomplete, and repeated measures designs, ANCOVA; multiple regression and correlation; general linear model.

611 Experimental Design in the Behavioral Sciences (3:3)
Pr. STA 662 or permission of instructor
Development of strategy, from generation of hypotheses through data analysis and interpretation. Consideration of choice of designs and statistical procedures, including covariance and multivariate analysis.

612 Psychological Perspectives on Language (3:3)
Pr. 481 or 483 or permission of instructor
Traditional psychological perspectives as they relate to language phenomena. Empirical questions and findings in comprehension and memory for language. Relationship between language and thought.

613 Matrix Algebra Useful for Statistics (1:1)
Pr. one basic graduate statistics course
Matrix manipulation and understanding the language of matrix algebra rather than formal mathematics.

614 Child Language: The Psychological Perspective (3:3)
Pr. undergraduate course in cognitive development or psycholinguistics, or permission of instructor
In-depth analyses of children’s language acquisition and its role in development of cognitive functioning. Methodologies, findings, and issues as they relate to more general psychological questions.

617 Behavior Theory (3:3)
Pr. 515 or permission of instructor
Theories of behavior and learning, from 1900 to present.

622 Theory and Methods of Psychotherapy (3:3)
Pr. or coreq. 661, 662 and permission of instructor
Psychotherapy concepts and research from interpersonal, behavioral, humanistic, and cognitive perspectives. Supervised introductory practicum experience in therapeutic methods.

623 Theory and Methods of Personality Assessment (3:3)
Pr. or coreq. 622, malpractice insurance, and permission of instructor
Construction, evaluation, and interpretation of objective and projective measures of personality as used with normal and clinical groups. Laboratory practice in personality assessment and in diagnosis.

624 Research Methods in Clinical Psychology (3:3)
Pr. or coreq. 622, STA 661 and 662, and permission of instructor
Broad-based methodological perspective on approaches to research in clinical psychology; personality, psychopathology, psychotherapy, epidemiology, behavioral medicine, and clinical child psychology.

625 Advanced Animal Behavior (3:3)
Pr. 435 or 436 or 438 or permission of instructor
Current research and theories including development and evolution of behavior, sociobiology, behavioral genetics, behavioral ecology, and the use of comparative method. (Same as BIO 625)
626 Theory and Methods of Behavioral Assessment and Therapy (3:3)
Pr. 622 and permission of instructor
Evaluation of research and theory underlying behavioral assessment and behavior therapy. Supervised introductory experiences in the use of behavioral assessment and therapy techniques.

640 Theory and Methods of Intellectual Assessment (3:3)
Pr. 661, 662, malpractice insurance, and permission of instructor
Research and theory underlying intellectual assessment. Supervised introductory experience in the use of standardized intelligence tests, including evaluation and communication of test results.

642 Practicum in Clinical Intervention (1-6)
Pr. 622, 661, 662, and malpractice insurance
Supervised application of psychological principles to the assessment and therapeutic change of individual or group behavior, generally with clients in the UNCG Psychology Clinic. Open to clinical psychology graduate students.

643 Developmental Psychology (3:3)
Pr. 455 or 456 or 457 or permission of instructor
Systematic survey of theories and content of developmental psychology. Developmental issues and research examined in areas including attention, memory, language, socialization, sex roles, and aggression.

644 Human Behavioral Development (3:3)
Pr. 326 or 342 or permission of instructor
Theory and research on the biological-behavioral analysis of pre- and postnatal development; learning and perception, including biological factors in infancy through childhood.

645 Cognitive Development (3:3)
Pr. 455 or 456 or 457 or permission of instructor
Theory and research in relation to attention, memory, problem solving and language. Emphases on Piagetian and information-processing approaches.

646 Social Bases of Personality (3:3)
Major personality theories; social bases of individual differences. Research methodologies and specific areas of research.

647 Advanced Social Psychology (3:3)
Pr. 460 or 461 or 462 or permission of instructor
Theoretical concepts, research methodologies, and empirical findings; aggression, attitude change, attribution, and exchange theory.

650 Physiology of Sensory and Behavioral Processes (3:3)
Pr. 433, 436, 438, or permission of instructor
Neural substrates of motivation, emotion, sleep, motor acts and coordination, learning, language, complex processes, and psychopathology.

650L Physiological Psychology Laboratory (1:0:3)
Pr. enrollment in or completion of 650
Fundamental neuroanatomy with guided dissections, experiments, demonstrations, and training in surgical and other techniques useful in understanding and executing research in physiological psychology. (Graded on S-U basis)

651 Experimental Analysis of Operant Behavior (3:2:3)
Pr. 442 or 444 or permission of instructor
Research methods used in the study of operant behavior; current status of research and theory relevant to basic processes in operant behavior.

652 Cognitive Processes (3:3)
Pr. 481 or 483 or permission of instructor
Human intellectual functioning including pattern recognition, attention, memory, comprehension, reasoning, and problem solving.

655 Sensation and Perception (3:3)
Pr. 435 or 436 or 438 or permission of instructor
Sensory/perceptual processes emphasizing visual and auditory systems from stimulus transduction to higher order information processing.

661 Psychological Disorders in Children (3:3)
Pr. permission of instructor
Empirical approach to etiology, assessment, and treatment of psychological problems of children, emphasis on development factors. Not intended for students without a strong background in abnormal psychology, child development, and developmental theory.

662 Psychological Disorders in Adults (3:3)
Pr. permission of instructor

681 Family-Centered Interdisciplinary Practice: System of Care (3:3)
Pr. exposure to System of Care through departmental courses before enrollment, basic research methods and basic statistics course, or permission of instructor
System of Care has core values/principles, infuses service planning/delivery. Students develop competencies: 1) family-centered; 2) client partnerships; 3) community services; 4) cultural competency; 5) interagency collaboration. Participatory research with families included. (Same as HEA 681, RPM 681, SWK 681)

691 Advanced Clinical Topics in Couple and Family Counseling/Therapy (3:3)
Pr. 622
Advanced seminar in the scientific foundations for practice of couple and family counseling/therapy. May be repeated for credit when topic varies.

699 Thesis (1-6)

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

721 Teaching of Psychology (1:2)
Pr. admission to the graduate program in psychology, or permission of instructor
Introduction to principles and practices of good undergraduate teaching for graduate students in psychology. Covers basics such as course planning, teaching techniques, legal and ethical issues. (Graded on S-U basis.)

735 Contemporary Problems (3:3)
Pr. 600-level course in appropriate content areas
Specific course title identified each semester by subscript, e.g., Contemporary Problems: Advanced Research Methods in Developmental Psychology. May be repeated for credit when topic varies.
751 Independent Doctoral Research (1-6)
Individual work on psychological problems of special interest culminating in an intensive, critical review of literature in a given field or scientific investigation of problem. Before registering, student should obtain the approval of graduate faculty member who agrees to monitor and evaluate the proposed research. (Graded on S-U basis.)

762 Advanced Practicum in Clinical Psychology (1-12)
Pr. 642, malpractice insurance
Supervised application of psychological principles to the assessment and therapeutic change of individual and group behavior, generally with clients in the UNCG Psychology Clinic. Open only to clinical psychology graduate students. (Graded on S-U basis)

763 Internship in Clinical Psychology (1-12)
Pr. 642, 762, malpractice insurance
Application of psychological principles to the assessment and therapeutic change of individual or group behavior in an APA-accredited off-campus setting. Students are individually supervised by appropriate agency staff. Open only to clinical psychology graduate students. (Graded on S-U basis)

799 Doctoral Dissertation Research (1-24)

801 Thesis Extension (1-3)

802 Dissertation Extension (1-3)

803 Research Extension (1-3)
Department of Public Health Education

Professors
H. William Gruchow, Ph.D.
Men’s health, obesity prevention, philosophy of health.

Joseph Telfair, M.S.W./M.P.H., Dr. P.H.
Program evaluation and research; women, teens, and children with chronic conditions; health care for the poor, people of color, and persons in rural areas; social and community aspects of HIV/AIDS (Director of M.P.H. Graduate Study).

Associate Professors
Robert E. Aronson, Dr.P.H.
Constructs of masculinity and implications for health and social issues, community health ethnography, social inequalities and health.

Daniel L. Bibeau, Ph.D.
Stroke prevention in the community, worksite and community health promotion/wellness programs (Head of Department).

Vincent T. Francisco, Ph.D.
Applied research, community health promotion, measurement of behavior change in communities (Director of Dr.P.H. Graduate Study).

Lynette Lawrance, Ph.D.
Women’s and adolescent health issues, sexuality and tobacco education, school health programs.

Beverly Levine, Ph.D.
Cancer prevention, cancer risk modeling, biostatistics and epidemiologic methods, philosophy of statistics.

Kay A. Lovelace, Ph.D.
Public health systems and infrastructure, including preparedness, workforce development, inter-organizational relationships; youth tobacco use prevention.

Sharon D. Morrison, Ph.D.
Immigrant and refugee health, health literacy, HIV/AIDS in international settings, global and cross-cultural health research.

Tracy Nichols, Ph.D.
Health promotion for women and families, adolescent girls, physical activity promotion, delinquency prevention.

Paige Hall Smith, Ph.D.
Promoting safe, healthy and meaningful lives for women and girls.

Robert W. Strack, Ph.D.
Adolescent health, photovoice methodology, community-based program planning and evaluation.

David Wyrick, Ph.D.
Adolescent health, prevention science, research and evaluation methodology, web-based applications.

Assistant Professor
Mark Schulz, Ph.D.
Farmworkers’ occupational skin disease, epidemiology of bicycle injuries, syphilis screening, determinants of physical activity.
The Department of Public Health Education offers the Master of Public Health (M.P.H.) degree and the Doctor of Public Health (Dr.P.H.) degree, both in community health education.

The M.P.H. program is a professional preparation program for students interested in careers that involve the development and management of population-based health promotion and disease prevention activities within communities. The program is designed to meet the needs of qualified students from a variety of academic and professional backgrounds. In the program students receive academic preparation in the traditional public health fields of epidemiology, statistics, environmental health, and health policy with course work and field-based experiences emphasizing the development of practitioner competencies. The degree program prepares graduates for careers in public health and health care settings at local, state, regional, or national levels.

M.P.H. applicants can be admitted as either full-time or part-time students. All required courses except the internship are offered in the evenings. Full-time students are expected to take four courses each fall and spring semester for two years. Part-time students usually take two courses each fall and spring semester, and one course each summer, over three years.

The M.P.H. program is accredited by the Council on Education for Public Health. Additionally, the curriculum includes the development of graduate professional competencies recommended by the Society for Public Health Education and the American Association for Health Education.

The Dr.P.H. program emphasizes community-based participatory research in public health. Program requirements are designed to prepare students academically and professionally for conducting significant public health research to facilitate the resolution of public health outcomes important to the community and field. Students, faculty members, and community partners form research teams whose work is guided by a prevention research model recently developed by the Centers for Disease Control and Prevention and workforce preparation guidelines developed by the Institute of Medicine.

Dr.P.H. applicants can be admitted as either full-time or part-time students.

Admission Requirements
In addition to the minimum admission materials required by The Graduate School, applicants should submit a description of work experiences and a written statement of professional goals.

**MPH Requirements for the Master of Public Health in Community Health Education**

The Department of Public Health Education offers a graduate program leading to a 45 hour M.P.H. degree. The degree consists of 39 semester hours of course work and a 6 hour internship/practicum in a community setting. The courses are distributed in the following manner:

**Core Courses (18 hours)**
- HEA 601 Principles of Community Health Education (3)
- HEA 602 Epidemiology (3)
- HEA 604 Public Health Statistics (3)
- HEA 608 Environmental Health (3)
- HEA 612 Management of Community Health Organizations (3)
- HEA 645 Health Policy (3)

**Required Professional Courses (9 hours)**
- HEA 603 Community Health Analysis (3)
- HEA 609 Community Health Interventions (3)
- HEA 625 Community Health Research and Evaluation (3)

**Electives (9 hours)**
Each student will take three elective courses chosen in consultation with his/her advisor.

**Capstone Experience (9 hours)**
In addition to the field-based learning experiences in courses throughout the program, students are required to integrate and synthesize their acquired skills and knowledge in an applied situation that approximates some aspect of professional practice in community health education. This is done through an internship/practicum in a community health agency. Prior to the internship/practicum, students plan their work in an applied program planning class.

- HEA 648 Applied Program Planning (3)
- HEA 650 Community Health Internship/Practicum (6)
The Department of Public Health Education offers a graduate program leading to a Doctor of Public Health in community health education after 63 hours (minimum) of post-master’s degree course work. Assessment of courses or experiences applicable to the degree occurs at the time of admission into the program. The student’s doctoral program committee will work with each candidate to develop a course of study within the framework of the program and informed by the student’s personal interests, past course work, and professional experiences.

Public Health Core (0-15 hours)
Entering doctoral students who have not completed one or more of the core public health courses must complete these courses as part of their program in addition to the minimum 63 credit hours.
- HEA 601 Principles of Community Health Education (3)
- HEA 602 Epidemiology (3)
- HEA 604 Public Health Statistics (3)
- HEA 608 Environmental Health (3)
- HEA 645 Health Policy (3)

Research Core (33 hours)
- HEA 751 Foundations of Research in Public Health Education (3)
- HEA 752 Quantitative Methods in Public Health (3)
- HEA 753 Qualitative Methods in Public Health (3)
- ERM 680 Intermediate Statistical Methods in Education or equivalent (3)

Health-related Electives (15 hours)
Electives are selected from the following or under the advisement of the student’s doctoral program committee. A minimum 6 semester hours of HEA courses are required.
- HEA 609 Community Health Interventions (3)
- HEA 612 Management of Community Health Organizations (3)
- HEA 617 Conflict Resolution and Coalition Building (3)
- HEA 622 Social Epidemiology (3)
- HEA 640 Global Health Issues (3)
- HEA 666 Health Communication (3)
- HEA 671 Immigrant and Refugee Health (3)
- HEA 676 Problems Seminar: Health and Aging (3)
- HEA 758 Advanced Theoretical Basis for Community Health Education (3)
- HEA 759 Community Based Health Education Research (3)
- HEA 760 Teaching in Community Health Education (required for Teaching Assistants) (3)
- ESS 745 Social Psychology and Physical Activity (3)
- HDF 710 The Ecology of Human Development (3)
- PSC 620 Urban Development Policy (3)
- NTR 643 Nutrition and Aging

Dissertation (15 hours)
- HEA 799 Dissertation (15)

Public Health Courses

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

600 Contemporary Problems in Health (3-3)
Current personal, community, and world health problems through critical analysis of literature and research.

601 Principles of Community Health Education (3-3)
Pr. admission to the M.P.H. program or permission of instructor. Factors affecting health and disease, principles underlying health education practice, and the role of health education in health promotion and disease prevention. (Fall)

602 Epidemiology (3-3)
Disease etiology and identification of risk factors, utilizing epidemiologic and biostatistical concepts and methods. Applications of epidemiology and biostatistics to assess the efficacy of community health programs. (Spring)

603 Community Health Analysis (3-3)
Pr. admission to the M.P.H. program or permission of instructor. Assessment of community structure, residents, organizations and associations, to determine health-related capacities, needs, and interests. Emphasizes the use of both primary and secondary data sources for community analysis. (Fall)

604 Public Health Statistics (3-3)
Pr. admission to the M.P.H. program or permission of instructor. Investigation of data sources and methods used to gather, analyze and interpret health data; emphasis on computer applications. (Fall)

606 Workshops in Health Education (1-3)
Current and comprehensive health or health education concerns of schools and society. No more than 3 hours of this course may be applied to a graduate degree program.
608 Environmental Health (3:3)
Analysis of local, national, and international environmental issues influencing the health of individuals and communities; air and water quality, waste management, disease control, occupational settings, population, and environmental planning. (Fall)

609 Community Health Interventions (3:3)
Pr. 601, 603, 604, 608, Pr. or coreq. 602
Overview of theories, successful intervention strategies, and methods of implementation across the social ecology and their application to the development of health education programs. (Spring)

612 Management of Community Health Organizations (3:3)
Pr. admission to a graduate degree program or permission of instructor
Analysis and skill development in management of community health organizations, including self-reflection, planning, staffing, marketing, building and managing agency and community teams. Literature reviews, community interviews, case study and experiential analysis. (Spring)

616 Workplace Health Promotion (3:3)
Pr. admission to a graduate degree program or permission of instructor
Public and private worksite health promotion programs. Skills and knowledge to oversee the planning, implementation, and evaluation of these programs. Links to employee benefits and successful programs to be critically examined.

617 Conflict Resolution and Coalition Building (3:3)
Pr. admission to a graduate degree program or permission of instructor
Theory, analysis, and skill development in conflict resolution, negotiation, and coalition building for health education and human service professionals.

620 School Health Programs (3:3)
Pr. 601, 603 or permission of instructor
The components of comprehensive school health programs, review of research and evaluation literature. The role of school health coordinators or administrators is examined in the context of North Carolina schools.

622 Social Epidemiology (3:3)
Pr. or coreq. HEA 602, 604
Content, methods and theory of social epidemiology.

625 Community Health Research and Evaluation (3:3)
Pr. 601, 603 and completion of or concurrent enrollment in 603, or permission of instructor
Issues, problems, and techniques involved in evaluation of community health education programs. (Fall)

635 Health Education in the Community and School (3:3)
Pr. permission of instructor
Planning, preparation, and presentation of health education information and programs for school and community groups.

640 Global Health Issues (3:3)
Examine global health issues with an analysis of the determinants of health status in selected world regions and analyze global prevention efforts. Study of international organizations’ roles and programs.

645 Health Policy (3:3)
Pr. admission to a graduate degree program or permission of instructor
Health policy process in the US; examination of historical and current health policy issues, and survey of methods for analyzing health policy options. (Spring)

648 Applied Program Planning (3:3)
Pr. GPA of 3.0 or better, 608 and 645, or permission of instructor
Methods and models of planning health education programs for various settings. (Fall)

650 Community Health Internship/Practicum (6)
Pr. GPA of 3.0 or better and 648, or permission of instructor
Supervised experience in the observation, delivery, and evaluation of health education services in community settings. (Graded on S-U basis) (Spring)

660 Human Sexual Relationships (3:3)
The development of human sexuality and ensuing interpersonal relationships and sexual behavior in today’s society. (Summer)

662 Gender and Health (3:3)
Pr. admission to a graduate degree program or permission of instructor
Health issues and health problems with respect to gender differences, similarities and historical conceptions.

665 Violence and Public Health (3:3)
Pr. admission to a graduate degree program or permission of instructor
The origins and epidemiology of violence, factors influencing our social response to violence and role of public health professionals in a community response. Literature and field-based analysis.

666 Health Communication (3:3)
Pr. or coreq. 601 or permission of instructor
Overview of theory, practice of designing/implementing/evaluating public health communication campaigns and programs. Focus on audience, message, and channel factors; mass media, social marketing and risk communication strategies.

670 Adolescent Health (3:3)
Survey of adolescent health problems and needs. Focus on epidemiological trends, behavioral and social etiological factors, and public health interventions to reduce specific adolescent health problems.

671 Immigrant and Refugee Health (3:3)
Pr. admission to a graduate program in public health education or permission of instructor
Overview of health status of immigrant and refugee populations. Focus on migration, resettlement, adaptation, epidemiological, behavioral, cultural, socioeconomic, legal, and political factors impacting health, and interventions to address needs.

676 Problems Seminar (3)
Pr. previous course work in appropriate content areas or permission of instructor
Specific course title identified each semester by permission of instructor.
Community Health Seminar (3:3)
Pr. or Coreq. 648, 650 or permission of instructor
Culminating experience to help students synthesize and integrate community health education knowledge, theory, and principles. (Spring)

Family-Centered Interdisciplinary Practice: System of Care (3:3)
Pr. exposure to System of Care through departmental courses before enrollment, basic research methods and basic statistics course, or permission of instructor
System of Care has core values/principles, infuses service planning/delivery. Students develop competencies: 1) family-centered; 2) client partnerships; 3) community services; 4) cultural competency; 5) interagency collaboration. Participatory research with families included. (Same as PSY 681, RPM 681, SWK 681)

Independent Study (1-3)
Pr. demonstrated competency for independent work and permission of departmental academic adviser and the instructor
Intensive study in an area of special interest in health education. May be repeated once for credit.

Community Health Field Project (1-3)
Pr. 601, 602, 603 and 625, or permission of instructor
Supervised community health education field project including a major literature-based paper. May be repeated for up to 6 credit hours.

School Health Field Project (1-3)
Pr. 601, 602, 620 and a related research or evaluation course or permission of instructor
Supervised school health setting project including a major literature-based paper. May be repeated for up to 6 credit hours.

Thesis (1-6)
Pr. permission of instructor and application due March 15 prior to final year of study.
May be repeated for up to 6 credit hours, minimum of 3 credit hours required for graduation.

Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

Advanced Community Health Projects (1-6)
Pr. permission of instructor
Scholarly inquiry project developed by the student with faculty guidance. May be repeated for a maximum of 6 credit hours. (Graded on S-U basis.)

Topics in Community Health Research (3:3)
Pr. permission of instructor
Specific course title identified each semester offered by subtitle (e.g., Organizational Behavior, Women and Girls Health, Applied Research in Communities). May be repeated for credit when topic varies. (formerly PSY 683)

Foundations of Research for Public Health Education (3:3)
Pr. admission to Dr.P.H. program or permission of instructor
Central issues in the philosophy of social and behavioral science with application to public health. Assumptions, models, and methodologies necessary to pursue research in community health education.
Graduate Programs in Recreation, Tourism, and Hospitality Management

- M.S. Parks and Recreation Management with concentrations in:
  - Leisure Services Management
  - Therapeutic Recreation
  - Travel, Tourism, and Commercial Recreation

Department of Recreation, Tourism, and Hospitality Management

420J Health and Human Performance Building
(336) 334-5327 • www.unCG.edu/rth

Professors
Leandra A. Bedini, Ph.D.
Therapeutic recreation, family caregivers, women with disabilities, perceived stigma (Director of Graduate Study).

Linda L. Buettner, Ph.D.
Interventions for persons with cognitive impairments, Alzheimer’s, depression, psychosocial needs of older adults.

Stuart J. Schleien, Ph.D.
Therapeutic recreation, community inclusion, developmental disabilities (Head of Department).

James R. Sellers, Ed.D.
Leisure services management, area and facility development, maintenance and operations, financing.

Associate Professors
Bonnie M. Canziani, Ph.D.
Service management, training and performance management, multicultural issues (Program Director, Hospitality and Tourism Management).

Nancy J. Gladwell, Re.D.
Management, commercial recreation, organizational behavior (Program Director, Recreation and Parks Management).

Charlsena F. Stone, Ph.D.
Therapeutic recreation, cultural competence, cultural diversity training.

Assistant Professors
Erick T. Byrd, Ph.D.
Travel and tourism, sustainable tourism, tourism marketing.

David A. Cardenas, Ph.D.
Restaurant management, consumer involvement, student development.

Yu-Chin Hsieh, Ph.D.
Hotel operation, human resource management, hospitality education.

The Department of Recreation, Tourism, and Hospitality Management offers the Master of Science (M.S.) degree in parks and recreation management. Students may choose one of the following three concentrations: leisure services management; therapeutic recreation; or travel, tourism, and commercial recreation.

Admission Requirements
In addition to the application materials required by The Graduate School, applicants must submit a current resume and a professional statement including career goals. Interviews are encouraged for all applicants and required for graduate assistants. Student who do not have an undergraduate degree in recreation, parks, and tourism and/or appropriate professional experience will be required to take one undergraduate course from their concentration; e.g., HTM 261 or RPM 231 or RPM 241. Students in the therapeutic recreation concentration will also be required to take RPM 332.
Requirements for the Master of Science in Parks and Recreation Management

The student, after discussing career goals with his/her advisor, may choose either the thesis or non-thesis option. Both options consist of 36 semester hours. If the student selects the non-thesis option, the advisor will determine (based on amount of professional experience) whether the student completes a project, course work, or an internship. For example, a student choosing the non-thesis option and having minimal professional experience will be required to complete an internship. Students must meet with their advisor or the Director of Graduate Study before registering for any course work.

Required Core Courses (9 hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPM 611</td>
<td>Foundations of Recreation, Parks, and Tourism (3)</td>
<td></td>
</tr>
<tr>
<td>RPM 613</td>
<td>Recreation, Parks, and Tourism Management (3)</td>
<td></td>
</tr>
<tr>
<td>RPM 614</td>
<td>Organizational Behavior in Recreation, Parks, and Tourism (3)</td>
<td></td>
</tr>
</tbody>
</table>

Concentration (6-9 hours)

Leisure Services Management (9 hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPM 645</td>
<td>Financial Trends in Recreation and Parks (3)</td>
<td></td>
</tr>
<tr>
<td>RPM 646</td>
<td>Seminar: Leisure Services Management (3)</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 520</td>
<td>The Urban Political System (3)</td>
<td></td>
</tr>
<tr>
<td>PSC 600</td>
<td>Public Administration and Management (3)</td>
<td></td>
</tr>
<tr>
<td>PSC 613</td>
<td>Local Government Administration (3)</td>
<td></td>
</tr>
<tr>
<td>PSC 615</td>
<td>Public Personnel: Development and Evaluation (3)</td>
<td></td>
</tr>
</tbody>
</table>

Therapeutic Recreation (9 hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPM 633</td>
<td>Professional Issues in Therapeutic Recreation (3)</td>
<td></td>
</tr>
<tr>
<td>RPM 634</td>
<td>Advanced Procedures in Therapeutic Recreation (3)</td>
<td></td>
</tr>
<tr>
<td>RPM 637</td>
<td>Advanced Facilitation Techniques in Therapeutic Recreation (3)</td>
<td></td>
</tr>
</tbody>
</table>

Travel, Tourism, and Commercial Recreation (6 hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPM 626</td>
<td>Tourism Management (3)</td>
<td></td>
</tr>
<tr>
<td>RPM 627</td>
<td>Conceptual Foundations of Travel and Tourism (3)</td>
<td></td>
</tr>
</tbody>
</table>

Research Techniques (9 hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPM 612</td>
<td>Research Applications in Recreation, Parks, and Tourism (3)</td>
<td></td>
</tr>
<tr>
<td>ERM 617</td>
<td>Statistical Methods in Education (3)</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERM 604</td>
<td>Methods of Education Research (3)</td>
<td></td>
</tr>
<tr>
<td>ESS 611</td>
<td>Research in Physical Education I: Concepts of Inquiry (3)</td>
<td></td>
</tr>
<tr>
<td>SOC 616</td>
<td>Advanced Research Methods (3)</td>
<td></td>
</tr>
</tbody>
</table>

Specialized Line of Study (3-9 hours)

With the approval of his/her advisor, the student selects 3 to 9 hours of 500- to 700-level course work that constitute a specialized knowledge base relevant to the student’s academic interests and goals.

Capstone Experience (6 hours)

Select at least one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPM 697</td>
<td>Internship in Recreation, Parks, and Tourism (6)</td>
<td></td>
</tr>
<tr>
<td>RPM 698</td>
<td>Field Project in Recreation, Parks, and Tourism (6)</td>
<td></td>
</tr>
<tr>
<td>RPM 697</td>
<td>Internship in Recreation, Parks, and Tourism (3)</td>
<td></td>
</tr>
<tr>
<td>RPM 699</td>
<td>Thesis (6)</td>
<td></td>
</tr>
</tbody>
</table>

Six (6) credits of additional approved graduate level course work

Recreation, Tourism, and Hospitality Management Courses

511 Seminar in Recreation and Parks (3:3)

Pr. 315 or permission of instructor

Examination of current practices in recreation and parks with emphasis on their impact in the delivery of programs and services, and their technological, economic, and political significance in society.

519 Directed Research (3)

Pr. permission of instructor

Identification and investigation of research questions in recreation, parks, and tourism. Opportunity for students to conduct research with direction from scholars in the field.

589 Experimental Course

This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

611 Foundations of Recreation, Parks, and Tourism (3:3)

Understand and apply various theories and concepts, as well as current research, which influence the study of leisure behavior and the delivery of recreation services.

612 Research Applications in Recreation, Parks, and Tourism (3:3)

Pr. ERM 604 or ESS 611 or SOC 616; ERM 617

Utilization and application of current data analytic procedures in leisure research in the context of various research methods.

613 Recreation, Parks, and Tourism Management (3:3)

Pr. 611 or permission of instructor

Theories and patterns of management appropriate for leisure service delivery systems. Organizational planning, legal foundations, financial management, personnel management, and the politics of leisure service delivery systems.
614 Organizational Behavior in Recreation, Parks, and Tourism (3:3)
   Pr. 613 or permission of instructor
   Organizational behavior within recreation, parks, and tourism organizations. Management and organizational behavior, perception, motivation, diversity, power and politics, leadership, group dynamics, communications, conflict, and organizational design, culture and change.

626 Tourism Management (3:3)
   Pr. 324, 423, or permission of instructor
   Study of the current trends and issues in travel and tourism; examination of ethical and legal issues, marketing and management strategies, and providers of tourism products and services.

627 Conceptual Foundations of Travel and Tourism (3:3)
   Pr. 611 or permission of instructor
   Conceptual and theoretical foundations of travel and tourism and their application in research and practice.

633 Professional Issues in Therapeutic Recreation (3:3)
   Pr. 611 or permission of instructor
   Study of professional issues in therapeutic recreation including professionalism, credentialing, research, professional preparation, continuing education, health care, ethics, advocacy, legislation, marketing, and role of TR managers in addressing these issues.

634 Advanced Procedures in Therapeutic Recreation (3:3)
   Pr. 611 or permission of instructor
   Health care delivery service in community and medical arenas. Role of therapeutic recreation within that system. Administrative/managerial procedures.

637 Advanced Facilitation Techniques in Therapeutic Recreation (3:3)
   Pr. 231 and 332, or permission of instructor
   Planning, implementation, and evaluation of a variety of therapeutic recreation facilitation techniques to include intervention descriptions, historical perspectives, efficacy research, and theoretical foundations.

645 Financial Trends in Recreation and Parks (3:3)
   Pr. 613 or equivalent, or permission of instructor
   Study of financial trends in the public and private non-profit sectors of recreation and parks. Emphasis on financing and acquiring recreation and park resources.

646 Seminar: Leisure Services Management (3:3)
   Pr. 613 or permission of instructor
   Concepts, principles, and practices in recreation and park management. Emphasis on policy-making process; program, service, and event management; physical resources planning/management; legal environment/risk management; professionalism; issues and trends.

681 Family-Centered Interdisciplinary Practice: System of Care (3:3)
   Pr. exposure to System of Care through departmental courses before enrollment, basic research methods and basic statistics course, or permission of instructor
   System of Care has core values/principles, infuses service planning/delivery. Students develop competencies: 1) family-centered; 2) client partnerships; 3) community services; 4) cultural competency; 5) interagency collaboration. Participatory research with families included. (Same as HEA 681, PSY 681, SWK 681)
Department of Religious Studies

Professors

Marc Bregman, Ph.D.
Jewish studies, Rabbinics, Biblical interpretation (Bernard Distinguished Professor of Jewish Studies).

Derek Krueger, Ph.D.
Religions of late antiquity, history of Christianity, Byzantine studies (Head of Department).

Henry S. Levinson, Ph.D.
American religious thought, the pragmatic philosophical tradition, “religious experience” as a category of cultural interpretation and criticism, religious pluralism as actuality, as ideal, as problem.

Charles D. Orzech, Ph.D.
History of religions, theory and method, Chinese Buddhism, Japanese Buddhism, esoteric Buddhism in East Asia.

Eugene F. Rogers, Jr., Ph.D.
Modern and medieval Christian thought, gender studies.

Associate Professors

William D. Hart, Ph.D.
Religion, ethics, and politics; critical theory of religion; African-American religious thought.

Bennett H. Ramsey, Ph.D.
Western religious thought (ethics, philosophy of religion, theology), religion in the Americas, feminist and African-American religious thought.

Assistant Professors

Elizabeth M. Bucar, Ph.D.
Comparative (Muslim and Christian) religious ethics, Shiism in Iran, gender in the Muslim World, human rights and religion.

Gregory P. Grieve, Ph.D.
South Asian religion with an emphasis in Himalayan traditions.

Ellen D. Haskell, Ph.D.
Jewish studies, Jewish mysticism, gender studies, Rabbinics, metaphor theory and religious imagery.

Graduate Programs in Religious Studies

• No graduate degree program offered; see Master of Arts in Liberal Studies on page 212.

Religious Studies Courses

503 Topics in Religious Studies (3:3)
Pr. permission of instructor
Study of the role, nature, and function of certain social forms of religious life, such as intentional community or religious leadership, through cross-cultural comparison or intensive study of one religious tradition.

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

695 Independent Study (1-3)
Pr. permission of department head and instructor
Directed program of reading, research, and individual instruction.

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.
Department of Romance Languages

2321 Moore Humanities and Research Administration Building
www.un cg.edu/rom • (336) 334-5655

Professors

Roberto Campo, Ph.D.
16th century French literature, poetic and aesthetic theory of antiquity and the Renaissance, laughter theory, orientalism (Director of French Graduate Study).

David A. Fein, Ph.D.
Medieval French literature, 15th century French literature, lyric poetry, teaching language through literature.

Mark I. Smith-Soto, Ph.D.
19th and 20th century Spanish American poetry.

Associate Professors

Laura A. Chesak, Ph.D.
Contemporary Spanish American literature, Spanish American women writers.

Will Derusha, Ph.D.
20th century Spanish poetry and civilization, literary translation, liberation theology (Director of Spanish Graduate Study).

Veronica Grossi, Ph.D.
Spanish American Colonial literature, critical and feminist theory, Spanish American women writers, Spanish American poetry and 20th century Mexican literature.

Carmen T. Sotomayor, Ph.D.
Contemporary Spanish literature, contemporary Spanish women writers (Head of Department).

Assistant Professors

María E. García de las Bayonas, Ph.D.
Second language acquisition, phonology, phonetics, applied linguistics.

Ana Hontanilla, Ph.D.
18th and 19th century Spanish literature and cultural studies.

Manuel Triano-López, Ph.D.
Sociolinguistics, language and law, second language acquisition.

Cybelle M. Wilkens, Ph.D.
Contemporary French and Francophone film, video, visual art and literature; 20th century French women’s film and literature; feminist theory; film theory; French and Francophone culture; 19th century French literature.

Graduate Programs in Romance Languages

• Post-Baccalaureate Certificate
  Advanced Spanish Language and Hispanic Cultural Studies

• M.A.
  Romance Languages and Literatures with concentrations in:
  French
  Spanish

The Department of Romance Languages, as part of its commitment to further the study of foreign languages and literatures both regionally and nationally, offers the Master of Arts in Romance languages and literatures with a concentration in French or Spanish. Students may choose from a broad spectrum of courses and possibilities, whether they are interested in perfecting their knowledge of French or Spanish or pursuing doctoral studies. Each program is balanced and comprehensive while allowing for electives in French, Spanish, or a related field. A Master of Education in curriculum and instruction with a concentration in French education or Spanish education is also offered in collaboration with the Department of Curriculum and Instruction. Please see the Department of Curriculum and Instruction for specific degree requirements. Most graduate classes are offered in the late afternoon, evening, or online to accommodate working professionals.

Admission Requirements

Master of Arts

Admission to master’s level programs in Romance languages assumes completion of an undergraduate program with a minimum of 24 hours in French or Spanish, as appropriate, above the 204 level. Candidates lacking the prior academic language training may be admitted provisionally (contact relevant Director of Graduate Study for details).

In addition to the application materials required by The Graduate School, applicants to the M.A. in Romance languages must provide the following:
The Department of Romance Languages offers a 15-hour Post-Baccalaureate Certificate in Advanced Spanish Language and Hispanic Cultural Studies. The certificate is designed for professionals who may have a bachelor’s degree in a field other than Spanish but who are able to demonstrate linguistic and analytical skills in Spanish equivalent to having completed a minimum of 21 undergraduate semester hours above the 204 level.

Specific goals of the certificate program are 1) to increase student’s language skills in Spanish to a high level; 2) to prepare qualified candidates for cross-cultural professions; and 3) to help prepare instructors who must have at least 18 hours of graduate credit in order to teach Spanish at an accredited community college, four-year college or university. Student may choose to continue with an additional 3-hour course or apply for admission as an M.A. candidate.

**Selection of Courses**

Fifteen hours are selected from the following:

- SPA 516 Introduction to Spanish Syntax (3)
- SPA 532 Spanish Culture and Civilization (3)
- SPA 534 Spanish American Culture and Civilization (3)
- SPA 535 U.S. Latino/a Cultural Studies (3)
- SPA 562 Studies in Film Genre
- SPA 605 Seminar in Hispanic Linguistics (3) (may be repeated for credit when topic varies)
- **ROM 600 Methods of Teaching Romance Languages (3)**
  *Not accepted for transfer to the M.A. in Romance languages with a concentration in Spanish or the M.Ed. in curriculum and instruction with a concentration in Spanish

**Requirements for the Post-Baccalaureate Certificate**

- 500-word essay in Spanish describing their professional goals and motivation for pursuing graduate work in the certificate.
- 3- to 5-minute unscripted tape or audio CD in standard format in Spanish to introduce themselves and describe their academic or equivalent preparation to pursue advanced proficiency in Spanish.
- 5- to 10-page sample of professional or academic analytical writing in English or Spanish.

Applicants to the certificate program are expected to demonstrate at a minimum an “intermediate high” proficiency in Spanish by appropriate course work, by a personal interview with the faculty, or by an officially recognized testing procedure such as that of the American Council on the Teaching of Foreign Languages.

**Additional Information**

Upon completion of the certificate, the graduate faculty will conduct an interview in Spanish with the student.
Requirements for the Master of Arts
in Romance Languages and Literatures with a Concentration in French or Spanish

The Department of Romance Languages offers a graduate program of study with two options: thesis option requiring 30 hours of graduate study (24 hours course work and 6 hours thesis) and a comprehensive examination; non-thesis option requiring 30 hours of course work and a comprehensive examination. In both options, at least one half the work credited toward the degree must be in 600-level courses or above.

FRENCH CONCENTRATION
Core Courses in French and Romance Languages
In consultation with the Director of French Graduate Study, the student must select courses at the 500-level or above as indicated:
Thesis option: 18-24 semester hours
Non-thesis option: 24-30 semester hours
Electives Related Area (0-6 hours)
With prior approval from the Director of French Graduate Study, a student may select up to 6 hours in a related area.
Additional Language Requirement
The student will demonstrate a reading knowledge of a language other than French and English by (1) passing a reading examination, (2) completing 204-level or higher course work in the additional language with a grade of B (3.0) or better documented by an official transcript, or (3) obtaining a score of 400 or higher on the department’s Computerized Adaptive Placement Exam. Contact the Director of Graduate Study in French for details.
Reading List
The student will read a prescribed list of major works of French literature.
Comprehensive Examination (Capstone Experience)
The student must pass a written comprehensive examination based on the reading list and course work taken. Please consult with the Director of French Graduate Study to set a date for this examination.

Thesis (thesis option only - 6 hours)
FRE 699 Thesis (6)
Students selecting this option must write a thesis under the guidance of a committee consisting of a chair and two other members of the graduate faculty. An oral examination on the thesis is required. Please consult with the Director of French Graduate Study for further information.

SPANISH CONCENTRATION
Required Course (3 hours)
One 600-level literature seminar (either SPA 603 or SPA 604)
Core Courses in Spanish and Romance Languages (15-21 hours)
In consultation with the Director of Spanish Graduate Study, the student must select courses at the 500-level or above as indicated:
Thesis option: at least 15 semester hours
Non-thesis option: at least 21 semester hours
Electives (6 hours)
In consultation with the Director of Spanish Graduate Study, the student may elect to take either 6 hours of Spanish courses listed below or 6 hours of graduate courses in a related field.
Additional Language Requirement
The student will demonstrate a reading knowledge of a language other than French and English by (1) passing a reading examination, (2) completing 204-level or higher course work in the additional language with a grade of B (3.0) or better documented by an official transcript, or (3) obtaining a score of 400 or higher on the department’s Computerized Adaptive Placement Exam. Contact the Director of Graduate Study in Spanish for details.
Reading List
Students will read a prescribed list that includes major works on Spanish and Spanish American literature as well as works on Spanish and Spanish American culture and civilization, and Hispanic linguistics. Students should consult regularly with the graduate director, and with faculty specializing in the various areas, while working to complete preparation of the reading list.
Comprehensive Examination (Capstone Experience)

Students must pass a written comprehensive examination based on the reading list. The examination is scheduled once a semester in the fall and spring. Please consult with the Director of Spanish Graduate Study for the dates of these examinations.

**French Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>507</td>
<td>Teaching French Through French Literature (3:3)</td>
<td>Pr. 353 or permission of instructor</td>
<td>Strategies for teaching the French language through its literature. All major genres represented.</td>
</tr>
<tr>
<td>511</td>
<td>The Theory and Practice of French Translation (3:3)</td>
<td>Pr. 315 or permission of instructor</td>
<td>An exploration of the theory and practice of translation from and into French.</td>
</tr>
<tr>
<td>532</td>
<td>French and Francophone Civilization and Culture (3:3)</td>
<td>Pr. 331, 332, or 496, or permission of instructor</td>
<td>Study of the vast heritage of French civilization. Discovery of the historical, geographical, sociological, political, cultural and artistic life of France and the Francophone world.</td>
</tr>
<tr>
<td>553</td>
<td>Topics in French Literary Movements (3:3)</td>
<td>Pr. 353 or permission of instructor</td>
<td>In-depth study of a major literary trend: classicism, manners, realism, naturalism, and others. May be repeated for credit when topic varies.</td>
</tr>
<tr>
<td>554</td>
<td>Topics in French Prose Fiction (3:3)</td>
<td>Pr. 353 or permission of instructor</td>
<td>Studies in prose fiction—roman, conte, nouvelle, etc.—through a variety of critical and historical approaches, each topic focusing on one such approach. May be repeated for credit when topic varies.</td>
</tr>
<tr>
<td>555</td>
<td>Topics in French Poetry (3:3)</td>
<td>Pr. 353 or permission of instructor</td>
<td>Studies in French poetry through a variety of critical and historical approaches. May be repeated for credit when topic varies.</td>
</tr>
<tr>
<td>556</td>
<td>Topics in French Theatre (3:3)</td>
<td>Pr. 353 or permission of instructor</td>
<td>Studies in French theatre through a variety of critical and historical approaches. May be repeated for credit when topic varies.</td>
</tr>
<tr>
<td>557</td>
<td>Advanced Topics in French Literature (3:3)</td>
<td>Pr. 353 or permission of instructor</td>
<td>Nontraditional perspectives on literature in the French language: thematic topics and others. May be repeated for credit when topic varies.</td>
</tr>
<tr>
<td>558</td>
<td>Topics in Francophone Literature (3:3)</td>
<td>Pr. 353 or permission of instructor</td>
<td>Studies in Francophone literature through a variety of aspects or genres, each topic focusing on one such aspect or genre. May be repeated for credit when topic varies.</td>
</tr>
</tbody>
</table>

**Thesis** (thesis option only - 6 hours)

SPA 699 Thesis (6)

Students selecting this option must write a thesis under the guidance of a committee consisting of a chair and two other members of the Graduate Faculty. An oral examination on the thesis is required. Please consult with the Director of Spanish Graduate Study for further information.
Italian Courses

517 The Auteur Director (3:2:3)
Pr. BCN 171 or ENG 330 or permission of instructor
Works of an individual film director. Subject differs from offering to offering. May be repeated for credit when topic varies. (Same as FRE and SPA 561)

518 Studies in Film Genre (3:2:3)
Pr. BCN 171 or ENG 330 or permission of instructor
Technical, dramatic, social, and rhetorical dimensions of a film genre or genres. Subject differs from offering to offering. May be repeated for credit when topic varies. (Same as FRE and SPA 562)

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

Romance Languages Courses

600 Methods of Teaching Romance Languages (3:3)
Pr. departmental appointment as a TA or any graduate student with an interest in applied linguistics
Methods and techniques for teaching Romance languages at the college level.

601 Research Methods and Critical Analysis (3:3)
Pr. admission to M.A. in Romance languages or departmental permission
Research and analysis in literary and cultural criticism, emphasizing applications to Hispanic and/or French/Francophone literatures and cultures. Designed especially for entering M.A. students.

502 Topics in Spanish Literature (3:3)
Pr. one 400-level Hispanic literature course or permission of department
In-depth study, through a variety of critical and historical approaches, based on themes, geographical areas, outstanding figures, genres, or periods. May be repeated for credit when topic varies.

504 Topics in Spanish American Literature (3:3)
Pr. one 400-level Hispanic literature course or permission of department
In-depth study, through a variety of critical and historical approaches, based on geographical areas, outstanding figures, genres, or periods. May be repeated for credit when topic varies.

516 Introduction to Spanish Syntax (3:3)
Pr. 415 or permission of department
Analysis of Spanish grammar: syntactic categories and phrase structure.

532 Spanish Culture and Civilization (3:3)
Pr. one 400-level Hispanic literature course or permission of department
Development of Spanish culture. Historical and geographical background for study of 20th century Spain. Special emphasis on customs, national traits, arts, and institutions.

534 Spanish American Culture and Civilization (3:3)
Pr. one 400-level Hispanic literature course or permission of department
Development of Spanish-American culture.

535 US Latino/-a Cultural Studies
Pr. one 400-level Hispanic literature course or permission of department
Examination of issues relating to U.S. Latino/-a ethnic identity as defined in literature, performance, art, music, and film. Special emphasis given to the dialogue with the English-speaking community.

561 The Auteur Director (3:2:3)
Pr. BCN 171 or ENG 330 or permission of department
Works of an individual film director. Subject differs from offering to offering. May be repeated for credit when topic varies. (Same as FRE 561 and ITA 517)

562 Studies in Film Genre (3:2:3)
Pr. BCN 171, or ENG 330, or permission of department
Technical, dramatic, social, and rhetorical dimensions of a film genre or genres. Subject differs from offering to offering. May be repeated for credit when topic varies. (Same as FRE 562 and ITA 518)

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.
603 Seminar in Spanish Literature (3:3)
   Pr. ROM 601 or permission of department
   Advanced study and investigation of current scholarship on a topic of Spanish literature. May be repeated for credit when topic varies.

604 Seminar in Spanish American Literature (3:3)
   Pr. ROM 601 or permission of department
   Advanced study and investigation of current scholarship on a topic of Spanish American literature. May be repeated for credit when topic varies.

605 Seminar in Hispanic Linguistics (3:3)
   Pr. permission of department
   Advanced study and investigation of current scholarship on a topic of Hispanic linguistics. May be repeated for credit when topic varies.

610 History of the Spanish Language (3:3)
   Phonological and morphological development of Spanish, with readings in the external history of the language.

693 Special Topics in Spanish Language and/or Literature (3:3)
   Pr. permission of instructor and Director of Spanish Graduate Study
   Study of Hispanic language and literature.

695 Directed Study (3)
   Pr. permission of instructor and Director of Spanish Graduate Study
   Directed program of reading or research in an area of special interest in Hispanic studies. Regular conferences with the instructor will be scheduled.

697 Internship in Spanish (3:3) (SVL)
   Pr. admission to M.A. or post-baccalaureate certificate in Spanish; minimum of 6 semester hours completed and minimum 3.0 GPA; must be planned and requested one semester prior to placement; permission of instructor
   Field experience at public or nonprofit agencies or other professional settings that require interaction with native speakers. Academic instruction and supervision by faculty coordinator; field direction by site supervisor(s).

699 Thesis (1-6)

711 Experimental Course
   This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

801 Thesis Extension (1-3)

803 Research Extension (1-3)
Professors

Elizabeth W. Lindsey, Ph.D.
Services to individuals and families, homelessness, strength based practice.

John Rife, Ph.D.
Social and economic impacts of unemployment and income deficiency upon older workers, families and the homeless, and evaluation of model programs to serve these populations.

Cathryne L. Schmitz, Ph.D.
Oppression, multicultural education, immigrant refugee communities, organizational change, environmental social work. (Chair of Department).

Robert J. Wineburg, Ph.D.
Relationship between federal domestic social welfare policy and local service provision, the involvement of religious organizations in local social service delivery and policy development.

Associate Professors

Jacalyn A. Claes, Ph.D.
Clinical social work supervision, family and marital therapy, diversity and women’s spirituality (Co-Director of Joint Master of Social Work program).

Susan Dennison, M.S.W.
School social work, clinical social work.

Elisabeth P. Hurd, Ph.D.
Families and children, interpersonal violence, law and social work, program evaluation.

Melissa Floyd Taylor, Ph.D.
Mental health and psychiatric social work.

Assistant Professor

Tanya Coakley, Ph.D.
Foster care and child welfare.

Visiting Assistant Professor

Noel Bost, Ph.D.
Youth aging out of foster care, delinquency.

Academic Professional Assistant Professor

Janet H. Kanode, M.S.W.
(Co-Director of Field Instruction).

Adjunct Faculty at North Carolina A & T State University

Associate Professors

Arnold Barnes, Ph.D.
(Co-Director of Joint Master of Social Work program).

Wayne Moore, Ph.D.

Assistant Professors

Yoko Crume, Ph.D.

Velma Tyrance, M.S.W.
The Joint Master of Social Work (M.S.W.) program represents the efforts of faculty at North Carolina Agricultural and Technical State University (NCA&T) and The University of North Carolina at Greensboro (UNCG).

This is a single academic program with participation in instruction by faculty from each department. Instruction is conducted on the campuses of both universities.

Successful completion of the degree requires 60 semester credit hours. Full-time and part-time options are available. The program is accredited by The Council on Social Work Education.

The curriculum has been designed by the joint faculty to provide students with advanced generalist social work education. The model for the curriculum is based on contemporary, state-of-the-art theory and practice methods. Courses reflect the theme of providing effective services to families in urban and rural North Carolina communities. The curriculum is organized by foundation, concentration, and field instruction. The primary purpose of the M.S.W. program is to prepare students for advanced generalist social work practice.

Program Goals
1. To prepare graduate students for employment as advanced generalist social work practitioners in direct and indirect practice.
2. To provide students with a graduate advanced generalist social work curriculum which results in the acquisition and demonstration of:
   a. Knowledge of human behavior and the social environment, social welfare policy, research, practice methods, cultural diversity, populations at-risk, social and economic justice, and social work values and ethics as a foundation for generalist social work practice.
   b. Advanced generalist multicultural social work practice skills with individuals, families, groups, organizations, and communities.
   c. The professional self as reflected in an affiliation with the profession of social work.
   d. The values and ethics of professional social work practice as stated by the National Association of Social Workers Code of Ethics.
3. To provide professional service which ameliorates social problems, provides leadership and benefits our communities in North Carolina.
4. To conduct and disseminate research which contributes to the knowledge base for effective social work practice.

Curriculum Plan
The curriculum design of the program provides students with a theoretical and applied education in social work to enhance and promote advanced generalist social work education. The program is organized to insure that all students, as advanced social work practitioners, will be prepared to independently engage in social work practice with individuals, families, small groups, organizations, and communities in their chosen area of practice. Students will also be prepared to serve as supervisors, managers, researchers and social planners. The concentration of the program is advanced generalist practice.

Foundation Year Curriculum
In the foundation curriculum, students complete 30 semester hours of course work. Students complete courses in human behavior and social functioning, social welfare policy, social work practice and human diversity, social work practice with individuals and families, and social work practice with groups. Students also complete a second human behavior and social functioning course, social work practice with communities and organizations, social work research methods, and a six semester hour foundation field instruction placement and seminar. The purpose of the foundation course work is to prepare students for the advanced generalist practice year.

Advanced Year Curriculum
In the advanced generalist concentration curriculum, students complete an additional 30 semester hours of course work. Students choose one of two advanced generalist practice areas: families and youth at-risk or mental health/health. Students complete two courses in their advanced generalist practice area, advanced courses in social welfare policy, administration, and research, and they complete two semesters of advanced generalist field instruction which includes a field seminar and a capstone project. Students also complete one graduate level elective. Choice of this elective requires the approval of the student’s educational advisor.

Advanced Standing Option
Advanced Standing Option students begin their graduate course work in the first Summer Session taking 12 hours of courses in the two sessions. This course work builds a content bridge between Bachelor of Social Work course work and the advanced year curriculum of the M.S.W. program.

Admission Requirements
A Joint Admissions Committee comprised of faculty members from UNCG and NCA&T use a common evaluation system to review applications and recommend applicants for admission.
The Department of Social Work offers a Joint Master of Social Work program with the Department of Sociology and Social Work at NCA&TSU. Full-time, part-time, and advanced standing program options are available. Students in the full-time option complete the required 60 hours during a two-year period; the part-time option takes three years; and the advanced standing option requires 42 hours in one calendar year. Admission, program, course, and curriculum requirements are the same for both program options. No academic credit is given for life or work experience. Students must complete courses in the prescribed sequence in order to progress successfully to completion of the degree program.

Part-time Program Option:

Year One: Foundation Courses (15 hours)

First Semester (Summer - 3 hours)
SWK 621 Social Welfare Policy and Analysis I (3)

Second Semester (Fall - 6 hours)
SWK 620 Human Behavior and Social Functioning I (3)
SWK 622 Social Work Practice with Individuals and Families (3)

Third Semester (Spring - 6 hours)
SWK 623 Social Work with Groups (3)
SWK 624 Social Work Practice and Human Diversity (3)

Year Two (18 hours)

First Semester (Summer - 6 hours)
SWK 628 Field Instruction I (5)
SWK 629 Field Seminar I (1)

Second Semester (Fall - 6 hours)
SWK 625 Human Behavior and Social Functioning II (3)
SWK 627 Social Work Practice with Communities and Organizations (3)

Third Semester (Spring - 6 hours)
SWK 636 Social Work Research Methods (3)
SWK 633 Social Welfare Policy and Analysis II (3)

MSW Requirements for the Master of Social Work

The Department of Social Work offers a Joint Master of Social Work program with the Department of Sociology and Social Work at NCA&TSU.

Full-time, part-time, and advanced standing program options are available. Students in the full-time option complete the required 60 hours during a two-year period; the part-time option takes three years; and the advanced standing option requires 42 hours in one calendar year. Admission, program, course, and curriculum requirements are the same for both program options. No academic credit is given for life or work experience. Students must complete courses in the prescribed sequence in order to progress successfully to completion of the degree program.

The review process ensures a consistent and fair evaluation of applicants.

In addition to the application materials required by The Graduate School, applicants must submit a personal statement and show evidence of a liberal arts foundation that includes 8 credit hours of Social and Behavioral Sciences (political science, psychology, anthropology, economics, ethnic/global studies, history and sociology); 6 credit hours of Humanities; 3 credit hours of Human Biology; and 3 credit hours of Statistics.

Applicants must demonstrate intellectual and personal qualifications considered essential to the successful practice of social work, such as sensitivity and responsiveness in relationships, concern for the needs of others, adaptability, good judgment, creativity, integrity, and skill in oral and written communication.

The M.S.W. program does not grant academic credit for life or work experience. Only students who have been admitted to the program may take social work courses. Only students who have been admitted to the program and who have completed all required prerequisite course work may be admitted to practice courses and to the field instruction program. Specific policies governing student progression in the program may be found in the JMSW Student Handbook and in the JMSW Field Instruction Handbook.

Applicants to the Advanced Standing option must have earned a Bachelor of Social Work degree from a Council on Social Work Education accredited program, have a GPA in social work courses of 3.2 or better, and provide a letter of recommendation from his/her B.S.W. field supervisor (as one of the three recommendations required).

School Social Work Licensure

Students intending to become licensed at the graduate level for school social work by the North Carolina Department of Public Instruction need to complete the Licensure Program, which has been developed with the School of Education.

In addition to completing the requirements for the JMSW Program, the student must be admitted to the Teacher Education Program and successfully complete SWK 582. The advanced year field instruction (SWK 635 and 640) must be taken in a school social work setting. Graduate licensure in school social work is granted by the North Carolina Department of Public Instruction. Students interested in school social work licensure should contact the school social work advisor in the Department of Social Work.
Year Three (27 hours)
First Semester (Summer - 3 hours)
SWK 639 Social Work in Administration (3)

Second Semester (Fall - 12 hours)
SWK 634 Research Designs and Data Analysis for Social Work Practice (3)
SWK 635 Field Instruction II (5)
SWK 636 Field Seminar II (1)
SWK 637 Social Work with Families I (3) or SWK 638 Social Work in Health and Mental Health I (3)

Third Semester (Spring - 12 hours)
SWK 640 Field Instruction III (5)
SWK 641 Field Seminar III (1)
SWK 642 Social Work with Families II (3) or SWK 643 Social Work in Health and Mental Health II (3)
Elective (3)
Capstone

Full-time Program Option:
Year One: Foundation Courses (30 hours)
First Semester (Fall - 15 hours)
SWK 620 Human Behavior and Social Functioning I (3)
SWK 621 Social Welfare Policy and Analysis I (3)
SWK 622 Social Work Practice with Individuals and Families (3)
SWK 623 Social Work with Groups (3)
SWK 624 Social Work Practice and Human Diversity (3)

Second Semester (Spring - 15 hours)
SWK 625 Human Behavior and Social Functioning II (3)
SWK 626 Social Work Research Methods (3)
SWK 627 Social Work Practice with Communities and Organizations (3)
SWK 628 Field Instruction I (5)
SWK 629 Field Seminar I (1)

Year Two: Advanced Curriculum (30 hours)
First Semester (Fall - 15 hours)
SWK 633 Social Welfare Policy and Analysis II (3)
SWK 634 Research Designs and Data Analysis for Social Work Practice (3)
SWK 635 Field Instruction II (5)
SWK 636 Field Seminar II (1)
SWK 637 Social Work with Families I (3) or SWK 638 Social Work in Health and Mental Health I (3)

Second Semester (Spring - 15 hours)
SWK 639 Social Work in Administration (3)
SWK 640 Field Instruction III (5)
SWK 641 Field Seminar III (1)
SWK 642 Social Work with Families II (3) or SWK 643 Social Work in Health and Mental Health II (3)
One 3 hour elective
Capstone

ADVANCED STANDING OPTION
The 42 hour Advanced Standing Option is designed to allow highly qualified students to earn the Master of Social Work degree in one calendar year by building on knowledge and skills previously attained through Bachelor of Social Work course work.

Required Summer Bridge Courses (12 hours)
SWK 624 Social Work Practice and Human Diversity (3)
SWK 626 Social Work Research Methods (3)
SWK 631 Social Work with Individuals and Families: Theory and Practice (3)
SWK 632 Social Work with Groups, Communities, and Organizations (3)

Upon successful completion of the above courses during the summer, Advanced Standing students will join the ongoing M.S.W. full-time class in Year 2: Advanced Year Curriculum (see the Full-time Program Option).

Courses for M.S.W. Majors

620 Human Behavior and Social Functioning I (3:3)
Pr. admission to the M.S.W. program
Theories of human behavior and intervention with people in a variety of systems viewed from biological, sociological, and psychological perspectives. (formerly SWK 501)

621 Social Welfare Policy and Analysis I (3:3)
Pr. admission to the M.S.W. program
Explores the history and development of social welfare institutions and social work. Examines the relationships between social problems, social policies, and social work practice from historical and contemporary perspectives. (formerly SWK 502)

622 Social Work Practice with Individuals and Families (3:3)
Pr. admission to the M.S.W. program
Defines and describes direct social work practice; knowledge, skills and values necessary to provide a wide scope of developmental, preventive and therapeutic services to individuals and families. (formerly SWK 504)

623 Social Work with Groups (3:3)
Pr. admission to the M.S.W. program
Advanced course designed to teach group process and strategies, techniques, and skills for working with groups such as support groups and task groups in human services settings. (formerly SWK 560)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
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<tbody>
<tr>
<td>624</td>
<td>Social Work Practice and Human Diversity (3:3)</td>
<td>Pr. admission to the M.S.W. program</td>
<td>Examines cultural and social diversity; addresses theoretical and practical dimensions of social work practice with oppressed people of color, women, the aged, the sexually diverse, and the physically disabled. (formerly SWK 511)</td>
</tr>
<tr>
<td>625</td>
<td>Human Behavior and Social Functioning II (3:3)</td>
<td>Pr. admission to the M.S.W. program and 620, 621, 622, and 623</td>
<td>Provides students with concepts and knowledge necessary to understand family development, functioning, stress and diversity. Emphasizes the bio-psycho-spiritual nature of people in their family environment. (formerly SWK 515)</td>
</tr>
<tr>
<td>626</td>
<td>Social Work Research Methods (3:3)</td>
<td>Pr. admission to the M.S.W. program</td>
<td>Research methodology as it relates to the professional practice of social work. Examines quantitative and qualitative methods as means for solving social problems. (formerly SWK 503)</td>
</tr>
<tr>
<td>627</td>
<td>Social Work Practice with Communities and Organizations (3:3)</td>
<td>Pr. admission to the M.S.W. program and 620, 621, 622, 623, and 626</td>
<td>Practice in macro social work with broad scale social systems. Students acquire knowledge, analytical skills and professional behavior appropriate for work with groups, communities and organizations. (formerly SWK 514)</td>
</tr>
<tr>
<td>628</td>
<td>Field Instruction I (5:0:24)</td>
<td>Pr. admission to the M.S.W. program and 620, 621, 622, 623, and 624. Coreq. 629</td>
<td>Application of theories and concepts to the role of a professional social work practitioner within a field agency. Taken concurrently with 629 Field Seminar I. (Graded on S-U basis) (formerly SWK 516)</td>
</tr>
<tr>
<td>629</td>
<td>Field Seminar I (1:1)</td>
<td>Pr. admission to the M.S.W. program and 620, 621, 622, 623, and 624. Coreq. 628</td>
<td>Field seminar to be taken concurrently with 628 Field Instruction I; assists students to integrate theory and classroom knowledge into their agency field practice. (formerly SWK 517)</td>
</tr>
<tr>
<td>631</td>
<td>Social Work with Individuals and Families: Theory and Practice (3:3)</td>
<td>Pr. admission to the Advanced Standing program option</td>
<td>Emphasis on the practice of social work in assessment and intervention using personality theory, family theory and the family life cycle, and social work theory.</td>
</tr>
<tr>
<td>632</td>
<td>Social Work with Groups, Communities, and Organizations (3:3)</td>
<td>Pr. admission to the Advanced Standing program option</td>
<td>Emphasis on the practice of social work with groups and within communities and organizations through the examination and application of an advanced generalist framework.</td>
</tr>
<tr>
<td>633</td>
<td>Social Welfare Policy and Analysis II (3:3)</td>
<td>Pr. admission to the M.S.W. program and 620, 621, 622, 623, and 626</td>
<td>Reviews outcomes of social work practice in legislation, administrative and judicial directives, rulings and interpretations in the area of government; accountability of the delivery systems to their clients. (formerly SWK 512)</td>
</tr>
<tr>
<td>634</td>
<td>Research Designs and Data Analysis for Social Work Practice (3:3)</td>
<td>Pr. admission to the M.S.W. program and 620, 621, 622, and 626</td>
<td>Advanced skills in (a) conceptualizing research problems, (b) completing research in the social work domains: needs assessment, program evaluation, and single subject research, and (c) using inferential skills for data analysis. (formerly SWK 513)</td>
</tr>
</tbody>
</table>

In addition to the prerequisites listed for courses 635-643, the following prerequisites are also applicable: Admission to the M.S.W. program and completion of all foundation year courses: 620, 621, 622, 623, 624, 625, 626, 627, 628, and 629; or admission to the Advanced Standing option.

<table>
<thead>
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<tr>
<td>635</td>
<td>Field Instruction II (5:0:24)</td>
<td>Coreq. 634 and either 637 or 638</td>
<td>Application of theories and concepts to the role of a professional social work practitioner within a field agency. Taken concurrently with 636 Field Seminar II. (Graded on S-U basis) (formerly SWK 606)</td>
</tr>
<tr>
<td>636</td>
<td>Field Seminar II (1:1)</td>
<td>Coreq. 634, 635, and either 637 or 638</td>
<td>Field seminar to be taken concurrently with 635 Field Instruction II; assists student to integrate theory and classroom knowledge into their agency field practice. (formerly SWK 607)</td>
</tr>
<tr>
<td>637</td>
<td>Social Work with Families I (3:3)</td>
<td>Pr. 633, 634, 635, and either 637 or 638</td>
<td>Advanced generalist social work practice with families, theory and intervention strategies, the influence of culture and gender upon family functioning, and use of self as a professional practitioner. (formerly SWK 601)</td>
</tr>
<tr>
<td>638</td>
<td>Social Work in Health and Mental Health I (3:3)</td>
<td>Pr. admission to the Advanced Standing program option</td>
<td>Advanced generalist social work practice in health and mental health, theory and intervention strategies, current policy initiatives, and social work roles. (formerly SWK 602)</td>
</tr>
<tr>
<td>639</td>
<td>Social Work in Administration (3:3)</td>
<td>Pr. admission to the Advanced Standing program option</td>
<td>Advanced generalist social work practice in social work administration, theory and practice strategies, the influence of culture and gender upon managerial practice, and the use of self as a professional practitioner. (formerly SWK 605)</td>
</tr>
<tr>
<td>640</td>
<td>Field Instruction III (5:0:24)</td>
<td>Pr. 633, 634, 635, and either 642 or 643</td>
<td>Application of theories and concepts to the role of a professional social work practitioner within a field agency. Taken concurrently with 641 Field Seminar III. (Graded on S-U basis) (formerly SWK 616)</td>
</tr>
<tr>
<td>641</td>
<td>Field Seminar III (1:1)</td>
<td>Pr. 633, 634, 635, and either 642 or 643</td>
<td>Field seminar to be taken concurrently with 640 Field Instruction III; assists student to integrate theory and classroom knowledge into their agency field practice. Includes capstone project. (formerly SWK 617)</td>
</tr>
</tbody>
</table>
Additional Social Work Courses

510 Selected Topics in Social Work (3:3)
Pr. permission of instructor
Opportunity for students to study in depth a topic of special interest. May be repeated for credit when topics vary.

520 Methods and Practice of Family and Marital Therapy (3:3)
Pr. permission of instructor
Systems/communications approach to marital and family therapy. Students develop ability to apply concepts to understand and intervene in family systems. Related therapeutic concepts and techniques also discussed.

522 Comparative Study of Cross-cultural Social Work Practice (3:3)
Pr. 620, 621, 622, 623, 624, 625, 626, 627, 628, or permission of instructor
Compares social work, social service programs, and social policies of the U.S. with those of selected other countries throughout the world, emphasizing services for families, children, and vulnerable populations. May be repeated for credit when topic varies.

527 Human Services for Immigrants and Refugees (3:3)
Pr. permission of instructor
The history of immigration and its role in the U.S., immigrants in North Carolina, their process of integration, cross-cultural competency, and the challenges in services delivery to immigrants.

530 Social Agency Program Development (3:3)
Pr. permission of instructor
Organization of new agencies or those initiating additional services. Needs assessment, resource development, agency operations, and relationships with funding agencies.

550 Social Services in Health Care (3:3)
Pr. permission of instructor
Examination of social services in health care settings. Emphasis on organizational context, interdisciplinary cooperation, and skill required for work in primary care setting.

551 Special Problems in Social Work (1-3)
Pr. permission of instructor
Opportunity for student to pursue intensive independent study of particular topic under the direction of social work faculty member.

554 Social Work with People Who are Mentally Ill (3:3)
Pr. permission of instructor
Will provide knowledge and skills necessary for practicing effective social work with people who are mentally ill and their families.
Professors
Rebecca G. Adams, Ph.D.
Friendship, popular culture, community, aging (Director of Graduate Study).
Steve Kroll-Smith, Ph.D.
Social psychology, environment, health.
William T. Markham, Ph.D.
Stratification, non-government organizations, environmental sociology, globalization, voluntary associations, community.
James C. Petersen, Ph.D.
Applied sociology, organizations, science and technology studies, medical sociology.

Associate Professors
Kenneth D. Allan, Ph.D.
Theory, culture, self, institutions.
Julie V. Brown, Ph.D.
Sociology of health, Soviet and Russian society, occupations and professions, comparative and historical sociology (Head of Department).
Steven R. Cureton, Ph.D.
Criminology and the family.
Paul Luebke, Ph.D.
Sociology of politics, social movements, social change, and comparative societies.
Saundra D. Westervelt, Ph.D.
Sociology of law, crime and deviance, miscarriages of justice.

Assistant Professors
Shelly L. Brown-Jeffy, Ph.D.
Sociology of education, race and ethnicity, research methods.
Jenifer L. Hamil-Luker, Ph.D.
Life course studies, crime, gender, health.
Gwen Hunnicutt, Ph.D.
Gender and crime, violence and society.
David F. Mitchell, Ph.D.
Urban sociology, population studies, research methods, data analysis.
Stephen J. Sills, Ph.D.
Globalization, international migration, visual sociology, evaluation research.

Adjunct Assistant Professor
Janice Wassel, Ph.D.
Retirement, work and caregiving, financial gerontology and sociology, demography of aging, business and aging.

The program leading to a Master of Arts degree in sociology prepares students for further study, for research and administrative positions in public or private organizations, and for teaching sociology in a variety of settings. All of the students in the program acquire a general foundation in sociology, and some elect to complete a concentration in criminology. Other special interests may be pursued in particular substantive, applied, or cognate courses and extended in the writing of a thesis or completion of an internship.
MA

Requirements for the Master of Arts in Sociology

The Department of Sociology offers a graduate program of study leading to a Master of Arts degree. Two options are available: Thesis option requiring 30 hours of graduate study including 6 hours of thesis. At least 15 hours must be at the 600 level. Non-thesis option requiring 36 hours of graduate study including a 6 hour internship. At least 18 hours must be at the 600 level or above.

Required Core Courses (12 hours)
- SOC 614 Contemporary Sociological Theory (3)
- SOC 616 Advanced Research Methods (3)
- SOC 618 Advanced Data Analysis (3)
- SOC 620 Seminar in Sociology (3)

Electives
Thesis Option (12 hours)
With prior approval of the advisor, a student will select a minimum of 12 hours from other 500- or 600-level sociology courses, or from other social science courses.

Non-thesis Option (18 hours)
With prior approval of the advisor, a student will select a minimum of 18 hours from other 500- or 600-level sociology courses, or from other social science courses.

Comprehensive Examination
Successful completion of a thesis-proposal or internship-proposal defense satisfies the comprehensive examination requirement.

Capstone Experience
Thesis Option (6 hours)
SOC 699 Thesis (6)

Non-thesis Option (6 hours)
SOC 695 Internship (6)

CRIMINOLOGY CONCENTRATION
The Department of Sociology offers a concentration in criminology. Students completing this concentration may elect either the thesis or non-thesis option. The requirements are as follows:

Required Core Courses (21 hours)
- SOC 614 Contemporary Sociological Theory (3)
- SOC 616 Advanced Research Methods (3)
- SOC 618 Advanced Data Analysis (3)
- SOC 620 Seminar in Sociology (3)
- SOC 651 Criminology (3)
- SOC 653 Deviance and Social Control (3)
- SOC 655 The Sociology of Law (3)

Electives
Thesis Option (3 hours)
With prior approval of the advisor, a student will select a minimum of 3 hours from other 500- or 600-level sociology courses, or from other social science courses.

Non-thesis Option (9 hours)
With prior approval of the advisor, a student will select a minimum of 9 hours from other 500- or 600-level sociology courses, or from other social science courses.

Comprehensive Examination
Successful completion of a thesis-proposal or internship-proposal defense satisfies the comprehensive examination requirement.

Capstone Experience
Thesis Option (6 hours)
SOC 699 Thesis (6)

Non-thesis Option (6 hours)
SOC 695 Internship (6)

Sociology Courses

SOC

501, 502 Selected Topics in Sociology (3:3), (1:3)
Pr. major in sociology or permission of instructor
Opportunity for advanced students to study topics or issues of special interest in a formally organized course.

526 Comparative Minority Relations (3:3)
Pr. 6 hours in sociology or permission of instructor
Comparative study of ethnic, class, and cultural conflict in developing and developed societies. Attention is given to the impact of ethnicity and class conflict upon societal development and change in the international setting.

533 Political Sociology (3:3)
Pr. one course in the field of large-scale social organization, or permission of instructor
Influence of social values and social forces upon government policy, and of government policy upon society. Examination of conflicting political sociological theories.
552 Sociology of Science and Technology (3:3)  
Pr. 6 hours of sociology at 300 level or above, or permission of the instructor  
Nature and origins of modern science; relations of science and technology; science in democratic and authoritarian societies; images of scientists; origins and recruitment of scientists; career patterns; the organizational setting.

553 Sociology of Occupations and Professions (3:3)  
Pr. 3 hours of sociology or permission of instructor  
Nature and significance of work; cultural perspectives on work; occupational choice; socialization into work endeavors; career patterns; control of occupations and professions; labor and leisure; relationships to community and society.

555 Sociology of the Family (3:3)  
Pr. 301, 302, and 335, or permission of instructor  
Critical examination of various ways of studying the family, with consideration given to methodology, statistical treatment of the data, and substantive findings.

562 Sociology of Education (3:3)  
Pr. 6 hours of sociology at 300 level or above, or permission of instructor  
Education as a dynamic and changing social system. Internal processes and structure of educational institutions and their interdependent relations with the environment.

571 Advanced Topics in Social Psychology (3:3)  
Pr. 3 hours in sociology and 3 hours in psychology or permission of instructor  
Social impact, exchange, equity, and attribution theories intensively examined as basic in understanding specific substantive problems of reciprocal influences of groups and individuals in socio-cultural context.

589 Experimental Course  
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

601 Seminar in Sociological or Criminological Analysis (3:3)  
Pr. 618 or permission of instructor  
Intensive work at an advanced level on a selected topic in sociology or criminology.

605 Sociology of Organizations (3:3)  
Pr. permission of instructor  
Organization theory and structure. Construction of organizational models.

614 Contemporary Sociological Theory (3:3)  
Pr. 490 or permission of the instructor  
Selected major theoretical perspectives: functionalism, conflict, and alternative models.

615 The Logic of Social Inquiry (3:3)  
Logical bases of conceptualization and theory formulation. Both sociological theory and methods of research will be considered from the perspectives of philosophies of sciences.

616 Advanced Research Methods (3:3)  
The function of theory in research, concept formation, study design, data collection and analysis.

618 Advanced Data Analysis (3:2:2)  
Pr. 302 or permission of instructor  
Application of advanced statistical concepts and procedures in multivariate analyses of discrete and continuous data.
655 **The Sociology of Law (3:3)**
Social influences on the legal system are analyzed. Attention given to: social organization of law; legal and extra-legal considerations; and law as a means of social control and change. (Formerly Law and Society)

661 **Sociology of Health (3:3)**
*Pr. 101 or permission of instructor*
American Health Care System. Organization, utilization, effectiveness, cost; roles of providers, consumers; the context of care and the place of government.

686 **Social Aspects of Aging (3:3)**
*Pr. 3 hours in sociology or permission of instructor*
Structural and social psychological theories of aging. Substantive topics determined by students. Focus on critical review of current research.

695 **Internship (3-6)**
*Pr. twenty-one hours in sociology at 500-level or above*
Directed practical experience in a professional setting in the student's area of interest. Includes written paper(s) applying sociological theories and methodologies to analysis of the setting.

697, 698 **Special Problems in Sociology (3:3), (3:3)**
*Pr. permission of faculty member with whom students wish to work*
Independent study or research.

699 **Thesis (1-6)**

711 **Experimental Course**
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

801 **Thesis Extension (1-3)**

803 **Research Extension (1-3)**
The primary goal of the Department of Specialized Education Services is to prepare professionals for diverse roles in working with individuals with disabilities and other exceptional needs across the life span in a variety of community and educational environments. Programs in the department emphasize the delivery of services in integrated settings, with a focus on interdisciplinary and interagency collaboration. Upon graduation students are prepared for leadership roles in early childhood, special education, and deaf education that enable them to assume positions such as consultant, teacher, early interventionist, community college teacher, special services administrator, advocate and university faculty member or other leadership roles.

All department programs are fully accredited by the National Council for the Accreditation of Teacher Education. Graduate study in the Department of Specialized Education Services may lead to teacher licensure with the degree of Master of Education. All students enrolled in SES programs must meet departmental technical standards.
**PBC Requirements for the Post-Baccalaureate Certificate in Leadership in Early Care and Education**

The Departments of Human Development and Family Studies and Specialized Education Services offer a Post-Baccalaureate Certificate in Leadership in Early Care and Education. The certificate provides students with graduate level training and a credential to pursue careers in leadership positions in early care and education settings including early intervention, Smart Start, resource and referral, and community college instruction. The certificate requires 18 hours of course work and is available to students with a bachelor’s or masters’ degree who do not plan to pursue a degree program or for students who are pursuing a master’s degree in Human Development and Family Studies or Specialized Education Services. If pursuing a master’s degree simultaneously, students must meet all requirements for admission to The Graduate School, Human Development and Family Studies, and Specialized Education Services. The Certificate is also open to graduate students in related fields.

**Required Courses (15 hours)**
- HDF 633 Advanced Early Childhood Educational Theory and Practices (3)
- HDF 634 Contemporary Issues in Early Childhood Policy (3)
- HDF 636 Leadership and Mentoring Roles in Educating Young Children (3)
- SES 601 Programs and Policies in Early Intervention (3)
- SES 605 Diversity and Inclusive Early Care and Education (3)

**Electives (3 hours)**
With the approval of the advisor, students choose 3 hours of electives at the 500 or 600 level.

**PAIL Requirements for Post-Baccalaureate Alternative Initial Teacher Licensure**

This program is designed to provide the opportunity for initial teacher licensure in Special Education: General Curriculum to individuals who have an undergraduate degree in a field other than special education. In PAIL, students complete foundation courses in assessment in special education, instructional practices for students with mild to moderate disabilities, learning theory, and models of teaching. Specialty area courses in instructional practices for students with mild to moderate disabilities provide an introduction to the field, methods for teaching in the field, programming for the field, and clinical field experience. Throughout the course work, students have numerous opportunities to use cases and problem-based learning that include appropriate implementation of inclusive practices.

Students also have an option for transitioning from this program into the M.Ed. program in which they may be eligible for an additional license in learning disabilities (LD) or behavior/emotional disabilities (BED). Up to 18 hours of course work from the plan of study for the Post-Baccalaureate Alternative Initial Teacher Licensure program in Special Education: General Curriculum may be applied to the M.Ed. in special education (with LD and BED options) provided the student meets all admission requirements of The Graduate School and the Department of Specialized Education Services and the application is completed during the first 12 hours taken in the PAIL program. Admission to the Post-Baccalaureate Alternative Initial Teacher Licensure program does not constitute admission to the M.Ed. in special education or any other Graduate School degree program.

**Special Education: General Curriculum (21 hours)**
- SES 540 Introduction to Exceptional Individuals (3)
- SES 640 Policies and Procedures in Special Education (3)
- SES 641 Assessment of Individuals with Special Needs (3)
- SES 642 Mild Disabilities: Reading Instruction (3)
- SES 652 Mild Disabilities: Math/Written Language Instruction (3)
- SES 659 Behavior Management (3)
- SES 661 Teaching Students with Disabilities (3)

**PAIL with M.Ed. and Licensure in Learning Disabilities (LD) or Behavior/Emotional Disabilities (BED) (45 hours)**

Courses listed in General Curriculum plus the following 24 hours:
- ERM 604 Methods of Educational Research (3)
- SES 643 Issues in Educating Individuals with Special Needs (3)
- SES 647 Collaboration and Consultation in Education (3)
- SES 660 Families, Schools, and Students with Exceptionalities (3)
The Department of Specialized Education Services offers a graduate program of study leading to a 39 hour M.Ed. degree in special education: general curriculum and advanced licensure eligibility in learning disabilities (LD) or behavior/emotional disabilities (BED). At least 33 hours in the program of study must be in 600-level courses.

**OPTION 1: For students licensed in special education**

**Core (18 hours)**
- ERM 604 Methods of Educational Research (3)
- SES 641 Assessment of Individuals with Special Needs (3)
- SES 642 Mild Disabilities: Reading Instruction (3)
- SES 643 Issues in Educating Individuals with Special Needs (3)
- SES 647 Collaboration and Consultation in Education (3)
- SES 652 Mild Disabilities: Math/Written Language Instruction (3)

**Categorical Emphasis (12 hours - select one area)**

**LD Option**
- SES 648 Secondary Programming: Students with Mild Disabilities (3)
- SES 649 Practicum in Special Education (3)
- SES 655 Introduction to Learning Disabilities (3)
- SES 656 Methods for Teaching Students with Learning Disabilities (3)

**BED Option**
- SES 648 Secondary Programming: Students with Mild Disabilities (3)
- SES 649 Practicum in Special Education (BED focus) (3)
- SES 657 Introduction to Behavior/Emotional Disabilities (3)
- SES 658 Methods for Teaching Students with Behavior/Emotional Disabilities (3)

**Advanced Area of Focused Study**
(9 hours - select one area)
These credits are determined with approval of the advisor:
- Assistive Technology Emphasis: SES 662, CUI 610, LIS 647, 648, 672
- Reading Emphasis: CUI 614, 615, 616, 617a, 617b, 640
- Leadership Emphasis: ELC 615, 660, 687, 691, 694, 670
- Birth-Kindergarten Emphasis: SES 601, 602, 603
- Alternative Emphasis: courses with a single theme, approved by advisor

**OPTION 2: For students NOT licensed in special education**

**Prerequisites (6 hours)**
- SES 540 Introduction to Exceptional Individuals (3)
- One 3 hour reading course in CUI

**Core (27 hours)**
- SES 640 Policies and Procedures in Special Education (3)
- SES 641 Assessment of Individuals with Special Needs (3)
- SES 642 Mild Disabilities: Reading Instruction (3)
- SES 643 Issues in Educating Individuals with Special Needs (3)
- SES 647 Collaboration and Consultation in Education (3)
- SES 652 Mild Disabilities: Math/Written Language Instruction (3)
- SES 659 Behavior Management (3)
- SES 660 Families, Schools, and Students with Exceptionalities (3)
- ERM 604 Methods of Educational Research (3)

**Categorical Emphasis (12 hours - select one area)**

**LD Option**
- SES 648 Secondary Programming: Students with Mild Disabilities (3)
- SES 649 Practicum in Special Education (LD focus) (3)
- SES 655 Introduction to Learning Disabilities (3)
- SES 656 Methods for Teaching Students with Learning Disabilities (3)
SPECIALIZED EDUCATION SERVICES

The Departments of Specialized Education Services and Human Development and Family Studies (School of Human Environmental Sciences) offer a joint program of study leading to a 39 hour M.Ed. degree. Those who do not have an initial teaching license in B-K will be required to take prerequisite courses to fulfill this requirement. Upon completion of this program of study, students will be eligible for “M” license in birth-kindergarten.

Research Requirements (6 hours)
- ERM 604 Methods of Educational Research (3)
- HDF 650 Theory and Research in Early Childhood (3)

Theory and Practice Requirements (18 hours)
- HDF 631 Families of Individuals with Special Needs (3)
- HDF 633 Advanced Early Childhood Educational Theory and Practices (3)
- HDF 636 Leadership and Mentoring Roles in Educating Young Children (3)
- SES 601 Programs and Policies in Early Intervention (3)
- SES 602 Theory and Practice in Early Intervention (3)
- SES 603 Preschool Disabilities: Assessment and Evaluation (3)

Practicum (6 hours)
- SES 604 Internship in Early Childhood (6)

Special Education M.Ed. Students Portfolio (Capstone Experience)
In addition to satisfactorily completing the above course work, students also are required to submit a portfolio of work that demonstrates their mastery of knowledge and skills in the six program competency areas: multiple service delivery models, interdisciplinary planning and service delivery, advanced skills for assessing learner needs, advanced skills for effective instruction, collaborative planning and intervention, and improved special education services. Each student’s portfolio will be developed in consultation with an advisor and will be based on the student’s particular educational and work experiences. The portfolio is designed during the initial semester, refined each semester, and evaluated during the last semester prior to planned graduation.

**Reflective Essays**
Prior to the completion of the program, each student is required to submit reflective essays that speak adequately to the ways in which products included in the portfolio meet program objectives and demonstrate attainment of competencies required for advanced licensure. An oral presentation related to the reflective portfolio and essays also are required. If the portfolio and presentation do not meet departmental standards, one revision is allowed.

Requirements for the Master of Education in Birth-Kindergarten: Interdisciplinary Studies in Education and Development

The Departments of Specialized Education Services and Human Development and Family Studies (School of Human Environmental Sciences) offer a joint program of study leading to a 39 hour M.Ed. degree. Those who do not have an initial teaching license in B-K will be required to take prerequisite courses to fulfill this requirement. Upon completion of this program of study, students will be eligible for “M” license in birth-kindergarten.

Research Requirements (6 hours)
- ERM 604 Methods of Educational Research (3)
- HDF 650 Theory and Research in Early Childhood (3)

Electives (9 hours)
To be selected from list or with approval of advisor.
- HDF 610 Child Development in Cultural Context (3)
- HDF 621 Advanced Theories and Principles of Parenting (3)
- HDF 653 Contemporary Research in Family Studies (3)
- HDF 667 Infant Development (3)
- SES 608 Seminar in Early Childhood (3)
- SES 647 Collaboration and Consultation in Education (3)
- SES 657 Introduction to Behavior Disorders (3)
- SES 662 Assistive Technology for Inclusive Education (3)
Other courses as approved by advisor.

Professional Portfolio (Capstone Experience)
The final portfolio is the culminating experience for the M.Ed. in Birth-Kindergarten: Interdisciplinary Studies in Education and Development (BKISED). It includes two components: 1) a written document that includes a series of reflective essays and 2) oral defense, discussing the content of the essays and rationale for the use of documents. This portfolio will demonstrate the mastery of skills and knowledge in the program competency areas. It is submitted to the student’s advisor and evaluated by a team of two faculty and one practicing professional. If the portfolio and presentation do not meet departmental standards, one revision is allowed. The final portfolio is required of all students graduating from the BKISED program.
Requirements for the Doctor of Philosophy in Special Education

The Department of Specialized Education Services offers a graduate program of study leading to a Ph.D. in special education for students interested in special education, deaf education, or early intervention. The program requires a minimum of 66 hours beyond the master’s degree, and it emphasizes four areas: generating knowledge to help shape the future of the field; sharing knowledge with others so that they can understand it and use it to improve their practice; facilitating strong professional relationships through collaboration; and creating, interpreting, and implementing special education policy and procedures. Required and elective courses, including the research component, are listed below. Students in the SES doctoral program are required to successfully complete all listed course work. Additional course requirements are determined on an individual basis and in consultation with the student’s major advisor and advisory/dissertation committee.

**Required Core Courses (15 hours)**
- SES 750 Introduction: Doctoral Studies in Specialized Education (3)
- SES 752 Interpersonal and Inter-organizational Collaboration (3)
- SES 754 Special Education Policy and Law (3)
- SES 756 Seminar: Accountability in Specialized Education Services (3)
- SES 758 History and Future of Specialized Education (3)

**Research/Inquiry (21 hours)**
- ERM 642 Evaluation of Educational Programs (3)
- ERM 680 Intermediate Statistical Methods in Education (3)
- ERM 681 Design and Analysis of Educational Experiments (3)

**PhD**

508 International Service-Learning in Special Education (6) (SVL)
*Pr. permission of instructor*
Cross-cultural experience to learn about special education and early childhood practices through a service-learning project, program visits, and professional exchanges. Historical context and cultural practices emphasized.

540 Introduction to Exceptional Individuals (3:3)
Introductory course designed to survey the field of exceptional children. Major attention focused on characteristics of the exceptional child. (May not be taken by students who have credit for PSY 502)

577 Auditory-Oral Communication Practices with Deaf Students (3:3)
*Pr. 240 or equivalent and CSD 334*
Principles and strategies for developing and maintaining spoken language and using residual hearing and speechreading in children with hearing impairments.

543 Inclusion of Individuals with Special Needs (3:3)
*Pr. permission of instructor*
Explores critical issues, service delivery alternatives, and promising practices that promote responsible inclusion of individuals with special needs in integrated learning environments.

**Dissertation (12 hours minimum)**
- SES 799 Dissertation (12)

Each candidate for a doctoral degree must prepare and present a dissertation that focuses on some aspect of special education, that is, in one of the three areas noted above (early childhood, special education, deaf education). This product must demonstrate independent investigation and a synthesis of the skills learned in the program. The dissertation must be acceptable in form and content to the student’s dissertation committee and The Graduate School.

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**Specialized Education Services Courses**

SES 775 Directed Doctoral Research (3) (may be repeated once)

SES 760 Advanced Seminar: Single Subject Research Design (3)

CUI 730 Qualitative Methods in Education or alternative

**Professional Practice (3-6 hours)**
- SES 749 Internship in Special Education (3)
- SES 762 Supervision of Student Teaching: Specialized Education (3)
- SES 764 College Teaching Practicum (3)

**Specialization (15-21 hours minimum)**
Students are expected to work closely with the major advisor and advisory/dissertation committee members to identify a set of courses in a related area of interest that forms a specialization. This course work may be in the areas of counseling, educational leadership, teacher education, early childhood, family studies, psychology, or others.
578 Language Teaching Methods with Deaf Students (3:3)
Pr. GPA of 2.75 or better and 240 and admission to Teacher Education or 240 and permission of instructor
Principles and strategies for developing English language proficiency in deaf and hard of hearing students. Emphasis on integration of English instruction with academic content.

589 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

601 Programs and Policies in Early Intervention (3:3)
Issues, trends, and policies in early intervention as relates to programs for infants and young children with disabilities; legislation, service delivery models, policy issues, family roles, and research outcomes.

602 Theory and Practice in Early Intervention (3:3)
Pr. 601; HDF 633 or permission of instructor
Analysis of theoretical perspectives, instructional programming and strategies, and research outcomes for infants, toddlers, and preschoolers with disabilities in inclusive settings and their families.

603 Preschool Disabilities: Assessment and Evaluation (3:3)
Pr. 601 or permission of instructor
Conceptual knowledge and practical application of assessment techniques and procedures for infants, toddlers and preschoolers with disabilities. Introduction to program evaluation in early intervention programs.

604 Internship in Early Childhood (6:3:3)
Pr. 601; 602; 603; HDF 633; HDF 667 or permission of instructor
Supervised internship in early childhood focused on individual students’ career goals. Specific internship project must be approved by the BKI:ISED faculty.

605 Diversity and Inclusive Early Care and Education (3:3)
Pr. admission to Leadership in Early Care and Education certificate, M.Ed. BKI:ISED, or permission of instructor
In-depth analysis of issues, recommended practices, and experiences to prepare students for meeting the needs of young children from diverse populations in inclusive early care and education settings.

608 Seminar in Early Childhood Education (3:3)
Pr. permission of instructor
For students preparing to teach in the area of early childhood education, or currently involved in early childhood education in the areas of teaching, curriculum, or supervision.

613 Education of the Multihandicapped Deaf Child (3:3)
Characteristics of severely handicapping conditions existing with deafness. Effects on educational, psychosocial, and vocational achievement.

615 Seminar on Deafness (3:3)
Pr. courses in appropriate content area and admission to appropriate degree program, or permission of instructor
Studies dealing with specialized areas of deafness of professional concern. Topic to be announced each semester course is offered. May be repeated for credit when topic varies.

616 Preschool Hearing-Impaired Children (3:3)
Pr. CSD 307 and a course in early childhood development, admission to appropriate degree program, or permission of instructor
Characteristics and management of hearing-impaired children, educational techniques.

617 Teaching Reading to Hearing-Impaired Individuals (3:3)
Pr. 578 and CUI 517 or equivalent preparation, admission to appropriate degree program, or permission of instructor
Research on the reading abilities of deaf individuals. Techniques of writing and rewriting materials, and methods of teaching deaf individuals to read.

640 Policies and Procedures in Special Education (3:3)
Pr. admission to PAIL or M.Ed. in special education or permission of instructor
Detailed study of federal and North Carolina policies and procedures that ensure that students with disabilities receive a free appropriate public education in the least restrictive environment.

641 Assessment of Individuals with Special Needs (3:3)
Pr. permission of instructor
Provides a knowledge base, guided practice, and practical application of assessment practices for making eligibility and instructional planning decisions for individuals with special needs, with emphasis on authentic assessment practices. For special education majors.

642 Mild Disabilities: Reading Instruction (3:3)
Emphasizes systematic, explicit practices for teaching essential skills in phonemic awareness, the alphabetic principle, fluency, vocabulary, and reading comprehension to students with disabilities.

643 Issues in Educating Individuals with Special Needs (3:3)
Pr. permission of instructor
Explores critical issues and strategies in developing, implementing, evaluating, and financing programs and services for individuals with special needs.

645 Advanced Seminar in Exceptional Individuals (3:3)
Pr. 540 and permission of instructor
Research and current issues in the psychology and education of exceptional children. May be repeated for credit when topic varies.

647 Collaboration and Consultation in Education (3:3)
Pr. permission of instructor
Provides a knowledge base, guided practice, and practical application of consultation skills and consultation-based services needed for implementing effective instructional programs for individuals with special needs. For special education majors.

648 Secondary Programming: Students with Mild Disabilities (3:3)
Provides for special education professionals and others detailed information on the development and design of secondary and transition programs for adolescents and young adults with mild disabilities.

649c,d Practicum in Special Education (3:3), (3-6)
Pr. core courses and permission of program coordinator
Supervised experience in clinic or school settings in special education designed to offer opportunities for practice of skills and professional development within program goals. (649c is prerequisite to 649d)
650 Independent Study (1-3)
   Pr. admission to appropriate degree program or permission of instructor and major advisor.
   Topic to be determined by faculty advisor and student.

652 Mild Disabilities: Math/Written Language Instruction (3:3)
   Emphasizes systematic, explicit practices for teaching essential math and written language skills to students with disabilities.

655 Introduction to Learning Disabilities (3:3)
   Addresses the history of LD, characteristics of learners with LD across the lifespan, legislative and legal issues for the LD field, and services and interventions for these individuals.

656 Methods for Teaching Students with Learning Disabilities (3:3)
   Pr. or coreq. 655
   Addresses broad array of instructional strategies for working with students with learning disabilities using a clinical teaching model. Academic and social skills addressed as are learning strategies.

657 Introduction to Behavior/Emotional Disabilities (3:3)
   Addresses history of BED, characteristics of learners with BED across the lifespan, legislative and legal issues for the BED field, and services and interventions for these individuals.

658 Methods for Teaching Students with Behavior/Emotional Disabilities (3:3)
   Pr. or coreq. 657
   Addresses broad array of instructional strategies for working with students with behavior/emotional disabilities using contemporary educational and therapeutic practices to address instructional as well as social/emotional needs.

659 Behavior Management (3:3)
   Concepts, skills, and practices for understanding and using principles of behaviorism in the education of students with behavior/emotional disabilities as well as other needs.

660 Families, Schools, and Students with Exceptionalities (3:3)
   Relationships among school personnel, parents/families, students, and agency personnel for educating students with special needs. Skills for proactively involving parents/families in their children’s education and resolving conflicts in school-family interactions.

661 Teaching Students with Disabilities (3-6)
   Pr. admission to PAIL program; permission of instructor
   Supervised experience in a variety of classroom or other public school settings and related seminar emphasizing the design and delivery of best-practices services and instruction to students with disabilities. May be repeated for credit. (Graded on S-U basis)

662 Assistive Technology for Inclusive Education (3:3)
   Overview of assistive technology in meeting the educational goals of individuals with disabilities. Includes experiences with devices and services associated with assistive technology and instructional technology.

688 Contemporary Problems Seminar (1-3)
   Pr. advanced master’s or doctoral standing or permission of instructor
   Specific course title identified each semester by subscript (e.g., Contemporary Problems Seminar: Issues in Professional Negotiations). May be repeated for credit when topic varies.

711 Experimental Course
   This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

747 Seminar in Special Education (3:3)
   Pr. 540 or permission of instructor
   Current trends and issues in the field of special education. May be repeated for a total of nine semester hours credit when topic varies.

749 Internship in Specialized Education (3:0:10)
   Pr. admission to Ph.D. in special education and permission of instructor
   Directed internship in an advanced leadership position related to the chosen area of specialization in which the knowledge base is integrated with the profession. May be repeated once for credit.

750 Introduction: Doctoral Studies in Special Education (3:3)
   Pr. admission to Ph.D. in special education or permission of instructor
   Issues and trends in specialized education leadership personnel; critical analysis of professional literature and grant proposals; writing for publication; ethics for research and practice; dissertation and research requirements.

752 Interpersonal and Inter-organizational Collaboration (3:3)
   Pr. admission to Ph.D. in special education or permission of instructor
   Advanced knowledge and skills for understanding, implementing, and evaluating collaboration in intra-organizational and inter-organizational situations encountered in providing services to individuals with disabilities or other special needs.

754 Special Education Policy and Law (3:3)
   Pr. admission to Ph.D. in special education or permission of instructor
   The philosophy and theoretical perspectives relating to the study of leadership, policy development, and specialized education law and their integration into diverse organizational settings.

756 Seminar: Accountability in Specialized Education Services (3:3)
   Pr. admission to Ph.D. in special education or permission of instructor
   Examine the influence of legislation, governmental agencies and professional associations in shaping preschool, K-12, university, and agency programs, and actions needed to meet these accountability standards.

758 History and Future of Specialized Education (3:3)
   Pr. admission to Ph.D. in special education or permission of instructor
   Overview of the history of special education with implications for facilitation of more effective practice in the field.
760 Advanced Seminar: Single Subject Research Design (3:3)
Pr. admission to Ph.D. in special education or permission of instructor
Understanding the rationale, purpose, design, analysis and implementation of single subject research. Implementation within classroom settings will be discussed.

762 Supervision of Student Teaching: Specialized Education (3:0:10)
Pr. admission to Ph.D. in special education and permission of instructor
Directed experience in supervising student teachers in public school and other appropriate settings. Supervision provided by SES graduate faculty members. May be repeated once for credit.

764 College Teaching Practicum (3:0:10)
Pr. admission to Ph.D. in special education and permission of instructor
Supervised experience in teaching college level course(s). May be repeated once for credit.

775 Directed Doctoral Research (3:3)
Pr. admission to Ph.D. in special education and permission of instructor
Individual work on dissertation or research problems, including literature analysis, critical review, data analysis, and integration; or completion of a pilot study in preparation for the dissertation. May be repeated once for credit.

790 Independent Doctoral Study (1-3)
Pr. admission to Ph.D. in special education and permission of instructor
Advanced guided readings, research, and individual project work under the direction of a graduate faculty member. May be repeated for credit.

799 Dissertation (1-12)
Pr. admission to candidacy for the Ph.D. in special education and permission of instructor
Individual direction in the development and execution of the doctoral dissertation.

802 Dissertation Extension (1-3)

803 Research Extension (1-3)
The Teachers Academy

School of Education • Curry Building
(336) 334-3412 • www.unCG.edu/ted

Director
Betty Cooper Epanchin, Ph.D.

Assistant Director
Cheryl Greenberg, Ed.D.

The Teachers Academy at UNCG offers a Post-Baccalaureate Certificate for NC Teach Alternative Licensure in 10 licensure areas. Students who complete the program will be eligible for initial North Carolina teaching licensure (Standard Professional I). The program focuses on pedagogical knowledge, skills, and dispositions; required academic content and field-based practica; and cohort and mentoring experiences. A candidate may apply this course work toward an M.Ed. provided the student applies to and is accepted to the master’s program and meets all admission requirements of The Graduate School and the department.

The program is designed to be completed in one year, beginning with the Summer Institute.

Requirements for the Post-Baccalaureate Certificate for NC TEACH Alternative Licensure

The Teachers Academy administers a post-baccalaureate certificate consisting of 12-18 semester hours of course work, depending on the academic background of each student.

Typical Program of Study

Summer Institute
CUI 535 Literacy in the Content Area (3)
CUI 545 Diverse Learners (3)
CUI 669 Implications of Theories of Development and Learning (3)

Fall
CUI 680a Clinical Experience in Teaching (3)
One 3 hour methods course in the licensure area

Spring
CUI 680a Clinical Experience in Teaching (3)

In addition, candidates must have 24 or more semester hours or passing scores on the PRAXIS II teaching examination in their teaching fields. Candidates who do not meet this requirement will be required to complete additional course work.
The Department of Theatre offers two graduate degrees: the M.F.A. in drama (with concentrations in acting, design, directing, and theatre for youth) and the M.Ed. in theatre education. The M.F.A. is a terminal master's degree designed to develop individual artistry and provide advanced, specialized training in acting, design, directing, and theatre for youth. The M.Ed. is a degree for K-12 theatre educators who are seeking eligibility for advanced instruction and teaching licensure in theatre. Both the M.F.A. and the M.Ed. are accredited by the National Association of Schools of Theatre.

The Department offers a rich and varied curriculum that combines theory and practice and demands the development of skills and talents. Curricular offerings are matched by an extensive co-curricular program that includes opportunities to participate in the Department’s extensive theatre production program which includes UNCG Theatre, N.C. Theatre for Young People, Studio...
Theatre, Workshop Theatre, and professional summer theatre season called Theatre 232.

Office, classroom, laboratory, studio, and performance space is used in the Taylor, Aycock, Brown, McIver, and Curry buildings. The faculty of talented artists and scholars have excellent national reputations and are deeply committed to teaching and learning. Graduate students are expected to work closely with faculty on creative and research projects during their course of study.

VISIONS students are restricted from taking any 500-level course without the permission of the Department Head and course instructor. Only students officially admitted to the M.F.A. and M.Ed. programs and students enrolled in the Summer Institute for Theatre Education (SITE) can register for 600-level courses.

In addition to the information contained in The Graduate School Bulletin, students are also required to be familiar with the policies and procedures contained in all departmental handbooks that can be obtained from the Department’s Main Office, Room 202, Taylor Building.

Admission Requirements

Admission to the Department’s degree programs is very competitive. Marginal compliance with the requirements stated below does not automatically imply admission.

Requirements for the Master of Fine Arts in Drama with Concentrations in Acting, Design, Directing, and Theatre for Youth

ACTING CONCENTRATION

The Master of Fine Arts in drama with a concentration in acting is a 60 hour degree that can usually be completed in six semesters (three years) for students on assistantships. The acting concentration is dedicated to the development of the advanced actor for the professional and academic theatre. Students take classes in voice, movement, contemporary and period scene study, acting for the camera, audition techniques, dialects, and related course work in academic and performance disciplines. The program consists of a core of acting courses and practicum experiences all students take and a series of electives the student selects in consultation with his/her advisor. Internships are required for students without past experience in summer theatre or a professional equivalent. Candidates are accepted every other year.

In addition to the application materials required by The Graduate School, M.F.A. applicants must submit a detailed resume of theatre experience and participate in an interview. Acting concentration applicants are required to audition and applicants to the design, directing, and theatre for youth concentrations must submit a portfolio. Please contact individual programs for specific program requirements. Students entering the program normally have an undergraduate degree in theatre with a strong background in the concentration they wish to pursue. Exceptions are occasionally made for students with significant professional or practical experience. For the design concentration, an undergraduate degree in a related field may be acceptable. Students admitted without the appropriate undergraduate background will be expected to complete remedial work, in addition to normal degree requirements.

In addition to the application materials required by The Graduate School, M.Ed. applicants must submit a Statement of Purposes and Goals and a resume of theatre and theatre education experience. Applicants with outstanding undergraduate grade records and relevant professional experience may request that the GRE be waived. Prior to admission, applicants must interview with the Director of Theatre Education.

MFA

Major Studies (42 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>THR 531</td>
<td>Acting V (3)</td>
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<tr>
<td>THR 532</td>
<td>Period Acting I (3)</td>
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<tr>
<td>THR 539</td>
<td>Professional Theatre Audition Techniques (3)</td>
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<tr>
<td>THR 600</td>
<td>Introduction to Graduate Study (3)</td>
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<tr>
<td>THR 603</td>
<td>Seminar in Acting (3)</td>
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<tr>
<td>*THR 621</td>
<td>Advanced Dynamics: Movement (3 - three sections at 1 hour each)</td>
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<tr>
<td>*THR 622</td>
<td>Advanced Dynamics: Voice (3 - three sections at 1 hour each)</td>
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<tr>
<td>THR 631</td>
<td>Studies in Acting; Contemporary (3)</td>
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<tr>
<td>THR 632</td>
<td>Contemporary Acting II (3)</td>
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<td>THR 633</td>
<td>Period Acting II (3)</td>
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<tr>
<td>THR 690</td>
<td>Graduate Practicum in Theatre (9 - three sections at 3 hours each)</td>
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<tr>
<td>**THR 699</td>
<td>Master Production in Theatre (3)</td>
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</tbody>
</table>

**Indicates Capstone Experience

Academic Studies (6 hours)

Students must select a minimum of two courses from the following:

*THR 500, 501, 502 Theatre History I, II, III (3-9)
THR 505 American Theatre History (3)
Theatre

THR 506  Non-Western Theatre and /or Film (3)
THR 587  Theatre Field Studies (1-3)
THR 601  Drama Theory and Criticism (3)
THR 602  Seminar in Drama and Theatre History (3)
BCN 515  Film Theory (3)
BCN 528  Studies in Media Genres (3)
ENG 540  Shakespeare: Eight Plays (3)
ENG 555  English Renaissance Drama (3)
ENG 556  English Drama of the Restoration and Eighteenth Century (3)
ENG 582  Modern Drama (3)
ENG 640  Studies in Shakespeare (3)
MUS 511  History of Opera (3)
*Required if not in undergraduate academic background.

Supportive Studies (12 hours)
Students must select a minimum of four courses from the following:
*THR 510 Directing II (3) or THR 610 Applied Play Directing (3)
THR 534  Acting for the Camera (3)
THR 596  Applied Theatre II (1-4)
THR 620  Stage Dialects (3)
THR 695  Independent Study (1-3) or THR 696 Advanced Experimentation (3)
DCE 550  Creative Process: Dance Perspective (3)
*Required courses

Reviews
All candidates are reviewed each semester for continuance in the program. Reviews assess the candidate’s artistic and academic development and success in meeting degree requirements.

DESIGN CONCENTRATION
The Master of Fine Arts in drama with a concentration in design is a 60 hour degree. The program can usually be completed within six semesters (three years) by students on assistantships. The design concentration is dedicated to developing well-rounded theatre designers within a scenographic tradition. The program affords students the opportunity to develop and demonstrate competencies in the major design elements used in professional theatre production. Students take classes and execute realized productions in the areas of scenery, costume, and lighting design. They are trained as artists and artisans to work in professional entertainment industry and higher education.

Major Studies (39 hours)
THR 503, 504  Period Styles in Performance Design I & II (3-6)
THR 551  Advanced Scene Design (3)
THR 560  Advanced Costume Design (3)
THR 570  Advanced Lighting Design (3)
THR 600  Introduction to Graduate Study (3)
*THR 651  Scene Design Seminar (3)
*THR 660  Costume Design Seminar (3)
*THR 671  Lighting Design Seminar (3)

Academic Studies (6 hours)
Students must select a minimum of two courses from the following:
*THR 500, 501, 502 Theatre History I, II, III (3-9)
THR 505  American Theatre History (3)
THR 506  Non-Western Theatre and /or Film (3)
THR 587  Theatre Field Studies (1-3)
THR 601  Drama Theory and Criticism (3)
THR 602  Seminar in Drama and Theatre History (3)
BCN 515  Film Theory (3)
BCN 528  Studies in Media Genres (3)
ENG 540  Shakespeare: Eight Plays (3)
ENG 555  English Renaissance Drama (3)
ENG 556  English Drama of the Restoration and Eighteenth Century (3)
ENG 582  Modern Drama (3)
MUS 511  History of Opera (3)
* Required if not in undergraduate academic background.

Supportive Studies (15 hours)
Students must select a minimum of five courses from the following:
THR 540  Advanced Stage Crafts (3)
THR 541  Technical Direction (3)
THR 542, 543  Scene Painting I, II (3-6)
THR 544  Computer Assisted Drafting (3)
THR 545  Scene Drafting and Construction (3)
THR 548  Stage Millinery and Accessories (3)
THR 549  Historical Costume Pattern Drafting and Draping (3)
THR 552  Multi-Set Design Techniques (3)
THR 575  Theatrical Sound Design and Technology (3)
THR 645  Advanced Theatre Graphics (3)
THR 651  Scene Design Seminar (3)
THR 660  Costume Design Seminar (3)
THR 670  Production Design for Film (3)
THR 671  Lighting Design Seminar (3)
THR 695  Independent Study (1-3) or THR 696 Advanced Experimentation (3)
BCN 509  Media Sound Production (3)
BCN 512  TV and Film Lighting (3)
IAR 535  Architectural Lighting Design (2)
IAR 536  History of Decorative Arts (3)

Reviews
All candidates are reviewed each semester for continuance in the program. Reviews assess the candidate’s artistic and academic development and success in meeting degree requirements.

DIRECTING CONCENTRATION
The Master of Fine Arts in drama with a concentration in directing is a 60 hour degree. The program can usually be completed within six
semesters (three years) by students on assistantships. The program seeks to admit only students who have undergraduate theatre degrees. Students admitted without appropriate undergraduate background in theatre will be expected to complete remedial work in addition to normal degree requirements. Students must interview and provide a portfolio that can include promptbooks, production photos, video tapes, directorial position papers, and/or dramaturgical research guides on past productions.

The directing concentration is designed to develop directors trained in the best tradition of becoming theatre artists/teachers to work in professional as well as college and university theatre. Students take a core of courses in directing, theatre history, dramatic theory and criticism, and dramatic literature. The core is designed to provide a basis for synthesizing the historical-theoretical-literary area of directing with production.

**Major Studies (39 hours)**
- THR 503, 504 Period Styles in Performance Design I & II (6)
- THR 600 Introduction to Graduate Studies (3)
- THR 603 Acting Seminar (3)
- THR 610 Applied Play Directing (3)
- THR 611 Advanced Play Directing (3)
- THR 612 Directing Period Plays (3)
- THR 613 Directing Seminar (3)
- THR 631 Studies in Acting (3)
- THR 690 Graduate Practicum in Theatre (3 sections at 3 hours each - 9)
  *THR 699 Master Production in Theatre (3)
  *Indicates Capstone Experience.

**Academic Studies (12 hours)**
Students must select a minimum of four courses from the following:
- THR 500, 501, 502 Theatre History I, II, III (3-9)
- THR 505 American Theatre History (3)
- **THR 506 Non-Western Theatre and/or Film (3)
- THR 587 Theatre Field Studies (1-3)
  *THR 601 Drama Theory and Criticism (3)
- THR 602 Seminar in Drama and Theatre History (3)
- BCN 515 Film Theory (3)
- BCN 528 Studies in Media Genres (3)
- ENG 540 Shakespeare: Eight Plays (3)
- ENG 555 English Renaissance Drama (3)
- ENG 556 English Drama of the Restoration and Eighteenth Century (3)
- ENG 582 Modern Drama (3)
- ENG 640 Studies in Shakespeare (3)
- MUS 511 History of Opera (3)
  *Required courses.
  **Required if not in undergraduate academic background.

**Supportive Studies (9 hours)**
Students must take the following courses:
- THR 584 Theatre Management (3)
  Two additional courses in consultation with advisor (6)

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**Reviews**
All candidates are reviewed each semester for continuance in the program. Reviews assess candidates artistic and academic development and their success in meeting degree requirements.

**THEATRE FOR YOUTH CONCENTRATION**
The Master of Fine Arts in drama with a concentration in theatre for youth is a 60 hour degree. The program can usually be completed in six semesters (3 years) for students on assistantships. The program follows the guidelines established by the American Alliance for Theatre and Education. The M.F.A. with a concentration in theatre for youth seeks to train theatre artists to take leadership roles in the growing field of theatre for youth. Students will have classes in creative drama, children’s theatre, puppetry, and directing, as well as having the opportunity to select electives from a variety of courses. The student and advisor work closely together to develop an individualized program of courses and experiences tailored to meet specific career goals. Internships are required and are individually arranged by the student and advisor. Candidates are accepted every other year.

**Major Studies (39 hours)**
- THR 515 Creative Dramatics for School and Community (3)
- THR 516 Puppetry (3)
- THR 517 Children’s Theatre For School and Community (3)
- THR 596 Applied Theatre II (3)
- THR 600 Introduction to Graduate Study (3)
- THR 610 Applied Play Directing (3)
- THR 611 Advanced Play Directing (3)
- THR 613 Directing Seminar (3)
- THR 615 Advanced Creative Drama (3)
-THR 690 Graduate Practicum in Theatre (3 sections at 3 hours each - 9)
  *THR 699 Master Production in Theatre (3)
  *Indicates Capstone Experience.

**Academic Studies (12 hours)**
Students must select a minimum of four courses from the following:
  **THR 500, 501, 502 Theatre History I, II, III (3-9)
- THR 505 American Theatre History (3)
- THR 506 Non-Western Theatre and/or Film (3)
- THR 587 Theatre Field Studies (1-3)
  *THR 601 Drama Theory and Criticism (3)
- THR 602 Seminar in Drama and Theatre History (3)
- BCN 515 Film Theory (3)
- BCN 528 Studies in Media Genres (3)
- ENG 540 Shakespeare: Eight Plays (3)
- ENG 555 English Renaissance Drama (3)
- ENG 556 English Drama of the Restoration and Eighteenth Century (3)
- ENG 582 Modern Drama (3)
The Department of Theatre offers a graduate program leading to a 37 hour Master of Education in theatre education. This is a degree program designed for in-service K-12 teachers holding North Carolina Standard Professional I (formerly “A” level) teaching licensure in theatre arts who are seeking advanced training, professional development, and Advanced Master’s (“M”) licensure in theatre arts.

Students with adequate undergraduate preparation, including Standard Professional I (formerly “A” level) teaching licensure, can usually complete the course of study in three summer sessions and one academic semester. Degree candidates complete theatre course work through the Summer Institute for Theatre Education (SITE), a special program that is offered each year in a fifteen-day intensive summer session. Students may earn up to 9 semester hours of graduate level credit toward the degree during each annual session. Students may also take some required professional education classes during SITE, regular summer sessions, on-line through Continual Learning, or at other colleges and universities.

Requirements for the Master of Education in Theatre Education

Theatre History/Dramatic Literature/Theory and Criticism
THR 601 Drama Theory and Criticism (3)
THR 602 Seminar in Drama/Theatre History (3)
THR 680 Seminar in Playwriting (3)
Or other appropriate course

Directing
THR 610 Applied Play Directing (3)
THR 611 Advanced Play Directing (3)
THR 613 Directing Seminar (3)
Or other appropriate course

Acting
THR 534 Acting for the Camera (3)
THR 581 Advanced Oral Interpretation (3)
THR 603 Acting Seminar (3)
THR 631 Studies in Acting (3)
Or other appropriate course

Technical Theatre/Design
THR 540 Advanced Stagecrafts (3)
THR 551 Advanced Scene Design (3)
THR 560 Advanced Costume Design (3)
THR 570 Advanced Lighting Design (3)
THR 575 Theatrical Sound Design and Technology (3)
Or other appropriate course
Students must take two production field experience courses (4 hours):

- THR 695 Independent Study (cumulative portfolio - 1)
- THR 696 Advanced Experimentation (3)

**Cumulative Portfolio (Capstone Experience)**

The culminating experience of the degree program is in the preparation and presentation of the cumulative portfolio which demonstrates the following:

1. Student achievement of five core competencies required for Advanced Master’s (“M”) licensure of a master teacher of theatre arts.
2. Student commitment to professional development, leadership, and collaboration.
3. A process requiring students to continually reflect upon and demonstrate the influences that the content and experiences in the degree program had upon their teaching.

The development of the portfolio is an ongoing process that begins from the first semester of study under the guidance of the Director of Theatre Education. A Cumulative Portfolio Committee (CPC) is created to review the portfolio process. This committee is comprised of three theatre faculty members: the Director of Theatre Education (chair), the Department Head, and the student’s advisor for THR 696. During the final semester of the degree program, the candidate enrolls in THR 695 to facilitate the development and final preparation of the cumulative portfolio. The student begins consultation with the Director of Theatre Education regarding the portfolio upon completion of THR 696. During the final semester of study in the program, the candidate submits the portfolio for review, and subsequently, does an oral presentation to the CPC. The committee evaluates the portfolio project as satisfactory or unsatisfactory, based upon the candidate’s mastery of the advanced competencies of a master teacher in theatre arts. For detailed information about the cumulative portfolio, see the Department’s Theatre Education Handbook.

**Licensure**

Students will be eligible for North Carolina Advanced Master’s (“M”) licensure upon the completion of the degree program. Individuals who do not hold Standard Professional I (formerly “A” level) teaching licensure in K-12 theatre arts must complete requirements for that level licensure, as defined by the B.F.A. in theatre arts must complete requirements for that level licensure, as defined by the B.F.A. in theatre education, through the University’s licensure only program prior to applying to the M.Ed. However, applicants may hold equivalent licensure from a Reciprocal Agreement State in lieu of North Carolina Standard Professional I (“A” level) licensure in K-12 theatre arts.

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**Theatre Courses**

**500, 501, 502 Theatre History I, II, III (3:3)**

Specific conditions under which the great plays of the world have been produced. First semester: the beginnings to 1600; second semester: 1600-1850; third semester: 1850 to the present.

**503, 504 Period Styles in Performance Design I & II (3:3), (3:3)**

- Pr. admission to appropriate degree program or permission of instructor

  Period style and how it is used in performance design. First semester: architecture, decor and fashion from antiquity to Renaissance. Second semester: architecture, decor and fashion from Renaissance to present.

**505 American Theatre History (3:3)**

- Pr. junior standing for undergraduates, or permission of instructor

  Development of Theatre in America from its beginnings to the present. Includes a consideration of theatre artists and companies, audiences, performance spaces, production and business practices, plays, and playwrights.

**506 Non-Western Theatre and/or Film (3:2:3)**

Dramatic literature, theatre, and/or film in India, China, Japan and Africa. Topic varies with instructor. May be repeated for a maximum of 6 credit hours when topic varies.

**510 Directing II (3:3)**

- Pr. 201, 410, two theatre courses, or permission of instructor

  Involves the student in the theory and practice of contemporary plays.

**515 Creative Dramatics for School and Community (3:2:2)**

- Pr. admission to appropriate degree program or permission of instructor

  Research and literature of creative dramatics for children, ages 5 through 14. Practice in leading groups of children in creative dramatics.

**516 Puppetry (3:2:2)**

- Pr. admission to appropriate degree program or permission of instructor

  Scope and development of puppetry throughout the world. Practical experience in the design, making, and performing of puppets.
517 Children’s Theatre for School and Community (3:2:2)
Pr. admission to appropriate degree program or permission of instructor
Research and literature of children’s theatre, methods of producing plays with children in school and community situations.

531 Acting V (3:1:4)
Pr. 331, 332 and admission to appropriate degree program or permission of instructor
Practical application of Stanislavski’s Method of Physical Action. Advanced scene study and role preparation with emphasis on the plays of Chekhov, Shaw, Ibsen, Strindberg, and American neoclassic dramatists.

532 Period Acting I (3:1:4)
Pr. 231, 232, and ENG 227 and admission to appropriate degree program or permission of instructor
Study and practice of Shakespearean acting styles. Performance emphasizing manners, movement, and vocal delivery of the Elizabethan period.

534 Acting for the Camera (3:2:2)
Pr. admission to appropriate degree program or permission of instructor
Practical experience in camera technique for actors in dramatic film and television production. For advanced undergraduates and graduate students in theatre.

539 Professional Theatre Audition Techniques (3:3)
Pr. 231, 232, 331, 332 and admission to appropriate degree program or permission of instructor
Audition theory, technique, and practice for theatre, television, and films.

540 Advanced Stagecrafts (3:2:3)
Pr. 140 and admission to appropriate degree program or permission of instructor
Study of advanced scenic construction, property construction, and rigging techniques for the stage. Supervised laboratory work in wood, plastics, metal, and other materials.

541 Technical Direction (3:3)
Pr. 140 and 351, or 370, and junior, senior, or graduate standing, and admission to appropriate degree program or permission of instructor
Theatrical technical direction with emphasis on organizational, managerial, and problem-solving duties and responsibilities. Lecture combined with practical projects.

542 Scene Painting I (3:1:4)
Pr. 140 and 351 and admission to appropriate degree program or permission of instructor
Tools, materials, and techniques of scene painting.

543 Scene Painting II (3:1:4)
Pr. 140, 351, and 542 and admission to appropriate degree program or permission of instructor
Advanced problems in scene painting.

544 Computer Assisted Drafting (3:1:6)
Pr. 545, or IAR 111 and 112, or ART 222 or equivalent technical drawing aptitude and admission to appropriate degree program
Fundamental principles and application of 3d design utilizing a DOS based drafting and design program.

545 Scene Drafting and Construction (3:3)
Pr. 351 and admission to appropriate degree program or permission of instructor
Advanced problems in scene construction combined with the development of scene drafting skills and techniques. Offered in alternate years.

546 Stage Millinery and Accessories (3:1:4)
Pr. admission to appropriate degree program or permission of instructor
Historical millinery and accessories in relation to stage adaptation; design and construction techniques.

549 Historical Costume Pattern Drafting and Draping (3:1:6)
Pr. admission to appropriate degree program or permission of instructor
Historical pattern-making techniques for stage costumes; theory and practice in costume construction.

551 Advanced Scene Design (3:1:6)
Pr. 351 and admission to appropriate degree program or permission of instructor
Advanced problems of scene design for single set productions in performance.

552 Multi-set Design Techniques (3:1:6)
Pr. 351 and admission to appropriate degree program or permission of instructor
Advanced problems in scene design for multi-set productions in performance.

560 Advanced Costume Design (3:2:3)
Pr. admission to appropriate degree program or permission of instructor
Advanced problems in costume design for performance.

570 Advanced Lighting Design (3:2:3)
Pr. 370 and admission to appropriate degree program or permission of instructor
Advanced problems in lighting design for performance.

575 Theatrical Sound Design and Technology (3:3)
Pr. 140, 145 and admission to appropriate degree program or permission of instructor
Theory, aesthetics, and technology of theatrical sound design.

581 Advanced Oral Interpretation (3:3)
Pr. 381 or graduate standing
Audiences, materials, and procedures of readers’ theatre. Practice in advanced principles of oral interpretation of literature.

584 Theatre Management (3:3)
Pr. drama major, and admission to appropriate degree program or permission of instructor
Theatre organization and operation. Practical problems of financing, promoting, and staffing various theatre programs.

586 Stage Management (1-2)
Pr. 122 and 541, or permission of instructor
The role of the stage manager. Supervised participation as a stage manager in the theatre production program. May be repeated for a total of three credits.

587 Theatre Field Studies (1-3:3)
Guided off-campus study in the communication and theatre disciplines. Travel required. Site and topic will vary from semester to semester. May be repeated for up to 4 credit hours.
589  Experimental Course
   This number reserved for experimental courses. Refer to
   the Course Schedule for current offerings.

595  Directing Practicum (1:0:3)
   Pr. 410 and admission to appropriate degree program or permiss-
   ion of instructor
   Practice in directing a play; preparation of a 20 to 30-minute
   play or excerpt and presentation in the Workshop Theatre.
   May be repeated for a total of two credits.

596  Applied Theatre II (1-4:0:3-12)
   Pr. 291 and admission to appropriate degree program or permis-
   sion of instructor
   Intensive experience in one or more areas of theatre
   production.

600  Introduction to Graduate Study (3:3)
   Pr. admission to appropriate degree program or permission of
   instructor
   Development of research and writing skills, introduction
   to grant writing, and professional presentations. Con-
   sideration of issues in teaching. Required of M.Ed. and
   M.F.A. degree candidates.

601  Drama Theory and Criticism (1-3)
   Pr. admission to appropriate degree program or permission of
   instructor
   Major concepts representative of Aristotelian drama and
   the chief artistic and philosophical trends underlying
   much of contemporary or non-Aristotelian drama. May be
   repeated for a maximum of 3 hours credit.

602  Seminar in Drama and Theatre History (3:3)
   Pr. admission to appropriate degree program or permission of
   instructor
   Investigation of special topics in drama and theatre his-
   tory. Topics vary each semester. May be repeated twice
   for credit when topic varies.

603  Acting Seminar (3:3)
   Pr. admission to appropriate degree program or permission of
   instructor
   Historical and theoretical perspectives related to acting.
   Topics vary each semester. May be repeated twice
   for credit when topic varies.

610  Applied Play Directing (3:1:4)
   Pr. admission to appropriate degree program or permission of
   instructor
   Guided study and practice in developing directorial
   approaches and techniques through scene work and the
   production of a complete play.

611  Advanced Play Directing (3:3)
   Pr. admission to appropriate degree program or permission of
   instructor
   Problems of play directing emphasizing the use of modi-
   fied proscenium, arena, thrust, and experimental forms
   of stages.

612  Directing Period Plays (3:3)
   Pr. 610 or 611 and admission to appropriate degree program or
   permission of instructor
   Theories of directing and their application in the direction
   of period plays.

613  Directing Seminar (3:3)
   Pr. 610 or 611 and admission to appropriate degree program or
   permission of instructor
   Investigation in the art of directing. Topics vary each
   semester. May be repeated for credit.

615  Advanced Creative Drama (3:3)
   Pr. 515 and admission to appropriate degree program or permis-
   sion of instructor
   Current trends and advanced philosophies in creative dra-
   ma and aesthetic education. Practical experience arranged
   with classes in local schools.

620  Stage Dialects (3:3)
   Pr. admission to appropriate degree program or permission of
   instructor
   Stage dialects most frequently used by the actor: Standard
   British, Cockney, Irish, Scots, French, German, Italian, Rus-
   sian, Japanese, Brooklynese, American Southern.

621  Advanced Dynamics: Movement (1:0:3)
   Pr. admission to appropriate degree program or permission of
   instructor
   Movement laboratory for the advanced actor. May be
   repeated for a total of three credits.

622  Advanced Dynamics: Voice (1:0:3)
   Pr. 621 and admission to appropriate degree program or permis-
   sion of instructor
   Voice and movement laboratory to develop skills neces-
   sary for the performance of classical text. May be repeated
   for a total of three credits.

631  Studies in Acting (3:3)
   Pr. admission to appropriate degree program or permission of
   instructor
   Special studies and practices in acting techniques. Empha-
   sis on contemporary drama.

632  Contemporary Acting II (3:1:4)
   Pr. admission to appropriate degree program or permission of
   instructor
   Contemporary ensemble acting techniques and their ap-
   plication to ensemble style and playing.

633  Period Acting II (3:1:4)
   Pr. admission to appropriate degree program or permission of
   instructor
   Study and practice of acting styles from the periods of
   Classical Greek, Roman, Medieval, Restoration/Georgian,
   Victorian/Edwardian drama.

645  Advanced Theatre Graphics (3:2:3)
   Pr. admission to appropriate degree program
   Theatre graphics for performance design; drafting, per-
   spective, figure drawing, and rendering.

651  Scene Design Seminar (3:3)
   Pr. admission to appropriate degree program or permission of
   instructor
   Topics in scene design. Topics may vary with each course
   offering.

660  Costume Design Seminar (3:3)
   Pr. admission to appropriate degree program or permission of
   instructor
   Topics in costume design. Topics may vary with each
   course offering.
670 Production Design for Film (3:2:3)
History, theory and practice of production design in film from 1895 to the present.

671 Lighting Design Seminar (3:3)
Pr. admission to appropriate degree program or permission of instructor
Topics in lighting design. Topics may vary with each course offering.

680 Seminar in Playwriting (3:3)
Pr. permission of instructor
Theory and practice of writing plays for stage production. May be repeated once for credit.

682 Seminar in Teaching Methods for Theatre Education (3:3)
Pr. must hold Standard I (“A” level) licensure; permission of instructor
Explores current pedagogical practices, issues, and trends in the K-12 theatre arts classroom.

685 Seminar in Scenography (3:2:3)
Scenographic theory and practice for performance design.

690 Graduate Practicum in Theatre (3:0:9)
Pr. admission to appropriate degree program and permission of instructor
Guided practice under rigorous artistic standards in carrying out major responsibilities in UNCG Theatre or Theatre for Young People major productions.

691 Graduate Practicum in Theatre Design/Technology (3:0:9)
Pr. admission to appropriate degree program and permission of instructor
Guided practice under rigorous artistic standards in carrying out major responsibilities in UNCG Theatre or Theatre for Young People major productions.

695 Independent Study (1-3)
Pr. admission to appropriate degree program or permission of instructor, major advisor and Department Head

696 Advanced Experimentation (3:1:4)
Pr. admission to appropriate degree program or permission of instructor
Preparation for the evaluation of experiences in the creative processes of theatre, broadcasting, or film. Analysis, documentation, and critical evaluation of the specific experience.

698 Graduate Internship (3)
Pr. second or third year standing in the graduate program
Field experience in local production companies, post-production houses, television stations or professional theatre companies. Academic supervision provided by faculty and directed activity in the field provided by site supervisor.

699 Master Production in Theatre (3:0:9)
Pr. admission to appropriate degree program or permission of instructor
Research, development, and execution in acting, directing, or design of a major theatrical production.

711 Experimental Course
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

803 Research Extension (1-3)
Graduate Programs in Women’s and Gender Studies

Coordinating Council:

Professors
Mary Ellis Gibson, Ph.D.
   Department of English.
Diane L. Gill, Ph.D.
   Department of Exercise and Sport Science.
Karen Kilcup, Ph.D.
   Department of English.
Hephzibah Roskelly, Ph.D.
   Department of English.
Jacquelyn W. White, Ph.D.
   Department of Psychology.

Associate Professors
Elizabeth Chiseri-Strater, Ph.D.
   Department of English.
Ann Dils, Ph.D.
   Department of Dance.
Katherine Jamieson, Ph.D.
   Department of Exercise and Sport Science. (Director of Women’s and Gender Studies Program).
Paige Hall Smith, Ph.D.
   Department of Public Health Education and Director of the Center for Women’s Health and Wellness.
Leila Villaverde, Ph.D.
   Department of Educational Leadership and Cultural Foundations.

Assistant Professors
Danielle Bouchard, Ph.D.
   Women’s and Gender Studies Program.
C.P. Gause, Ph.D.
   Department of Educational Leadership and Cultural Foundations.
Tracy Nicholls, Ph.D.
   Department of Public Health Education.
Carisa Showden, Ph.D.
   Department of Political Science.

Visiting Assistant Professor
Nadine Ehlers, Ph.D.
   Women’s and Gender Studies Program.

Lecturer
Catherine D. Holderness, Ed.D. (Ex Officio)
   Department of Business Administration.

Graduate Programs in Women’s and Gender Studies

- Post-Baccalaureate Certificate
- M.A. with concentrations in:
  - Gender and Community Leadership
  - Gender and Health
- Individualized Program

Women’s and Gender Studies
200 Foust Building • (336) 334-5673
wgs.uncg.edu
Post-Baccalaureate Certificate Program

The Women’s and Gender Studies Program offers a program of study leading to a Post-Baccalaureate Certificate in women’s and gender studies that prepares graduates for interdisciplinary teaching; careers in nonprofit, governmental, and corporate venues; and entry into professional degree programs in such fields as law, child development, and public health. The program combines core courses, elective courses, independent study, and/or internship integrating theory and practice.

Admission Requirements

In addition to the application materials required by The Graduate School, applicants must submit a statement of goals describing how their previous study and experience have prepared them for the certificate program and specifically how their academic/professional goals may be advanced through study in WGS. No test scores (GRE, MAT) are required; however, if applying for the Post-Baccalaureate Certificate along with another degree program, please refer to the degree granting department for admission test requirements. Candidates may present a baccalaureate degree in any field.

Master of Arts

The Women’s and Gender Studies Program offers an interdisciplinary graduate program of study leading to a Master of Arts degree in women’s and gender studies that prepares graduates for professional employment and for further study. The master’s program offers three options: 1) an option for students who wish to pursue a general degree with an individualized program, 2) a concentration in gender and community leadership, and 3) a concentration in gender and health. The concentrations in gender and health and gender and community leadership have an important component of professional skills development and prepare students for employment in non-faculty positions in education, in non-profit organizations, government and business. Students completing the program with individualized concentrations will, upon graduation, pursue doctoral degrees in women’s and gender studies or other professional degrees; they will find or continue employment in such diverse areas as counseling, university teaching, the arts, and business.

Admission Requirements

Students are admitted to the M.A. degree program on the basis of academic achievement without regard to undergraduate major. In addition to the application materials required by The Graduate School, applicants must submit a statement of purpose highlighting motivation, specific option/area of interest within the program, relevant experience or background particular to the proposed study and a sample of analytical or professional writing of 5-15 pages.

Fifteen (15) hours must be successfully completed during five academic years to earn the certificate. At least 9 hours of course work must be at the 600 level or above. Courses fulfilling the certificate program may be used to meet the requirements in a degree program in accordance with the policies of The Graduate School.

Curriculum requirements consist of a core course (3 hours), either an internship (3 hours) or independent study (3 hours), and a minimum of 9 hours of electives. Students enrolled in a graduate degree program must take at least 3 hours of course work (exclusive of the internship) outside the degree-granting department.

Required Core Course (3 hours)

WGS 650 Feminist Theory: Intersections of Gender, Race, and Class (3)

The following courses may be taken in substitution for WGS 650 with permission of the advisor. These may also serve as electives.

WGS 651 Feminist Research Analysis (3) (with permission of instructor)
CST 659 Communication and Gendered Communities (3)
ELC 678 Feminist Theories and Education (3)
ELC 680 Transnational and Postcolonial Feminist Perspectives (3)
ENG 531 Feminist Theory and Women Writers (3)
ENG 688 Women’s Rhetoric and Feminist Pedagogy (3)
HDF 624 Feminist Theory and Research Methodologies (3)

Internship or Independent Study (3 hours)

Students must take either:

WGS 600 Independent Study (3)
WGS 601 Women’s and Gender Studies Internship (3)

Electives (9 hours)

Minimum of 9 hours chosen from among the following or other courses as approved by the
Thirty-six (36) hours must be successfully completed to earn the M.A. in women’s and gender studies. There are three program options: 1) an option for students who wish to pursue the general degree and who will design an individualized program of study in consultation with an advisor, 2) a concentration in gender and community leadership, and 3) a concentration in gender and health. Students in all three programs will take the common core and capstone experience and 15-18 hours plus 21 or more additional hours.

**Required Core Courses (12 hours)**

- WGS 601 Women’s and Gender Studies Internship (3)
- WGS 650 Feminist Theory: Intersections of Gender, Race and Class (3)
- WGS 651 Feminist Research Analysis (3)

And one of the following theory courses:

- CST 659 Communication and Gendered Communities (3)
- ELC 678 Feminist Theories and Education (3)
- ELC 680 Transnational and Postcolonial Feminist Perspectives (3)
- ENG 531 Feminist Theory and Women Writers (3)
- ENG 688 Women’s Rhetoric and Feminist Pedagogy (3)
- HDF 673 The Family in Comparative Perspective (3)

**Capstone Experience (3-6 hours)**

All students must select either the thesis or the culminating project at the end of their course work. Normally, students in the gender and community leadership concentration and the gender and health concentration select the culminating project; students in the individually designed concentration may elect either option.

- WGS 698 Culminating Project (3)
- WGS 699 Thesis (1-6)

**INDIVIDUALIZED PROGRAM (21 HOURS)**

Students create a concentrated area of interest for further study with a minimum of 9 hours. This concentration requires a proposed plan of study approved by the advisor or the Director of the Women’s and Gender Studies Graduate Program. These courses may come from those approved for WGS credit or from cognate areas. Students take 12 hours of electives chosen from the list below, from the professional development applied skills courses approved for the professional master’s options, or from other graduate offerings.

- WGS 600 Independent Study (3)
- CED 574A Contemporaries Topics in Counseling: Counseling Women (3)
- CST 659 Communication and Gendered Communities (3)
- CUI 555 Multicultural Education (3)
- ELC 678 Feminist Theories and Education (3)
- ELC 662 Power, Politics, and Schools (3)
- ELC 664 Foundations of Interpretive Inquiry (3)
- ELC 700 Critical Perspectives in Education, Leadership, and Culture (3)
- ENG 531 Feminist Theory and Women Writers (3)
- ENG 665 Violence and Public Health (3)
- HIS 530 History of Sexuality: Selected Topics (3)
- HIS 551 Gender and History: Selected Topics (3)
- MLS 601 Culture and Ideas (3) (when focus is on gender)
- MLS 620 Human Nature and Society (3) (when focus is on gender)

Many graduate courses focusing on gender are offered under special topics numbers. Each semester the Director of the Women’s and Gender Studies Graduate Program will designate courses that meet WGS certificate requirements. Students should check the Women’s and Gender Studies Program website or the Schedule of Courses for a current listing.
Women’s and Gender Studies

HIS 551 Gender and History: Selected Topics (3)
MLS 610 Culture and Ideas (3) (when focus is on gender)
MLS 620 Human Nature and Society (3) (when focus is on gender)

GENDER AND COMMUNITY LEADERSHIP CONCENTRATION (21 HOURS)

Professional Development Applied Skills (9 hours)

Students should choose a coherent sequence of 9 hours of skills courses with the help of their advisor. Students selecting courses from the MBA sequence are advised to select MBA 600, 602, 603 or 610. Students selecting courses from the nonprofit management (PSC) sequence are advised to take PSC 540 and 550.

- CNR 600 Concepts and Processes of Conflict Resolution (3)
- CNR 601 Cultural Dimensions of Conflict (3)
- MBA 600 Business Statistics (1.5)
- MBA 602 Presentation and Interpretation of Financial Statements (1.5)
- MBA 603 Economic Analysis (1.5)
- MBA 604 Organizational Behavior (1.5)
- MBA 605 Financial Management (1.5)
- MBA 606 Marketing Management (1.5)
- MBA 610 Advanced Business Statistics (1.5)
- MBA 613 Economical Policy and the Global Environment (1.5)
- PSC 540 Nonprofit Management and Leadership (3)
- PSC 550 Philanthropy and Resource Development (3)
- PSC 511B Problems in Public Management: Marketing for Public and Nonprofit Agencies (1)
- PSC 511D Problems in Public Management: Strategic Planning (1)
- PSC 511F Problems in Public Management: Financial Management (1)
- PSC 511G Problems in Public Management: Grant Writing (1)
- PSC 511N Problems in Public Management: Nonprofit Law (3)
- LIS 636 Website Production and Usability for Librarians (3)

With permission of the directors of these post-baccalaureate programs and careful choice of electives, students may simultaneously earn either a post-baccalaureate certificate in business administration or in non-profit management. Some additional hours may be required.

GCL Core Courses (6 hours)

Students select 6 hours from the following:

- CNR 600 Concepts and Processes of Conflict Resolution (3)
- CNR 601 Cultural Dimensions of Conflict (3) (if not taken as applied skills)
- CNR 611 Conflict in Communities (3)
- CST 506 Speaking Out for Community Change (3)
- CST 562 Organizational Change: Diversity and Identity (3)
- CST 605 Communicating for Social Change (3)
- CST 630 Organization, Democracy, and Community (3)
- MBA 604 Organizational Behavior (1.5) (if not taken as applied skills)
- MBA 615 Leadership Assessment and Development (1.5)
- MBA695K Special Topics: Organizational Leadership (1.5)
- HIS 626 The Practice of Public History (3)

Electives (6 hours)

Students select 6 hours from the following:

- WGS 600 Independent Study (3)
- CED 574A Contemporary Topics in Counseling: Counseling Women (3)
- CNR 610 Conflict Transformation (3)
- CNR 670 Conflict and Violence: The Global Perspective (3)
- CST 663 Seminar in Relational Communication (3)
- CUI 555 Multicultural Education (3)
- ELC 662 Power, Politics, and Schools (3)
- ELC 670 Leadership for Teaching and Learning (3)
- ELC 688 Contemporary Problems Seminar: Servant Leadership (3)
- ELC 700 Critical Perspectives in Education, Leadership, and Culture (3)
- ERM 604 Methods of Educational Research (3)
- ERM 617 Statistical Methods in Education (3)
- HDF 673 The Family in Comparative Perspective (3)
- HEA 662 Gender and Health (3)
- HEA 665 Violence and Public Health (3)
- HIS 502 African American History: Selected Topics (3)
- HIS 530 History of Sexuality: Selected Topics (3)
- HIS 551 Gender and History: Selected Topics (3)
- HIS 713 African Americans after Slavery (3)
- ESS 532 Women in Sport and Physical Activity (3)
- ESS 630 Sport and Society: Social Inequalities (3)
- MLS 610 Culture and Ideas (3) (when focus is on gender)
- MLS 620 Human Nature and Society (3) (when focus is on gender)

GENDER AND HEALTH CONCENTRATION (21 HOURS)

Professional Development Applied Skills (9 hours)

Students select 6 hours from the following:

- HEA 612 Management of Community Health Organizations (3)
- HEA 617 Conflict Resolution and Coalition Building (3)
- CNR 600 Concepts and Processes of Conflict Resolution (3)
- CNR 601 Cultural Dimensions of Conflict (3)

And 3 hours from the following Management courses:

- PSC 540 Nonprofit Management and Leadership (3)
- PSC 511B Problems in Public Management: Marketing for Public and Nonprofit Agencies (1)
- PSC 511D Problems in Public Management: Strategic Planning (1)
- PSC 511F Problems in Public Management: Financial Management (1)
- PSC 511G Problems in Public Management: Grant Writing (1)

GH Core Courses (6 hours)

Students select 6 hours from the following:

- CED 574A Contemporary Topics in Counseling: Counseling Women (3)
- HEA 602 Epidemiology (3)
- HEA 603 Community Health Analysis (3)
- HEA 640 Global Health Issues (3)
WOMEN'S AND GENDER STUDIES

HEA 645  Health Policy (3)
HEA 662  Gender and Health (3)
SWK 550  Social Services in Health Care (3)

600  Independent Study (3-6)
A research or creative project related to women's and gender studies.

601  Women's and Gender Studies Internship (3-3)
Pr. at least 15 semester hours of graduate level course work
Supervised experience related to women's and gender studies; may include teaching internship, service learning opportunity, applied research experience, or internship in organizations and agencies that work on women's concerns or serving women in the community.

650  Feminist Theory: Intersections of Gender, Race and Class (3:3)
Core class introduces feminist social movements across historical and global contexts. Relies on interdisciplinary lenses and epistemologies, particularly as contested identity politics intersect with other systems of power and relationships.

651  Feminist Research Analysis (3:3)
Feminist approaches to philosophical and practical inquiries: data collection, analysis, and presentation. Prepares students to critically read research to understand the place of gender in lived experiences and institutional spaces.

698  Culminating Project (3:3)
Pr. 601, 650, 651, one additional theory course, and respective concentration core and skills courses, for a total of at least 24 credits
A capstone experience for the master's degree in women's and gender studies. Students design and present culminating project in their area of specialization and professional portfolio developed from WGS courses.

699  Thesis (1-6)

711  Experimental Course (3:3)
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

803  Research Extension (1-3)
Center for Biotechnology, Genomics and Health Research
3701 MHRA Building
(336) 334-4775
Fax (336) 334-4794
www.uncg.edu/bgh

The mission of the Center for Biotechnology, Genomics and Health Research is to play a leadership role for increasing knowledge, building capacity, and disseminating information in the health, biomedical, and biotechnological sciences to the Triad community. The Guilford Genomic Medicine Initiative, a partnership with the University of Miami, Duke University’s Center for Human Genetics, and the Moses Cone Health System, is a comprehensive program designed to utilize family history and patient information and, if appropriate, genetic testing for diagnosing disease risks and offering preventive regimens to maintain good health. The initiation of GGMI will lead to the implementation of operations, software, educational programs, counseling practices, and technology with significant potential for enhancing health care and the growth of new health care industries in the Triad region. (www.genomic-medicine.org)

CBGHR has obtained funding to develop a clinical genotyping core facility that will enable Center researchers and collaborators to investigate possible genetic predispositions for a variety of life-limiting conditions. The operation of this facility forms the cornerstone of an ambitious longer range program to develop a comprehensive health research program that associates individual genetic predispositions with conditions important in everyday life. The orientation of this program is consistent with the universal health maintenance goals articulated in NIH’s Healthy People 2010 initiative and its Roadmap 2010.

Future plans include producing educational tools for conveying genetic principles relevant for patients and their families, health professionals, and business and political leaders.

Center for Business and Economic Research
460 Bryan Building
(336) 334-5464
Fax (336) 334-4089
cber.uncg.edu

CBER performs high-quality applied research in economic policy and business practice, drawing on the expertise of the faculty of the Bryan School of Business and Economics. CBER’s goal is to use sound and objective research to serve the Triad community, and to assist in the economic development of our region.

Center for Creative Writing in the Arts
1601 MHRA Building
(336) 334-3775
Fax (336) 334-5358
www.uncg.edu/aas/ccwa/

The Center for Creative Writing in the Arts aspires to foster the efforts of those who believe in the power of the crafted word to transform and to improve our lives as individuals and as a society. Building on the University’s widely recognized tradition of strength in the field of creative writing, on the legacy of poets and novelists like Randall Jarrell, Peter Taylor, Robert Watson, North Carolina laureates Fred Chappell and Kathryn Stripling Byer, and the many nationally and internationally known authors who have been associated with the University’s M.F.A. program in creative writing, the Center offers a forum for collaboration through its commitment to writers and to writing in all its various creative manifestations. With its sponsorship of readings, lectures, workshops, interdisciplinary events and literary publications, the Center promotes a vital writers’ network in the Greensboro area, one committed to providing programs of appeal to a variety of audiences. The beginning wordsmith and the established word master, the student and the professional alike will find in the Center a place from which to draw strength, encouragement, and support in producing their work and in finding the opportunity to share it with others.
The Center for Critical Inquiry in the Liberal Arts is a research unit of the College of Arts and Sciences dedicated to promoting multi-disciplinary research and scholarship among faculty in the humanities, fine arts, social and natural sciences. Using both online and face-to-face interaction, the Center builds interdisciplinary communities of interest among faculty gathered in informal discussion, productive inquiry, and formal collaboration around the world’s pervasive concerns.

The Center for Drug Discovery, a division within the Department of Chemistry and Biochemistry, has the mission to create new knowledge regarding drug discovery, as well as computer-based methods used in drug design, and to disseminate this information to students, scientists, and the public through education, training, and research. New and existing methodologies are applied to design and prepare potential drug candidates. The Center serves as a resource for local pharmaceutical and biotechnology industries, helping to foster and maintain strong university-industry relationships and collaborations.

The Center for Educational Research and Evaluation (CERE) offers educational research, development, and evaluation services to public and private agencies, including school systems, state education agencies, testing organizations, private foundations, and corporations. CERE is capable of delivering a broad range of technical, analytic, and consultative research services and can offer expertise in psychometrics; educational testing; survey research methodology; student, teacher, and administrator assessment; planning, program development, and assessment in higher education, school psychology, special education, and social services; school curriculum development; and evaluation of inter-group relations in organizational settings.

The Center for Educational Studies and Development (CESD) serves as the School of Education’s direct link for community outreach to audiences throughout the Piedmont Triad region. Through student-centered initiatives, the Center provides field experiences for pre-service teachers through annual events for children and families. CESD hosts two annual events: the Piedmont Young Writers’ Conference, a one-day conference for area third through eighth grade students, and the Children’s Festival and Health Celebration, a free, public event that showcases more than 100 educational and health-focused activities for children and promotes youth services available in the Triad community.

CESD remains central to the School of Education’s mission by supporting faculty initiatives, developing outreach programs for school personnel, and providing educational “field” experiences to pre-service teachers who provide learning enrichment activities to K-12th grade students.

The Center for Geographic Information Science and Health provides a unique research environment for understanding health-related issues through the utilization of concepts and applications in Geographic Information Science (GIScience) while giving students an arena for active learning and discovery. An exemplary research environment is strongly promoted, creating an atmosphere where students have opportunities to acquire valuable, unique and marketable skills.

The mission of the Center for the Health of Vulnerable Populations (CHVP) is to improve the knowledge of health disparities and vulnerable populations through research, collaboration and education. This
includes initiatives to alleviate those disparities, thus improving the health, access, quality of care and quality of life of vulnerable populations. Strategies are designed to address the NIH Roadmap, Healthy People 2010, and Healthy Carolinians 2010 through partnerships with community stakeholders.

To fulfill the mission, the Center 1) promotes and enhances research on aging, culture, disease processes, ethnicity, health care delivery, disparities, health education, health policy and health risks and behaviors; 2) fosters collaborative research within the School, across the University and state, and involving community and international partners; 3) disseminates research information to teachers, researchers, business leaders, health care providers, policy makers, the public and the international community; and 4) develops new knowledge that contributes to better health, fewer health disparities and improved health care for vulnerable populations.

The CHVP activities include research training, research studies, grantsmanship, and community partnerships.

Center for Innovation in Interior Architecture
102 Gatewood Studio Arts Building
(336) 334-5320
www.uncg.edu/hes/alldocs/research.html

The Center for Innovation in Interior Architecture provides a nexus for a diverse group of people, ideas, and disciplines for the purpose of developing and applying new products, processes, technologies, and materials to interior environments.

CIIA provides a mechanism of support for Department of Interior Architecture faculty research by cultivating partnerships with design industry and practice in North Carolina and beyond, and by fostering an atmosphere of innovation and collaboration among faculty, students, and industry partners. Interior architecture students have opportunities to work on research and development projects with faculty and industry partners, as well as participate in internships.

Center for Legislative Studies
213 Graham Building
(336) 334-4360
Fax (336) 334-4315
www.uncg.edu/psc/cls

The Center for Legislative Studies (formerly the Parliamentary Documents Center for Central Europe) focuses on research and education in the organization and functioning of legislative institutions in democratic and transitional political systems around the world. CLS actively participates in conferences and workshops on national and sub-national legislatures, leading to books and articles on legislatures, elections, and political parties. CLS faculty participate in workshops and training programs for members and staff of legislatures both in the United States and around the world and are engaged in research on a range of topics on the functioning of legislative institutions. Graduate students, both American and international, are trained in legislative analysis through participation in faculty research projects and in the acquisition and maintenance of center documents and working materials.

Center for New North Carolinians
413 S. Edgeworth Street
(336) 334-5411
Fax (336) 334-5413
cnnc.uncg.edu/

The Center for New North Carolinians is authorized by the UNC Board of Governors to be a resource to the state university system through outreach education, research, training, and interpretation related to the immigrant populations of North Carolina. CNNC seeks to build bridges among immigrant populations and existing communities by providing outreach and educational programming, research and evaluation, information services, technical support, and immigrant and refugee leadership development. In conjunction with the University’s Department of Social Work, the Center offers AmeriCorps ACCESS to help refugee and immigrant communities gain better access to human services, build bridges of understanding with neighbors and become economically self-sufficient. Under this umbrella, Interpreter ACCESS Project (IAP) trains interpreters and operates a fee-for-services interpretation service, and Immigrant Health ACCESS Project (IHAP) bridges the gap between healthcare providers and immigrant communities by offering health and wellness activities.

Center for Research Excellence in Bioactive Food Components
318 Stone Bldg
(336) 334-5313
www.uncg.edu/ntr/ncrc

The UNCG Center for Research Excellence in Bioactive Food Components will be housed in the UNC Nutrition Research Building at the North Carolina Research Campus (NCRC) in Kannapolis, NC and is a satellite to the Department of Nutrition. The focus of research to be conducted in this Center will be cellular and molecular mechanisms of action of bioactive food components, to understand molecular targets for these dietary components and expand our fundamental understanding of their benefits to human health and wellness, healthy aging, and prevention of diseases
such as cancer. The specific bioactive food components
to be studied will be determined based on the inter-
estests and research of the Scientists in the Center, and
the research teams they will develop. The bioactives
to be studied may include components of blueber-
ries, raspberries, and other berries (flavonoids like
anthocyanins that may act as antioxidants), tomatoes
(lycopene that may have anticancer properties), or red
wine (resveratrol that may influence heart health).

Center for Research Excellence in
Nanobiosciences
1601 MHRA Building
(336)334-4625
Fax (336)334-4624
cren.uncg.edu/

The Center of Research Excellence in Nanobiosci-
ences (CREN) was established with a mission to
develop innovative and commercially viable nano-
bioengineering products. CERN goals are to develop
novel classes of nanomaterials with superior physical
and biological properties that can be functionalized
for innovative biotechnologies; to recruit, mentor and
educate a diverse population of outstanding students
at the undergraduate and graduate levels in nano-
bioengineering; and to secure patents and transfer
technologies that has commercial potential.

CREN research work focuses on four primary areas
in Nanobiosciences which include (a) synthesis and
functionalization of novel classes of nanomaterials that
can be employed in the development of new bio or
environmental related technologies (b) development of
innovative diagnostics that utilizes active nanosystems
(c) characterization of the toxicity and environmental
impact of nanoparticles and (d) computational model-
ing that complement the experimental and develop-
ment activities within the center.

Center for Women’s Health and Wellness
Mail: 401 HHP Building
Room: 126 HHP Building
(336) 334-4736
Fax (336) 334-3238
www.uncg.edu/hhp/cwhw

The mission of the Center for Women’s Health and
Wellness is to advance the health and wellness of
all women and girls through collaborative research
and educational programs. The Center places strong
emphasis on the promotion of positive health, quality
of life, and sense of well-being for girls and women of
all ages and from all backgrounds and communities.
To fulfill the mission, the Center seeks to (1) create an
interdisciplinary collaborative research and scholar-
ship program around women’s health and wellness
by building synergy around women’s health and
wellness, providing research support to faculty, and
securing public, private, and corporate funds to sup-
port women’s health research and scholarship, and (2)
connect research to practice by promoting communi-
cation among practitioners, consumers, and research-
ers around women’s health and wellness, building
research collaborations among researchers, practitio-
ners, and consumers, and disseminating research to
scientific, practice, and consumer audiences.

Center for Youth, Family, and Community
Partnerships
330 S. Greene St., Suite 200
(336) 217-9730
Fax (336) 317-9750
www.uncg.edu/csr/

The Center for Youth, Family, and Community
Partnerships (CYFCP) is dedicated to building the
capacity of families, service providers, researchers,
teachers, and communities to promote the social,
emotional, and cognitive well-being of children. In
partnership with colleagues from across the Univer-
sity and the community, the Center:
• carries out basic, applied, and action research;
• translates research into effective programs and prac-
tice;
• infuses community perspectives into university
research and teaching;
• facilitates strategic problem-solving processes; and
• promotes programs, practices, and policies that are
likely to yield positive outcomes for children and
their families.

With funding from federal, state, local, and founda-
tion grants, the Center’s current initiatives focus on
family-centered, system of care approaches to mental
health service delivery and training of service pro-
viders, youth violence prevention and intervention,
community health, adoption and foster care, early
childhood mental health and readiness, and communi-
ty-based evaluation.

Family Research Center
536 Highland Ave.
(336) 334-3601
Fax (336) 256-0545
www.uncg.edu/frc/

The Family Research Center was founded to contrib-
ute to the understanding of positive family relations-
ships and the role of families in children’s develop-
ment. The goals of the Center are to foster collabora-
tive research on families and children and to create a
supportive atmosphere for interdisciplinary programs
of research on families. The Center also works to communicate the results of research to the wider community to enhance families’ lives and inform the decisions of policy makers.

In addition to faculty from Human Development and Family Studies, faculty from the Department of Psychology and the UNCG Center for Youth, Family, and Community Partnerships participate as affiliates of the Center.

The Center is housed in its own building and contains equipment to support faculty and graduate student research. Space is provided for observational research with families, meeting and planning, computer facilities, and data analysis, and the Center provides administrative support for collaborative research proposals and projects. The Center also organizes conferences and workshops for faculty and students involved in research on children and families.

McDowell Research Center for Global Information Technology Management
441 Bryan Bldg
(336)334-3052
Fax (336)334-4550
www.uncg.edu/bae/mrc/

MRC’s mission is to support and stimulate the application of information technology in organizations worldwide, with an emphasis on the Piedmont Triad region, North Carolina, and the United States. Research projects will focus on contemporary issues facing companies worldwide. Simultaneously, the Center will contribute to the IT-related industry clusters in the Triad region, thereby aiding in the economic development and business environment of affected firms. MRC will offer programs targeted to both for-profit and non-profit organizations.

Goals of MRC are to conduct and distribute timely and relevant research in information technology that has practical applications and supports the needs of business, to be a primary resource for students and organizations for information technology education and training, and in the process, to provide information and resources to organizations in the planning, application, and management of information technology. Privacy and security, IT in healthcare, electronic commerce, and supply chain management will receive priority both at the national and international levels.

MRC plans to develop a world-class Research Consortium of international experts from both within and outside of the United States. The role of the consortium is to support the Center by advising, providing resources, furnishing information, and conducting research related to their expertise and geographic regions.

Music Research Institute
(336) 256-2581
www.uncg.edu/mus/mri/

The mission of the Music Research Institute within the School of Music is to conduct research that advances the understanding of music and to share new knowledge for the good of society.

Toward that end, more than 30 research projects have been initiated in seven areas: biomusic, neuroimaging, music-related hearing loss, music education, music medicine, music performance, and ethnomusicology. This cluster of topics, integrated into an overarching institute, provides for a rich array of multi- and interdisciplinary research involving many scholars from within the School of Music, across the university, and from local, regional, national, and international research communities.

Office of Business and Economic Research
462 Bryan Building
(336) 334-5464
Fax (336) 334-4089
www.uncg.edu/bae/ober

The Office of Business and Economic Research performs high-quality applied research in economic policy and business practice, drawing on the expertise of the faculty of the Bryan School of Business and Economics. OBER’s goal is to use sound and objective research to serve the Triad and state and to assist in the economic development of our region.

The SERVE Center at UNCG
Dixon Building, Gateway University Research Park,
5900 Summit Avenue
(336) 315-7400 or (800) 755-3277
Fax (336) 315-7457
www.serve.org

The SERVE Center conducts research, provides technical assistance, and disseminates relevant information focusing on pre-kindergarten to grade 12 education. Building on theory, research, and professional knowledge, SERVE staff identify issues through a systematic needs assessing/market research process, conduct studies using experimental, correlational, and other methodological designs, and develop tools, interventions, and processes to assist practitioners and policymakers with raising the level of student achievement in the region and beyond. SERVE operates one of ten U.S. Department of Education funded Regional Educational Laboratories (a five year contract funded at slightly less than $40 million) and a subcontract for providing technical assistance to State Education Agencies through the Comprehensive Center. It also provides services in migrant education, smaller
learning communities, high school redesign, teacher
growth and assessment, professional learning teams,
reading and literacy, program and project evaluation,
21st Century Learning Communities, and technology
applications in education, and directs the National
Center for Homeless Education. SERVE Center is the
largest sponsored research center at the university and
has a staff of approximately 60 people.

UNCG Center for Research Excellence in
Bioactive Food Components
111 West Avenue, Kannapolis, NC 28081
(704) 250-5800
Fax (704) 250-5809
www.uncg.edu/nutrition

Located on the North Carolina Research Campus in
Kannapolis, scientists will conduct externally funded
research that explores the molecular and cellular
mechanisms of nutrition and the interplay among
bioactive food components.
The tuition and academic fees paid by UNCG students only partially cover the cost of the education they receive. The remaining costs are met by funds from the State of North Carolina, from the UNCG Excellence Fund, and from alumni, friends, corporations, foundations, and the federal government. The figures listed below are proposed graduate tuition and fees per credit hour for the 2008-2009 academic year. Tuition and fees are due in full on or before registration day of each semester. All students are responsible for payment of tuition appropriate to residence status. Payment of fees is a prerequisite to completion of registration. **UNCG reserves the right to make changes in these charges without advance notice.**

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# Graduate Tuition and Fees for 2008-2009 academic year

Subject to approval and/or change by the North Carolina General Assembly

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## 2008-2009 Schedule of Tuition and Fee Charges

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Athletics Fee</th>
<th>Facilities Fee</th>
<th>Activities Fee</th>
<th>Ed. &amp; Tech. Fee</th>
<th>Health Services Fee</th>
<th>Student Gov. Fee</th>
<th>Admin. Computing Fee</th>
<th>Total Fees</th>
<th>In-State Total</th>
<th>Out-of-State Total</th>
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1Add $70 per credit hour for MBA, MSITM, and MS in accounting tuition rates.

**12 hour annual rate shown for illustrative purposes only as tuition differential rates are not capped.

**Registration for 801 Thesis Extension, 802 Dissertation Extension, and 803 Research Extension.**
Tuition and Fees

Miscellaneous Fees (as applicable)
- Registration Fee (per semester) $6.00
- Late Pre Registration Fee (per semester) $30.00
- Late Registration Fee (per semester) $45.00
- Student Health Insurance Fee $390.00
- Graduation Fee - Master’s $55.00
- Graduation Fee - M.S./Ed.S. $70.00
- Graduation Fee - Doctoral $60.00

On-Campus Housing (per semester)
- Double - Non Air Conditioned $1,663.00
- Single  - Non Air Conditioned $3,326.00
- Double - Air Conditioned $1,782.00
- Single - Tower Village $2,567.00
- Single - Spring Garden Apts $2,675.50
- Spencer Basement $2,371.00

Meal Plans
- Platinum 75 Plan $1,262.50 (unlimited trips to CAF + $75 declining balance)
- Platinum 150 Plan $1,312.00 (unlimited trips to CAF + $150 declining balance)
- Platinum 200 Plan $1,362.00 (unlimited trips to CAF + $200 declining balance)
- Silver 400 Plan $1,162.00 (150 trips to CAF + $400 declining balance)
- Silver 500 Plan $1,162.00 (125 trips to CAF + $500 declining balance)
- Bronze 725 Plan $825.00 (25 trips to CAF + $725 declining balance)

Commuter and summer meal plans also available.

A health service fee is required if living on campus regardless of hours and is optional for all others registered for fewer than nine hours.

See the Student Handbook for additional information regarding other fees and activities.

Student Credit Policy
Tuition and fees for all University students are due and payable before or on registration day. North Carolina law requires the University to charge and collect from each student at the beginning of each academic term tuition, fees, and an amount sufficient to pay all other direct expenses such as room and board incurred for the term. Payments may be made by cash, money order, or check.

As an exception to the above policy, students may be granted deferments (credit) only if they meet one of the following criteria:

1. Students who receive awards through the UNCG Financial Aid Office from one or more of the following programs must pay the amount of their bill less the amount awarded for the financial aid. Any liability resulting from a reduction of financial aid becomes the student’s responsibility payable upon notification of the adjustment of the award. Financial aid awards for purposes of the credit policy are as follows: Pell Grants, Stafford Student Loans, Institutional Loans, SEOG, Perkins Loan, N.C. Veteran Scholarships, Vocational Rehabilitation, Disabled Veterans, Minority Presence Grants, University Scholarships, Fellowships, Assistantships, and Grants.

2. Students wishing to utilize Veterans’ benefits under the credit policy must demonstrate financial need in compliance with normal financial aid need standards. Final approval is contingent upon the student’s demonstration of need and a good credit history with the University.

3. Recipients of scholarships awarded by organizations outside the University in which direct payment is made to UNCG and notification is on file with the Financial Aid Office may qualify under the credit policy. Students should provide notification of such awards as soon as possible to the Financial Aid Office.

Refund Policy for Student Fees and Charges

PART I: Policy for Students Completely Withdrawing from UNCG

Official Notice of Intent to Completely Withdraw from The University of North Carolina at Greensboro

Students who must withdraw from the University can do so by dropping all courses on-line via UNCGenie. Students who drop all courses are considered to be withdrawn from the University and must seek reactivation or readmission through The Graduate School to return to school in subsequent terms.

In case of a major disaster, including a pandemic flu occurrence, UNCG will follow UNC General Administration refunding guidelines and in the absence of such guidelines, UNCG Executive Staff decisions.

Students who wish to discuss the academic consequence of a change in enrollment status at the University may contact The Graduate School.

There will be a $25.00 non-refundable processing fee charged to all students who completely withdraw from the University.

Complete Withdrawal from UNCG for Students Activated for Military Duty including the Armed Services Reserve and the National Guard

If a student is involuntarily called for active duty during a currently enrolled semester, the following refund guidelines apply:
• The return of funds calculation will be completed under the normal terms and conditions as applicable.
• The student will be expected to provide correspondence supporting the call to active military duty.

Students who serve in the Armed Services Reserve or the National Guard are often alerted that they may be called to active duty for various reasons. If any student is voluntarily or involuntarily called for active duty during a term in which he or she is enrolled, the eligible student may elect one of the following options:

Complete Withdrawal Option (Without Academic Penalty)
1. Tuition and general fees will be fully refundable.
2. Health fees generally will be fully refundable except for students who have used the University’s health services. These students would be billed at the fee for service rate to a maximum charge equivalent to the health fee. Students who have enrolled in the Student Health Insurance program should contact the Agent for information on a prorated refund of premium.
3. Room and board will be refunded based on the number of weeks the room was occupied and the meals consumed.
4. The student will be responsible for any miscellaneous charges such as library fines, parking tickets, parking permits, health service charges, etc.
5. In order to be eligible for a refund under these guidelines, the student must contact the University Registrar’s Office and provide the following:
   • A copy of his or her call-up papers; these “orders” will serve as documentation for the refund of tuition and fees.
   • A mailing address to which the student would like the refund to be sent.
   The University Registrar’s Office will notify appropriate offices of the student’s withdrawal including Student Academic Services, The Graduate School, Financial Aid Office, Housing and Residence Life, and the Cashiers and Student Accounts Office.
6. In order to receive a refund from the Department of Residence Life, the student must complete the usual residence hall check out procedure. The student can then withdraw either in person or via UNCGenie.
7. If a student is receiving financial aid during the term in which he or she is called to active duty, financial aid must be repaid according to federal and state guidelines before a refund will be issued by the University.

Early Exam Option
Eligible students who are required to report for military duty not earlier than four calendar weeks prior to the date a semester ends as stated in the official catalog of the University, or after completion of at least 75% of the enrollment period in a nonstandard semester, may, when authorized by the instructor, take the final exam early and be given full credit for all courses for which they have an average of C or better. Students are not eligible for refunds for courses when they receive credit.

Incomplete Grade Option
Students called to active duty may take an incomplete in a course and complete it upon release from active duty. Course completion may be accomplished by independent study or by retaking the course without payment of tuition and fees. Under federal financial aid policies, a course that is retaken this way may not be counted toward a student’s enrollment load. Eligible students who receive an incomplete for any course for which they are enrolled shall not be entitled to any refund of tuition and fees paid.

Returning to the University
1. If a student is called for active duty and subsequently released in a manner that would allow them to re-enroll during the semester in which they withdraw, the University will make every effort to accommodate the request. Individual contacts with faculty involved will determine the appropriateness of returning to a course.
2. Students who are called to active duty during a semester, and who withdraw from the University, are technically ineligible to early register for the term in which they wish to re-enroll. However, UNCG will make every effort to give these students special dispensation and to allow them to preregister for that term.

Summer Session
Students who completely withdraw from their summer courses will be handled with the same refund policy that applies to the regular academic year.

Return of Federal Title IV Funds
The federally mandated Return of Funds Policy governs the return of Title IV funds disbursed to students who complete the official withdrawal process as defined by the University. The term refund should be understood to mean the repayment of money received by the University for tuition and fees or for a reduction of charges if tuition and fees have not yet been paid. Title IV funds include Federal Unsubsidized and Subsidized Stafford Loans, Federal Perkins Loans, Federal Graduate PLUS Loans, Federal PLUS Loans, Federal Pell Grants, Federal Supplemental Educational Opportunity Grants (SEOG), Academic Competitiveness Grant (ACG), National SMART Grant, and NCSIG. Federal Work Study is excluded from this procedure.
Unearned Title IV funds must be returned to the Title IV programs. Unearned aid is the amount of disbursed Title IV aid that exceeds the amount of earned Title IV aid. During the first 60% of the enrollment period (semester or term), a student earns funds in direct proportion to the length of time he or she remains enrolled. The period of time during which a student is enrolled is the percentage of aid earned by the student. A student who remains enrolled beyond the 60% point earns all Title IV aid for the term.

The percentage of the period that a student remains enrolled is determined by dividing the number of days the student attended by the number of days in the term. Calendar days are used in the determination of percentages. Breaks of five (5) days or longer are excluded in the calculations. The percentage may be found by using the following formula:

\[
100\% - \frac{\text{number of days the student attended}}{\text{number of days in the semester}}
\]

**Example of Total Withdrawal Refund Calculation**

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*Actual refund calculation percentages, for a specific semester, are available in each semester’s registration booklet.

If the amount of the Title IV funds disbursed is greater than the amount of Title IV funds earned by a student, a return of Title IV funds is necessary. Both the University and the student are responsible for returning a percentage of the unearned aid.

The University will return federal funds to the appropriate federal program up to the total net amount disbursed from each source as required by law. The prescribed order of return in:

- Federal Unsubsidized Stafford Loan
- Federal Subsidized Stafford Loan
- Federal Perkins Loan
- Federal Graduate PLUS Loan
- Federal PLUS Loan (parent)
- Federal Pell Grant
- Academic Competitiveness Grant
- National SMART Grant
- FSEOG
- Other Title IV Programs

**Return of Non-Federal Funds**

UNCG will return Non-Federal funds received and applied to a student’s account requested by the source from which the funds were disbursed. Any outstanding financial obligation to UNCG will be deducted from the amount of Non-Federal funds to be returned. Funds will be returned to the student unless they are requested by the source from which the funds were disbursed. When a student completes the withdrawal process, the Cashiers and Student Accounts Office will initiate a refund and mail it to the student’s last known off campus address.

If a student still has an outstanding financial obligation as a result of this process, the University will bill the student for payment.

**PART II: Policy for Students Who Drop Course Hours**

The refund policy applies to complete withdrawals from UNCG. If a student simply reduces their course load after the Late Registration and Schedule Adjustment period (refer to the University Academic Calendar), NO refund or reduction of charges whatsoever will be credited to the student’s account. However, if the drop in hours occurs before the end of the Late Registration and Schedule Adjustment period, the student is entitled to a full refund for the hours dropped. If this change results in the creation of a credit balance, a check will be generated and mailed to the student’s last known on or off campus address.

If students reduce the amounts of their credit hours during a summer session, they should then refer to the last day for tuition refund for a drop in credit hours chart listed in the Summer Session Calendar published in the Summer Session Bulletin.

**Room and Board**

Room rent and board are not refundable. The housing contract is for one academic year. Students who cancel their contract at the end of the Fall Semester and remain enrolled at the University will be charged room rent and board for the Spring Semester.

**Late Fee for Registration**

Continuing students eligible to register during early registration for the following semester who choose not to do so, or who fail to confirm their registration, will be charged a late fee. Waiver of the late fee will be considered only when it can be demonstrated that the
University, through one of its offices or officials, was directly responsible for the failure of the student to complete registration.

For Students Who Have Received Financial Aid

If it is determined that any of a financial aid recipient’s UNCG charges (tuition, fees, or room and board) are refundable in any amount, the student will not receive any of the refund until the Financial Aid Office determines what portion of the refund, if any, needs to be repaid to the financial aid program from which the student received funds.

When a student receives financial aid funds for purposes of indirect (noninstitutional) educational costs such as books and supplies, personal expenses, off-campus living and food expenses, or travel expenses, the student should expect to be responsible for repaying any portion of the funds received that cannot be attributed to the expenses incurred during the student’s actual period of enrollment.

University Refund Appeals Committee

The University Refund Appeals Committee considers appeals from any student who wishes to submit an appeal in writing. Cases are referred to the committee when a student feels that the University’s refund policies do not address particular circumstances.

The Refund Committee will not review appeals that are more than one year old. If the original appeal is denied, the student has the right to re-appeal one time as long as new documentation can be provided with the re-appeal. If the second appeal is denied and the student feels it deserves further consideration, the appeal will be referred to the Vice Chancellor of Business Affairs.

Questions pertaining to the Refund Committee should be directed to the Cashiers and Student Accounts Office, 151 Mossman Building, (336) 334-5831 or 1-877-286-8250. Appeal forms may be obtained in the Cashiers and Student Accounts Office or on their web site fsv.uncg.edu/cashiers.html.

Special Fees

Athletic, Activity, and Facilities Fees

Payment of these fees gives students access to athletic events, campus organizations, Elliott University Center (student union), and many other student programs.

Auditing Fees

Current UNCG Students

A registered full-time UNCG student may audit one course per semester without charge. A registered part-time UNCG student may audit no more than two courses per semester and is charged a fee of $15 per course.

Visiting Auditors

Visiting auditors are classified as non-UNCG students who wish to take a course(s) without receiving a record of enrollment. Such individuals must apply to register through the Division of Continual Learning. A visiting auditor will not receive a record of enrollment and is charged a $50 fee for lecture courses. Visiting auditors are admitted to lecture courses when space is available with the approval of the department head in consultation with the instructor teaching the course requested.

Registered auditors (persons not officially enrolled at UNCG) who do require a record of enrollment as an auditor should file a VISIONS form with The Graduate School and follow regular registration and payment procedures. A fee equal to in-state or out-of-state tuition rates is charged for each course audited. Fees are payable in full at the time of registration.

To audit a 600- or 700-level course, a student must hold a bachelor’s degree.

Publishing Fee

The fee to publish the thesis or dissertation is payable via the online submission system available on The Graduate School’s web site.

Graduation Fee

The graduation fee of $55 for master’s and Specialist in Education candidates, $70 for the combined M.S./Ed.S. candidates, and $60 for doctoral candidates is payable to the Cashier’s and Student Accounts Office. Students who do not graduate in the term for which they originally applied must file a new application. Check with The Graduate School regarding your status.

Health Service Fee

The health service fee supports part of the services provided in the Student Health Services, including medical and mental health services and health education programs. Routine office visits are prepaid in the health fee. Examples of costs not covered by the health fee include pharmacy purchases, orthopedic aids, x-rays, and laboratory tests.

Nurse Anesthesia Program

Tuition for the nonacademic clinical residency at North Carolina Baptist Hospital is $2900 per year. The clinical residency fee, payable to North Carolina Baptist Hospital, is due at the beginning of each year. All tuition and fees are due on or before the day of registration.

A single printing fee of $300 is charged by North Carolina Baptist Hospital for the large number of handouts issued to the student. Additionally, a $20 activity fee and $190 Medatrax fee will be charged.
The clinical residency fee for the Raleigh School of Nurse Anesthesia is $4500. A single printing fee of $75 is charged for handouts issued to the student as well as a $20 activity fee and $190 Medatrax fee.

Use of the University Libraries
Students must be registered for credit if they wish to use their UNCG ID card to use the University Libraries. If the Libraries are to be used for one month or less, such as to finish incompletes or for special assignments, students may obtain a letter from the Graduate School or their professor and present it to the Access Services Department in Jackson Library. During the summer months, students who preregistered for Fall may check books out of the University Libraries without being registered for credit or securing special approval.

Residence Status for Tuition Purposes
The tuition charge for persons who qualify as residents for tuition purposes is substantially less than that for nonresidents. An explanation of the North Carolina law [General Statute 116-143.1] governing residence classification for tuition purposes is set forth in Appendix G. A more complete explanation of the statute and the procedures under the statute is contained in A Manual to Assist the Public Higher Education Institutions in North Carolina in the Matter of Student Residence Classification for Tuition Purposes. The Manual is the controlling administrative statement of policy on this subject. Copies of the Manual are available for inspection in the Office of the Provost, the Library, the Graduate School, and other admitting offices.

Initial Classification
Every applicant for admission is required to make a statement as to the length of his/her legal residence in North Carolina. Every applicant is classified as a resident or nonresident for tuition purposes prior to actual matriculation, the admitting office making the initial classification. Those not claiming to be residents for tuition purposes are, of course, classified as out-of-state students (nonresidents) for tuition purposes. If insufficient information supports an applicant’s claim to be a resident for tuition purposes, the admitting office will initially classify that applicant as a nonresident.

Subsequent Classification
A residency classification once assigned (and confirmed pursuant to any appeal properly taken) may be changed thereafter (with corresponding change in billing rates) only at intervals corresponding with the established primary divisions of the academic year.

A student who, due to subsequent events, becomes eligible for a change in classification, whether from out-of-state to in-state or the reverse, has the responsibility of applying for a reclassification in the Office of the Provost.

Appeals
A student may appeal a residence classification assigned by the admitting office by submitting to the Office of the Provost a completed “Residence-and-Tuition-Status Application.” The completed application must be submitted before the end of the academic term for which the student wishes to be considered for reclassification. (Application forms may be obtained from the Office of the Provost or from any of the admitting offices or can be found online at www.uncg.edu/pvt/residency/.)

It is the responsibility of the student to pay tuition at the rate charged and billed while an appeal is pending. In effect, the student who is classified as a nonresident at the time of registration pays the nonresident rate. Conversely, if a student is classified as a resident at the time of billing, he/she pays the resident rate. Any necessary adjustments in the rate paid will be made at the conclusion of the appeal.

Students or prospective students who believe that they are entitled to be classified as residents for tuition purposes should be aware that the process of requests and appeals can take a considerable amount of time and that applications for classification should not be delayed until registration.

Students who wish to receive a timely review of their residence status should submit their completed “Residence-and-Tuition Status Application” approximately 30-45 days in advance of the term for which they are seeking a review of their residence status. Applications are reviewed in the order in which they are received; failure to submit an application in a timely manner may delay the review process.

The Office of the Provost’s determination of residence classification may be appealed to the Campus Residence Appeals Committee, and decisions of the Campus Residence Appeals Committee may be appealed to the State Residence Committee. A written statement of the appeals procedures is provided to every applicant or student receiving an adverse decision from the Office of the Provost.

Aliens and Foreigners
Aliens lawfully admitted to the United States for permanent residence are subject to the same considerations as citizens in the determination of residency status for tuition purposes. Certain classes of both resident and nonresident aliens are subject to these
same considerations, but certain classes are not. More complete information on the residence classification of aliens may be obtained from the Manual (referred to above) or from the Office of the Provost.

**Married Persons**

If you have established your domicile in North Carolina and you are married to a resident of North Carolina but have not been a legal resident for 12 months, the 12-month requirement may be satisfied if your spouse has been a legal resident for at least 12 months, and vice versa. However, the two spouses cannot add the time they have lived in North Carolina in order to get a total of 12 months. In other words, at least one spouse must have been a legal resident for at least 12 months.

**North Carolina Public School Teachers**

Under separate statute (G.S. 116-143.5), certain North Carolina public school teachers (or other personnel paid on the teacher salary schedule) are eligible to be charged the in-state tuition rate for courses relevant to teacher licensure or professional development, irrespective of their length of legal residence. To qualify, the applicant must be a legal resident of North Carolina and employed full-time by a North Carolina public school. Application for this benefit must be made prior to the beginning of each academic term for which the benefit is sought.

**UNC Employees**

A person who is a full-time employee of the University of North Carolina, or is the spouse or dependent child of a full-time employee of the University of North Carolina, and who is a legal resident of North Carolina qualifies as a resident for tuition purposes without having maintained that legal residence for at least 12 months immediately prior to his or her classification as a resident for tuition purposes.

**Military Personnel and the Dependent Relatives Thereof**

North Carolina law affords tuition rate benefits to certain military personnel and their dependents. Specifically, the law provides that members of the Armed Services, while serving on active duty and living concurrently in North Carolina, may be charged the in-state tuition rate. The dependents of certain members of the Armed Services who are stationed on active duty in North Carolina may qualify for the in-state tuition rate while sharing a home with the active duty service member.

Qualifying active duty military members and the dependent relatives thereof are extended a “military grace period” if the military member is reassigned outside of North Carolina or retires while the member or dependent is enrolled in an institution of higher education. During this grace period, the military member or dependent relative thereof is eligible for the in-state tuition rate as long as he or she is continuously enrolled in the degree or other program in which he or she was enrolled at the time of the reassignment. Qualifying members and dependents also remain eligible to pay the in-state rate if the active duty member receives an Honorable Discharge so long as the member or dependent establishes legal residence in North Carolina within thirty days and is continuously enrolled in the degree or other program in which he or she was enrolled at the time of the Honorable Discharge.

Additionally, any nonresident North Carolina Guard Members in reserve or active status are eligible for the in-state rate and all applicable mandatory fees. Application for this benefit must be made prior to the beginning of the first enrolled term of each academic year for which the benefit is sought. The person applying for this benefit has the burden of proving entitlement to it.

Also, for North Carolina residents serving in the armed forces, the law provides that, “no person shall lose his or her residence status for tuition purposes solely by reason of serving in the armed forces outside of this State.”

**Tuition Waivers**

A separate North Carolina statute (G.S. 115B) provides tuition waiver for North Carolina residents who are at least age 65. The tuition waiver benefit also extends to certain family members of deceased or totally and permanently disabled emergency workers of North Carolina. More complete information on this statute may be obtained from the Office of the Provost.

**Faculty/Staff Tuition Waivers**

The purpose of the Tuition Waiver Program is to provide an opportunity for eligible employees to have tuition and fees waived for a course taken at any of the 16 campuses of the University of North Carolina. Participation in the program is voluntary, and courses may be taken for either career development or personal interest. The Tuition Waiver Program is administered through the Cashiers and Student Accounts Office, 151 Mossman Building, and forms are available in this office and on their web site fsv.uncg.edu/cashiers.html.

In order to be eligible for participation in the Tuition Waiver Program, an employee must be a permanent employee working thirty (30) or more hours per week for nine (9) or more months per calendar year. Each employee must apply for and be admitted through
Tuition and fees charges will be waived for a maximum of three (3) courses per academic year with no limitation as to the number of courses that can be taken each term. Courses may be taken in any term: Fall, Spring, or Summer, so long as the limit of three (3) courses per academic year is not exceeded. The Tuition Waiver Program does not cover non-credit courses, such as those offered through CallDCL. The employee is responsible for any and all additional tuition and fees charged to their student account during the term.

An Application for Tuition Waiver form must be completed for each term a course is taken. Different forms may be required to take courses at campuses other than UNCG. The application procedure is as follows:

• Apply for and be admitted through the appropriate admissions office within its specified deadlines.
• Complete the Application for Faculty and Staff Tuition Waiver form.
• Obtain advance signature approval of your supervisor, and your department head (for employees of institutions other than UNCG: follow your institution’s guidelines regarding approval signatures).
• SPA staff members should deliver their completed form to the Cashiers and Student Accounts Office upon obtaining the necessary departmental signatures. EPA faculty and EPA non-faculty are required to obtain a final approval signature from the Office of the Provost prior to submitting their completed form to the Cashiers and Student Accounts Office.

Adjustments to your student account will occur at the end of the first 5 days of each term in order to account for early withdrawals and schedule changes. Employees may receive billing statements regarding charges on their student accounts. Questions regarding this policy may be directed to the Cashiers and Student Accounts Office at (336) 334-5831 or toll free at 1-877-286-8250, or in person at 151 Mossman Building.
F I N A N C I A L  S U P P O R T

UNCG Fellowships and Assistantships
Students receiving financial support from the University through a nonservice fellowship or a service appointment are required to enroll in a minimum of six semester hours in a graduate degree program. They must have been admitted to the University unconditionally and have maintained a B (3.0) average. Service hours may not exceed 20 hours per week in total.

Assistantships are available through The Graduate School upon recommendation of the department. Prospective students who wish to be considered for an award should indicate such an interest on the admission application. If already enrolled, students should notify the Director of Graduate Study of their major department and make application by letter addressed to the department.

Stipends vary by program, level of degree, assigned responsibility, and workload. Because stipends are not paid until after study has commenced, checks will not be received until one month after classes begin each semester. Students are reminded to make financial arrangements accordingly.

Greensboro Graduate Scholars, nominated by their departments and selected by The Graduate School, receive, in addition to the normal assistantships, a stipend of $2,000 for master’s students and $3,000 for doctoral students. These awards will be renewed once for master’s students and twice for doctoral students, assuming satisfactory progress in the program.

A small number of nonservice fellowships are available in some departments. Outstanding students may be nominated by their departments for these highly competitive awards. For a complete listing of fellowships awarded annually by UNCG, please refer to the UNCG Financial Aid Directory.

University of North Carolina Campus Scholarships
UNC General Administration funds the UNC Campus Scholarships, which are intended to encourage greater diversity on the campus. Full-time doctoral students at UNCG who are residents of North Carolina and have demonstrated financial need are eligible for these awards. A portion of the UNC Campus Scholarship fund is earmarked for Native American students who meet eligibility requirements.

Nationally Competitive Scholarships and Fellowships
For a listing of nationally competitive scholarships and fellowships, please refer to the Lloyd International Honors College web site www.uncg.edu/hss/.

Academic Common Market
(404) 875-9211
www.sreb.org
The Academic Common Market is an agreement between participating institutions of the Southern Regional Education Board (SREB). The agreement enables students to pursue unique majors offered at public institutions in other SREB states while paying in-state tuition. If public institutions in a graduate student’s home state do not offer a degree program in the desired field of study, it may be possible to obtain a waiver of out-of-state tuition to attend a cooperating public institution of higher education in another participating state.

In general, students must meet two requirements to participate in the Academic Common Market. First a student must be accepted for admission into a program that is part of the agreement established with SREB. Second, the student must have proof of legal residence in the home state. Individual institutions may have additional requirements. Visit the SREB web site or call SREB for more information. Programs at UNCG that have been approved as offerings through the ACM may be found on the UNCG web site at www.uncg.edu/grs/prospective/common_market.html.

Student Loans and Campus Jobs
Information on student loan applications and procedures is available on request to the Financial Aid Office. Financial Aid Transcripts and the Free Application
for Federal Student Aid are required. All financial aid awarded to UNCG graduate students is coordinated through the Financial Aid Office, which handles disbursements to students in conjunction with the Cashiers and Student Accounts Office. Financial aid budgets for federal loans are based on the cost of attendance, which includes actual tuition and fee charges.

Full-time graduate students may not be employed for more than 20 hours per week inclusive of assistantship hours. Normally, a student who has a fellowship or service appointment will not work outside the University. Under extraordinary circumstances, with the recommendation of the department and approval of the Dean of The Graduate School, a student who has a fellowship or service appointment may be granted special permission to work outside the University.
Housing and Dining

On Campus Housing
Office of Housing and Residence Life
Ragsdale-Mendenhall Hall
(336) 334-5636
hrl.uncg.edu

Graduate students who elect to live on campus may choose from the available residence halls for upper division students. Full descriptions of each hall are available at the UNCG Housing and Residence Life website. All students who reside on campus are required to purchase a meal plan (see Tuition and Fees).

Off Campus Housing

The Office of Campus Activities and Programs maintains a web site of off-campus housing opportunities at www.uncg.edu/cap/commuter/housing.php.

University Dining Services

(336) 334-4101
www.campusdish.com/en-us/CSSE/UNCGREENSBORO

Dining Services are available through the six dining locations on campus. Food offerings include national brands such as Quiznos, Pizza Hut, Chick-fil-A, Burger King, and Java City as well as traditional homestyle favorites and authentic international cuisine. Locations are:

- The Caf, an all-you-can-eat location in the upper level of the Main Dining Hall.
- Spencer’s, lunch in the upper level of the Main Dining Hall.
- The Atrium Food Court and C-Store in the lower level of the Main Dining Hall.
- Elliott University Center Food Court across from the UNCG Bookstore.
- Bryan Food Court in the Bryan School.
- The Pit Stop in the McIver Parking Deck.
- 1540 Spring Garden St. Convenience Store in the Spring Garden Apartments.
- The Marketplace and Charlie’s on the main level of the Elliott University Center.

Services for Students

United Campus Ministries Center
500 Stirling Street
(336) 334-4266
www.uncg.edu/min

Hours: M-F, 9 am-11 pm.; Sat-Sun, 12 noon-11 pm

Seven religious organizations are part of the United Campus Ministries Center: Baptist Campus Ministry, Hillel, St. Mary’s House (Episcopal/Anglican), Catholic Student Fellowship, Presbyterian Campus Ministry, Wesley-Luther (United Methodist and Lutheran), and InterVarsity Christian Fellowship (non-denominational). Each of these organizations sponsors a schedule of activities open to the entire University community. Campus ministers serve as advisors for their respective organizations and are also available for personal counseling or as resource persons for other groups or organizations.

Career Services Center

1 Elliott University Center
(336) 334-5454
www.uncg.edu/csc

Hours: M-F, 8 am-5 pm

The mission of the Career Services Center is to provide guidance and resources to undergraduate and graduate students and alumni for their lifelong career development. Services are provided in career planning, experiential learning, and employment assistance/continuing education planning.

Staff are available to assist graduate students with their career plans through individual appointments. A number of tools are available to help students assess their career interests, values, skills, and work setting preferences. A computerized guidance system is available to students who want to examine career options or gather occupational information. A wealth of career-related information is available both in the Center’s resource library and on their web site.

Experiential learning services provided by the Center aid students in locating credit and non-credit, paid and unpaid internship opportunities within the local Triad area, as well as in other locations worldwide. Also, part-time on- and off-campus employment and summer job information is available.
Full-time job search assistance is provided through a number of programs and services. Full-time jobs are posted on the Career Services web site. Individual appointments may be scheduled with staff to discuss career concerns and job search strategies, as well as preparation of vita/resume and related documents. Career Days are held throughout the year to assist students with their post-graduation plans. UNCG’s campus-wide Fall Career Day and Spring Career Expo focus on business, industry, and government opportunities for all students. A consortium Career Fair for Ph.D. and Master’s students interested in careers outside academia is scheduled in the fall. Nursing Career Day and Education Career Day are held for targeted programs. A Reference File Service is available to students seeking employment in the field of education (K-12 or higher education) or graduate school admission.

Cashier’s and Student Accounts Office
151 Mossman Building
(336)334-5831
fsv.uncg.edu/cashiers
Hours: M-F, 8 am-5 pm

The Cashier’s and Student Accounts Office is comprised of four functional areas: Cashiers, Student Accounts Receivable, Perkins Loans and CASAO Accounting and is responsible for all tuition and fee payments and the distribution of financial aid checks. Students should contact the Cashier’s and Student Accounts Office with any questions pertaining to tuition and fees or payment deadlines during registration periods.

Disability Services, Office of
208 Elliott University Center
(336) 334-5440 (voice and TTY)
www.uncg.edu/ods
Hours: M-F, 8 am-5 pm, appointments encouraged

The Office of Disability Services advises and assists in securing academic support services requested by qualified disabled students. Specific services are provided on an individual basis and are aimed toward enabling students with disabilities to compete on an equal basis in the classroom with their peers. Currently, more than 450 students receive some type of academic assistance. Students must register with the office and provide necessary documentation prior to receiving services.

Enrolled Graduate Student Services
241 Mossman Building
(336) 334-5596
www.uncg.edu/grs

The Enrolled Student Services Department in The Graduate School provides the following services:
• Removal of provisional admission.
• Transfer credit approval.
• Independent study approval.
• Plan of study evaluation and approval.
• Time extension approval.
• Graduation clearances, including ordering of diplomas and overseeing commencement activities.
• Policy interpretation.

Financial Aid Office
723 Kenilworth Street
(336) 334-5702
fia.dept.uncg.edu

Through its Financial Aid Office, UNCG administers an extensive financial aid program. Available aid includes scholarships, grants, and loans. The Financial Aid Office assists students with all phases of financial aid application, processing, and awarding.

Information Technology Services
(336) 256-TECH
its.uncg.edu

ITS, the University’s central technology organization, provides computing services to students, including technical support through 6-TECH (256-8324 or 6-TECH@uncg.edu), workshops, consultation, and on-line help resources. Every registered UNCG student may activate e-mail and network accounts for using UNCG’s computing resources. Through the Student Laptop Initiative, students may purchase University-supported laptops at reduced prices. See its.uncg.edu/laptop for details.

PC and Macintosh computers and printers are available in computer labs across campus. Locations and hours are listed its.uncg.edu/Labs/Hours/.

Student Consulting
Hours: Jackson Library operating hours

The SuperLab in Jackson Library offers general walk-in computing assistance to students.

International Programs Center
127 McIver Street
(336) 334-5404
www.uncg.edu/ipg
Hours: M-F, 8 am-5 pm

A student in good standing in a UNCG graduate degree program who has satisfied any conditions of admission may be eligible to participate in a study abroad program. Students should check with their departments for additional options.

UNCG Exchange Programs

Through various exchange agreements, a UNCG student may trade places with a student in another country. Under these arrangements, students study abroad for approximately the cost of study in residence at
University Services

UNCG. Opportunities for exchange are currently available in Australia, Austria, Canada, Estonia, Finland, France, Germany, Ireland, Israel, Japan, Korea, Mexico, New Zealand, Poland, Spain, Sweden, Turkey, and the United Kingdom.

International Student Exchange Program
As a member of ISEP (a Washington-based exchange organization), UNCG is able to place students in any one of 100 cooperating universities in 35 countries overseas. The cost of such study is about the same as study in residence at UNCG.

Summer Abroad Programs
UNCG professors regularly lead student groups abroad. Over the past few years, groups have gone to such countries as Greece, Mexico, Spain, and the United Kingdom. These programs generally involve five or six weeks of supervised travel and study, followed by three weeks of independent travel.

The UNCG Study Abroad Committee and the International Programs Center
All study abroad activities are carefully supervised by the UNCG Study Abroad Committee comprised of faculty members and administrators with considerable experience in international education. The Committee works to expand study abroad options and make them available at a reasonable cost. The Committee may recommend that credit earned abroad be transferred to the student’s UNCG graduate degree program, subject to transfer regulations published in The Graduate School Bulletin. Students should consult their advisor, the International Programs Center, and The Graduate School well in advance of travel plans.

UNC-Exchange Program
UNCG serves as the central administrative office for The University of North Carolina Exchange Program (UNC-EP). The UNC-EP was established by the Board of Governors of The University of North Carolina in 1997 as the official system-wide student exchange program. It offers students at any of UNC’s 16 campuses the opportunity to participate in affordable, high-quality semester or year-long study abroad programs.

International Student and Scholar Services
The International Student and Scholar Services provide information, assistance, guidance, and support to all international students at UNCG.

Parking Operations and Campus Access Management
Walker Avenue Parking Deck
(336) 334-5681
parking.uncg.edu
Hours: M-F, 7:30 am-5 pm

University parking permits may be obtained online at parking.uncg.edu or from the Parking Services Office. Parking permits are valid for the academic year. Permits purchased later in the year are prorated.

Spartan Mail Center (Campus Mail)
Dining Hall Atrium
(336) 334-5620
spartanmail.uncg.edu
Hours: M-F, 8:30 am-4 pm
The Spartan Mail Center distributes and collects campus mail and can handle all types of U.S. Postal Service mail including Express, Certified, and Insured as well as UPS services. Stamps are available at vending machines outside the Spartan Mail Center. Drop boxes are located in the Atrium. Campus mail boxes are assigned to residential students.

Statistical Consulting Center
209 Petty Building
(336) 334-5836
www.uncg.edu/mat/sta/consulting.html
Hours: By appointment
The Statistical Consulting Center (SCC) is a campus-wide service center available to faculty, staff, and students seeking statistical advice during any stage of research including planning, proposal writing, design, or analysis. The staff of the SCC consists of Ph.D. statisticians.

Student Health Services
Gove Student Health Center
(336) 334-5340
shs.dept.uncg.edu
The Medical Service
Appointments: (336) 334-5334
Pharmacy: (336) 334-3348
Hours: M-F, 8 am-8 pm; Sat, 9 am-12 noon; Sun, 5-8 pm
Health care providers, including physicians, physician assistants, nurse practitioners, and nurses are available during regular clinic hours to provide students with primary medical care, including gynecological services and sports medicine, by appointment. For sudden illness, injuries, or unexpected problems, students may come in without an appointment. Clinical support services include laboratory, x-ray, and pharmacy services.

Students enrolled for nine or more hours pay a Student Health Fee each semester. This fee pays for medical office visits and Health Education and Wellness programs and services. Additional charges are assessed for some support services, such as laboratory procedures, pharmaceutical items, and x-rays. Students enrolled for less than nine hours may elect to pay the health fee or may choose to be seen on a “fee-for-service” basis.
Students referred for hospitalization, specialty care, and diagnostic services not offered through the Student Health Services are responsible for the cost of these services. Students enrolled for six or more credit hours will be required to show proof of health insurance. Students who do not have health insurance coverage will be provided a cost effective insurance policy, designed especially for a student population. The cost of the policy will be added to the student’s UNCG account. Details on the coverage and information on the costs can be found at studenthealth.uncg.edu/insurance.

The Counseling and Testing Center
Gove Building
107 Gray Dr.
(336) 334-5340
Hours: M-F, 8 a.m.-6 p.m.
The Counseling and Testing Center is staffed by psychologists, counselors, and a psychiatrist and offers brief individual, group, and couples’ counseling and psychotherapy for students, crisis intervention, and referrals to community agencies. The Center also administers standardized educational testing.

The Wellness Center
Gove Building
107 Gray Dr.
(336) 334-3190
The Wellness Center offers massage therapy, acupuncture, smoking cessation classes, and nutrition counseling, including metabolic testing, and provides program and resources designed to increase the University community’s knowledge of wellness issues. Students are invited to use the Wellness Center resources for courses, papers, and presentations. Staff can assist students in organizing and providing educational programs for groups or classes.

UNCG FirstCard ID Center
121 Elliott University Center
(336) 334-5651
firstcard.uncg.edu
Hours: M-F, 8 am-5 pm
The UNCG FirstCard Plus is the official identification card for all students, faculty, and staff and is required at many campus facilities and services such as the Library, Student Health Center, and Campus Recreation Center.
The UNCG FirstCard Plus offers the E-Cash feature. Students may apply money to the E-Cash feature at the FirstCard Center or Cash-to-Chip machines around campus. E-Cash can then be used at campus dining locations, UNCG Bookstore, Campus Recreation Center, Student Health Center, Parking Services, Jackson Library, laundry, and Pepsi machines.

Lost, stolen, or damaged IDs will be replaced for a $15 fee.

University Libraries
(336) 334-5304
library.uncg.edu
Hours: Vary by semester; 24 hours per day during the week during the academic year.
The University Libraries, including Jackson Library and the Music Library, are collectively the leading public research library in the Piedmont Triad of North Carolina.

With a total collection of more than 2.47 million books, federal and state documents and microforms, the University Libraries subscribe to approximately 3,700 printed newspapers, periodicals, and other serials, more than 58,000 electronic journals in full-text, and more than 308,000 electronic books. Access to more than 343 on-line databases and the Internet vastly expands the information resources available to students and faculty. Most of those databases are also available off-campus via the Internet with a valid UNCG ID. Journal Finder, a software system developed by Jackson Library, allows easy, convenient access to journal articles in the University Libraries’s print and electronic collections, and the ability to order other articles from document delivery suppliers or interlibrary loan, all from one desktop interface.

Jackson Library has reading rooms, carrels, and both individual and collaborative learning spaces. The Jackson Instructional Lab is a computer lab frequently used for instruction; and Computing and Information Systems’ SuperLab is an open computer lab with more than 140 PC’s and Macs available for use by UNCG students, faculty, and staff. Both labs are located on the first floor in the Tower area.

Staff members are always available to provide information and assistance. Specialized services include orientation tours and instruction in how to use library and electronic information resources. Information about most library materials may be accessed through the Libraries’ web pages.

The Martha Blakeney Hodges Special Collections and University Archives Department includes the Woman’s Collection; the world’s largest collection of cello music materials; and the Randall Jarrell, Lois Lenski, and George Herbert collections. Subjects include collections dealing with the history of physical education and dance, American detective fiction by and about women, book arts, juvenile literature, and girls books in series. The Special Collections Department has a notable collection of rare books in several fields, including author collections of the important editions of the works of Emily Dickinson, T.E. Lawrence, and Charles Dickens.
The University Archives preserves and digitizes manuscript, printed, artifactual, and iconographic materials pertaining to the history of The University of North Carolina at Greensboro. The Betty Carter Women Veterans Historical Project, located within the University Archives, preserves the record and encourages the study of women working in and with the military of the United States. It documents the experience of women veterans with particular emphasis on World War II.

Jackson Library is a selective depository for U.S. government documents and for North Carolina microfiche documents. It also houses small spoken-word and leisure listening music collections. The Music Library is located in the School of Music Building. Its holdings exceed 73,000 items.

The Libraries are able to borrow material from other libraries for faculty and graduate research by means of interlibrary loan and document delivery services. Through a cooperative lending agreement with the other 15 campuses of The University of North Carolina, faculty members and graduate students may borrow books directly from the libraries of those institutions. See the Circulation Department’s web page “Borrowing Library Materials” (library.uncg.edu/depts/circ/checkout.asp).

All students cross-registered in the Greater Greensboro Consortium have direct borrowing access to the libraries in those institutions. Those not cross-registered may borrow directly from the other libraries for specific projects by application through the library at their home institution.

University Registrar’s Office
180 Mossman Building
(336) 334-5946
www.uncg.edu/reg
Hours: M-F, 8 am-5 pm

The University Registrar’s Office (URO) is responsible for the registration of all students in academic credit courses. Registration is web-based on UNCGenie, the University’s automated student information system. All aspects of this process, including the preparation of schedule material, demographic updates, registration scheduling and processing, are handled by this office. The URO is also responsible for grade processing at the close of each semester and maintains the official academic records for all current and former students.

The URO provides the following services as well:
- **Certification/Verification** of student enrollment to various agencies and institutions upon the student’s written request.
- **Change of Address** in the office or online at UNCGenie.
- **Change of Name** requires a photo ID and legal documentation. See www.uncg.edu/reg/Services/PersonalInfoChange.html
- **Consortium (Greater Greensboro) registration forms**
- **Transcript of Academic Record** to a student upon written request and via UNCGenie. Transcript pickup and mailing services are available. There is a fee for the issuance of a transcript.
- **University Directory Information.** Federal law permits the University to release the following types of information to the public without the student’s consent: Names; mailing, permanent and e-mail addresses; telephone number; date of birth; dates of attendance; class enrollment status; major; degree(s); honors and awards. Parents’ information is not made available.
- **Suppression of Student Directory Information.** Under the 1974 Family Education Rights and Privacy Act, the student has the right to request in writing that the disclosure of this information be withheld from persons outside the University. Please note that this information can be suppressed from the public, NOT from University officials. To have address and phone number information suppressed from the printed University Directory, a student must file a form with the URO by Sept. 1. Requests to suppress information from the web directory can be made at any time. Requests must be filed while the student is still enrolled at the University. Once a student’s information is suppressed, it will not be released to any outside agency nor printed in the Commencement Program upon the student’s graduation without the student’s written request. The suppression of information remains in effect until revoked in writing by the student, even after the student is no longer enrolled.
- **Release of Grades and GPA Information.** Grades and grade point averages are never released to agencies or persons outside the University without the written consent of the student. Grades and GPA information are not given out by telephone.

Campus Opportunities

**Arts and Entertainment**

**Academic Programs in the Arts**
The School of Music and the departments of Art, Broadcasting and Cinema, Dance, Interior Architecture, and Theatre, as well as the English Department’s M.F.A. Creative Writing Program, provide opportunities for students to enjoy performances, exhibits, and readings in the visual, performing, literary, and creative arts. Schedules and ticket information are available through each
University Services

department or program’s web site.

Elliott University Center
(336) 334-5510
euc.uncg.edu

The EUC houses a 480 seat auditorium, a multicultural resource center, a meditation center, meeting rooms with state-of-the-art technology, open lounge areas, and meeting and office spaces for student organizations.

EUC Art Gallery

The gallery highlights traveling visual artists’ exhibits as well as faculty and student exhibits.

Game Room

Hours: M-F, 12 noon-10 pm; Sat-Sun, noon-6 pm
Located on the ground floor, the game room has competition-sized billiard tables, pinball and video machines, air hockey, table tennis, and board games, as well as a big screen TV. The game room can be reserved for special events and groups upon request.

Information Desk

Located on the first floor near the grand stairwell, the Info Desk is staffed by friendly students willing to assist with general information including directions to a building on campus, off-campus apartment and roommate listings, maps of the city of Greensboro, local bus schedules, and other reference resources. The Info Desk can also help with information concerning student addresses and telephone numbers, lost and found matters, and calendar information.

Reservations Office

Room 221
(336) 334-5378
reservations.uncg.edu
Hours: M-F, 8 am-5 pm
The Reservations Office is responsible for coordination of meeting and lounge space in the EUC. No rental fee is charged to affiliated student organizations or university departments for use of space. Fees are assessed for special services provided by EUC staff, for special room arrangements other than standard set-up, for catering and for equipment (see EUC Policy Manual). Non-University-affiliated groups wishing to rent facilities will be handled on a case-by-case basis and will be referred to the Office of Continual Learning for sponsorship. Rental and other fees will be charged. Profit-making ventures are excluded by law from the University campus (see Merchandising Policy).

Retail Outlets

The UNCG Bookstore and the EUC Food Court are located in the Student Commons area. Wachovia, Bank of American, and Cash Points (State Employees Credit Union) ATMs are also located near the Info Desk.

University Offices

The Office of Campus Activities and Programs, the Career Services Center, Disability Services, the Office of Orientation, the Office of Multicultural Affairs, the Office of Leadership and Service Learning, the Office for Adult Students, the UNCG FirstCard Center, and the University Box Office and Arts Information Center are housed within the EUC.

Other Services and Spaces

- Wireless internet access
- A television lounge in Room 50
- Lockers for commuter students
- An emergency car care kit

Student Organizations

Graduate Student Association
www.uncg.edu/student.groups/gsa/
The GSA serves as the collective voice and power of the graduate student body in interactions with University administration and faculty. Through the GSA, graduate students are given opportunity to sit on campus committees affecting school policy and student affairs. Every graduate student at UNCG is a member of the GSA and is invited to attend meetings and become active. GSA meetings are held three to four times each semester.

Music Performance Organizations

All music organizations are open to all University students by audition: Chamber Singers, Contemporary Chamber Players, University Chorale, University Band, Symphonic Band, Men’s Glee Club, Women’s Glee Club, Women’s Choir, University Symphony Orchestra, University Wind Ensemble, World Music Ensemble, Percussion Ensemble, Jazz Ensembles, Baroque Ensemble, and Pep Band. Chamber ensembles for instrumentalists are organized each semester.

UNCG Affiliated Student Organizations
web.uncg.edu/stn/student.groups/
The above web pages lists information regarding the myriad of student organizations available, which fall in the following categories: Community service and philanthropy, governance, honorary societies, media, multicultural, national societies and professional groups, departmental, performance and fine arts, political/activist/environmental, religious, special interests, and sport clubs.

University Box Office

129 Elliott University Center
(336) 334-4TIX (4849)
boxoffice.uncg.edu/
Hours: M-F, 12 noon-5 pm
The University Box Office sells tickets to arts-oriented and student organization events on campus. There are
two locations of the University Box Office, in the Elliott University Center (on the first floor near the Library Connector) and in the School of Music. For most events, the University Box Office also sells tickets in the specific venue on the evening of the event. The Box Office will open one hour before show time on these evenings.

Tickets may also be purchased by phone, fax, mail, and online for most events.

**University Concert & Lecture Series**
http://ucls.uncg.edu/

Each year, the University Concert & Lecture Series (UCLS) presents an assortment of programs including musical concerts, drama, and dance by touring performing artists. A committee of students, faculty, and staff members serve as an advisory board to the Office of Campus Activities and Programs for the selection of each performance.

As season subscribers, students enjoy the innovative variety and excitement that UCLS is best known. UNCG students can purchase season tickets for as little as $32 or $7 for individual performances. Students may purchase two discounted tickets, per performance, with their UNCG Student ID and invite a family member or friend to share the excitement of a live show.

Season tickets are on sale beginning in July through the University Box Office in Elliott University Center. Tickets for individual performances are available beginning in August.

**Weatherspoon Art Museum**
Anne and Benjamin Cone Building (corner of Spring Garden & Tate Streets)
(336) 334-5770
weatherspoon.uncg.edu

Hours: T,W,F, 10 am-5 pm; Th, 10 am-9 pm; Sat-Sun, 1-5 pm

The Weatherspoon Art Museum, UNCG’s contemporary art museum, is nationally known for its outstanding collections and dynamic exhibition program. Founded in 1941, the Weatherspoon has focused on building a permanent collection of modern and contemporary American art that is considered one of the best in the Southeast. The collection of nearly 5,500 works of art represents all major art movements from the beginning of the 20th century to the present. Willem de Kooning, Robert Rauschenberg, Louise Bourgeois, Alexander Calder, Cindy Sherman, Louise Nevelson, and Andy Warhol are just a few of the major artists represented. Other highlights include the Dillard Collection of Art on Paper; the Claribel and Etta Cone Collection, which includes prints and bronzes by Henri Matisse and other European and American modernists; and the Lenoir C. Wright Collection of Japanese Prints. The Weatherspoon earned re-accreditation from the American Association of Museums in 2005.

The Weatherspoon’s calendar of more than 20 exhibitions per year offers opportunities to students, faculty, and the public to see and learn directly from significant examples of modern and contemporary art. Featured are the work of outstanding artists of national and international reputation; thematic group exhibitions on timely aesthetic, cultural, and social issues; participants in the Falk Visiting Artists Program (co-sponsored with the Department of Art); small focused exhibitions of emerging artists; selections from the permanent collection; and M.F.A. thesis shows and faculty biennials. The Weatherspoon offers regular tours and educational programs that include lectures and gallery talks by visiting artists, scholars, and critics; panel discussions; film and video series; and other after-hours events.

Admission is free and open to the public. The museum is wheelchair accessible. UNCG students can participate in the museum Docent program, the Gallery Greeters program, and other volunteer opportunities. With the UNCG ID card, students, faculty, and staff receive a 10% discount on most items in the Museum’s gift shop. Student membership is $25 per year and provides benefits that include discounts on Museum-sponsored ticketed events, exhibition announcements, a subscription to the quarterly newsletter ARTicles, and invitations to special members’ events.

**Sports and Recreation**

**Campus Recreation, Department of**
412 Student Recreation Center
Main Desk/Court Reservations: (336) 334-4030
Office: (336) 334-5924
24 hour Information Line: (336) 334-3060
campusrec.uncg.edu

The Department of Campus Recreation provides a variety of recreational and educational services as listed below, as well as a golf practice area, tennis courts, lighted fields, and Rosenthal Pool located in the HHP Building.

**Student Recreation Center**
The 86,900-square-foot Student Recreation Center includes a 38-foot indoor climbing wall (The Edge), a three-court gymnasium for basketball, volleyball, soccer, and badminton, a jogging track, racquetball courts, and two weight rooms with free weights and selectorized and plate-loaded strength training equipment. Cardiovascular exercise areas include bikes, elliptical trainers, treadmills, and rowers. Televisions are available on the second floor for
workout entertainment. Saunas are located in each locker room. Use of the Recreation Center and pool are free for currently enrolled students. A spouse or lifemate of a current student or member may purchase a membership.

**Family Weekends**
Current students and members are welcome to bring their spouse/lifemate and children during Family Weekend hours, Friday at 5 pm through closing Sunday.

**Campus Recreation Courts and Irwin Belk Recreation Track**
Two outdoor basketball and volleyball courts, a picnic pavilion, and a trail are located north of the Recreation Center. Facilities are free to UNCG students and members. Basketball and volleyballs may be checked out with a current ID at the Recreation Center.

**Fitness**
Fitness classes are scheduled daily in the fitness and spin studios. The Fitness program offers the beginner and new-exerciser fitness orientations and proper set up and exercise technique. For all exercisers the Fitness program offers fitness assessments. Noncredit specialty classes, such as Power Yoga and Pilates, are available each semester for a nominal fee. For a minimal fee, individuals can sign up at the reception desk on the fourth floor of the Recreation Center for one-on-one workout instruction for each individual’s specific goals. Additional programs such as weight management, instructor training, and educational workshops are ongoing.

**Piney Lake**
(336) 334-4273
Piney Lake, 15 minutes southeast of campus, offers currently enrolled students, members, and their families free seasonal recreation from April through October. Students may swim, kayak, canoe, fish, picnic and play, volleyball, Frisbee, horseshoes and disc golf on the new 18-hole course.

Summer memberships are available for students who were enrolled in the previous spring semester. The Hilltop Lodge, Lakeside Lodge, and picnic area are available by reservation year-round.

**Club Sports**
(336) 334-5924
Club Sports are affiliated student organizations serving students’ interests in competitive, recreational/social, and instructional sporting activities. Currently, fourteen active clubs are offered—badminton, equestrian, football, ice hockey, men’s lacrosse, women’s soccer, tennis, volleyball, and men’s and women’s rugby, ultimate Frisbee, and swimming. Students are welcome to start their own club.

**The Edge (Indoor Climbing Wall)**
(336) 334-4708
The Edge, a 38-foot indoor climbing wall located in the north end of the Recreation Center, offers free rock climbing and bouldering to students and members with challenges for beginning and advanced climbers. Climbing workshops, belay certifications, shoe rental, and group climbing events are available.

**Intramural Sports**
(336) 334-5924
Intramural Sports leagues are offered for men and women in the following traditional sports: flag football, outdoor soccer, volleyball, softball, indoor soccer, and basketball. Co-recreational leagues are also offered. Additionally, Intramural Sports hosts the Jack Cooke Golf Classic and Intramural Flag Football and Basketball All Star Games.

**Outdoor Adventures**
(336) 334-4033
The Outdoor Adventures Program on the first floor of the Recreation Center offers outdoor trips and activities and an outdoor equipment rental center. Student-led trips geared toward beginners and the experienced include canoeing, whitewater and sea kayaking, hiking, rafting, caving, skiing, and rock climbing. The rental center provides outdoor maps and basic backpacking and camping equipment for personal outdoor trips.

**Team QUEST (Quality University Experiences for Students)**
(336) 334-4855
e-mail: teamquest@uncg.edu
Team QUEST is an experientially based leadership and team building program that facilitates group development. Programs are designed to meet the client’s specific needs. Activities allow a variety of ages and physical abilities to participate and include low and high challenge course elements, team orienteering, classroom workshops, and portable initiatives.

**Employment Opportunities**
The Department of Campus Recreation hires approximately 160 undergraduates and six graduate students to assist in the operation of the programs and facilities. The Department offers one or two graduate assistantships in each of the program areas.

**Spartan Athletics**
Athletics Ticket Office: (336) 334-3250
uncgspartans.com
The University fields eight men’s and eight women’s teams affiliated with the NCAA Division I and the Southern Conference. Men’s teams are baseball, basketball, cross country and track, golf, soccer, tennis, and wrestling. Women’s teams are basketball, cross
country and track, golf, soccer, softball, tennis, and volleyball. The University also supports a pep band, a dance team, and a cheer-leading squad.

Admission is free for UNCG students with a valid UNCG First Card ID to all exhibition and regular-season home athletic events. Certain games in the Greensboro Coliseum, pre-season, post-season, and special events are not included. Schedules are posted on the Spartans’ web page.

University Policies

All students at UNCG, graduate and undergraduate, are responsible for observing all federal, state, and local laws as well as the regulations of The University. The University has developed policies relating to certain kinds of behavior and circumstances, some of which are of particular interest or significance to graduate students. Judicial policies related to student conduct and full statements of the following policies may be found at dean of students.uncg.edu.

1. Academic Integrity Policy
2. Student Code of Conduct
3. Drug Policy and Operational Procedures
4. Copyright Compliance Policy
5. Discriminatory Conduct Policy
6. Sexual Harassment Policy
7. Traffic Procedures (including motor vehicle registration and parking regulations)
8. Student Records (academic and nonacademic)

Conflict of Interest: Student-Instructor Relationship

It is essential to the promotion of high academic standards and maintenance of sound professional practice that the student-instructor relationship be free of real or apparent conflicts of interest based on familiar relationships. To this end, a member of the faculty shall not serve in any capacity that will involve evaluating the academic performance of a graduate student when there exists between them a relationship in the first or second degree of affinity or consanguinity or when they otherwise are so closely identified with one another as to suggest a possible conflict of interest.
In North Carolina, all the public educational institutions that grant baccalaureate degrees are part of the University of North Carolina. The University of North Carolina at Greensboro is one of the 16 constituent institutions of the multi-campus state university.

The University of North Carolina, chartered by the N.C. General Assembly in 1789, was the first public university in the United States to open its doors and the only one to graduate students in the eighteenth century. The first class was admitted in Chapel Hill in 1795. For the next 136 years, the only campus of the University of North Carolina was at Chapel Hill.

In 1877, the N.C. General Assembly began sponsoring additional institutions of higher education. Five were historically black institutions, and another was founded to educate American Indians. Several were created to prepare teachers for the public school. Others had a technological emphasis. One is a training school for performing artists.

In 1931, the N.C. General Assembly redefined the University of North Carolina to include three state-supported institutions—the campus at Chapel Hill (now the University of North Carolina at Chapel Hill), North Carolina State College (now North Carolina State University at Raleigh), and Woman's College (now the University of North Carolina at Greensboro). The new multi-campus University operated with one board of trustees and one president. By 1969, three additional campuses had joined the University through legislative action: the University of North Carolina at Charlotte, the University of North Carolina at Asheville, and the University of North Carolina at Wilmington.

In 1971, the General Assembly passed legislation bringing into the University of North Carolina the state's 10 remaining public senior institutions, each of which had until then been legally separate: Appalachian State University, East Carolina University, Elizabeth City State University, Fayetteville State University, North Carolina Agricultural and Technical State University, North Carolina Central University, the North Carolina School of the Arts, Pembroke State University, Western Carolina University, and Winston-Salem State University. This action created the current 16-campus University. (In 1985, the North Carolina School of Science and Mathematics, a residential high school for gifted students, was declared an affiliated school of the University; and in 1996, Pembroke State University was renamed the University of North Carolina at Pembroke through Legislative action.)

The UNC Board of Governors is the policy-making body legally charged with “the general determination, control, supervision, management, and governance of all affairs of the constituent institutions.” It elects the president, who administers the University. The 32 voting members of the Board of Governors are elected by the General Assembly for four-year terms. Former board chairmen and board members who are former governors of North Carolina may continue to serve for limited periods as non-voting members emeriti. The president of the UNC Association of Student Governments, or that student's designee, is also a non-voting member.

Each of the 16 constituent institutions is headed by a chancellor, who is chosen by the Board of Governors on the president’s nomination and is responsible to the president. Each institution has a board of trustees, consisting of eight members elected by the Board of Governors, four appointed by the governor, and the president of the student body who serves ex-officio. (The NC School of the Arts has two additional ex-officio members.) Each board of trustees holds extensive powers over academic and other operations of its institution on delegation from the Board of Governors.

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In 1919, the school was renamed NORTH CAROLINA COLLEGE FOR WOMEN, as it continued to educate women in the liberal arts with particular emphasis in the fields of teaching, home economics, music, and physical education. The first graduate degree, the Master of Arts, was awarded in 1922.

In October 1971 the General Assembly adopted legislation which combined all 16 of the state-supported institutions of higher education into a single University of North Carolina, governed by a board of governors and administered by a president. Each constituent institution has a separate board of trustees and is administered by a chancellor.

Patricia A. Sullivan became the ninth chancellor and the first woman chancellor of the University.

UNC-G’s fall 2007 enrollment was 17,157 —23% of whom were graduate students—with 1,001 full- and part-time instructional faculty. UNCG offers over 100 undergraduate areas of study, master’s degrees in a wide variety of concentrations, and 25 doctoral programs. The campus on Spring Garden Street, its original location, has grown to 204 acres and 96 buildings.

The Mission of The University of North Carolina at Greensboro

(Approved by The University of North Carolina Board of Governors, November 14, 2003)

The University of North Carolina at Greensboro is a diverse, student-centered research university, linking the Triad and North Carolina to the world through learning, discovery, and service. As a doctorate-granting institution, it is committed to teaching based in scholarship and advancing knowledge through research. The College of Arts and Sciences and six professional schools offer challenging graduate and undergraduate programs in which students are mentored by outstanding teachers, including nationally recognized researchers and artists.

Affirming the liberal arts as the foundation for lifelong learning, the university provides exemplary learning environments on campus and through distance education so that students can acquire knowledge, develop intellectual skills, and become more thoughtful and responsible members of a global society. Co-curricular, residential and other programs contribute to students’ social, aesthetic, and ethical development.

The University of North Carolina at Greensboro is a community in which people of any racial or ethnic identity, age, or background can achieve an informed appreciation of their own and different cultures. It is a community of actively engaged students, faculty, staff, and alumni founded on open dialogue, shared responsibility, and respect for the distinct contributions of each member.

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Term Expires 2009
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Steve Layson, Ph.D., Associate Professor, Economics (Chair, Curriculum Subcommittee)
Barbara Levin, Ph.D., Professor, Curriculum and Instruction

Term Expires 2010
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Kristen Pond
This catalog contains information about post-baccalaureate studies at UNCG, including descriptions of degree and certificate programs, admissions procedures, academic regulations, and course offerings. All students should read it carefully and completely and keep the catalog issue effective during their first semester. Prospective students are also urged to read it carefully before contacting University offices. Questions about most sections in this catalog should be directed to either The Graduate School, or where specific to the program of study, to the appropriate academic department. Other correspondence may be directed as follows.

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## Resources for Graduate Students

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*Area code 336
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APPENDIX A

Academic Integrity Policy

Responsibility for academic integrity lies with individual students and faculty members of the UNCG community. Students are responsible for becoming familiar with the Academic Integrity Policy in all its aspects and for indicating their knowledge and acceptance of the Policy by signing the Academic Integrity pledge for all major work submitted. Specific information on the Academic Integrity Policy and obligations of faculty and students may be found on the UNCG web site at academicintegrity.uncg.edu or by calling the Office of the Dean of Students at (336) 334-5514.

APPENDIX B

Guidelines for Good Practice in Graduate Education

It is essential that graduate students:

- Conduct themselves in a mature, professional, and civil manner in all interactions with faculty and staff.
- Recognize that the faculty advisor provides the intellectual and instructional environment in which the student conducts research, and may, through access to teaching and research funds, also provide the student with financial support.
- Recognize that faculty have broad discretion to allocate their own time and other resources in ways which are academically productive.
- Recognize that the faculty advisor is responsible for monitoring the accuracy, validity, and integrity of the student’s research. Careful, well-conceived research reflects favorably on the student, the faculty advisor, and the University.
- Exercise the highest integrity in taking examinations and in collecting, analyzing, and presenting research data.
- Acknowledge the contributions of the faculty advisor and other members of the research team to the student’s work in all publications and conference presentations.
- Maintain the confidentiality of the faculty advisor’s professional activities and research prior to presentation or publication, in accordance with existing practices and policies of the discipline.
- Take primary responsibility to inform themselves of regulations and policies governing their graduate studies.

It is also imperative that faculty:

- Interact with students in a professional and civil manner in accordance with University policies governing nondiscrimination and sexual harassment.
- Impartially evaluate student performance regardless of religion, race, gender, sexual orientation, nationality, or other criteria that are not germane to academic evaluation.
- Serve on graduate student committees without regard to the race, gender, sexual orientation, or national origin of the graduate student candidate.
- Prevent personal rivalries with colleagues from interfering with their duties as graduate advisors, committee members, or colleagues.
- Excuse themselves from serving on graduate committees when there is an amorous, familial, or other relationship between the faculty member and the student that could result in a conflict of interest.
- Acknowledge student contributions to research presented at conferences, in professional publications, or in applications for copyrights and patents.
- Not impede a graduate student’s progress toward the degree in order to benefit from the student’s proficiency as a teaching or research assistant.
- Create in the classroom, lab, or studio supervisory relations with students that stimulate and encourage students to learn creatively and independently.
- Have a clear understanding with graduate students about their specific research responsibilities, including time lines for completion of research and the thesis or dissertation.
- Provide verbal or written comments and evaluation of students’ work in a timely manner.
- Discuss laboratory, studio, or departmental authorship policy with graduate students in advance of entering into collaborative projects.
- Refrain from requesting students to do personal work (mowing lawns, baby-sitting, typing papers, etc.) without appropriate compensation.
- Familiarize themselves with policies that affect their graduate students.

Graduate education is structured around the transmission of knowledge at the highest level. In many cases, graduate students depend on faculty advisors to assist them in identifying and gaining access to financial and/or intellectual resources which support their graduate programs.

In some academic units, the student’s specific advisor may change during the course of the student’s program. The role of advising may also change and become a mentoring relationship. The reward of finding a faculty mentor implies that the student has achieved a level of excellence and sophistication in the field, or exhibits sufficient promise to merit the more intensive interest, instruction, and counsel of faculty.

To this end, it is important that graduate students:

- Devote an appropriate amount of time and energy toward achieving academic excellence and earning the advanced degree.
- Be aware of time constraints and other demands imposed on faculty members and program staff.
- Take the initiative in asking questions that promote understanding of the academic subjects and advance the field.
- Communicate regularly with faculty advisors, especially in matters related to research and progress within the graduate programs.

Faculty advisors, on the other hand, should:

- Provide clear maps of the requirements each student must meet, including course work, languages, research tools, examinations, and thesis or dissertation, and delineating the amount of time expected to complete each step.
- Evaluate student progress and performance in regular and informative ways consistent with the practice of the field.
- Help students develop artistic, interpretive, writing, verbal, and quantitative skills, when appropriate, in accordance with the expectations of the discipline.
- Assist graduate students to develop grant-writing skills, where appropriate.
- Take reasonable measures to ensure that each graduate student initiates thesis or dissertation research in a timely fashion.
- When appropriate, encourage graduate students to participate in professional meetings or perform or display their work in public settings.
- Stimulate in each graduate student an appreciation of teaching.
- Create an ethos of collegiality so that learning takes place within a community of scholars.
- Prepare students to be competitive for employment that includes portraying a realistic view of the field and the market at any given time and making use of professional contacts for the benefit of their students, as appropriate.

In academic units, faculty advisors support the academic promise of graduate students in their program. In some cases, academic advisors are assigned to entering graduate students to assist them in academic advising and other matters. In other cases, students select faculty advisors in accordance with disciplinary interest or research expertise. Advising is manifold in its scope and breadth and may be accomplished in many ways.

A student’s academic performance and a faculty member’s scholarly interests may coincide during the course of instruction and research. As the faculty-graduate student relationship matures and intensifies, direct collaborations may evolve which entail the sharing of authorship or rights to intellectual property developed in research or other creative or artistic activity. Such collaborations are encouraged and are a desired outcome of the mentoring process.

**APPENDIX C**

**UNCG’s Vision for Teaching and Learning**

UNCG embraces student learning as its highest priority and provides exemplary learning environments. The University establishes a diverse community of learning in which individual differences are valued and interactions are encouraged in an atmosphere of mutual respect.

The faculty are committed to introducing students to the most important knowledge and research in their disciplines, fostering intellectual depth and breadth, and opening students to new possibilities for understanding themselves and the world. The faculty employ the growing body of knowledge about learning and work continually to evaluate and improve their teaching methods and materials. UNCG views learning as a shared responsibility, and accordingly,

- maintains clear, high and consistent learning goals,
- provides a variety of opportunities which foster intellectual growth,
- empowers individuals to take responsibility for their own learning,
- recognizes and supports diverse learning styles and levels of development,
- incorporates appropriate informational and instructional technologies,
- encourages the integration of knowledge across disciplines, and
- utilizes assessment, evaluation and feedback to improve teaching and learning.

UNCG expects all students to communicate clearly and to make effective use of technology appropriate to their studies. Students are encouraged to be actively engaged in their education. UNCG graduates should be ready to continue as lifelong learners and to face the challenges that will confront them as responsible citizens of the state, the nation and the world.

**APPENDIX D**

**Guidelines for Graduate Distance Learning Courses**

In this era of rapid technological advances and the changing needs of traditional and nontraditional students, we recognize the need (and desirability) of taking courses and programs to our constituency more often and in different forms. Many distance learning courses and programs will be delivered in traditional fashion, but at distant sites; other courses will rely on Web and video technologies for most or all of their delivery. Further, it is impossible to know what additional, desirable technologies will emerge in the future. Regardless of how learning takes place, the quality of courses must be assured to students. In this light, the following assurances are warranted:

**Departmental/Unit Responsibility:**

1. Academic departments will be responsible for maintaining the same high standards for all courses, regardless of the mode of delivery.
2. Academic departments/units are responsible for assuring that distance learning delivery of graduate courses, including electronically delivered instruction, is comparable in quality and content to the corresponding traditional campus instruction.
3. Essential student services and course-related materials (books, journals, computer facilities, laboratories and other resource material) are accessible at all sites.
4. Fair and appropriate staffing policies are adopted by the delivering unit as it relates to distance and electronic instruction.
5. Departments/units using distance or electronically delivered instruction will describe a process for how and when courses and programs will be evaluated. In general, courses and programs will be evaluated on schedules that are the same or similar to those used with traditionally taught courses/programs.
6. Courses and programs will be assessed regularly, based on standards determined by departmental units. Delivery methods and content (as well as those aspects of courses
evaluated in traditional courses) will be assessed regularly.

**Administrative Responsibility:**
1. Although distance and electronically delivered courses must be identified in the UNCG database of courses, they will not be so distinguished on students’ transcripts from courses delivered in more traditional ways.
2. Degree programs that require students to complete more than one-third of its hours through distance learning will consult with the Graduate Studies Committee in advance.
3. Resources will be made available to assist faculty who wish to place courses/programs on the Web. In this manner, students and faculty can be assured that technologies are being used most appropriately.
4. Faculty will receive the same course load credit for courses taught through various distance delivery media as for those taught traditionally.

**Faculty/Student Responsibility:**
1. Course/program prerequisites clearly describe any technical/technological skills necessary for course participation. Any hardware or software requirements are included in this description. This information should be included in a course syllabus or other appropriate document.
2. Any required (or desirable) supplemental materials (e.g., library requirements, laboratory space/specifications, etc.) will be clearly described.
3. Courses/programs employ explicit strategies that promote interaction between faculty and students and among students. Student-faculty interactions include faculty availability (“office hours”) via face-to-face, e-mail, or telephone meetings.
4. Student assessment will consider any limitations of the delivery method, like security, graphics resolution, audio difficulties, etc. Assessment strategies should be tailored to the specific needs of students, site and delivery mode, and should be examined during the normal course of evaluation (e.g., should not be separate from typical course evaluation procedures).

**APPENDIX E**

**Policy on Discriminatory Conduct**

The University of North Carolina at Greensboro seeks to maintain an environment that supports the pursuit and dissemination of knowledge. All members of the academic community, including students, faculty, and staff members, share responsibility for protecting the academic environment by exemplifying high standards of professional and personal conduct. Use of illegal drugs by any member of the community interferes with the activities through which the goals of the University can be realized. Therefore, such practices will not be tolerated. The University will take all actions necessary, consistent with law and University policy, to eliminate the use of illegal drugs from the University community.

This policy has been developed in accord with “The University of North Carolina Policy on Illegal Drugs,” adopted by the Board of Governors January 15, 1988 and is available online through the UNC Policy Manual at http://www.northcarolina.edu/content.php/legal/policymanual/
contents.htm. The Policy establishes the framework for programs designed to educate the campus community on the harmful effects of illegal substances and to assist afflicted persons in their efforts to become rehabilitated. It also provides guidance for punishing violators.

II. APPLICABILITY
This policy is applicable to the following: students, faculty, senior administrative officers, non-faculty EPA employees (non-faculty personnel whose employment is exempt from the State Personnel Act), and SPA employees (staff personnel whose employment is subject to the State Personnel Act).

III. NOTICE
Article 5 of Chapter 90 of the North Carolina General Statutes makes it a crime to possess, manufacture, sell, or deliver or possess with intent to sell or deliver a controlled substance. N.C.G.S. 90-95. As citizens, all members of the University community are expected to know and comply with these laws. The North Carolina General Statutes are readily available in the Library or online at http://www.ncga.state.nc.us/gascripts/Statutes/Statutes.asp.

This Policy shall be publicized in catalogs and other materials prepared for all enrolled and prospective students and in appropriate materials distributed to faculty members, senior administrative officers, nonfaculty EPA employees, and SPA employees.

IV. EDUCATIONAL AND REHABILITATION PROGRAMS
The University shall establish and maintain a program of education designed to help all members of the University community avoid involvement with illegal drugs.

This program shall emphasize these subjects:

• The incompatibility of the use or sale of illegal drugs with the goals of the University;
• The legal consequences of involvement with illegal drugs;
• The medical implications of the use of illegal drugs; and
• The ways in which illegal drugs jeopardize an individual’s present accomplishments and future opportunities.

The University shall provide information about drug counseling and rehabilitative services available to University students and employees either through campus-based programs or through community-based organizations.

Persons who voluntarily avail themselves of these University services or programs are assured that applicable professional standards of confidentiality will be observed.

V. DISCIPLINARY PROCEEDINGS AND SANCTIONS

A. Preliminary Determinations
The University will initiate a disciplinary proceeding against a student, faculty member, senior administrative officer, EPA non-faculty employee, or SPA employee whenever both of these requirements are met:

• There is a reasonable basis for believing that the person has violated this policy or North Carolina law pertaining to controlled substances; and
• The alleged conduct is deemed to harm the interests of the University.

The first requirement above, can be satisfied by either of the following:

• A conviction or a guilty plea resulting from criminal prosecution; or
• Independent evidence obtained by University officials including police officers.

It should be noted that though an offense may be the subject of legal action by the civil authorities, University officials are nonetheless free to initiate disciplinary action that may result in additional penalties.

When the above requirements are met, the University will initiate disciplinary action against the alleged violator according to established procedures that safeguard the rights and interests of students and employees. Procedures will vary, depending on classification of the person facing disciplinary action:

Students. Student Code of Conduct for The University of North Carolina at Greensboro, approved by the Chancellor.

Faculty Members. The University of North Carolina at Greensboro’s Regulations on Academic Freedom, Tenure, and Due Process, Section 7. Discharge or Imposition of Serious Sanction, adopted by the Board of Trustees.

Senior Administrative Officers. Policies Concerning Senior Administrative Officers of The University of North Carolina, adopted by the Board of Governors.

Non-Faculty EPA Employees. Personnel Policies for Designated Employment Exempt from the State Personnel Act, adopted by the Board of Trustees.

SPA Employees. Relevant regulations of the Office of State Personnel.

Decisions reached by these processes are reviewable according to normal appeal mechanisms.

B. Penalties for Students, Faculty, Senior Administrative Officers, and Non-Faculty EPA Employees
For these persons, the penalties to be imposed may range from written warnings with probationary status to expulsions from enrollment and discharges from employment. The following minimum penalties shall be imposed for the particular offenses described:

1. Manufacturing, Sale, or Delivery of Illegal Drugs

The term “trafficking” is used in its generic sense, not in its specific application to selling, manufacturing, delivering, transporting, or possessing controlled substances in specified amounts that is the subject of North Carolina General Statute 90-95(h).

For the illegal manufacture, sale, or delivery, or possession with intent to manufacture, sell or deliver, of any controlled substance identified in Schedule I, N.C. General Statutes 90-89, or Schedule II, N.C. General Statutes 90-90 (including, but not limited to, heroin, mescaline, lysergic acid diethylamide, opium, cocaine, amphetamine, methaqualone), any student shall be expelled and any faculty member, senior administrative officer, or non-faculty EPA employee shall be discharged.

For a first offense involving the illegal manufacture, sale
or delivery, or possession with intent to manufacture, sale or delivery, of any controlled substance identified in Schedules III through VI, N.C. General Statutes 90-91 through 90-94, (including, but not limited to, marijuana, pentobarbital, codeine) the minimum penalty shall be suspension from enrollment or from employment for a period of at least one semester or its equivalent.

For a second offense, any student shall be expelled and any faculty member, senior administrative officer, or non-faculty EPA employee shall be discharged.

2. Illegal Possession of Drugs

For a first offense involving the illegal possession of any controlled substance identified in Schedule I, N.C. General Statute 90-89, or Schedule II, N.C. General Statutes 90-90, the minimum penalty shall be probation, for a period to be determined on a case-by-case basis. A person on probation must agree to participate in a drug education and counseling program, consent to regular drug testing at his/her own expense, and accept such other conditions and restrictions, including a program of community service, as the Chancellor or the Chancellor’s designee deems appropriate. Refusal or failure to abide by the terms of probation shall result in suspension from enrollment or from employment for any unexpired balance of the prescribed period of probation. Residential students convicted of such offenses shall be removed from University housing in addition to the above.

For a first offense involving the illegal possession of any controlled substance identified in Schedules III through VI, N.C. General Statutes 90-91 through 90-94, the minimum penalty shall be probation, for a period to be determined on a case-by-case basis. A person on probation must agree to participate in a drug education and counseling program, consent to regular drug testing at his/her own expense, and accept such other conditions and restrictions, including a program of community service, as the Chancellor or the Chancellor’s designee deems appropriate. Refusal or failure to abide by the terms of probation shall result in suspension from enrollment or from employment for any unexpired balance of the prescribed period of probation. Residential students convicted of such offenses shall be removed from University housing in addition to the above.

For second or other subsequent offenses involving the illegal possession of controlled substances, progressively more severe penalties shall be imposed, including expulsion of students and discharge of faculty members, senior administrative officers, or EPA nonfaculty employees.

3. Suspension Pending Final Disposition

When a student, faculty member, senior administrative officer, or non-faculty EPA employee has been charged by the University with a violation of policies concerning illegal drugs, he/she may be suspended from enrollment or employment before initiation or completion of regular disciplinary proceedings if, assuming the truth of the charges, the Chancellor or, the Chancellor’s designee, concludes that the person’s continued presence within the University community would constitute a clear and immediate danger to the health or welfare of other members of the University community; provided, that if such a suspension is imposed, an appropriate hearing of the charges against the suspended person shall be held as promptly as possible thereafter.

4. Penalties for SPA Employees

Discipline for SPA employees is prescribed in regulations published by the State Personnel Commission. Violations of this Policy and of North Carolina state law on controlled substances shall deem “personal misconduct” actionable under these rules. Penalties for offenses described herein will be in accordance with state policy.

VI. OPERATIONAL PROCEDURES

Under the University’s Policy on Illegal Drugs (hereafter referred to as “the Policy”), disciplinary proceedings against a student will be initiated when two requirements are met:

- There is a reasonable basis for believing that the person has violated this Policy or North Carolina law pertaining to controlled substances; and
- The alleged conduct is deemed to harm the interests of the University.

The first requirement, above, can be satisfied by either of the following:

- A conviction or a guilty plea resulting from criminal prosecution, or
- Independent evidence obtained by University officials, including police officers.

This statement establishes certain procedures and guidelines for determining when the second requirement is met.

A. Conduct Occurring Beyond Campus Boundaries

Alleged conduct involving the illegal use of drugs occurring beyond the boundaries of the campus may be considered harmful to the University. The Administrative Hearing Officer in the Division of Student Affairs will initiate disciplinary action when these minimal conditions are present:

- Such alleged conduct occurs during a period in which the student is actively enrolled as a student at the University; and
- Such alleged conduct has resulted in charges of possession/trafficking made by a civil authority.

Other conduct occurring beyond the campus may also be actionable under the Policy on Illegal Drugs, depending on the circumstances.

B. Conduct Occurring Within Campus Boundaries

The officer will report the incident to the appropriate University office, as follows, for consideration of whether conduct action under the Policy should be taken:

- All other University Police and personnel encountering instances of conduct involving illegal drugs will make reports to the Assistant Dean of Students for disciplinary action.
- The report of drug-related behavior to the Assistant Dean of Students may be accompanied by an explanation of mitigating factors. Such mitigating factors may include, but are not limited to, the isolated or singular character of the incident as evidenced by a student’s unusual conduct in comparison with what is known to be his/her normal behavior, and the absence of prior reports of similar acts by such student.

Charges will be made and hearings will be held in accord with the Student Code of Conduct published by the Division of Student Affairs and contained in the UNCG Calendar/Student Handbook and on the University’s Web site (http://studentconduct.uncg.edu/).
APPENDIX G

Residence Status for Tuition Purposes

The tuition charge for persons who qualify as residents for tuition purposes is substantially less than that for nonresidents. An interpretation of the North Carolina law (General Statute 116-143.1; Section III of this document) governing residence classification for tuition purposes follows. A more complete explanation of the statute and the procedures under the statute is contained in A Manual to Assist the Public Higher Education Institutions of North Carolina in the Matter of Student Residence Classification for Tuition Purposes. The Manual is the controlling administrative statement of policy on this subject. Copies of the Manual are available for inspection in the Office of the Provost, the Library, and the admitting offices.

The basis for determining the appropriate tuition charge rests upon whether a student is a resident or a nonresident for tuition purposes. Each student must make a statement as to the length of his or her residence in North Carolina, with assessment by the institution of that statement to be conditioned by the following.

A. Residence

To qualify as a resident for tuition purposes, a person must become a legal resident and remain a legal resident for at least twelve months immediately prior to classification. Thus, there is a distinction between legal residence and residence for tuition purposes. Furthermore, twelve months of legal residence means more than simple abode in North Carolina. In particular it means maintaining a domicile (permanent home of indefinite duration) as opposed to "maintaining a mere temporary residence or abode incident to enrollment in an institution of higher education." The burden of establishing facts which justify classification of a student as a resident entitled to in-state tuition rates is on the applicant for such classification, who must show his or her entitlement by the preponderance (the greater part) of the residenciary information.

B. Initiative

Being classified a resident for tuition purposes is contingent on the student’s seeking such status and providing all information that the institution may require in making the determination. Failure to provide such information results in an out-of-state classification.

C. Parents’ Domicile

If an individual, irrespective of age, has living parent(s) or court-appointed guardian of the person, the domicile of such parent(s) or guardian is, prima facie, the domicile of the individual; but this prima facie evidence of the individual’s domicile may or may not be sustained by other information. Further, nondomiciliary status of parents is not deemed prima facie evidence of the applicant child’s status if the applicant has lived (though not necessarily legally resided) in North Carolina for the five years preceding enrollment or re-registration.

D. Effect of Marriage

Marriage alone does not prevent a person from becoming or continuing to be a resident for tuition purposes, nor does marriage in any circumstance ensure that a person will become or continue to be a resident for tuition purposes. Marriage and the legal residence of one’s spouse are, however, relevant information in determining residenciary intent. Furthermore, if both a husband and wife are legal residents of North Carolina and if one of them has been a legal resident longer than the other, then the longer duration may be claimed by either spouse in meeting the twelve-month requirement for in-state tuition status.

E. Military Personnel

A North Carolinian who serves outside the State in the armed forces does not lose North Carolina domicile simply by reason of such service. North Carolina residents who serve outside the State may prove retention or establishment of residence by reference, as in other cases, to residenciary acts accompanied by residenciary intent.

In addition, a separate North Carolina statute (G.S. 116-143.3; Section IV of this document) affords tuition rate benefits to certain military personnel and their dependents, even though not qualifying for the in-state tuition rate by reason of twelve months legal residence in North Carolina. Members of the armed services, while stationed on active duty in North Carolina, may be charged the in-state tuition rate. A dependent relative of a service member stationed in North Carolina is also eligible to be charged the in-state tuition rate while the dependent relative is living in North Carolina with the service member and if the dependent relative has met any requirement of the Selective Service System applicable to the dependent relative.

Qualifying active duty military members and the dependent relatives thereof are extended a “military grace period” if the military member is reassigned outside of North Carolina while the member or dependent is enrolled in an institution of higher education. During this grace period, the military member or dependent relative thereof is eligible for the in-state tuition rate as long as he or she is continuously enrolled in the degree or other program in which he or she was enrolled at the time of the reassignment.

Additionally, any nonresident North Carolina Guard Members in reserve or active status are eligible for the in-state rate and all applicable mandatory fees. These tuition benefits may be enjoyed only if the applicable requirements for admission have been met; these benefits alone do not provide the basis for receiving those derivative benefits under the provisions of the residence classification statute reviewed elsewhere in this summary. Application for this benefit must be made prior to the beginning of the first enrolled term of each academic year for which the benefit is sought.

F. Grace Period

If a person (1) has been a bona fide legal resident of the required duration, (2) has consequently been classified a resident for tuition purposes, and (3) has subsequently lost North Carolina legal residence while enrolled at a public institution of higher education, that person may continue to enjoy the in-state tuition rate for a grace period of twelve months measured from the date on which North Carolina legal residence was lost, provided the loss of in-state residence status is not a result of institutional error. If the twelve months ends during an academic term for which the
person is enrolled at a State institution of higher education, the grace period extends, in addition, to the end of that term. The fact of marriage to one who continues domiciled outside North Carolina does not by itself cause loss of legal residence marking the beginning of the grace period.

G. Minors

Minors (persons under 18 years of age) usually have the domicile of their parents, but certain special cases are recognized by the residence classification statute in determining residence for tuition purposes.

(a) If a minor’s parents live apart, the minor’s domicile is deemed to be North Carolina for the time period(s) that either parent, as a North Carolina legal resident, may claim and does claim the minor as a tax dependent, even if other law or judicial act assigns the minor’s domicile outside North Carolina. A minor thus deemed to be a legal resident will not, upon achieving majority before enrolling at an institution of higher education, lose North Carolina legal residence if that person (1) upon becoming a legal adult “acts, to the extent that the person’s degree of actual emancipation permits, in a manner consistent with bona fide legal residence in North Carolina” and (2) “begins enrollment at an institution of higher education not later than the fall academic term following completion of education prerequisite to admission at such institution.”

(b) If a minor has lived for five or more consecutive years with relatives (other than parents) who are domiciled in North Carolina and if the relatives have functioned during this time as if they were personal guardians, the minor will be deemed a resident for tuition purposes for an enrolled term commencing immediately after at least five years in which these circumstances have existed. If under this consideration a minor is deemed to be a resident for tuition purposes immediately prior to his or her eighteenth birthday, that person on achieving majority will be deemed a legal resident of North Carolina of at least twelve months duration. This provision acts to confer in-state tuition status even in the face of other provisions of law to the contrary; however, a person deemed a resident of twelve months duration pursuant to this provision continues to be a legal resident of the State only so long as he or she does not abandon North Carolina domicile.

H. Lost but Regained Domicile

If a student ceases enrollment at or graduates from an institution of higher education while classified a resident for tuition purposes and then both abandons and reacquires North Carolina domicile within a twelve-month period, that person, if he or she continues to maintain the reacquired domicile into reenrollment at an institution of higher education, may re-enroll at the in-state tuition rate without having to meet the usual twelve-month durational requirement. However, any one person may receive the benefit of the provision only once.

I. Change of Status

A student admitted to initial enrollment in an institution (or permitted to re-enroll following an absence from the institutional program which involved a formal withdrawal from enrollment) must be classified by the admitting institution either as a resident or as a nonresident for tuition purposes prior to actual enrollment. A residence status classification once assigned (and finalized pursuant to any appeal properly taken) may be changed thereafter (with corresponding change in billing rates) only at intervals corresponding with the established primary divisions of the academic year.

J. Transfer Students

When a student transfers from one North Carolina public institution of higher education to another, he or she is treated as a new student by the institution to which he or she is transferring and must be assigned an initial residence status classification for tuition purposes.

K. Aliens and Foreigners

Aliens lawfully admitted into the United States for permanent residence are subject to the same considerations as citizens in the determination of residentiary status for tuition purposes. Certain classes of both resident and nonresident aliens are subject to these same considerations, but certain classes are not. More complete information on the residence classification of aliens may be obtained from the Manual (referred to above) or from the Office of the Provost.

L. North Carolina Public School Teachers

Under separate statute (G.S. 116-143.5; Section V of this document), certain North Carolina public school teachers (or other personnel paid on the teacher salary schedule) are eligible to be charged the in-state tuition rate for courses relevant to teacher certification or professional development, irrespective of their length of legal residence. To qualify, the applicant must be a legal resident of North Carolina and employed full-time by a North Carolina public school. Application for this benefit must be made prior to the beginning of each academic term for which the benefit is sought.

M. Tuition Waivers

A separate North Carolina statute (G.S. 115B section VI of this document) provides tuition waiver for North Carolina residents who are at least age 65. The tuition waiver benefit also extends to certain family members of deceased or totally and permanently disabled emergency workers of North Carolina. More complete information on this statute may be obtained from the Office of the Provost.
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