THE UNIVERSITY
OF NORTH CAROLINA
AT CHAPEL HILL

UNDERGRADUATE BULLETIN

2007-2008 Record

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THE UNDERGRADUATE BULLETIN

2007-2008

Record of the University of North Carolina at Chapel Hill

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The University of North Carolina at Chapel Hill is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (18866 Southern Lane, Decatur, Ga. 30033-4097; telephone [404] 679-4501) to award bachelor's, master's, doctoral, and professional degrees.

Statement on Equal Educational Opportunity
The University of North Carolina at Chapel Hill is committed to equality of educational opportunity. The University does not discriminate in offering access to its educational programs and activities on the basis of age, gender, race, color, national origin, religion, creed, disability, veteran's status, or sexual orientation. The Dean of Students (101 Steele Building, Chapel Hill, NC 27599-5100 or [919] 966-4042) has been designated to handle inquiries regarding the University's nondiscrimination policies.

Policy on Nondiscrimination
The University is committed to providing an inclusive and welcoming environment for all members of our community and to ensuring that educational and employment decisions are based on individuals' abilities and qualifications. Consistent with this principle and applicable laws, it is therefore the University's policy not to discriminate in offering access to its educational programs and activities or with respect to employment terms and conditions on the basis of age, gender, race, color, national origin, religion, creed, disability, veteran's status, or sexual orientation. Such a policy ensures that only relevant factors are considered and that equitable and consistent standards of conduct and performance are applied. A copy of the University's EPA and SPA Equal Opportunity Plans is available on the University's Web site at www.unc.edu/depts/eeoada. Any inquiries regarding the University's nondiscrimination policies should be brought to the attention of one of the following administrators, as noted:

- Discrimination in employment and educational programs and activities
  University EEO/ADA Officer
  CB# 9160, 100 Pettigrew Hall
  Chapel Hill, NC 27599-9160
  (919) 966-3576

- Discrimination involving students
  Dean of Students
  CB# 5100, 101 Steele Building
  Chapel Hill, NC 27599-5100
  (919) 966-404

- Sex discrimination in educational programs and activities
  University Title IX Officer
  CB# 5000, 104 Steele Building
  Chapel Hill, NC 27599-5000
  (919) 966-4045

- Discrimination in employment
  Associate Vice Chancellor for Human Resources
  CB# 1000, 300 South Building
  Chapel Hill, NC 27599-3000
  (919) 962-1554

The University's policy prohibiting discrimination on the basis of sexual orientation does not apply to the University's relationships with outside organizations, including the federal government, the military, ROTC, and private employers.

The Honor Code
The Honor System forms a bond of trust among students, faculty, and administrators. The University of North Carolina at Chapel Hill operates under a system of self-governance, as students are responsible for governing themselves. As such, our University is transformed into a powerful community of inquiry and learning. The Honor Code embodies the ideals of academic honesty, integrity and responsible citizenship, and governs the performance of all academic work a student conducts at the University. Acceptance of an offer of admission to Carolina presupposes a commitment to the principles embodied in our century-old tradition of honor and integrity.

Student Right-to-Know Act
Pursuant to the federal Student Right-to-Know Act, we report that, in 2005-2006, the completion or graduation rate for undergraduates who entered the University of North Carolina at Chapel Hill in 2000 on a full-time basis was 83.8 percent.

Cover photo: Dan Sears
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THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL: AN INTRODUCTION

Visiting Campus

Visitors are always welcome at the University of North Carolina at Chapel Hill.

When arranging a visit to campus, contact the UNC-Chapel Hill Visitors’ Center at (919) 962-1630 or write: Visitors’ Center, Morehead Building and Planetarium, Chapel Hill, NC 27599-3475. At the center, visitors can obtain general information about the University or check out a recorded tour of the historic campus. If you are a prospective student and want information about admission to the University, contact the Undergraduate Admissions Office at (919) 966-3621 or go to www.admissions.unc.edu. Visitors will find useful information on the University’s home page at www.unc.edu, in particular the “Visitors” link.

A campus map and parking information are available at the Visitors’ Center or on the Web at www.unc.edu/visitors.

Overnight accommodations are usually available (except on football weekends, Commencement weekend, and other special occasions) at the Carolina Inn, near the center of the University. Call the Carolina Inn at (919) 933-2001 for overnight reservations.

Numerous other hotels are in the Chapel Hill vicinity. Persons planning to visit campus should seek reservations well in advance.

Offices of the University are open from 8 a.m. to 5 p.m. Monday through Friday, but normally are not open during holidays. While visiting campus, please do not enter classrooms or residence hall rooms when they are in use.

Using the Undergraduate Bulletin

The Undergraduate Bulletin is a valuable tool that prospective and enrolled students can use throughout their days at the University of North Carolina at Chapel Hill. The Bulletin supplies general information about the University to prospective students and their parents. It includes information about application procedures and about orientation and matriculation for students who have been accepted.

Academic regulations, University facilities, and college life also are described. Departmental degree requirements and course offerings are included, but students in some specialized curricula will be referred to other publications for additional information. Enrolled students are encouraged to use the Bulletin in addition to talking with faculty advisors.

This bulletin is concerned primarily with prospective students and with undergraduates enrolled in the General College, the College of Arts and Sciences, and the schools of Business, Dentistry, Education, Information and Library Science, Journalism and Mass Communication, Medicine, Nursing, Pharmacy, and Public Health, as well as Summer School.

The following catalogs and admissions brochures are published by the University of North Carolina at Chapel Hill, in print form and/or on the Web: Kenan-Flagler Business School, School of Dentistry, School of Education, School of Government, The Graduate School, School of Information and Library Science, School of Journalism and Mass Communication, School of Law, School of Medicine, School of Nursing, School of Public Health, School of Social Work, and Summer School.

Part-Time Classroom Studies and Self-Paced Courses also publish course catalogs.

Carolina on the Internet

To find out more about the University through the World Wide Web, visit the University’s home page at www.unc.edu.

Corresponding with the University

Prospective students will conduct most of their business with the University’s Office of Undergraduate Admissions. Campus visitors can find the office in Jackson Hall on Country Club Road. The mailing address is Undergraduate Admissions, Jackson Hall, CB# 2200, The University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-2200.

After being formally accepted, students may have questions about housing and accommodations. If so, students can contact the Department of Housing in Carr Building, CB# 5500 or call (919) 962-5406 or 1-800-UNC-3502. The Housing Web site is located at housing.unc.edu.

Students with questions about their proposed program of study should establish contact with the academic dean in that area. The General College, with offices in Steele Building, telephone (919) 966-5116, is responsible for all first-year students, except those in Dental Hygiene, who should communicate directly with their department. The Office of Scholarships and Student Aid, 300 Vance Hall, CB# 2300, telephone (919) 962-8396, Web studentaid.unc.edu, has general charge of scholarships, grants, job opportunities, and loans.

Telephone calls to any office or person in the University system can be completed through the University operator in Chapel Hill when the caller does not know the direct number. The operator's number is (919) 962-2211.

A lost and found office is maintained on the third floor of the New Student Union, Room 3512, by Alpha Phi Omega service fraternity.

Campus Tours for Prospective Students

Tours for prospective students begin at 10 a.m. and 2 p.m. Monday through Friday year-round, except during some holidays and semester breaks. Tours begin at the Office of Undergraduate Admissions, and are led by Carolina students. To make reservations, call (919) 966-3621, visit admissions.unc.edu/visiting/tours.htm, e-mail uncont@admissions.unc.edu, or write Undergraduate Admissions, CB# 2200, Jackson Hall, Chapel Hill, NC 27599-2200.

Obtaining an Undergraduate Bulletin

Admitted first-year students will be given the opportunity to obtain a free Undergraduate Bulletin at the beginning of fall semester. Thereafter, students can refer to new editions of the Bulletin by purchasing one from Student Stores in person, by mail, or via the Web. For information about purchasing the Bulletin, call (919) 962-3567, visit store.unc.edu, or write Student Stores, The University of
North Carolina at Chapel Hill, Daniels Building, CB# 1530, Chapel Hill, NC 27599-1530.

Reference copies of the Bulletin are available at campus libraries and with each student's faculty advisor.

**Reaching the Office of Undergraduate Admissions**

The starting point for most prospective students is the University's Office of Undergraduate Admissions. The office and its knowledgeable personnel help prospective students understand the requirements and procedures of applying for admission to UNC-Chapel Hill. Admissions personnel can be reached at Undergraduate Admissions, Jackson Hall, CB# 2200, The University of North Carolina at Chapel Hill, Chapel Hill, N.C. 27599-2200, by telephone at (919) 966-3621, or at www.admissions.unc.edu.

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**The Mission Statement of the University of North Carolina at Chapel Hill**

The University of North Carolina at Chapel Hill has existed for two centuries as the nation’s first state university. Through its excellent undergraduate programs, it has provided higher education to ten generations of students, many of whom have become leaders of the state and the nation. Since the 19th century, it has offered distinguished graduate and professional programs. The University is a doctoral/research-extensive university. Fundamental to this designation is a faculty actively involved in research, scholarship and creative work, whose teaching is transformed by discovery and whose service is informed by current knowledge. The mission of the University is to serve all the people of the state, and indeed the nation, as a center for scholarship and creative endeavor. The University exists to teach students at all levels in an environment of research, free inquiry and personal responsibility; to expand the body of knowledge; to improve the condition of human life through service and publication; and to enrich the culture.

To fulfill this mission, the University must:

- acquire, discover, preserve, synthesize and transmit knowledge;
- provide high quality undergraduate instruction to students within a community engaged in original inquiry and creative expression, while committed to intellectual freedom, to personal integrity and justice, and to those values that foster enlightened leadership for the state and nation;
- provide graduate and professional programs of national distinction at the doctoral and other advanced levels;
- extend knowledge-based services and other resources of the University to the citizens of North Carolina and their institutions to enhance the quality of life for all people in the state; and
- address, as appropriate, regional, national and international needs.

(Adopted by the UNC Board of Governors, November 2003)
A Look at The University of North Carolina at Chapel Hill

The University of North Carolina was anticipated by a section of the first state constitution drawn up in 1776 directing the establishing of "one or more universities" in which "all useful learning shall be duly encouraged and promoted." State support, it directed, should be provided so that instruction might be available "at low prices." The American Revolution intervened and it was not until 1789, the year that George Washington became president of the new nation, that the University was chartered by the General Assembly.

Despite constitutional instructions to the contrary, no state appropriations were made, and the trustees were left to secure land and money themselves. On Oct. 12, 1793, the cornerstone was laid for a brick building on a hilltop near the center of the state amidst the colorful fall foliage of dogwood, oak and tulip trees.

The site, lying at the crossing of north-south and east-west roads, was marked only by a small Anglican chapel that soon shared part of its name – New Hope Chapel Hill – with the community that developed there. Legislator and trustee William R. Davie, who had been instrumental in securing passage of the charter, took the lead in organizing the University. Davie presided over the Masonic ritual of the laying of the cornerstone. In time he came to be called "the Father of the University." Many years later a large poplar or tulip tree, first mentioned in 1818 and still standing near the center of the old campus, was called Davie Poplar in his honor.

The first building and, indeed, the only building for two years, was a two-story brick structure that came to be called Old East. It is now a National Historic Landmark, the oldest state university building in America. Opened to students on Jan. 15, 1795, the University of North Carolina received its first student, Hinton James of New Hanover County, on February 12. By March there were two professors and 41 students present.

The second state university did not begin classes until 1801 when a few students from nearby academies assembled under a large tree at Athens, Georgia, for instruction. By then four classes had already been graduated at Chapel Hill and there were to be three more before the first diplomas were issued in Georgia. The next building on the Carolina campus was Person Hall, begun in 1796 and long used as the chapel. The cornerstone of Main or South Building was laid in 1798. All three are older than any other American state university building.

The Young University

During the early 19th century the trustees began a period of strong support in the development of the young University. Even though their proclaimed initial goal for the University had been to provide trained leadership for the state, the curriculum followed the customary classical trend. In 1815, however, the natural sciences were given equal place, and in the 1820s Professors Denison Olmstead and Elisha Mitchell prepared the nation's first geological survey. In 1831 the first astronomical observatory at a state university was built under the direction of President Joseph Caldwell. Student enrollment increased steadily, and by 1860 only Yale College had more students.

Young men from many states came to Chapel Hill for their education, particularly those from families who had recently left North Carolina to settle elsewhere in the South. The University of North Carolina provided governors not only for North Carolina but also for many other states; countless professions and occupations were represented, including cabinet members, clergymen, diplomats, engineers, geologists, judges, legislators, surveyors, teachers, and a president and a vice president of the United States among others.

The General Assembly in 1931 consolidated the University with the Woman's College at Greensboro and North Carolina State College at Raleigh under a single Board of Trustees. As an economy measure during the Depression and as a means of eliminating duplication, the trustees allocated each unit specific roles in higher education for the state. The offices of the Consolidated University were established on the Chapel Hill campus and University President Frank Porter Graham became the Consolidated University's first president.

The period of the Depression in the 1930s saw a great deal of new construction on the campus as federal funds became available to create jobs for the unemployed. New dormitories, classroom buildings, a gymnasium, and other buildings and improvements were built in part from this source. World War II also resulted in some new construction and alterations on campus as the University's facilities were used to train military personnel.

Expansion continued throughout the 20th century, and today UNC-Chapel Hill ranks among the great institutions of higher education in the nation. Beginning with one building, 41 students and two professors, the University has now grown to more than 250 permanent buildings, 27,000 students each year and 3,000 faculty members.

Into the Future

The campus is currently undergoing an unprecedented physical transformation made possible in part by North Carolinians' overwhelming approval in November 2000 of a $3.1 billion bond referendum for higher education.

The bonds are making possible renovations, repairs and new buildings so 21st-century students can learn in a 21st-century environment. Guided by a visionary master plan for growth now coming to life, the University is leveraging its portion of the bond money, $510 million, by investing funds from non-state sources, including private gifts and overhead receipts from faculty research grants, for a total of $1.5 billion. The resulting capital construction program is believed to be among the largest underway at any major American university.

Designed mainly around the principle of enhancing the University's mission of teaching, research and public service, the campus master plan shows where and how to place new buildings over the next several decades. While providing a blueprint for expansion in a modern era, its design also ensures that the most cherished physical features of the historic campus – including the sense of place – will remain in harmonious balance with the new growth.

Top Rankings

The University has been recognized for the quality of its graduate programs in every national survey conducted in the past third of this century. U.S. News and World Report's survey of American colleges and universities consistently ranks the University among the best colleges in the nation and among the top research universities.

These accolades reflect the quality of the curriculum and of the faculty, whose research orientation allows them to share with their students not only the thrill of discovery, but also the latest advancements and new knowledge. Another asset that contributes to this
reputation is UNC-Chapel Hill’s superb library system containing 5.6 million volumes. It is ranked among the top research libraries in the United States and Canada by the Association of Research Libraries.

The William and Ida Friday Center for Continuing Education provides continuing education on the Chapel Hill campus. The Friday Center incorporates instructional technology and other features to meet the needs of adult learners and combines meeting facilities, program planning services and food service under one roof. Programs for part-time students seeking credit courses are offered on campus and through distance learning technologies.

The University’s public radio station, WUNC-FM, is heard by more than 197,000 listeners each week at 91.5 on the FM band.

The Morehead Planetarium and Science Center, dedicated in 1949 as the first major planetarium on a university campus, was one of the training sites for America’s early astronauts. From 1959 to 1975, astronauts from the Mercury, Gemini, Apollo, Skylab, Apollo-Soyuz and some early Space Shuttle missions came to Chapel Hill for training in celestial navigation. Each year more than 130,000 people visit the planetarium, including more than 85,000 schoolchildren.

Art, drama and music abound on campus. More than 45,000 visitors annually enjoy the Ackland Art Museum’s outstanding collection of art. PlayMakers Repertory Company, a nonprofit full-season professional theater company, draws up to 50,000 patrons annually to the Paul Green Theatre. Memorial Hall, newly renovated in 2005, is the setting for a variety of spectacular performances by both local and world-renowned artists. The Hall is the focal point for the Arts Common, which will extend southward from Franklin Street to Historic Playmakers Theatre, the oldest building on campus dedicated to the arts. The Arts Common will ultimately include a restored Historic Playmakers Theatre and Gerrard Hall, an expanded Ackland Art Museum and new music facilities. Memorial Hall’s renovation is the first step toward the realization of this goal.

For music lovers, the Department of Music in Hill Hall offers approximately 120 concerts and related events a year, many with free admission. The department also offers Music on the Hill as a subset of the Carolina Performing Arts Series.

Research

The University belongs to a select group of 62 leading American and Canadian campuses forming the Association of American Universities. Internationally recognized, cutting-edge research is conducted across the campus. Faculty discoveries have created numerous spin-off companies that are attracting new investments and creating jobs for North Carolinians. Examples of commercialization include therapeutic agents for Parkinson’s Disease, technologies for drug delivery to treat cancer and respiratory diseases including cystic fibrosis, industrial applications for carbon nanotubes and gene therapy treatment for diseases like muscular dystrophy.

At UNC-Chapel Hill, research is not limited to faculty and graduate students. Through the Office of Undergraduate Research in the College of Arts and Sciences, first-year students through seniors have opportunities to work one-on-one with faculty mentors to design and carry out a research project to help them find new answers to complex questions. Undergraduate research can be conducted through course work, internships, creative performances and mentored independent study at home and abroad. More than 20 percent of undergraduates receive academic credit for conducting research.

Public Service

As the first public university in the nation, UNC-Chapel Hill has a long and proud history of engagement. The University’s service and engagement activities extend to every region of North Carolina, helping communities promote public health, improve their schools, deliver better medical services, stimulate economic development, understand their heritage and enrich the quality of life.

In 2003 the Carolina Center for Public Service launched the innovative Public Service Scholars program. Open to all undergraduates, this program provides a framework for students who want to explore service opportunities and link their academic experience to making a difference in the community. Participants who complete the required service hours, service-learning classes, training and reflective exercises receive official University recognition on their transcripts for their efforts. More than 1,000 students are enrolled in the Public Service Scholars program. For more information about this and other programs sponsored by the Carolina Center for Public Service, click on Public Service from the main UNC home page at www.unc.edu.

Another visionary student outreach program is APPLES (Assisting People to Plan Learning Experiences in Service). Participants volunteer in the community or take part in summer internships in nonprofit or government agencies as part of their course work, then write about or discuss with faculty the findings from their experiences. Students, faculty and community partners can find out more about this student-run program at www.unc.edu/apples.

The North Carolina Area Health Education Centers (AHEC) Program helps meet the primary health care needs of the state by training and supplying health care professionals in local communities. The AHEC Program is administered by the School of Medicine.

School teachers across North Carolina benefit from the Learners’ and Educators’ Assistance and Resource Network of North Carolina (LEARN NC), a Web site offered free through the School of Education to the state’s school systems. Teachers, curriculum or technology specialists and others in all of the state’s school systems have been trained on the site, which includes a database of exemplary lesson plans indexed by grade, subject and the NC Standard Course of Study, as set by the NC Department of Public Instruction.

Dozens of UNC-Chapel Hill faculty members share their expertise on state commissions, licensing and regulatory boards, task forces and committees to benefit North Carolinians. Many of the University’s student organizations help nonprofit agencies throughout the year.

The University is the most comprehensive institution in North Carolina, both in the range of its programs at all levels and in the breadth of its specialized research and public service programs. Its 16 colleges and schools provide instruction in more than 100 fields, offering bachelor’s, master’s, doctoral and professional degrees, as well as certificates, in academic areas critical to North Carolina’s future: business, dentistry, education, information and library science, government, law, medicine, nursing, public health and social work, among others.

For more than 200 years after its doors first opened to students, the University has remained faithful to its founding fathers’ charge to duly encourage and promote all useful learning for the betterment of humanity.

Adapted from an article by William S. Powell, Professor Emeritus, Department of History
ACADEMIC CALENDAR 2007-2008

University Registrar calendars can be obtained on the Registrar's Web site: regweb.unc.edu.

FIRST SUMMER SESSION 2007

Course listing available over the Web for courses offered during First and Second Summer Sessions.

Students registered for the 2007 Spring term will be ACTIVATED into the 2007 Summer and Fall terms in preparation for registration. Registration begins according to registration schedule.

Billing date (Students who register by the billing date will receive a bill.)

Pre-payment period begins. (Students who did not register before the end of the billing period must pre-pay or provide proof of financial aid prior to registering.)

Tuition and fees due. (Students who register during the billing period must pay or defer tuition and fees by this date or their schedule will be cancelled and all their courses dropped.)

Residence halls open at 9 a.m.

Classes begin for all students. Late registration begins. $20 fee charged for late registration.

Last day for all students to add a course or late register.

This is also the last day for schools/departments to add students.

Last day to reduce course load and have tuition adjusted. (Note: Dropping all courses requires processing a withdrawal of enrollment from the University and follows a different prorated refund policy. See Withdrawal Policy.)

Last day for all students to drop a course using the Web registration system. This is also the last day for schools/departments to drop a course for students.

Official University enrollment reporting date (census date).

Verification class rolls distributed.

HOLIDAY (Memorial Day)

Last day for undergraduate students to drop courses.

Last day to withdraw for credit on student's financial account.

Verification class rolls due to Registrar's Office.

Last day for graduate students to drop courses.

Last day to withdraw without any tuition credit.

First Summer Session classes end.

Absences (AB's) and Incompletes (IN's) from First Summer Session 2006 change to F* for graduate students.

Official class rolls and grade reports distributed. (Official class rolls and grade reports are due to the University Registrar's office 72 hours after the exam is given.)

First Summer Session examinations begin.

First Summer Session examinations end.

Residence halls close at 6 p.m.

HOLIDAY (Independence Day)

Thursday, December 14, 2006

Saturday, March 3, 2007

Friday, March 23

Wednesday, April 11

Thursday, April 12

Wednesday, May 2

Monday, May 14

Tuesday, May 15

Wednesday, May 16

Monday, May 21

Monday, May 21

Monday, May 28

Thursday, May 31

Friday, June 1

Wednesday, June 6

Friday, June 8

Thursday, June 14

Friday, June 15

Monday, June 18

Monday, June 18

Tuesday, June 19

Tuesday, June 19

Wednesday, July 4

Thursday, July 5

Friday, July 13

Wednesday, August 8

SECOND SUMMER SESSION 2007

Course listing available over the Web for courses offered during First and Second Summer Sessions.

Students registered for the 2007 Spring term will be ACTIVATED into the 2007 Summer and Fall terms in preparation for registration.

Registration begins according to registration schedule.

Billing period. (Students who register by the end of the billing period will receive a bill.)

Pre-payment period begins. (Students who did not register before the end of the billing period must pre-pay or provide proof of financial aid prior to registering.)

Tuition and fees due. (Students who register during the billing period must pay or defer tuition and fees by this date or their schedule will be cancelled and all their courses dropped.)

Residence halls open at noon.

Classes begin for all students. Late registration begins. $20 fee charged for late registration.

Last day for all students to add a course or late register. This is also the last day for schools/ departments to add students.

Last day to reduce course load and have tuition adjusted. (Note: Dropping all courses requires processing a withdrawal of enrollment from the University and follows a different prorated refund policy. See Withdrawal Policy.)

Last day for all students to drop a course using the Web registration system. This is also the last day for schools/ departments to drop a course for students.

Official University enrollment reporting date (census date).

Verification class rolls distributed.

HOLIDAY (Independence Day)

Last day for graduate and undergraduate students to file a degree application with their dean's office for degree to be awarded in August.

Final approved doctoral dissertations and master's theses for August graduation candidates must be submitted to the Graduate School by 4 p.m.

Degree award date recorded for First Summer Session degree recipients.

Last day for graduate and undergraduate students to file a degree application with their dean's office for degree to be awarded in August.

Final approved doctoral dissertations and master's theses for August graduation candidates must be submitted to the Graduate School by 4 p.m.

Degree award date recorded for First Summer Session degree recipients.

Wednesday, December 20, 2006

Saturday, March 3, 2007

Friday, March 23

Friday, May 11 – Wednesday, May 16

Thursday, May 17

Wednesday, June 6

Wednesday, June 20

Thursday, June 21

Friday, June 22

Wednesday, June 27

Wednesday, June 27

Friday, June 29

Wednesday, July 4

Thursday, July 5

Monday, July 9

Tuesday, July 10

Friday, July 13

Friday, July 13

Tuesday, July 17

Monday, July 23
Second Summer Session classes end.

Absences (AB's) and Incompletes (IN's) from Second Summer Session 2006 change to F* for graduate students.

Official class rolls and grade reports distributed. (Official class rolls and grade reports are due to the University Registrar’s office 72 hours after the exam is given.)

Second Summer Session examinations begin.

Second Summer Session examinations end.

Residence halls close at 6 p.m.

Degree award date recorded for Second Summer Session degree recipients.

Tuesday, July 24

Wednesday, July 25

Thursday, July 26

Friday, July 27

Wednesday, August 8

Tuesday, July 24

Wednesday, August 8

Tuesday, September 4

Monday, September 17

Monday, October 1

Monday, October 8

Friday, October 12

Friday, October 12

Monday, October 15

Monday, October 15

Monday, October 15

Monday, October 15

Monday, October 15

Wednesday, October 17

Monday, October 22

Monday, October 22

Monday, October 22

Monday, October 22

Monday, October 22

Monday, October 22

Monday, October 22

Monday, October 22

Monday, October 22

Monday, October 22

Tuesday, November 19

Wednesday, November 21

Thursday, November 22 and Friday, November 23

Sunday, November 25

Monday, November 26

Monday, November 26

Tuesday, November 20

Wednesday, November 21

Thursday, December 6 and Friday, December 12

Friday, December 7

Saturday, December 8

Monday, December 10

Tuesday, December 11

Thursday, December 13

Friday, December 14

FALL SEMESTER 2007

Course listing available over the Web.

Students registered for the 2007 Spring term will be ACTIVATED into the 2007 Summer and Fall terms in preparation for registration.

Registration begins according to registration schedule.

Billing date for all students who have registered by this date. (This includes new first-year and transfer undergraduates who have registered during CTOPs/TSOPs by this date. New first-year and transfer undergraduates not registered by this date will be billed on an alternate billing schedule. See Web site: cashier.unc.edu under Important Dates.)

Pre-payment period begins. (Students who did not register before the billing date must pre-pay or provide proof of financial aid prior to registering. New first-year and transfer undergraduates who did not register by the billing date will be able to register during CTOPs/TSOPs without pre-paying or providing proof of financial aid.)

Tuition and fees due for all students who have registered before the billing date. (Students who register by the billing date must pay or defer tuition and fees by this date or their schedule will be cancelled and all their courses dropped.)

Fall semester open.

Graduate orientation.

Residence halls open for new graduand, first-year undergraduates and transfer students at 9 a.m.

Undergraduate orientation.

Residence halls open for returning students at 9 a.m.

Summer Reading Program.

Classes begin for all students. Late registration begins. $20 fee charged for late registration.

Last day for all students to add a course or late register. This is also the last day for schools/departments to add students.

HOLIDAY, Labor Day. (No classes held.)

Last day to reduce course load and have tuition adjusted. (Note: Dropping all courses requires processing a withdrawal of enrollment from the University and follows a different prorated refund policy. See Withdrawal Policy.)

Last day for all students to drop a course using the Web registration system. This is also the last day for schools/departments to drop a course for students.

Official University enrollment reporting date (census date).

First-year undergraduates early warning rolls distributed.

First-year undergraduates early warning rolls due to General College.

First-year undergraduates mid-term grade rolls distributed.

University Day. (Classes cancelled from 10:00 a.m. to 1:00 p.m.)

Last day for graduate and undergraduate students to file a degree application with their dean's office for degree to be awarded in December.

Last day for graduate and undergraduate students to drop courses.

Last day for graduate and undergraduate students to submit Pass/Fail declarations.

Incompletes (IN's) from prior terms (Spring and Summer 2007) change to F* for undergraduate students.

FALL RECESS – Instruction ends at 5 p.m.

Instruction resumes at 8 a.m.

First-year undergraduate mid-term grade rolls due.

Last day to withdraw for credit on student's financial account. (Prorated over nine weeks.)

Verification class rolls distributed.

Verification class rolls due to Registrar’s Office by 4 p.m.

Last day for graduate students to drop courses.

Residence halls close at 10 a.m.

Thanksgiving Recess. (No classes held).

Thanksgiving Holidays. (University closed.)

Residence halls open at 9 a.m.

Classes resume at 8 a.m.

Final approved doctoral dissertations and master’s theses for December graduation candidates must be submitted to the Graduate School by 4 p.m.

Fall semester classes end.

Absences (AB's) from prior terms (Spring and Summer 2007) change to F* for undergraduate students.

Absences (AB's) and Incompletes (IN's) from Fall semester 2006 change to F* for graduate students.

Reading days.

Official class rolls and grade reports distributed. (Official class rolls and grade reports are due to the University Registrar’s office 72 hours after the exam is given.)

Fall semester examination days.
Residence halls close for non-graduating students at 10 a.m. Saturday, December 15
Residence halls close for graduating students at 6 p.m. Sunday, December 16
Mid-Year Commencement. Sunday, December 16
Degree award date recorded for Fall degree recipients. Tuesday, December 18

<table>
<thead>
<tr>
<th>Days of Instruction</th>
<th>28 (2,100 minutes)</th>
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<tbody>
<tr>
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<td>42 (2,100 minutes)</td>
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**SPRING SEMESTER 2008**

Course listing available over the Web. Friday, September 14, 2007
Students registered for the 2008 Fall term will be ACTIVATED into the 2008 Spring term in preparation for registration.
Registration begins according to registration schedule. Saturday, September 22
Billing period (students who register by the end of the billing period will receive a bill.) Friday, October 6
Pre-payment period begins. (Students who did not register before the end of the billing period must pay or provide proof of financial aid prior to registering.) Wednesday, October 14
Tuition and fees due. (Students who register during the billing period must pay tuition and fees by this date or their schedule will be cancelled and all their courses dropped.) Tuesday, December 11
Spring semester opens. Friday, January 4, 2008
Residence halls open at 9 a.m. Sunday, January 6
Classes begin for all students. Late registration begins. $25 fee charged for late registration. Wednesday, January 9
Last day for all students to add a course or late register. Tuesday, January 15
This is also the last day for schools/departments to add students.

**HOLIDAY, Martin Luther King Jr. Day.** Monday, January 21
Last day to reduce course load and have tuition adjusted. (Note: Dropping all courses requires processing a withdrawal of enrollment from the University and follows a different prorated refund policy. See Withdrawal Policy.) Wednesday, January 23
Last day for all students to drop a course using the Web registration system. Also the last day for schools/departments to drop a course for students. Wednesday, January 23
Official University enrollment reporting date (recount date). Wednesday, January 23
First-year undergraduates early warning rolls distributed. Tuesday, February 5
Last day for graduate and undergraduate students to file a degree application with their dean's office for degree to be awarded in May. Friday, February 8
First-year undergraduates early warning rolls are due to General College. Tuesday, February 19
Last day for undergraduate students to drop courses. Tuesday, March 4

Last day for graduate and undergraduate students to submit Pass/Fail declarations. Tuesday, March 4
Incomplete (IN's) from prior term (Fall 2007) change to 'P' for undergraduate students. Tuesday, March 4
Residence halls close at 6 p.m. Friday, March 7
SPRING RECESS - Instruction ends at 5 p.m. Friday, March 7
Instruction resumes at 8 a.m. Monday, March 10
Verification class rolls distributed. Tuesday, March 10
Last day to withdraw for credit on student's financial account. (Tuition and fees prorated over nine weeks.) Tuesday, March 10
Residence halls open at 9 a.m. Sunday, March 16
HOLIDAY. Friday, March 21
Verification class rolls due to Registrar's Office by 4:00 p.m. Monday, March 23
Last day for graduate students to drop courses. Friday, April 11
Final EDs (electronic dissertations and theses) for May graduation candidates must be submitted to the Graduate School by 4 p.m.
Spring semester classes end. Friday, April 15
Absences (AB's) from prior term (Fall 2007) change to 'P' for undergraduate students. Friday, April 15
Absences (AB's) and Incompletes (IN's) from Spring 2007 change to 'P' for graduate students. Friday, April 15
Reading days. Saturday, April 26 and Sunday, April 27
Official class rolls and grade reports distributed. (Official class rolls and grade reports are due to the University Registrar's Office 72 hours after the exam is given.) Monday, April 28
Spring semester examination days. Monday, April 28
Doctoral Hooding Ceremony. Saturday, May 10
Residence halls close for non-graduating students at 10 a.m. Wednesday, May 10
Residence halls close for graduating students at 6 p.m. Sunday, May 11
Spring Commencement. Sunday, May 11
Degree award date recorded for Spring degree recipients. Sunday, May 11

The Spring semester includes 42 class periods of 50 minutes each on MWF and 29 class periods of 75 minutes each on TTH for a total of 71 days.

<table>
<thead>
<tr>
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(919) 962-1365; Fax 962-1647
ADMISSIONS

The University of North Carolina at Chapel Hill: Admissions Policy

I. All qualified persons are welcome to seek admission to the University of North Carolina at Chapel Hill, and all persons may apply for and accept admission confident that the policy and regular practice of the institution is not to discriminate in offering access to its educational programs and activities on the basis of age, gender, race, color, national origin, religion, creed, disability, veteran's status or sexual orientation. (See www.unc.edu/campus/policies/nondiscrim.html.)

II. Projections of the number of students to be admitted and enrolled in any year shall be determined (a) by the capacity of the institution to meet the instructional and other needs of students in the colleges, schools, departments, curricula or other programs to which applicants seek admission and (b) by enrollment levels approved for budgetary or other appropriate purposes.

III. When at any time the number of qualified applicants for admission exceeds the number of persons who can be admitted and enrolled (as determined by the criteria specified in II above), those to be offered admission shall be selected on the basis of (a) recognition of the institution's special responsibility to residents of North Carolina and (b) the institution's judgment of the applicant's relative qualifications for satisfactory performance in the specific college, school, department, curriculum or other program to which the applicant seeks admission.

Provided that the criteria set forth hereinafter are met, this policy of competitive admissions shall not prevent the admission of selected applicants (a) who give evidence of possessing special talents for University programs requiring such special talents, (b) whose admission is designed to help achieve variety within the total number of students admitted and enrolled, or (c) who seek educational programs not readily available at other institutions.

In seeking variety within the total number of students admitted and enrolled, the University shall affirm its commitment to achieve excellence, to provide for the leadership of the educational, governmental, scientific, business, humanistic, artistic and professional institutions of the state and nation, and to enrich the lives of all the people of North Carolina.

In the application of this policy of competitive admissions to nonresident students, preference for admission may be given to nonresident applicants who are children of alumni of the institution.

IV. Admission of persons to the specific colleges, schools, curricula or other programs of the institution shall be governed by the provisions set forth below.

Undergraduate Admissions

Admission of undergraduate students to colleges or schools to pursue programs leading to a baccalaureate degree shall be the responsibility of the Office of Undergraduate Admissions. The Admissions Office shall apply policies and procedures that, not inconsistent with policies adopted by the Board of Trustees, are approved by the Advisory Committee on Undergraduate Admissions.

In the application of the provisions set forth in III above, preference for admission shall be given to qualified residents of North Carolina; however, in recognition of the educational and other values accruing to North Carolina students, to the institution, and to the state from participation of nonresident students in the programs of the institution, nonresidents may be admitted in the entering first-year class in numbers likely to result in no more than 18 percent nonresident enrollment in the entering first-year class.

Admission of undergraduates shall be to the first-year class, to other classes by transfer after satisfactory completion of one or more years of acceptable college-level work in some other institution(s) of higher education, or to Part-Time Classroom Studies. Among applicants seeking admission by transfer, normal administrative practice shall favor applicants for transfer to the junior class.

Admission and enrollment of persons who are candidates for financial aid for which athletic ability is a consideration shall be conditional upon compliance with applicable regulations of the Atlantic Coast Conference and the National Collegiate Athletic Association.

Admission to the First-Year Class

Admission to and enrollment in the first-year class shall be conditional upon graduation from secondary school with such units of secondary school academic course credit as may be specified by the Office of Undergraduate Admissions; however, if all other criteria are met, the Admissions Office may make exceptions to the secondary school graduation and course credit requirements in accordance with procedures approved by the Advisory Committee on Undergraduate Admissions.

Criteria employed for determination of each applicant's qualifications for admission shall include (a) satisfactory evidence of scholastic promise based upon the applicant's previous academic record, recommendations from schools previously attended, scores on selected tests of scholastic aptitude or achievement, the applicant's written application for admission and the applicant's predicted grade average for the first year as determined by procedures approved by the Advisory Committee on Undergraduate Admissions; and (b) satisfactory evidence of the applicant's capacity to cope with the demands of University life.

Admission by Transfer

Admission and enrollment by transfer from another institution shall be conditional upon a satisfactory academic record on work undertaken in all other institutions attended, satisfactory recommendations from institutions previously attended and eligibility to return to all previously attended institutions of higher education.

Part-Time Classroom Studies

Admissions

Eligibility for admission to Part-Time Classroom Studies shall normally be limited to adult individuals living within commuting distance of Chapel Hill.
Admission to Part-Time Classroom Studies of an applicant who does not hold a baccalaureate degree shall be the responsibility of the Office of Undergraduate Admissions. Such admissions shall be either

(1) for full credit, applicable toward fulfillment of degree requirements, in which case the minimum requirements shall be the same as those for admission to degree programs and in which case the Office of Undergraduate Admissions shall review each applicant using the same admissions criteria as for comparable full-time, degree-seeking students applying to the University; or

(2) for personal benefit and enjoyment, in which case the applicant may be exempted from the qualitative requirements for admission to degree programs. Notwithstanding this exemption from qualitative requirements, the applicant must have graduated from an approved or accredited secondary school and must demonstrate the capacity to cope with the demands of University life.

Admission to Part-Time Classroom Studies of an applicant who is currently enrolled in high school shall be the responsibility of the Office of Undergraduate Admissions. Such admissions shall be considered only when an applicant (a) seeks to enroll in a University course for which there is no comparable course at the student’s secondary school and (b) demonstrates adequate preparation for the course in which the student seeks to enroll.

Admission to Part-Time Classroom Studies of an applicant who holds a baccalaureate degree shall be the responsibility of the William and Ida Friday Center for Continuing Education. Such admissions shall be for personal benefit and enjoyment, for the satisfaction of prerequisite requirements for professional or graduate programs or for transfer of credit to a postbaccalaureate degree program, in which case the applicant may be exempted from the qualitative requirements for admission to degree programs.

**Graduate School Admissions**

With recognition of the institution’s special responsibility to residents of North Carolina but without restrictions based on residence status, admission to the Graduate School shall be a selective process with the objective of enrolling from the pool of applicants for each discipline those students who, in the judgment of the institution, are best qualified to pursue graduate degrees in their chosen academic fields. Admission of graduate students shall be the responsibility of the dean of the Graduate School with the advice and assistance of the Administrative Board of the Graduate School and of the graduate faculties of the departments, schools and curricula authorized to offer graduate degree programs.

For admission to the Graduate School, the applicant must

(1) hold a baccalaureate degree from an accredited college or university in the United States or its equivalent from an institution abroad,

(2) present a strong overall record of academic achievement,

(3) be in good standing in the last-attended institution where graduate work has been or is being taken, and

(4) be admitted as a degree student unless there are exceptional circumstances justifying admission for nondegree study with the approval of the dean of the Graduate School.

The graduate student enrollment level for each school, department or curriculum shall be determined for each academic year by the dean of the Graduate School following consultation with each of the schools, departments and curricula concerned.

**Professional School Admissions**

Admission of students to the professional degree programs in schools other than the Graduate School and to nondegree programs in the schools of the Division of Health Affairs shall be, in each of these schools, the responsibility of its established committee on admissions, which shall apply policies, procedures and requirements, not inconsistent with the provisions of this policy, adopted by the faculty of the school and approved by the chancellor or his delegate.

**Summer Admissions**

Admission of applicants to any summer session shall be the responsibility

(1) of the Office of Undergraduate Admissions with respect to those who wish to begin in the summer an undergraduate program of study that will continue into the following academic year or that is intended to lead to a baccalaureate degree from the University of North Carolina at Chapel Hill, as well as those undergraduates already enrolled in this institution who wish to return for undergraduate work in the summer;

(2) of the Graduate School with respect to those who wish to begin a degree program of graduate study in the summer, as well as those graduate students already enrolled in this institution who wish to return for graduate study in the summer;

(3) of the dean of the Summer School, with respect to those who wish to attend any summer session as visiting students admitted by the Summer School and who fall into neither of the categories above; or

(4) of the Office of Part-Time Classroom Studies in the Friday Center for Continuing Education with respect to those who wish to begin in the summer on a part-time basis either as a postbaccalaureate student or a degree or nondegree student, as well as those already enrolled in the University of North Carolina at Chapel Hill who wish to return for part-time study in the summer.

Admission to the Summer School by the Office of Undergraduate Admissions, the Graduate School and the Office of Continuing Studies shall be in conformity with the provisions set forth in this policy for other undergraduate and graduate admissions.

Admission to the Summer School by the dean of the Summer School shall be in conformity with policies, procedures and requirements adopted by the Administrative Board of the Summer School. Each such admission shall terminate as of the last day of that summer term and shall include no commitment, stated or implied, for admission of the student to any subsequent semester or session of the University of North Carolina at Chapel Hill.

V. Appeals concerning individual admission, or admission rescission, decisions shall be governed by the admissions appeal procedure contained in Appendix A.

This policy adopted by resolution of the Board of Trustees on September 3, 1976.
Amended by Board of Trustees, August 24, 1984.
Amended by Board of Governors, March 14, 1986.
Amended by Board of Trustees, May 27, 1994.
Amended by Board of Trustees, effective January 1, 2006.
Appendix A

Admissions Appeal Procedure

This document sets forth the procedures to be followed with respect to the appeal of a negative admissions decision, including a decision to rescind an admission that has already been granted.

I. Appeal to Admissions Officer

Appeals concerning individual admission, or admission rescission, decisions may be had only if it is contended that (a) a provision set forth in The University of North Carolina at Chapel Hill admissions policy ("admissions policy") has been violated or (b) the decision not to admit the individual or to rescind admission resulted from a material procedural error in the admissions process. Such an appeal shall be lodged by the applicant-appellant with the administrative officer (the director of undergraduate admissions, the dean of The Graduate School, the dean of the professional school concerned, or the dean of the Summer School) whose office had responsibility for the admission in question (hereafter the "administrative officer") within 30 days after the applicant has received the letter communicating the University's decision. The appeal shall be in writing and shall set forth the grounds for the appeal.

Upon receipt of the appeal, the admissions officer shall review the applicant-appellant's file and appeal letter and shall communicate his or her decision to the applicant in writing.

II. Appeal to Provost

The decision of the admissions officer may be appealed to the provost only if it is contended that (a) a provision set forth in the admissions policy has been violated or (b) the decision not to admit the individual or to rescind admission resulted from a material procedural error in the admissions, or appeal, process. Such an appeal shall be lodged with the provost by filing a letter of appeal specifying the grounds for the appeal within 15 days after the appellant has received the letter communicating the decision of the admissions officer.

The appeal shall be heard by the provost or the provost's designee, and the applicant, at his or her option, may appear in person or conduct the appeal by telephone. Following the hearing, the provost or designee will communicate the decision to the applicant in writing.

III. Appeal to the Board of Trustees

The decision of the provost or his or her designee may be appealed to the Board of Trustees only if it is contended that (a) a provision set forth in the admissions policy has been violated or (b) the decision not to admit the individual or to rescind admission resulted from a material procedural error in the admissions, or appeal, process. The appellant shall file a letter of appeal specifying the grounds for the appeal and all supporting facts upon which the appellant bases his or her appeal within 15 days after receiving the letter communicating the decision of the provost. The appeal letter shall be sent to the Office of University Counsel for transmission to the Board of Trustees.

The Office of University Counsel shall review the appeal letter to determine if it states a valid ground for appeal. If the letter does not state a proper ground for appeal, the appeal will not go forward to the Board of Trustees, and the appellant will be notified to that effect. If the Office of University Counsel determines that the letter of appeal states a valid ground for appeal, it shall transmit the appeal to the Board of Trustees.

An appeal to the Board of Trustees shall be considered by a three-person panel of the Board of Trustees and shall be solely on the written record, unless the panel expressly requests the presence, in person or by phone, of both the appellant and the admissions officer or his or her designee. This three-person panel shall have full authority to act on behalf of the Board of Trustees, and the decision of the panel shall be deemed the decision of the Board of Trustees. The Board of Trustees panel shall consider the record presented to the provost and all documents and other writings submitted by the appellant and the admissions officer. The trustee panel may reverse the decision of the provost only upon a showing by the appellant of clear and material error on the part of the provost in his or her decision. Otherwise, the panel shall sustain the provost's decision. If the trustee panel reverses the provost's decision, the panel shall remand the case to the appropriate admissions office for reconsideration in light of any guidance the trustee panel chooses to provide. The panel's decision will be communicated to the appellant in writing. There is no appeal from the decision of the trustee panel.
UNDERGRADUATE ADMISSIONS

The Office of Undergraduate Admissions assists students interested in continuing their education at the University of North Carolina at Chapel Hill. Applications from all students are accepted and considered for admission. Eighty-two percent of the first-year class will be from North Carolina, with 18 percent coming from outside the state.

Admission Requirements

The admissions process at the University of North Carolina at Chapel Hill is necessarily a selective one. A student's high school record (course difficulty and performance) and test scores are important elements in admissions decisions, but other accomplishments and personal qualities are also relevant, since the University seeks a diverse body of students.

By their anticipated date of enrollment, candidates for admission should have reached the age of 16 and must have graduated from an approved or accredited secondary school. In addition, the University asks that candidates present evidence of the capacity to cope with the demands of University life.

Items Necessary for a Complete Application

First-Year Admission

The admission application is available at www.admissions.unc.edu.

The completed application will include:

A. Official transcript(s) from approved secondary school(s) and colleges or universities attended
B. Official SAT and/or ACT scores
C. Counselor statement and teacher recommendation (if the candidate is in a new school for the first time, an additional recommendation from the previous school is suggested)
D. Essays as requested in the application form
E. Application fee of $70.00 (nonrefundable)
F. Any further information that will enhance the University's understanding of the applicant's background and preparation for college (encouraged but not required)
G. Any additional items or information requested in the application materials or by the Office of Undergraduate Admissions

NOTE: Current federal legislation allows students enrolling at the University access to their files. Students do not have access to their applications.

Transfer Admission

The admission application is available at www.admissions.unc.edu.

The completed application will include:

A. Official transcript from each college attended, including summer sessions
B. Official high school transcript (grades nine through 12)
C. Application fee of $70.00 (nonrefundable)
D. Official SAT and/or ACT scores with the writing section (sophomore transfers only)
E. Essays as requested in the application form
F. Any additional items or information requested in the application materials or by the Office of Undergraduate Admissions
G. Community standard form, or criminal background check, for enrolling transfer students

High School Course Requirements

The University suggests that a student present for admission a challenging high school curriculum. Such a program should include the most rigorous courses available at the student's high school if the student's enrollment in these courses is academically appropriate. The difficulty of the courses selected by the student will be a factor in the admissions decision.

To be considered for first-year admission in fall 2006 and thereafter, students should present these minimum high school course requirements (including the ninth grade):

- four units of English;
- four units of college preparatory mathematics (two algebra, one geometry and a higher level mathematics course for which algebra II is a prerequisite);
- at least two units of a single foreign language;
- three units in science, including at least one unit in a life or biological science and at least one unit in a physical science, and including at least one laboratory course;
- two units of social science, including United States history; and
- enough elective units in traditional academic areas (literature, mathematics, physical and biological sciences, social sciences and foreign languages) for a total of 16 units.

Admission to the University is competitive. Therefore, it is recommended that students enroll in courses beyond these minimum requirements.

Admitted students will take placement exams in foreign language; therefore, it is preferred that students continue in advanced levels of foreign language courses during their final year in high school even if they have already met the minimum requirements in these fields.

Placement in courses during students’ first semester at the University will be based on their performance on placement tests. Although the student will take placement exams in some subjects at the University before the first semester begins, it is to the student’s advantage to take placement tests in high school, especially those accepted by the University for placement purposes. For math placement, the Department of Mathematics recommends that enrolling students arrange to take the SAT Subject Test Math 2. Although this test is not required for admission, many majors at Carolina require a quantitative reasoning course for which a placement score is necessary. Foreign language placement may be based on SAT Subject Tests and College Board Advanced Placement tests. English placement is based on the SAT Subject Test and College Board Advanced Placement tests, as well as on SAT Reasoning Critical Reading scores and ACT scores. Students also are encouraged to take standardized tests that are recognized for placement in other subject areas.

College Board Placement Tests

The University recognizes, for placement and degree credit, satisfactory scores on the College Board Advanced Placement, International Baccalaureate, certain SAT Subject Tests and College
Board College-Level Examination Program or CLEP. For more specific information, please contact the Office of Undergraduate Admissions or visit www.admissions.unc.edu.

Information about College Board tests and applications for specific tests may be obtained by writing the Educational Testing Service, Box 592, Princeton, NJ 08504, or Box 025, Berkeley, CA 94707, or by contacting a high school counselor. Applicants should apply to take a test six to eight weeks in advance of the actual test date.

Transfer Candidates

Transfer applicants who graduated from high school between 1988 and 2005 must present the following 16 academic units from high school to be eligible for admission consideration:

• four years of English;
• three years of mathematics (algebra I, algebra II and geometry);
• three years of natural science (one biological, one physical and at least one laboratory course);
• two years of social science (one must be U.S. history);
• two years of the same foreign language;
• two additional years of academic electives.

Transfer applicants who graduated from high school in 2006 or after must present all of the high school courses listed above plus one approved mathematics course beyond algebra II.

Transfer applicants deficient in any of the minimum course requirements will be eligible for transfer consideration only if one of the following conditions is met:

A. Applicant has 30 transferable semester hours in the following areas: six semester hours of acceptable college level English (not to include remedial courses); six semester hours of acceptable college level mathematics (not to include remedial courses; college algebra is considered remedial at UNC-Chapel Hill); six semester hours of acceptable college level social science; six semester hours of acceptable college level natural sciences; six semester hours of an acceptable college level foreign language; OR

B. Applicant holds an associate of arts, associate of fine arts or associate of science degree from a regionally accredited institution earned before enrollment at UNC-Chapel Hill; OR

C. Applicant is at least 24 years old.

To be considered for transfer admission, students must present at least a C average (2.0 on a 4.0 scale) in all courses attempted at other accredited colleges and universities. However, a much higher average is required to be competitive.

Students also must be eligible to return to all institutions previously attended. Students who have lower than a C average and are, therefore, academically ineligible for consideration as transfer students may complete courses through the Self-Paced Courses or Carolina Courses Online program toward raising their outside grade point average to transfer to the University. However, courses completed in the University of North Carolina at Chapel Hill Summer School cannot be used to establish eligibility to be considered as a transfer applicant. Because spaces are limited, admission is competitive, and the University usually cannot admit all of the students who meet minimum requirements.

Once admitted as a transfer student, any course credits received at UNC-Chapel Hill in a prior summer session become part of the official transcript of the student, and grades received are included in the grade point average.

Transfer students are categorized by class, based on the number of transferable credits they earned before matriculation at the University and on the number of college terms in residence (one term in residence is the equivalent of one term of full-time enrollment).

The categories are:

• one term and fewer than 30 semester hours of transfer credit for first-year student standing;
• two or three terms and 30 to 59 semester hours for sophomore standing;
• three, four or five terms and 60 semester hours for junior standing.

Offers of admission typically are extended before an applicant's transfer credit can be fully evaluated. As a result, while transfer students are advised of their likely classification at the point of admission, this classification is provisional only until confirmed by notification of transfer credits earned.

Applicants applying as junior transfers should present a minimum of 51 transferable hours by the end of the spring term of their sophomore year. Summer enrollment, following the sophomore year, will not be counted in the hours needed to qualify as a junior.

The Office of Undergraduate Admissions evaluates candidates based on both their high school and college records. We value strong performance in a challenging curriculum, including courses in English, math, science, literature, social sciences and foreign language. All established academic records, as well as personal qualities and accomplishments, will be considered in the selection of the transfer class.

Transfer of Credit

The University will award credit hours for courses from other accredited institutions when the student has made a satisfactory grade (usually a C or its equivalent) and when a similar course is offered by the University. If a passing grade of D or lower is earned, the University will not grant course credit hours; however, the appropriate University department will determine if the course(s) may be applied toward requirements for the degree.

Students should expect difficulty in transferring professional course work and course work from nonaccredited institutions (including foreign institutions). In these cases, the courses must be approved through the appropriate departments at this University, and the departments will determine if the course(s) may be applied toward requirements for the degree.

The University honors the official Articulation Agreement with the North Carolina Community College System.

The University will consult two publications when settling questions that arise concerning the transfer of credit: "Transfer Credit Practices," published by the American Association of Collegiate Registrars and Admissions Officers, and "Accredited Institutions of Post-Secondary Education," published by the American Council on Education.

A student may challenge any University course credit evaluation directly through the appropriate academic department. The academic department will determine how many, if any, credits can be awarded.

Students seeking transfer to the University may wish to plan their courses at their current institution in a way that will ensure the transfer of their course work. The University encourages such prior course planning, and the Office of Undergraduate Admissions will assist prospective transfer students with it.
The University will accept a maximum of 64 semester hours of transfer credit from a two-year institution or from a combination of a two- and four-year college enrollment when the four-year college enrollment (which includes courses concurrently enrolled in or previously completed at UNC-Chapel Hill) precedes the two-year college enrollment. However, students who have 64 semester hours of college credit cannot transfer additional credit from a two-year institution. Physical education courses taken at another institution will count toward the University's physical education requirement, but students will not receive credit hours for physical education courses completed at other institutions.

The University will accept a maximum of 75 hours from four-year institutions since a minimum of 45 hours must be taken in residence for graduation at UNC-Chapel Hill. Transfer students must satisfy the first-year entrance requirements of this University, even where these differ from the requirements of the previous institution attended.

When to Apply for First-Year Admission

The final application deadline for the fall semester is January 15. All materials except first-term grades must be received by this date or the student will be considered a late applicant and will be considered on a space-available basis. An earlier deadline of November 1 is available to first-year applicants.

When to Apply for Transfer Admission

The transfer application deadline for sophomore and junior admission to the College of Arts and Sciences and the School of Journalism and Mass Communication is March 1. The deadline for junior transfer applicants to dental hygiene, clinical laboratory science, health policy and administration, nursing, radiologic science, biostatistics and education varies by department. Please contact the specific department for additional information.

The University does not admit or enroll a first-year or transfer class for the spring semester.

Notification

For first-year applicants: If the application is complete by November 1, students will be notified by the end of January. If the application is complete by January 15, students will be notified by the end of March.

For transfer applicants: If the application is complete and submitted to the Office of Undergraduate Admissions by March 1, decisions will be mailed in late April. The notification time frame for dental hygiene, clinical laboratory science, health policy and administration, nursing, radiologic science, biostatistics and education varies by department. Please contact the specific department for additional information.

Deadlines and notification dates for first-year and transfer applicants are subject to change. Please consult a current year application or the Office of Undergraduate Admissions for confirmation of these dates.

The Appeals Process for Admissions Decisions

For information on appealing an admissions decision, refer to Appendix A (admissions appeal procedure) of the admissions policy on page 18 of this bulletin.

Programs with Limited Admissions

Prospective transfer students are advised that only a small number of transfer students will be admitted in the majors of journalism and mass communication, education, and the allied health and public health programs. Junior transfer students planning to major in business administration, environmental health science, nutrition, computer science or information and library science must enroll in the College of Arts and Sciences and complete at least one semester before applying for admission to these degree programs. Students interested in one of these fields may wish to consider another major as a second choice; however, even if admitted to an alternate program, students cannot be guaranteed subsequent admission to their first choice of major. In addition, notification of acceptance to these programs is generally later than for other programs.

Health Program Majors

Early applications for these programs are encouraged. After completion of the fall semester, a transcript of that semester’s work should be submitted. Applicants should also contact the specific department for additional application materials and specific program requirements.

Junior transfer applicants for the pharmacy program must apply directly to the School of Pharmacy. Junior transfer applicants must also provide Pharmacy College Admission Test scores as part of the application. Sophomore students must apply directly to the Office of Undergraduate Admissions.

Education Majors

Transfer students should take the PRAXIS I basic reading, writing and math exam to be considered for admission to our teacher education programs. Official scores should be sent to the School of Education at UNC-Chapel Hill by the testing service before students apply for admission.

Music or Dramatic Art Majors

First-year and transfer students applying as music majors should also contact the director of undergraduate studies in music at 101 Hill Hall to arrange an audition. (Please indicate whether you wish to study voice or an instrument; if an instrument, please indicate which one.) Students applying to major in the dramatic arts should also contact the director of undergraduate studies in dramatic arts at 222 Center for Dramatic Art.

Fall/Winter Grades - Transfer Applicants

The fall and winter grades should be mailed to the Office of Undergraduate Admissions as soon as they become available. An application will be considered incomplete without them and will not be reviewed until they arrive.

Confirmation of Acceptance

The University requires a nonrefundable enrollment deposit. This is due by May 1 for fall admission, or, for students admitted after the deadline, it is due within two weeks of receipt of the letter of admission.
Degree candidates starting in Summer School who intend to continue in the fall must pay their summer fees, as well as the fall term deposits, to reserve a space for the fall term.

Admission of International Students

International students are considered for admission on the same basis as native candidates. They must, however, provide a bank statement and complete and submit a financial certificate. The appropriate forms can be downloaded from www.admissions.unc.edu.

An international student should present SAT Reasoning or ACT with writing results, as well as transcripts from previous schooling. International students should also submit results on the Test of English as a Foreign Language (TOEFL) in support of their application if English is not their native language.

U.S. immigration law requires proof of financial support for the student's entire program of study. Before admission, applicants must provide documentation that they have sufficient funds in a bank to cover the first year's tuition and living expenses. See the financial aid section for information on expenses. The University will issue the necessary visa documentation to those students who are formally admitted to the University. International students should not leave their native country intending to enroll at the University until they have received a formal letter of acceptance and appropriate visa documents.

Questions concerning international student life on the UNC-Chapel Hill campus should be referred to the Foreign Student Advisor, Nash Hall Room: 208, CB# 5240, The University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-5240.

Readmissions

Any student who withdraws or for any other reason fails to complete a semester must apply for readmission through the Office of Undergraduate Admissions. Students applying in this manner must pay a nonrefundable $70 application fee. Application for readmission should be made as early as possible and in no case later than two weeks before the opening of the semester. The online readmission application is available at https://www-s3.iais.unc.edu/sis/adm/ugreadapp.html. The readmission application may also be downloaded from admissions.unc.edu/pdf/readmissionapp.pdf.

A student leaving the University with an academic deficiency must restore his or her eligibility in order to be readmitted as a regular student.

Restoration of eligibility can be accomplished only by enrolling in summer sessions or through correspondence instruction from the University (see below).

Students who have enrolled in course work at another college or university since their last enrollment at the University of North Carolina at Chapel Hill must submit transcripts of this course work and must have maintained a C average for all such course work attempted in order to be eligible for readmission. The grade point average (GPA) required for eligibility is based on all semesters in residence on all campuses.

Students leaving the University for medical or disciplinary reasons must be cleared by the appropriate office before being readmitted.

The University must adhere to enrollment projections; therefore, readmission is not guaranteed even if the student is academically eligible.

Admission as a Summer School Visitor

Any student who has not been regularly enrolled or has not been admitted for the fall semester in any school in the University should send his/her application for admission as a visiting summer student to: Dean of Summer School, CB# 3340, 134 E. Franklin St. Those students who are in residence at the University will pre-register or register for a summer session through their academic dean or advisor and need not make a separate application to the dean of the Summer School. A student who plans to restore academic eligibility through work done in a summer session must apply to the Office of Undergraduate Admissions, CB# 2200, Jackson Hall.

Admissions Confidentiality

The University of North Carolina at Chapel Hill will protect the privacy of all students seeking admission through the Office of Undergraduate Admissions by soliciting and receiving all academic and nonacademic records obtained for the purpose of admission on the condition that they be held in confidence by the University. No information obtained through the admissions process will be shared with individuals, internal or external to the University, other than the chancellor, the provost and members of the Advisory Committee on Undergraduate Admissions and its subcommittees.

Exceptions to this policy will be made only at the direction of the chancellor or the provost.

Further Information

For additional information and services related to the admission of first-year and transfer students, contact the Assistant Provost and Director of Undergraduate Admissions, CB# 2200, Jackson Hall, The University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-2200.

Intra-University Transfer

Transfer from one school or college within the University is possible with the approval of both academic deans concerned.

Other Credit Programs

Self-paced Courses

In addition to the courses listed in this bulletin, many undergraduate distance education courses are available through Self-paced Courses. Online and print-based correspondence courses are available. Students can enroll at any time, work at their own pace and take up to nine months to complete a course.

Application for Self-paced Courses is made to the Friday Center for Continuing Education, CB# 1020, (919) 962-1134. Application forms and a complete catalog of course listings may be obtained from the same office.

A student may earn 30 semester hours of credit toward a degree at the University of North Carolina at Chapel Hill through Self-paced Courses. Students found academically ineligible to continue in resident study at the University may restore their eligibility.
through Self-paced Courses. Students attending classes may not enroll in Self-paced Courses at the same time without the written consent of their deans.

Carolina Courses Online

Carolina Courses Online is a distance education program that offers courses over the Internet. Class sessions are not required, but courses generally follow the semester schedule. Access to the World Wide Web and e-mail are required in order to enroll. The courses are administered through the Friday Center for Continuing Education, (919) 962-1134.

Admission to Part-Time Classroom Studies

Part-Time Classroom Studies is the academic unit in the Friday Center for Continuing Education through which area adults (customarily students aged 24 and older) enroll in University courses part-time.

Both undergraduate and postbaccalaureate students are admitted without respect to race, color, national origin, religion, sex, age or handicap.

Part-Time Classroom Studies students may register for a maximum course load of eight credit hours per semester. A small selection of courses is scheduled for the evening hours; the University’s daytime courses are also open to Part-Time Classroom Studies students if space permits.

Undergraduates or high school students desiring to enroll through Part-Time Classroom Studies should file an admission application and nonrefundable $70 application fee with the Office of Undergraduate Admissions, CB# 2200, Jackson Hall, The University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-2200, or at www.admissions.unc.edu. The Part-Time Classroom Studies application is available online at https://sa.its.unc.edu/sis/adm/ugcapp.html, or it can be downloaded from www.admissions.unc.edu/pdf/UNC_ParticTime_Classroom_2007.pdf.

Admission is limited for both prospective degree candidates and for those seeking to take courses for personal benefit and enjoyment. To be eligible, students must have been away from a traditional school setting for at least 12 consecutive months and must have graduated from an approved or accredited secondary school. Admission is available to UNC-Chapel Hill faculty/staff employees. Traditional students who have been denied full-time admission to the University are not immediately eligible for enrollment through Part-Time Classroom Studies. All students admitted as prospective degree candidates must meet minimum University requirements for admission; in considering prospective degree candidates for admission, the Office of Undergraduate Admissions shall use the same admissions criteria that it uses to evaluate comparable full-time, degree-seeking students applying to the University. For information about those criteria, please see the sections on first-year and transfer admission above.

Students who have a baccalaureate degree can apply online at www.ais.unc.edu/sis/admissions/cspapp.html, or they may download an application from www.admissions.unc.edu/pdf/UNC_Part-Time_Classroom_2007.pdf and submit it to Part-Time Classroom Studies, CB# 1020, Friday Center, Chapel Hill, NC 27599-1020.

Admission to Part-Time Classroom Studies does not constitute admission to a degree program at the University. Undergraduates must be accepted for transfer into one of the degree-granting schools or colleges of the University. A minimum of 45 academic credit hours must be earned from UNC-Chapel Hill, and at least 24 of the last 30 academic credits must be earned from UNC-Chapel Hill courses. Beyond these minimum course requirements, students attempting to transfer from Part-Time Classroom Studies into one of the degree-seeking schools or colleges of the University must present evidence that they are prepared to make satisfactory progress toward the degree. Postbaccalaureate students must apply and be accepted to a graduate degree program.

Part-Time Classroom Studies students who have not registered for a semester or more should apply for readmission at least 30 days prior to the start of the term of their return. The readmission application for Part-Time Classroom Studies is available at fridaycenter.unc.edu/pc/cs/applic.htm.

Undergraduate students enrolled through Part-Time Classroom Studies for personal benefit and enjoyment may apply to convert to degree-seeking status. Such applications will be reviewed in light of the criteria for admission to Part-Time Classroom Studies for degree-seeking status.

Orientation and New Student Registration

Summer orientation offers a wide range of programs intended to introduce new students and their parents to the University; to acquaint them with the academic opportunities available to undergraduates; to aid them in their adjustment to campus living; to offer other information, discussion and academic advice; and to begin the process of becoming an active member of the Carolina community. New student orientation continues when students arrive in the fall with a variety of activities during the Week of Welcome.

All new first year students are required to attend orientation in the summer prior to their first semester. During the two-day summer orientation program, students meet and interact with faculty and staff, as well as many other new first year students. They attend a formal welcome, complete a foreign language placement exam, learn about the undergraduate curriculum, register for courses using the Web registration system and learn about the services and educational opportunities available to them.

Transfer Student Orientation

All new undergraduate students admitted as sophomore or junior transfers are encouraged to attend one of the summer orientation programs designed specifically for transfer students to learn about college life at Carolina.

During this one-day transfer orientation program (TSOP), new transfer students meet and interact with faculty, staff and other new transfer students. Students attend a formal welcome, learn about academic advising, learn about the services and educational opportunities, and, if applicable, complete a foreign language placement exam.

Transfer students should register for fall classes prior to summer orientation to increase the chance of finding open courses. Transfer students can use the Web registration system to register as soon as their deposit is paid and the personal identification number (PIN number) is generated.
ACADEMIC ORGANIZATION AND UNDERGRADUATE REQUIREMENTS:
GENERAL EDUCATION REQUIREMENTS

Office of Undergraduate Curricula
Jay M. Smith, Ph.D., Associate Dean
According to the policy that has been in effect since 1980, the Office of Undergraduate Curricula has primary responsibility for monitoring all curricular changes in the General College and the College of Arts and Sciences. This office receives and reviews all requests for new courses, course revisions, changes to degree programs and proposals for new minors, majors and curricula. The office also reviews all student petitions concerning the satisfaction of General Education requirements. Students can find the most current information regarding General Education requirements at the Office of Undergraduate Curricula Web site (www.unc.edu/depts/uc).

“Making Connections”
The General Education Curriculum
(Note: The requirements of the “Making Connections” curriculum apply only to students beginning undergraduate study in or after the fall semester of 2006. All students who entered the University, or completed substantial college course work elsewhere, before that date should consult the Undergraduate Bulletin published during their first year of college or University course work in order to find the General Education requirements that apply to them.)

Undergraduates at the University fulfill General Education requirements common to most fields of study in addition to the more specialized requirements of their own major fields. The General Education curriculum implemented in the fall of 2006 was the end product of a long process of curriculum review that brought about a major revision of the existing General Education requirements, last revised in 1980. The structure of the General Education requirements reflects not only the cyclical updating of curricular expectations – a process that takes place with each new generation – but also the faculty’s intent to make the entire General Education experience more integrated and meaningful for the University’s undergraduates. The University of North Carolina at Chapel Hill strives to cultivate the range of skills, knowledge, values and habits that will allow graduates to lead personally enriching and socially responsible lives as effective citizens of rapidly changing, richly diverse and increasingly interconnected local, national and worldwide communities.

To this end the curriculum seeks to provide for all students: (1) the fundamental skills that will facilitate future learning; (2) broad experience with the methods and results of the most widely employed approaches to knowledge; (3) a sense of how one might integrate these approaches to knowledge in ways that cross traditional disciplinary and spatial boundaries; and (4) a thorough grounding in one particular subject. The undergraduate major is dedicated to the last of these curricular objectives; the others fall under the purview of the General Education curriculum.

The “Making Connections” curriculum is divided into four broad categories that can be described as follows:
1) The faculty believe that General Education rests on certain foundational skills and knowledge, including the ability to commun-
the content and organization of their written work; in addition, students should expect to be graded on presentation, style, poise and diction, as well as on the content and organization of their oral presentations.

Students who wish to improve their writing can make appointments with a tutor in the Writing Center. This free, noncredit service is available to any member of the University community. Faculty members who identify weak writers should refer them to the Writing Center as early as possible in the semester to ensure maximum benefit from tutorial instruction. In cases that seem especially severe, faculty may recommend that a student attend tutorials at the Writing Center as a requirement for passing the course.

English Composition and Rhetoric

All students at the University must pass or gain exemption from ENGL 101 and ENGL 102. (Depending on their placement scores, honors students may satisfy the composition and rhetoric requirement by taking a first-year honors literature course: ENGL 135H/132H, CLAS 133H, GERM 190H, SLAV 198H, or ROML 229.) All of these courses develop the skills of writing, reasoning and argumentation, which are necessary to the entire educational endeavor. Students may prepare for these courses while in high school by taking courses in English composition and literature and speech communication beyond the four years of English required for admission to the University. Students who have had such preparation usually perform better in their classes than those who have not.

Placement in English composition is determined by the student’s score on the SAT I Verbal, the SAT II: Writing Subject Test, or the Advanced Placement Test in composition. Those who believe that their test scores do not accurately reflect their writing and speaking abilities may take a written and oral exam offered by the English Department. If placement scores or the exam indicate a need for instruction and practice in preparation for ENGL 101, students will pass the developmental course ENGL 100 before taking ENGL 101.

Regardless of placement, continuous enrollment is required until the series of English composition and rhetoric courses is completed. Any student whose native language is not English will be required to pass ENGL 101-102 like other students. However, that student will be permitted to waive, without credit, the foreign language requirement up to or through level 4. An authorized representative of the appropriate University department must confirm the student’s proficiency in the language up to that level for the waiver to be granted.

(Note on course listings: Be advised that the list of courses included under each of the General Education categories in this section of the Undergraduate Bulletin is not necessarily exhaustive. It is possible that courses were added to the lists after the Bulletin went to press.)

Courses that satisfy the English composition and rhetoric requirement:
- ENGL 101 [011]
- ENGL 102 [012]
- ENGL 102I
- Foreign Languages
The study of a foreign language enables students to see more clearly the nature and structure of their own language while gaining an understanding of a foreign culture.

Students should improve their language preparation by continuing their foreign language study through the senior year of high school. It is preferable that they complete four years of one high school language rather than, for example, taking two years each of two different languages.

Placement in a foreign language is determined by the student’s score on the College Board SAT II: Subject Test, the Advanced Placement Test in a foreign language (taken at the completion of language study in high school), or the appropriate placement test administered by the University during first-year orientation.

In the following statements, “high school foreign language” refers to the foreign language in which students received at least two years of instruction in grades 9-12.

Students whose foreign language placement is below level 4 of their high school foreign language and who wish to continue in this language must complete through level 3. Credit hours toward the 120-credit hour graduation requirement are not awarded for level 1, even if students place into level 1 (with the exception of Japanese). Grades earned in level 1 courses, however, are computed in the students’ grade point average and are used in all academic eligibility and academic load considerations.

Students who enroll in a foreign language other than their high school foreign language are required to complete through level 3. In this case, credit hours toward fulfilling the 120-credit hour graduation requirement are awarded for successful completion of level 1.

Students whose placement is level 4 of their high school foreign language and who wish to continue in that language must complete through level 4. Placement credit is awarded for level 3 upon successful completion of level 4. Students whose placement is beyond level 4 of their high school language have fulfilled the foreign language requirement and are awarded placement credit for levels 3 and 4.

Some undergraduate degree programs require the completion of foreign language courses beyond those needed to fulfill General Education requirements. Students should study the program requirements for their chosen course of study, and they are encouraged to meet with their academic advisors regularly to discuss the specific requirements of their programs.

The courses listed below may be used to satisfy the foreign language requirements:

- ARAB 101, 102, 203, 204
- BENG 101, 102, 203, 204
- BULG 401, 402, 403, 404
- CHIN 101, 102, 203, 204, 111, 212
- CZCH 401, 402, 403, 404
- DTCM 402, 403, 404
- FREN 101, 102, 102H, 105, 111, 203, 203H, 204, 204H, 401, 402
- GERM 101, 101H, 102, 102H, 203, 203H, 204, 204H
- GREEK 101, 102, 203, 204 (WB)
- HEBR 101, 102, 203, 204
- HNUR 101, 102, 203, 204
- HUNG 401, 402, 403, 404
- INDO 101, 102, 203, 204
- ITAL 101, 102, 203, 204, 401, 402
- JAPN 101, 102, 203, 204
- JWST 101, 203
- KOR 101, 102, 203, 204
- LATN 101, 102, 111, 203, 204 (LA, NA), 212
- MACD 401, 402, 403, 404
- FRSN 101, 102, 203, 204
- PLSH 401, 402, 403, 404
- PORT 101, 102, 111, 203, 204, 401, 402
- RELI (HEBR), 401, 402, 403, 404
- RUSS 101, 102, 203, 204
- SENC 402, 403
- SPAN 101, 102, 102H, 103, 104, 105, 203, 203H, 204, 204H, 212, 401, 402
- SWAH 401, 402, 403, 404
- TAML 101, 102, 203, 204
- THAI 101, 102, 203, 204
- VIET 101, 102, 203, 204
- WOLO 101, 102, 203

Quantitative Reasoning

Through the study of quantitative reasoning and methods, students acquire and reinforce the ability to use analytic and quantitative ideas in both theoretical and applied contexts. In today’s world of fast-paced scientific and technological advances, the importance of such skills cannot be overstated.

Students should prepare by taking precalculus and/or calculus in high school and by continuing their mathematical studies up through their senior year of high school. Not doing so may put them at a disadvantage when they arrive at the University.

Students may satisfy the quantitative reasoning requirement either by receiving Advanced Placement credit (AB or BC) for MATH 231 or 232 (calculus courses) or by taking one course from those listed below. Note that MATH 152 and MATH 130 have a prerequisite of MATH 110 (Algebra) or a placement score beyond MATH 110 on the College Board SAT I: Mathematics Subject Test I or II. Students whose placement scores indicate a weakness in basic algebra skills may take MATH 100, a review course in high school algebra. MATH 100 carries three credit hours for purposes of determining a student’s GPA, eligibility, or financial aid status, but does not count toward the 120 academic hours required for graduation.

Students should be aware that some undergraduate degree programs require completion of specific mathematical sciences courses beyond those needed to fulfill General Education requirements. Students should study the program requirements for their chosen course of study, and they are encouraged to meet with their academic advisors regularly to discuss their progress toward graduation.

Courses that satisfy the quantitative reasoning requirement:

- COMP 110 [014]
- COMP 121 [015]
- COMP 116 [016]
- COMP 416 [117]
- MATH 116 [016]
- MATH 117 [017]
- MATH 118 [018]
- MATH 119 [019]
- MATH 130 [030] (prerequisite, MATH 110 or its equivalent)
- MATH 152 [022] (prerequisite, MATH 110 or its equivalent)
- MATH 231 [031]
- MATH 232 [032] (prerequisite, MATH 231)
- PHIL 105 [021]
- PHIL 155H [021H]
- PHIL 356 [071]
Lifetime Fitness

Lifetime fitness courses (PHYA 100-199) combine the practice of a sport or physical activity that can be sustained in later life with broader instruction in lifelong health. These courses carry one hour of academic credit and can be taken on a pass/fail basis. No more than two Lifetime Fitness courses can count toward the 120 hours needed for graduation. (Note that, beginning in the spring semester of 2008, Lifetime Fitness courses will be identified in the online course directory by the abbreviation LFT.)

Courses that satisfy the lifetime fitness requirement:

- PHYA 102
- PHYA 103
- PHYA 104
- PHYA 105
- PHYA 106
- PHYA 107
- PHYA 108
- PHYA 109
- PHYA 110
- PHYA 111
- PHYA 112
- PHYA 113

Approaches

Physical and Life Sciences

Students must take two courses, at least one of which has a required laboratory component (lab science courses normally constitute four hours of credit). All courses in this category emphasize a physical science, a life science, the scientific basis of technology, or a combination of these topics. Students who have exceeded their minimum high school science requirement are at an advantage in the University's science courses.

Courses that satisfy the physical and life sciences requirement:

- ANTH 143 [043]
- ANTH 148 [048]
- ANTH 315 [115]
- ANTH 318
- ANTH 412 [112]
- ANTH 437
- ASTR 061 [006G] (NA, WB)
- ASTR 063 [006D] (QI)
- BIOL 053 [006D]
- BIOL 055
- BIOL 057
- BIOL 101H [011H]
- BIOL 113 [010]
- BIOL 159 [009]
- BIOL 201 [054] (QI)
- BIOL 201H [054H] (QI)
- BIOL 202 [050]
- BIOL 251 [044]
- BIOL 262 [064] (GL)
- BIOL 276 [063]
- BIOL 278 [073]
- BIOL 279 [097]
- BIOL 290 [096]
- BIOL 457 [148]
- BIOL 657 [140]
- CHEM 070 [006D]
- CHEM 200 [015]
- CHEM 201 [016]

Social and Behavioral Sciences

Students must take three courses from at least two different departments; at least one of the three courses must engage in historical analysis. Courses in social and behavioral sciences focus on the scientific study of individual or collective behavior. They consider the various dimensions of individual behavior, the family, society, culture, politics and the economy.
Courses that satisfy the social and behavioral sciences requirement:

<table>
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Humanities and Fine Arts

The humanities and fine arts explore enduring issues of the human condition and develop and encourage the means of communicating, representing and expressing the varieties of human experience. Students must take three courses, including one in philosophical and moral reasoning, one in literary arts and one in the visual and performing arts.

Courses that satisfy the humanities and fine arts requirements:

**Philosophical and Moral Reasoning**

AFAM 428 [128]
AMST 055 (Cl, NA, US)
AMST 291 [061] (NA)
ANTH 146 [046]
ANTH 438 [138]
ANTH 438H [138H]
ASIA 055 (BN)
COMM 270 [070]
COMM 374 [074] (CI, NA, US)
COMM 375 [075] (CI)
COMM 450 [150]
COMM 470 [113] (NA)
COMP 180 [096]
ECON 234 [059]
ENGL 051 [006F]

**Religion**

REL 209H [061H] (NA, WB)
REL 209I [061I] (NA, WB)
REL 217 [052] (WB)
REL 239 [085] (GL, NA)
REL 241 [073] (NA)
REL 244 [081] (NA)
REL 237 [075] (NA, WB)
REL 340 [071] (NA)
REL 341 [072] (NA)
REL 350 [091] (GL, NA)
REL 382 [122] (BN, WB)
REL 383 [173] (BN, WB)
SLAV 251 [094A] (GL)
SOCI 257 [090] (NA)
WMST 242 [042] (NA, WB)
WMST 244 [083]
WMST 245 [045] (BN)
WMST 253 [053] (NA)
WMST 258 [058] (NA, WB)
WMST 259 [059] (NA)
WMST 264 [060] (BN)
WMST 278 [078] (CI, EE)
WMST 280 [080] (BN)
WMST 293 [093] (NA)
WMST 326 [062] (NA)
WMST 370 [070] (NA, US)
WMST 375 [075] (NA, US)
WMST 458 [158] (WB)
WMST 479 [079] (NA)
WMST 537 [195] (BN)
WMST 568 [168] (NA)
WMST 569 [169] (NA)
WMST 576 [151A] (NA)

**Philosophy**

PHIL 060
PHIL 065
PHIL 075
PHIL 076
PHIL 078
PHIL 100 [020]
PHIL 101 [020]
PHIL 110 [024]
PHIL 112 [026]
PHIL 134 [032]
PHIL 134H [032H]
PHIL 145 [035]
PHIL 160 [022]
PHIL 160H [022H]
PHIL 163 [030]
PHIL 164 [039]
PHIL 165 [034]
PHIL 165H [034H]
PHIL 170 [037]
PHIL 185 [033]
PHIL 266 [047]
PHIL 272 [042]
PHIL 273 [066]
PHIL 275 [046] (US)
PHIL 280 [041]
PHIL 360 [070]
PHIL 362 [072]
PHIL 364 [067]
PHIL 368 [068]
PHIL 370 [078]
PHIL 460 [102]
PHIL 462 [112]
PHIL 470 [105]
PHIL 476 [130]
PHIL 480 [113]
PLCY 240
PLCY 364 [068]
POLI 051 [067F] (NA, US)
POLI 056 (NA, US)
POLI 206 [047] (EE, NA, US)
POLI 206H [047H (EE, NA, US)
POLI 219 [076] (EE, NA)
POLI 265 [075] (CI, NA)
POLI 270 [063] (NA, WB)
POLI 270H [063H] (NA, WB)
POLI 271 [064] (NA)
POLI 271H [064H] (CI, NA)
POLI 272 [068]
POLI 273 [069]
POLI 274 [065]
POLI 276 [061] (NA)
POLI 276H [061H] (NA)
POLI 280 [062] (NA, US)
POLI 280H [062H] (NA, US)
POLI 414 [151] (NA, US)
POLI 415 [159] (NA)
POLI 432 [113] (CI, NA)
POLI 449 [141] (GL)
POLI 470 [161] (NA)
POLI 473 (NA)
POLI 475 [163] (NA)
POLI 477 [164] (CI, NA)
POLI 477 [164] (CI, NA)

**Political Science**

PWAD 272 [068]
REL 064 [066] (BN, GL)
REL 122 [035]
REL 122H [035H]
REL 125
REL 126 [032]
REL 134 [037]
REL 134H [037H]
REL 135 [088]
REL 166 [043]
REL 166H [043H]
REL 207 [058] (NA, WB)
REL 421
REL 435 [130]
REL 617 [129] (WB)
SOCI 114 [014]
SOCI 250 [050] (EE)
SOCI 273 [068]
WMST 219 [076] (EE, NA)
WMST 265 [067] (CI, NA)
WMST 275 [046] (US)
WMST 477 [164] (CI, NA)

**Literary Arts**

AFRI 262 [062] (BN)
AMST 052 (US)
AMST 201 [040] (NA, US)
AMST 256 [056] (NA)
AMST 257 [057] (CI, NA)
AMST 258 [058] (NA, US)
AMST 266 [066] (NA, US)
AMST 290 [060] (NA)
AMST 313 [076] (NA)
AMST 335 [035H] (NA, US)
AMST 393 [085] (NA)
AMST 685 (NA)
ARAB 150 [035] (BN, CI)
ARAB 151 (BN)
ARAB 433 [133] (BN, WB)
ARAB 434 [134] (BN)
ASIA 052 (BN)
ASIA 053 (BN)
ASIA 056 (BN)
ASIA 147 (GL, BN)
ASIA 151 [031] (BN)
ASIA 152 (BN, WB)
ASIA 161 [070] (BN, WB)
ASIA 380 [080]
ASIA 451 [140] (GL, NA)
ASIA 452 [141] (GL, NA)
ASIA 481 [181]
ASIA 483 [183] (BN)
ASIA 486 [186]
BULG 411 [111]
CHIC 252 [051] (BN, WB)
CHIC 407 [112] (BN)
CHIC 408 [113] (BN)
CHIC 451 [133] (BN)
CHIC 452 [134] (BN)
CHIC 551 [144] (BN)
| ART 271 [057] (NA, WB) | DRAM 131 [153] (CI) | MUSC 142 [042] (NA) | RELI 512 [111] (BN, WB) |
| ART 274 [090] (NA, WB) | DRAM 192 [064] (EE) | MUSC 144 [044] (NA, US) | VIET 252 [051] (BN) |
| ART 283 [045] (CI, NA) | DRAM 260 (EE) | MUSC 146 [046] (BN) | WMST 231 [131] (US) |
| ART 287 [040] (NA) | DRAM 281 [081] (CI, NA, WB) | MUSC 188 [048] (GL, NA) | WMST 250 [044] (NA) |
| ART 303 [066A] | DRAM 283 [083] (CI, NA) | MUSC 251 [051] (WB) | WMST 254 [064] (CI, NA) |
| ART 305 [079] | DRAM 287 (CI) | MUSC 286 [086] | WMST 285 [085] |
| ART 313 [066B] | DRAM 331 [157] | MUSC 289 (NA) | WMST 656 [143] |
| ART 314 [084] | DRAM 450 [150] (CI, NA) | MUSC 390H (CI) | WMST 665 [152] (NA) |
| ART 324 [014] | DRAM 450H [150H] (CI, NA) | RELI 235 [053] | WMST 666 [180] (NA) |
| ART 328 [067C] | DRAM 466 [166] | RELI 236 [087] (NA) | |
| ART 338 [067A] | DRAM 467 [167] | | |
| ART 348 [067B] | DRAM 468 [168] | | |
| ART 351 [062] (WB) | DRAM 477 [177] | | |
| ART 353 (CI, BN) | DRAM 480 [185] (NA) | | |
| ART 370 (NA) | DRAM 486 [086] (BN, CI) | | |
| ART 387 [073] (NA) | DRAM 488 (CI) | | |
| ART 428 [047] | ENGL 050 [006E] (CI, EE) | | |
| ART 465 [191] (NA, WB) | ENGL 055 | | |
| ART 551 (NA) | ENGL 058 (NA, US) | | |
| ASIA 054 (BN) | ENGL 061 (NA) | | |
| ASIA 153 [022] (BN, WB) | ENGL 142 [042] | | |
| ASIA 154 (BN, WB) | ENGL 142H [042H] | | |
| ASIA 162 [040] (BN, CL) | ENGL 143 (GL) | | |
| ASIA 242 [042] (BN) | ENGL 280 (NA) | | |
| ASIA 252 [062] (BN) | ENGL 351 [095] (NA) | | |
| ASIA 266 [068] (BN, WB) | ENGL 380 | | |
| ASIA 273 [067] (BN, WB) | ENGL 380H | | |
| ASIA 379 [079] | ENGL 381 [142] | | |
| ASIA 586 [196] (BN) | ENGL 580 | | |
| CHIN 354 [052] (BN) | ENGL 580H | | |
| CHIN 361 [053] (BN, WB) | ENGL 583 [046A] (EE) | | |
| CHIN 544 [148] (BN) | ENGL 587 [187] (NA) | | |
| CLAR 246 [051] (WB) | ENGL 665 [155] (NA, US) | | |
| CLAR 282 [077] (NA) | ENGL 666 [180] (NA, US) | | |
| CLAR 445 [148] (WB) | ENGL 680 (CI) | | |
| CLAR 448 [149A] (WB) | EXSS 193 [093] | | |
| CLAR 449 [149B] (EE) | FOLK 334 [134] | | |
| CLAR 465 [191] (NA, WB) | FOLK 488 (NA) | | |
| CLAR 512 [110] (BN, WB) | FOLK 550 [148] | | |
| CLAR 561 [182] (BN) | FOLK 587 [187] (NA) | | |
| CLAS 059 (NA) | FREN 332H (FI, NA) | | |
| CLAS 064 [006K] | GERM 052 | | |
| CMPL 252 [062] (BN) | GERM 210 [052] (NA, WB) | | |
| CMPL 379 [094] | GERM 250 [044] (NA) | | |
| COMM 131 [030] (CI) | GERM 265 [062] (NA) | | |
| COMM 140 [041] | GERM 275 (NA) | | |
| COMM 162 [062] | HNRS 356 [027] | | |
| COMM 275 (NA) | INTS 252 [062] (BN) | | |
| COMM 452 (CI, NA) | JAPN 161 (BN) | | |
| COMM 656 [156] | JAPN 261 [085] (BN) | | |
| COMM 658 [158] (BN) | JWST 512 [111] (BN, WB) | | |
| DRAM 080 [066K] (CI) | MUSC 054 (CI) | | |
| DRAM 081 (CI, NA) | MUSC 121 [021] | | |
| DRAM 116 [016] | MUSC 131 [031] (QI) | | |
| DRAM 116H [016H] | MUSC 131H [031H] (QI) | | |
| DRAM 120 [020] (CI, NA) | MUSC 141 [041] (NA) | | |
| DRAM 120H [020H] (CI, NA) | | | |

**Connections**

Courses that satisfy a Connections requirement may also satisfy one of the Approaches requirements, other Connections requirements, or a requirement in the student's major and/or minor fields.

**Foundational Connections**

**Communication Intensive**

One course is required. Communication intensive courses integrate written work, oral presentation and processes of revision into the course subject matter in substantive and important ways. They build on and enhance skills acquired in composition and rhetoric classes.

Courses that satisfy the communication intensive requirement:

- AMST 050 (NA, US, VP)
- AMST 051 (EE, NA, SS)
- AMST 055 (NA, PH, US)
- AMST 257 [057] (LA, NA)
- AMST 259 [059] (HS, NA, US)
- AMST 269 [069] (HS, NA, US)
- AMST 275 (EE, NA, SS)
- AMST 285 [064] (EE, NA, SS)
- AMST 394 [094] (EE, NA, SS, US)
- ANTH 278 [078] (EE, HS)
- ANTH 428H [142H] (SS)
- ANTH 439 (GL, SS)
- ANTH 447 [147] (GL, SS)
- ANTH 447H [147H] (GL, SS)
- ANTH 462 (GL)
- ANTH 465 [165] (GL, SS)
- ANTH 567 [167] (GL, SS)
- ANTH 578 [178] (BN, GL, SS)
- ANTH 675 [175] (SS)
- ANTH 686 [186] (SS, US)
- ARAB 150 [033] (BN, LA)
- ART 058 (VP)
- ART 064 (NA, VP)
- ART 254 [064] (NA, VP)
- ART 275 (007) (NA, VP)
- ART 283 [045] (NA, VP)
- ART 353 (VF, BN)
- ASIA 578 [178] (BN, GL, SS)
- BIOL 424 [115]
Quantitative Intensive

One course is required. Quantitative intensive courses focus especially on the ways that quantitative reasoning can be applied within particular fields. They involve modeling and problem solving, numerical reasoning, the collection and interpretation of quantitative data, mathematical analysis, the application of formal logic and proofs, or some combination of these. The requirement can be satisfied by taking one course from the list below or by taking a second quantitative reasoning course from the list of approved courses in that category.

Courses that satisfy the quantitative intensive requirement:

- ASTR 063 [006D] (PL)
- ASTR 291 [091]
- ASTR 391 [092]
- BIOI 201 [054] (PL)
- BIOI 201H [054H] (PL)
- BIOI 452 [170]
- COMP 066
- COMP 355 [181]
- ECON 400 [070]
- ECON 570 [170] (SS)
- EDUC 307 [067]
- ENST 222 [054] (PL)
- EXSS 273 [073]
- GEOL 509 [165]
- GEOL 510 [164]
- GEOL 512 [145]
- GEOL 655 [146] (EE)
- JOMC 279 [179]
- LING 333 (SS)
- MASC 470 [154] (PL)
- MASC 553 [145]
- MASC 561 [153] (PL)
- MASC 562 [155] (PL)
- MATH 050 [006F]
- MATH 051
- MATH 052
- MATH 053
- MATH 054
- MATH 055
- MATH 056
- MATH 057
- MATH 058
- MATH 059
- MATH 060
- MATH 061
- MATH 062
- MATH 063
- MATH 064
- MATH 065
- MATH 066
- MATH 233 [033] (prerequisite, MATH 232)
- MATH 233H [033A] (prerequisite, MATH 232)
- MASC 130 [026] (PL)
- MASC 131 [031] (VP)
- PHIL 065
- PHYS 071 (PL)
- PHYS 104 [024] (PL)
- PHYS 105 [025] (PL)
- PHYS 116 [026] (PL)
- PHYS 116H [026A] (PL)
- PHYS 117 [027] (PL)
- PHYS 117H [027A] (PL)
Spatial and Cultural Connections

Experiential Education

One course or credit-bearing activity is required. Experiential education courses connect academic inquiry with a structured, active learning experience in which students exercise initiative and apply academic knowledge in various real-world contexts (geographic, social, cultural, etc.). Students may satisfy the experiential education requirement in a number of ways. They may take undergraduate research or APPLES service-learning courses; take a course with a substantial fieldwork component; participate in a University-approved study abroad program; complete an academically administered internship; or participate in a community- or audience-oriented creative activity. Please see Study Abroad for more Experiential Education opportunities.

Courses that satisfy the experiential education requirement:

- AFAM 490
- AFAM 560 (HS)
- AMST 051 (CI, NA, SS)
- AMST 275 (CI, NA, SS)
- AMST 285 [064] (CI, NA, SS)
- AMST 394 [094] (CI, NA, SS, US)
- AMST 397 [099]
- ANTH 092 [086A] (SS, US)
- ANTH 093 [086B] (SS, US)
- ANTH 248 [148] (SS)
- ANTH 278 [078] (CI, HS)
- ANTH 285 (SS, US)
- ANTH 393 [093]
- ANTH 395 [099F]
- ANTH 451 [151] (HS, NA, WB)
- ANTH 453 [153] (BN, HS, WB)
- ANTH 599 (SS, US)
- ANTH 688 [188] (SS)
- APPL 698 [199]
- BIOL 274 [051] (PL)
- BIOL 277L [072L]
- BIOL 293
- BIOL 295
- BIOL 395 [098A]
- BIOL 463 [147]
- BIOL 555 [181]
- BIOL 564L [149L]
- BIOL 661 [142]
- CHEM 395 [099]
- CLAR 449 [149B] (VP)
- CLAR 650 [153]
- COMM 466 [166] (LA)
- COMP 192 [092]
- DRAM 191 [064A]
- DRAM 192 [064] (VP)
- DRAM 193 [066]
- DRAM 195 [065]
- DRAM 260 (VP)
- DRAM 395 [194]
- DRAM 490 [190] (CI)
- DRAM 495 [101]
- DRAM 691H [099]
- ECON 385 [091] (CI, NA, SS)
- ENGL 050 [006E] (CI, VP)
- ENGL 064 (LA, NA)
- ENGL 583 [046A] (VP)
- ENGL 691H [097]
- ENGL 692H [098]
- ENGL 693H [099A]
- ENGL 694H [099B]
- ENST 207
- ENST 479
- EXSS 207
- EXSS 271 [071]
- EXSS 694H
- FOLK 688 [288] (SS)
- FOLK 691 [095]
- FOLK 692 [096]
- GEOG 053 (PL)
- GEOG 419 [119]
- GEOL 555 [197]
- GEOL 555 [146] (QL)
- HIST 391 [000E] (CI)
- HIST 392 [000M] (CI)
- HIST 393 [090N] (CI)
- HIST 394 [090T] (CI)
- HIST 395 [090U] (CI)
- HIST 397 [090Z] (CI)
- HIST 691 [098A] (CI, HS)
- HIST 692 [098B] (CI, HS)
- JOMC 232 [132]
- JOMC 394 [055]
- LTAM 512 [161]
- MASC 472 [138] (PL)
- MUSC 296 [098]
- MUSC 300
- MUSC 302
- MUSC 303
- MUSC 304
- MUSC 305
- MUSC 306
- MUSC 471 [171]
- MUSC 691H [099]
- PLCY 295 [190]
- PLCY 320 [090P]
- PLCY 325 [090]
- PLCY 691H (CI)
- PLCY 692H (CI)
- POLI 196 [099]
- POLI 197
- POLI 206 [047] (NA, PH, US)
- POLI 206H [047H] (NA, PH, US)
- POLI 214 [096]
- POLI 219 [076] (NA, PH)
- POLI 295 [190]
- PSYC 395 [098]
- PSYC 403 [107] (PL)
- PSYC 470 (PL)
- PSYC 502 [141] (SS)
- PSYC 506 [152] (SS)
- PSYC 509 [109] (SS)
- PSYC 693H [099A] (CI, SS)
- PSYC 694H [099B] (CI, SS)
- RELI 688 [288] (SS)
- SOCI 122 [022] (SS, US)
- SOCI 250 (PH)
- SOCI 423 [123] (SS)
- SPAN 293 [093]
- WMST 219 [076] (NA, PH)
- WMST 278 [078] (CI, HS)
- WMST 385 [091] (CI, NA, SS)
- WMST 391 [190]
- WMST 420

U.S. Diversity

One course is required. Courses in U.S. diversity help students develop a greater understanding of diverse peoples and cultures within the United States and thereby enhance their ability to fulfill the obligations of U.S. citizenship. These courses address in systematic fashion one or more aspects of diversity in the United States, whether arising from ethnic, generational, class, gender, sexual, regional or religious differences.

Courses that satisfy the U.S. diversity requirement:

- AFAM 050 [006E] (SS)
- AFAM 051 [006K] (VP)
- AFAM 102 (HS)
- AFAM 252 [052]
- AFAM 274 [055]
- AFAM 294 [096] (HS)
- AFAM 610 [180]
- AMST 050 (CI, NA, VP)
- AMST 052 (LA)
- AMST 054 (HS, NA, WB)
- AMST 055 (CI, NA, PH)
- AMST 056 (HS, NA)
- AMST 110 [010] (HS, NA)
- AMST 201 [040] (LA, NA)
- AMST 231 [072A] (HS, NA)
- AMST 234 [072D] (HS, NA)
- AMST 255 (HS, NA)
- AMST 258 [098] (LA, NA)
- AMST 259 [099] (CI, HS, NA)
- AMST 266 [066] (LA, NA)
- AMST 269 [096] (CI, HS, NA)
- AMST 335 [035H] (LA, NA)
- AMST 336 [070] (NA, VP)
- AMST 375 [075] (NA, SS)
- AMST 384 [084] (HS, NA)
- AMST 394 [094] (CI, EE, NA, SS)
- AMST 486 (HS, NA)
- ANTH 054 (HS, NA, WB)
- ANTH 092 [086A] (EE, SS)
- ANTH 093 [086B] (EE, SS)
- ANTH 194
- ANTH 234 [072D] (HS, NA)
- ANTH 285 (EE, SS)
- ANTH 340 [040] (SS)
- ANTH 484 [184] (SS)
- ANTH 599 (EE, SS)
- ANTH 686 [186] (CI, SS)
- ASIA 350 [089] (HS, NA)
- ASIA 445 [153] (GL)
- ENGL 058 (NA, VP)
- ENGL 129 [022] (LA, NA)
- ENGL 140 [022Q] (LA)
- ENGL 246 (LA, NA)
- ENGL 262 (LA)
- ENGL 262 (LA)
- ENGL 262 (LA)
- ENGL 265 [090C] (GL, LA, NA)
PHIL 274H [055H]
PHIL 275 [046] (PH)
PHIL 473 [160]
PHIL 475 [165]
PLCY 249 [049] (NA, SS)
POLI 051 [006F] (NA, PH)
POLI 056 [NA, PH]
POLI 206 [047] (EE, NA, PH)
POLI 206H [047H] (EE, NA, PH)
POLI 217 [072] (SS)
POLI 280 [062] (NA, PH)
POLI 280H [062H] (NA, PH)
POLI 414 [151] (NA, PH)
POLI 419H [171H] (SS)
RECR 475 (SS)
RELI 060 [006E] (CL, SS)
RELI 140 [029] (HS, NA)
RELI 140H [029H] (HS, NA)
RELI 423 [156]
RELI 445 [155] (GL)
SOCI 056 (SS)
SOCI 122 [022] (EE, SS)
WMST 101 [050] (SS)
WMST 140 [022Q] (LA)
WMST 217 [072] (SS)
WMST 231 [131] (VP)
WMST 275 [046] (PH)
WMST 297 [097] (GL, LA)
WMST 368 [068] (NA, SS)
WMST 370 [070] (HS, NA)
WMST 375 [075] (HS, NA)
WMST 475 [165]
AMST 335 [035H] (LA, US)
AMST 336 [070] (US, VP)
AMST 375 [075] (SS, US)
AMST 384 [084] (HS, US)
AMST 390 [080] (HS)
AMST 393 [085] (LA)
AMST 394 [094] (CL, EE, SS, US)
AMST 482 [082] (HS)
AMST 486 (HS, US)
AMST 499 [150] (VP)
AMST 685 (LA)
ANTH 054 (HS, US, WB)
ANTH 230 [130] (SS)
ANTH 234 [092] (BS, US)
ANTH 342 [090] (SS)
ANTH 350 [150] (HS, WB)
ANTH 377 [177] (HS, WB)
ANTH 451 [151] (EE, HS, WB)
ANTH 585 [185] (GL, SS)
ART 064 (CL, VP)
ART 254 [064] (CL, VP)
ART 259 (VP)
ART 262 [077] (VP)
ART 264 [052] (VP)
ART 270 [056] (VP, WB)
ART 271 [057] (VP, WB)
ART 274 [050] (VP, WB)
ART 275 [070] (CI, VP)
ART 283 [045] (CI, VP)
ART 287 [040] (VP)
ART 370 (VP)
ART 387 [073] (VP)
ART 464 [190] (HS, WB)
ART 551 (VP)
ASIA 051 [006F]
ASIA 350 [089] (HS, US)
ASIA 451 [140] (GL, LA)
ASIA 452 [141] (CI, LA)
ASIA 455
ASTR 061 [006C] (PL, WB)
CLAR 120 [020] (GL, HS, WB)
CLAR 243 [041] (GL, HS, WB)
CLAR 244 [049] (HS, WB)
CLAR 245 [060] (HS, WB)
CLAR 262 [077] (VP)
CLAR 375 [075] (HS, WB)
CLAR 464 [190] (HS, WB)
CLAR 465 [191] (VP, WB)
CLAR 475 [192] (GL, HS, WB)
CLAS 053 [006M] (LA, WB)
CLAS 055 (LA, WB)
CLAS 056 (LA, WB)
CLAS 057 (LA, WB)
CLAS 058 (LA, WB)
CLAS 069 (VP)
CLAS 121 [020] (LA, WB)
CLAS 122 [021] (HS, WB)
CLAS 240 [051] (LA, WB)
CLAS 240H [051A] (LA, WB)
CLAS 242 [042] (HS, WB)
CLAS 257 [035] (LA, WB)
CLAS 258 [036] (LA, WB)
CLAS 259 [037] (LA, WB)
CLAS 269 [069] (LA)
CLAS 363 [063] (LA, WB)
CLAS 364 [064] (LA, WB)
CLAS 409 [109] (LA, WB)
CLAS 547 [147] (LA, WB)
CMPL 121 [021] (LA, WB)
CMPL 121H [021H] (LA, WB)
CMPL 122 [022] (LA, WB)
CMPL 250 [050] (CI, LA)
CMPL 251 [051] (CI, LA)
CMPL 269 [069] (LA)
CMPL 364 [064] (LA, WB)
CMPL 373 [096] (LA)
CMPL 383 [038H] (LA)
CMPL 385 [090] (LA)
CMPL 392 [092] (LA)
CMPL 393 [093] (LA)
CMPL 450 [150] (LA)
CMPL 452 [170] (LA, WB)
CMPL 454 [172] (WB)
CMPL 456 [174] (LA)
CMPL 458 [173] (LA)
CMPL 460 [175] (LA)
CMPL 462 [176] (LA)
CMPL 464 [177] (LA)
CMPL 466 [178] (LA)
CMPL 468 [181] (LA)
CMPL 470 [180] (LA, WB)
CMPL 472 [184] (LA)
CMPL 476 [191] (LA, WB)
CMPL 485 [185] (LA)
CMPL 487 [190] (LA, WB)
CMPL 492 [192] (LA)
CMPL 685 [179] (LA)
COMM 275 (VP)
COMM 374 [074] (CL, PH, US)
COMM 426 [117] (SS)
COMM 452 (CL, VP)
COMM 470 [113] (PH)
DRAM 081 (CI, VP)
DRAM 115 [015] (LA)
DRAM 115H [015H] (LA)
DRAM 120 [020] (CI, VP)
DRAM 120H [020H] (CI, VP)
DRAM 281 [081] (CI, VP, WB)
DRAM 282 [082] (CI, LA)
DRAM 283 [083] (CI, VP)
DRAM 285 (CI, LA)
DRAM 450 [150] (CI, VP)
DRAM 450H [150H] (CI, VP)
DRAM 470 [170] (HS)
DRAM 470H [170H] (HS)
DRAM 486 [185] (VP)

North Atlantic World

One course is required. Courses that treat the North Atlantic world provide a grounding in the history, culture, geography and social institutions of the region that is the place of origin and eventual home of most UNC students.

Courses that satisfy the North Atlantic world requirement:
AFAM 287 [045] (VP)
AFAM 342 [090] (SS)
AFAM 371 [074] (GL, HS)
AFAM 387 [077] (VP)
AFAM 580 [091] (GL, HS)
AMST 050 [CI, US, VP]
AMST 051 [CI, EE, SS]
AMST 053 (HS)
AMST 054 (HS, US, WB)
AMST 055 (CI, PH, US)
AMST 056 (HS, US)
AMST 101 [020] (HS)
AMST 110 [010] (HS, US)
AMST 201 [040] (LA, US)
AMST 202 (HS)
AMST 231 [072A] (HS, US)
AMST 233 [072C] (HS)
AMST 234 [072D] (HS, US)
AMST 235 [072E] (HS)
AMST 253 [053] (HS)
AMST 255 (HS, US)
AMST 256 [056] (LA)
AMST 257 [057] (CI, LA)
AMST 258 [058] (LA, US)
AMST 259 [059] (CI, HS, US)
AMST 266 [066] (LA, US)
AMST 268 [068] (VP)
AMST 269 [069] (CI, HS, US)
AMST 275 (CI, EE, SS)
AMST 277 [077] (GL, HS)
AMST 285 [064] (CI, EE, SS)
AMST 290 [060] (LA)
AMST 291 [061] (PH)
AMST 292 [062] (HS)
AMST 313 [076] (LA)
AMST 334 [034H] (HS)
DTCH 405 (LA, FL)  
ECON 385 [091] (CL, EE)  
ENGL 053 [006N] (LA)  
ENGL 054 (GL, LA)  
ENGL 058 (US, VP)  
ENGL 061 (VP)  
ENGL 062 (LA)  
ENGL 064 (EE, LA)  
ENGL 066 (LA)  
ENGL 068 (LA)  
ENGL 070 (LA)  
ENGL 073 (LA)  
ENGL 074 (LA, WB)  
ENGL 120 [020] (LA, WB)  
ENGL 121 [021] (LA)  
ENGL 122 (LA)  
ENGL 128 [028] (LA)  
ENGL 129 [022] (LA, US)  
ENGL 225 [058] (LA, WB)  
ENGL 225H [058H] (LA, WB)  
ENGL 226 [045] (LA, WB)  
ENGL 226H [045H] (LA, WB)  
ENGL 227 [054] (LA, WB)  
ENGL 227H [054H] (LA, WB)  
ENGL 228 [060] (LA, WB)  
ENGL 228H [060H] (LA, WB)  
ENGL 229 [049B] (LA, WB)  
ENGL 230 [064] (LA, WB)  
ENGL 230H [064H] (LA, WB)  
ENGL 246 (LA, US)  
ENGL 261 [090] (LA)  
ENGL 261H [090H] (LA)  
ENGL 265 [090C] (CL, LA, US)  
ENGL 265H (GL, LA, US)  
ENGL 278 (LA)  
ENGL 279 (LA)  
ENGL 280 (VP)  
ENGL 284 [039B] (LA)  
ENGL 285 (LA, WB)  
ENGL 286 (LA)  
ENGL 287 [091C] (LA)  
ENGL 288 (LA)  
ENGL 289 [049] (LA)  
ENGL 319 [051] (LA, WB)  
ENGL 319H (LA, WB)  
ENGL 320 [052] (LA, WB)  
ENGL 320H [052H] (LA, WB)  
ENGL 321H (LA, WB)  
ENGL 322 (LA, WB)  
ENGL 322H (LA, WB)  
ENGL 325 (LA, WB)  
ENGL 326 (LA, WB)  
ENGL 327 (LA, WB)  
ENGL 328 (LA, WB)  
ENGL 330 (LA)  
ENGL 331 [066] (LA, WB)  
ENGL 331H [066H] (LA, WB)  
ENGL 332 [065] (LA, WB)  
ENGL 332H [065H] (LA, WB)  
ENGL 333 [043] (LA, WB)  
ENGL 333H [043H] (LA, WB)  
ENGL 446H [086H] (LA)  
GERM 220 [066] (LA, WB)  
GERM 245 [050] (PH)  
GERM 246 [055] (LA, PH)  
GERM 250 [044] (VP)  
GERM 255 [060] (CL, HS)  
GERM 265 [062] (VP)  
GERM 270 [061] (GL, HS)  
GERM 275 (VP)  
GERM 280 (PH)  
GERM 290 [046] (LA)  
GERM 291 [048]  
GERM 292 [047]  
GERM 301 [011] (CL)  
GERM 302 [022] (CL)  
GERM 303 [021] (CL, LA)  
GERM 304 [023]  
GERM 305 [024]  
GERM 310 [085] (CL, LA, WB)  
GERM 311 [087] (HS, WB)  
GERM 330 [070] (LA)  
GERM 349 [073] (LA)  
GERM 350 [071] (LA)  
GERM 370 [076] (PH)  
GERM 371 [080] (LA)  
GERM 372 [081] (LA)  
GERM 373 [082] (LA)  
GERM 380 [074] (LA)  
GERM 381 [086] (LA)  
GERM 382 (LA, FI)  
GERM 388 [096]  
GERM 390 [095] (LA)  
GERM 391 [093]  
GERM 392 [092]  
HIST 050 [006G] (HS, WB)  
HIST 054 (HS)  
HIST 055  
HIST 056 (HS)  
HIST 057 (HS)  
HIST 058 (HS)  
HIST 063 (HS)  
HIST 065 (HS)  
HIST 106 [014] (HS, WB)  
HIST 107 [015] (HS, WB)  
HIST 110 [010] (HS, US)  
HIST 127 [021] (HS, US)  
HIST 128 [022] (HS)  
HIST 151 [011] (HS, WB)  
HIST 152 [012] (CL, HS)  
HIST 156 [027] (HS, WB)  
HIST 157 [028] (HS)  
HIST 158 [016] (HS, WB)  
HIST 159 [017] (HS)  
HIST 177H [047H] (HS, WB)  
HIST 178H [048H] (HS)  
HIST 179H [049H] (HS)  
HIST 225 [052] (HS, WB)  
HIST 226 [053] (HS, WB)  
HIST 231 [072A] (HS, US)  
HIST 232 [072B] (HS, US)  
HIST 233 [072C] (HS)
Beyond the North Atlantic World

One course is required. Courses in this category introduce students to the history, culture, geography and social institutions of one or more regions that lie beyond the North Atlantic - specifically, Asia, Africa, the Middle East, Latin America, Eastern Europe and the Pacific.

Courses that satisfy the beyond the North Atlantic requirement:

AFAM 254 [094] (GL, HS)
AFAM 293 [095] (HS)
AFRI 101 [040] (GL, SS)
AFRI 261 [061] (SS)
AFRI 262 [062] (LA)
AFRI 263 [063] (SS)
AFRI 264 [064] (VP)
AFRI 265 [065] (GL, SS)
AFRI 266 [066] (SS)
AFRI 368 [068] (SS)
AFRI 370 [070] (SS)
AFRI 375 [075] (VP)
AFRI 480 [089] (SS)
AFRI 520 [120] (HS)
AFRI 521 [121] (SS)
AFRI 522 [122] (HS)
AFRI 524 [124] (HS)
AFRI 535 [182] (HS)
AMST 378 (GL, HS)
ANTH 102 [049] (SS)
ANTH 121 [021] (HS, WB)
ANTH 130 [030] (GL, SS)
ANTH 142 [042] (GL, SS)
ANTH 142H [042H] (GL, SS)
ANTH 155 [055] (SS)
ANTH 231 [131] (HS, WB)
ANTH 429 [129] (GL, SS)
ANTH 453 [153] (EE, HS, WB)
ANTH 545 [145] (GL, SS)
ANTH 574 [174] (SS)
ANTH 578 [178] (CI, GL, LS)
ANTH 586 [196] (VP)
ANTH 626 (GL, SS)
ANTH 682 [182] (SS)
ARAB 150 [033] (CI, LA)
ARAB 151 (LA)
ARAB 433 [133] (LA, WB)
ARAB 434 [134] (LA)
ARAB 453 (VP)
ART 133 [022] (VP, WB)
ART 154 (VP, WB)
ART 155 (VP)
ART 157 (VP)
ART 255 (VP)
ART 266 [068] (VP, WB)
ART 273 [069] (VP, WB)
ART 353 (VP, CI)
ASIA 052 (LA)
CHIN 361 [053] (VP, WB)
CHIN 407 [112] (LA)
CHIN 408 [113] (LA)
CHIN 451 [133] (LA)
CHIN 452 [134] (LA)
CHIN 462 [114] (FI)
CHIN 544 [148] (VP)
CHIN 551 [144] (LA)
CHIN 552 [145] (LA)
CHIN 563 [138] (LA)
CLAR 075 [006J] (HS, WB)
CLAR 110 [028] (HS, WB)
CLAR 241 [047] (HS, WB)
CLAR 242 [048] (HS, WB)
CLAR 489 [189] (HS, WB)
CLAR 512 [110] (VP, WB)
CLAR 561 [182] (VP)
CLAS 071 [006G] (HS, WB)
CLAS 133H [029] (LA, WB)
CLAS 245 [045] (HS)
CLAS 253 [033] (LA, WB)
CLAS 362 [062] (LA, WB)
CLAS 418 [118] (HS)
CMLP 151 [031] (LA)
CMLP 252 [062] (VP)
CMLP 483 [183] (LA)
COMM 658 [158] (VP)
DRAM 117 [017] (LA)
DRAM 475 [171] (HS)
DRAM 475H [171H] (HS)
DRAM 486 [086] (CI, VP)
ENGL 364 [079] (SS)
ENGL 364H (SS)
ENGL 663
FOLK 130 [133] (GL, SS)
FOLK 429 [129] (GL, SS)
FREN 375 [077]
GEOG 259 [059] (SS)
GEOG 267 [167]
GEOG 458 [158]
GERM 252 [094B] (LA)
HIST 051 [006] (HS)
HIST 052 [006] (HS)
HIST 060 (HS)
HIST 061 (GL)
HIST 062 (HS)
HIST 130 [020] (GL, HS)
HIST 131 [032A] (HS, WB)
HIST 132 [032B] (HS)
HIST 133 [033] (HS)
HIST 135 [035A] (HS, WB)
HIST 136 [035B] (HS)
HIST 138 [036] (HS, WB)
HIST 140 [018] (GL, HS)
HIST 142 [024] (GL, HS, WB)
HIST 143 [025] (HS)
HIST 161 [030] (HS, WB)
HIST 162 [031] (HS)
HIST 176H [046] (HS)
HIST 260 [060] (HS)
HIST 264 [061] (HS)
HIST 276 [077A] (GL, HS)
HIST 277 [078B] (HS)
HIST 278 [076D] (GL, HS)
HIST 279 [072] (HS)
HIST 280 [080] (HS)
HIST 281 [081] (GL, HS)
HIST 282 [083] (HS)
HIST 283 [084] (HS)
HIST 287 [087] (HS)
HIST 287 [088] (HS)
HIST 477 [186A] (HS)
HIST 478 [186B] (HS)
HIST 480 [185] (HS)
HIST 481 [190] (HS)
HIST 530 [175] (HS)
HIST 533 [177] (HS)
HIST 534 [180] (GL, HS)
HIST 535 [182] (HS)
HIST 537 [195] (HS)
HIST 594 [100] (CI, LA)
HIST 595 [100] (CI, LA)
HKTU 305 [115]
HKTU 306 [110] (LA)
HKTU 592 [134] (LA)
INTS 252 [062] (VP)
INTS 388 [088] (GL, SS)
INTS 410 [102] (GL, SS)
JAPN 160 [133] (LA)
JAPN 161 (VP)
JAPN 261 [085] (VP)
JAPN 306 [106]
JAPN 375 [075] (LA)
JAPN 376 [076] (LA)
JAPN 381 [081] (SS)
JAPN 384 [084] (LA)
JAPN 408 [116]
JAPN 409 [117] (LA)
JAPN 410 [118]
JAPN 482 [082] (SS)
JWST 103 [021] (HS, WB)
JWST 106 [024] (HS, WB)
JWST 110 [028] (HS, WB)
JWST 412 [112] (LA)
JWST 464 [164] (LA)
JWST 465 [165] (GL, LA)
JWST 512 [111] (VP, WB)
LTAM 101 [040] (GL)
LTAM 697 [090] (CI)
MUSC 146 [046] (VP)
MUSC 234 [059]
MUSC 240 [090] (GL)
PLSH 405 [105]
PLSH 406 [106]
PLSH 411 [111] (LA)
PLSH 412 [112] (LA)
POLI 055
POLI 130 [050] (GL, SS)
POLI 131 [060] (SS)
POLI 226 [054] (SS)
World Before 1750

One course is required. Courses in this category introduce students to periods and places that differed significantly from the modern world, but whose histories influenced the shape of contemporary civilizations in ways both subtle and profound.

Courses that satisfy the world before 1750 requirement:

- RUES 260 [060] (SS)
- RUES 699 [199] (SS)
- RUS 250 [050] (LA)
- RUS 270 [070] (LA)
- RUS 273 [073] (VP)
- RUS 274 [074] (LA)
- RUS 275 [075] (LA)
- RUS 400 [100]
- RUSS 431 [131] (LA)
- RUSS 432 [132] (LA)
- RUSS 441 [141] (LA)
- RUSS 442 [142] (LA)
- RUSS 464 [164] (LA)
- RUSS 465 [165] (FI, LA)
- RUSS 471 [171] (FI, LA)
- RUSS 475 [175] (CI, LA)
- RUSS 479 [179] (LA)
- RUSS 486 [186] (LA)
- RUSS 493 [193] (LA)
- RUSS 560 [160] (LA)
- RUSS 859 [259] (LA)
- RUSS 860 [260] (LA)
- SEC 405 [055]
- SEC 406 [106]
- SLAV 101 [030] (WB)
- SLAV 248 [048] (CI, LA)
- SLAV 405 [105]
- SLAV 444 [144] (LA, WB)
- SLAV 464 [164] (LA)
- SLAV 465 [165] (GL, LA)
- SLAV 467 [167] (CI)
- SLAV 470 [170] (LA)
- SLAV 490 [125] (LA)
- SOCI 260 [060]
- SOCI 265 [165] (SS)
- SOCI 419 [119] (SS)
- SOCI 450 [150] (SS)
- SOCI 453 [153] (SS)
- SPAN 344 [054A]
- SPAN 345 [054B]
- VIET 252 [051] (VP)
- WMST 245 [045] (HS)
- WMST 261 [061] (SS)
- WMST 264 [060] (HS)
- WMST 280 [080] (HS)
- WMST 381 [082] (SS)
- WMST 384 [084] (LA)
- WMST 388 [088] (GL, SS)
- WMST 410 [102] (GL, SS)
- WMST 486 [186] (LA)
- WMST 537 [195] (HS)
- AMST 054 (HS, NA, US)
- ANTH 054 (HS, NA, US)
- ANTH 121 [021] (BN, HS)
- ANTH 145 [045] (HS)
- ANTH 151 [051] (HS)
- ANTH 231 [131] (BN, HS)
- ANTH 252 [152] (HS)
- ANTH 350 [150] (HS, NA)
- ANTH 359 [159] (HS)
- ANTH 377 [177] (HS, NA)
- ANTH 451 [151] (EE, HS, NA)
- ANTH 452 [152] (HS)
- ANTH 453 [153] (BN, EE, HS)
- ANTH 458 [158] (HS)
- ARAB 433 [133] (BN, LA)
- ART 151 [031] (VP)
- ART 153 [022] (BN, VP)
- ART 154 (VP, BN)
- ART 266 [068] (BN, VP)
- ART 270 [056] (NA, VP)
- ART 271 [057] (NA, VP)
- ART 273 [069] (BN, VP)
- ART 274 [080] (NA, VP)
- ART 351 [082] (VP)
- ART 464 [190] (HS, NA)
- ART 465 [191] (NA, VP)
- ART 467 (HS)
- ASIA 131 [032A] (BN, HS)
- ASIA 135 [035A] (BN, HS)
- ASIA 136 [036] (BN, HS)
- ASIA 152 (BN, LA)
- ASIA 153 [022] (BN, VP)
- ASIA 154 (BN, VP)
- ASIA 161 [070] (BN, LA)
- ASIA 266 [068] (BN, VP)
- ASIA 273 [067] (BN, HS)
- ASIA 582 [172] (BN, HS)
- ASIA 583 [173] (BN, HS)
- ASTR 061 [006G] (NA, PL)
- CHIN 252 [051] (BN, LA)
- CHIN 361 [053] (BN, VP)
- CLAR 075 [005] (BN, HS)
- CLAR 110 [023] (BN, HS)
- CLAR 120 [020] (GL, HS, NA)
- CLAR 241 [047] (BN, HS)
- CLAR 242 [048] (BN, HS)
- CLAR 243 [041] (GL, HS, NA)
- CLAR 244 [049] (HS, NA)
- CLAR 245 [050] (HS, NA)
- CLAR 246 [051] (VP)
- CLAR 367 [075] (HS, NA)
- CLAR 445 [148] (VP)
- CLAR 446 [091] (VP)
- CLAR 465 [191] (NA, VP)
- CLAR 475 [192] (GL, HS, NA)
- CLAR 489 [189] (BN, HS)
- CLAR 512 [110] (BN, VP)
- CLAS 053 [006M] (LA, NA)
- CLAS 054 (LA, NA)
- CLAS 055 (LA, NA)
- CLAS 056 (LA, NA)
- CLAS 057 (LA, NA)
- CLAS 058 (LA, NA)
- CLAS 071 [006G] (BN, HS)
- CLAS 121 [020] (LA, NA)
- CLAS 122 [021] (HS, NA)
- CLAS 133H [029] (BN, LA)
- CLAS 240 [051] (LA, NA)
- CLAS 240H [051A] (LA, NA)
- CLAS 242 [042] (HS, NA)
- CLAS 253 [033] (BN, LA)
- CLAS 257 [035] (BN, LA)
- CLAS 258 [036] (BN, LA)
- CLAS 259 [037] (BN, LA)
- CLAS 362 [063] (BN, LA)
- CLAS 363 [063] (LA, NA)
- CLAS 364 [064] (BN, LA)
- CLAS 391 [090] (GL, HS)
- CLAS 409 [109] (LA, NA)
- CLAS 547 [147] (LA, NA)
- CMPL 121 [021] (LA, NA)
- CMPL 121H [021H] (LA, NA)
- CMPL 364 [064] (LA, NA)
- CMPL 452 [170] (LA, NA)
- CMPL 454 [172] (NA)
- CMPL 476 [180] (LA, NA)
- CMPL 497 [190] (LA, NA)
- DRAM 281 [081] (CI, NA, VP)
- ENGL 074 (LA, NA)
- ENGL 120 [020] (LA, NA)
- ENGL 225 [058] (LA, NA)
- ENGL 225H [058H] (LA, NA)
- ENGL 226 [045] (LA, NA)
- ENGL 226H [045H] (LA, NA)
- ENGL 227 [054] (LA, NA)
- ENGL 227H [054H] (LA, NA)
- ENGL 228 [060] (LA, NA)
- ENGL 228H [060H] (LA, NA)
- ENGL 229 [049] (LA, NA)
- ENGL 230 [064] (LA, NA)
- ENGL 230H [064H] (LA, NA)
- ENGL 285 (LA, NA)
- ENGL 314 [038] (HS)
- ENGL 319 [051] (LA, NA)
- ENGL 319H (LA, NA)
- ENGL 320 [052] (LA, NA)
- ENGL 320H [052H] (LA, NA)
- ENGL 321H (LA, NA)
- ENGL 322 (LA, NA)
- ENGL 322H (LA, NA)
- ENGL 325 (LA, NA)
- ENGL 326 (LA, NA)
- ENGL 327 (LA, NA)
- ENGL 328 (LA, NA)
- ENGL 331 [066] (LA, NA)
- ENGL 331H [066H] (LA, NA)
- ENGL 332 [065] (LA, NA)
- ENGL 332H [065H] (LA, NA)

General Education: Junior-Senior Level

Students seeking the bachelor of arts degree must complete Supplemental General Education requirements; these can be satisfied in one of two ways.

Through the distributive option, students may take any three non-introductory courses (that is, any courses numbered above 199) from outside their major field. To insure proper distribution of the different forms of learning, the college requires that each of the three divisions of the College of Arts and Sciences outside the student’s primary major be represented among the three courses taken. (The four divisions of the college are: fine arts; humanities; natural sciences and mathematics; social and behavioral sciences.)

Through the integrative option, students take three courses from a formally approved cluster program. (Approved clusters will be listed in the Undergraduate Bulletin beginning in 2008.) A course cluster is a group of courses organized around a common theme but representative of different disciplinary approaches to defining and addressing an intellectual problem. The three courses must come from at least two divisions of the college, and no more than one of the three courses may count in a student’s primary major, secondary major or minor.
DIVISION OF ACADEMIC AFFAIRS

The College of Arts and Sciences and the General College

college.unc.edu
Holden Thorp, Ph.D., Dean
Bruce W. Carney, Ph.D., Senior Associate Dean for the Sciences
Bobbi Owen, M.F.A., Senior Associate Dean for Undergraduate Education
William L. Andrews, Ph.D., Senior Associate Dean for Fine Arts and Humanities
James W. May, M.A., Senior Associate Dean for Development and Executive Director of the Arts and Sciences Foundation
Tammy McHale, M.B.A., Senior Associate Dean for Finance and Planning
TBD, Senior Associate Dean for Social and Behavioral Sciences

The Division of Fine Arts
James Hirschfield, Ph.D., Chair
Terry Rhodes, Ph.D., Vice Chair

Departments:
Art; Dramatic Art; Music.

Programs:
Music Private Instruction; Playmakers.

The Division of the Humanities
Linda Wagner-Martin, Ph.D., Chair
Christopher Armitage, Ph.D., Vice Chair

Departments:
Classics; Communication Studies; English and Comparative Literature; Germanic Languages and Literatures; Linguistics; Philosophy; Religious Studies; Romance Languages and Literatures; Slavic Languages and Literatures.

Curricula:
American Studies; Folklore; Women’s Studies.

Programs and Institutes:
Institute for the Arts and Humanities; Cultural Studies; Foreign Language Resource Center; Humanities and Human Values; Jewish Studies; Latina/o Studies; Institute for Outdoor Drama.

The Division of Natural Sciences and Mathematics
Tomas Baer, Ph.D., Chair
Kerry Bloom, Ph.D., Vice Chair

Departments:
Biology; Chemistry; Computer Science; Exercise and Sport Science; Geological Sciences; Marine Sciences; Mathematics; Physics and Astronomy; Psychology; Statistics and Operations Research.

Curricula:
Applied and Materials Sciences; Ecology.

Programs:
Environmental Science/Environmental Studies; Psychometric Lab.

The Division of the Social and Behavioral Sciences
Helen Tauchen, Ph.D., Chair
TBD, Vice Chair

Departments:
Aerospace Studies; African and Afro-American Studies; Anthropology; Asian Studies; City and Regional Planning; Economics; Geography; History; Military Science; Naval Science; Political Science; Public Policy; Sociology.

Curricula:
Contemporary European Studies; International and Area Studies; Latin American Studies; Management and Society; Peace, War and Defense; Slavic, Eurasian and East European Studies.

Programs:
African Studies; Archaeology; Carolina Asia Center; Middle East and Muslim Studies; Study Abroad; Urban Studies.

The Academic Advising Programs
Carolyn C. Curren, M.A., Associate Dean
Nalin R. Panik, Ph.D., Assistant Dean
Rosa P. Peckin, Ph.D., Assistant Dean
Sherry Salyer, Ph.D., Assistant Dean
Marco R. Steinberg, Ph.D., Assistant Dean
Barbara Stenross, Ph.D., Assistant Dean
Minda Brooks, M.A., Assistant Director
Alice C. Dawson, Ph.D., Assistant Director
Barbara E. Lucido, M.Ed., Assistant Director
Marilyn Wyrick, M.A., Assistant Director
Elizabeth B. Taylor, M.S.M., Graduation Coordinator
Daniel R. Anderson, Ph.D., Abbey Fellow
Beth E. Kurtz-Costes, Ph.D., Abbey Fellow
Lillie L. Searles, Ph.D., Abbey Fellow

Advisors:
The Academic Advising Programs provide academic advising to all students in the General College and the College of Arts and Sciences. All first-year students and sophomores are enrolled in the General College. While in the General College, students are expected to complete the Foundations and Approaches requirements of the General Education curriculum. These required courses, in combination with electives and a certain number of Connections courses, provide students the opportunity to explore different areas of interest before declaring a major.

The charge of the advising programs is to assist students with all aspects of their academic planning while providing a foundation for appropriate academic decisions. To that end, advisors discuss choice of majors with advisees and help them select appropriate courses to satisfy General Education and major/minor requirements. In addition, advisors explain academic policies, procedures and regulations.

Each student in the General College is assigned to an advising team consisting of an assistant dean or assistant director, at least one full-time advisor and one or more part-time faculty advisors. The advisors provide students with personal assistance and advice in selecting courses, maintaining required scholastic standards and planning a complete educational program. Advisors' office locations and hours are posted on the Web at www.unc.edu/advising.

During their junior and senior years, students pursue academic majors either in the College of Arts and Sciences or in one of the professional schools. To proceed with a major in the College of Arts and Sciences, students must meet the academic eligibility requirements discussed in later sections of this Undergraduate Bulletin. To enter a professional school, students must be accepted into the program. (See admission information for professional schools in later sections of this Undergraduate Bulletin.)

As juniors and seniors, students receive academic advice regarding course registration, graduate school, and career opportunities from their major departments, interdisciplinary major curricula offices or from the professional school to which they have been admitted. Students in majors that are part of the College of Arts and Sciences should also consult with an advisor in the Academic Advising Programs at least once each year to ensure that they are making acceptable progress toward meeting degree requirements. Each student is ultimately responsible for selecting appropriate courses and complying fully with all published regulations and requirements of the College.

To avoid problems with registration and to ensure graduation by the expected date, students are strongly encouraged to declare a major during their sophomore year or early in their junior year. Students who have not declared a major prior to their sixth semester may not be permitted to register until they have seen an advisor and chosen an academic major. Students who have not declared a major by the beginning of their fifth semester will be notified of the impending penalty associated with their registration for the next semester.

**Classification (Class Standing)**

The following changes regarding class standing were approved by Faculty Council in February 2007. The schedule for implementation had not been set when this Bulletin went to press.

All students who begin their undergraduate career at UNC-Chapel Hill are considered first-year students for semesters 1 and 2. As students enter the third semester, their class standing is calculated based on academic credit-hours passed, according to the following schema:
- Semesters 1 and 2: First-year student (for students who begin their undergraduate career at UNC-Chapel Hill)
- Third or later semester: (classification based on academic credit-hours passed):
  - 1-29: First-Year Student
  - 30-59: Sophomore
  - 60-89: Junior
  - 90+: Senior

First-year students entering the University on or after May 14, 2007 will be promoted from the General College to the College of Arts and Sciences once they have completed at least two semesters-in-residence and passed at least 60 academic credit hours (including Advanced Placement and transfer credit). Other students enter the College of Arts and Sciences upon admission to the University as junior transfers from other colleges. Promotion to the College of Arts and Sciences does not imply that a student's first available date for early registration will be advanced. Rather, registration priority is based on number of semesters completed.

Students are expected to complete their undergraduate degree in eight semesters. Students entering the University as first-year students in summer 2007 or later who wish to attend a ninth semester must submit a written petition to and receive permission from their dean.

**Pre-Health Advising**

UNC-Chapel Hill has no formal pre-dental or pre-medical curriculum. Instead, students should choose one of the traditional B.A. or B.S. programs. Students are advised to take their pre-med requirements early in their college career. CHEM 101 and 101L should be taken in the first semester if possible.

In view of ongoing changes in pre-professional course requirements for health professions, students are strongly encouraged to visit the Health Professions Advising Office. The latest requirements for both courses and the required admission tests can be obtained from this office (prehealthadvising.unc.edu). This office also provides health career assistance in preparing for baccalaureate and post-baccalaureate programs in the allied health programs.

Prerequisite and admission information for the study of veterinary medicine, including the School of Veterinary Medicine at North Carolina State University, can also be found in the Health Professions Advising Office.

**Pre-Law Advising**

Many students enter the University each fall with aspirations to attend law school. At UNC-Chapel Hill there is no formal curriculum for pre-law students. Instead, students should follow one of the traditional four-year B.A. or B.S. degree programs. Most law schools do not require, or even recommend, that students major in any particular field. Most schools subscribe to the selection of a course of study that will provide a foundation for the undertaking of legal studies: reading, writing, speaking and analytical and critical thinking skills. (Note, however, that a student wishing to practice patent law will need a degree in one of the sciences.)

The American Bar Association and the Law School Admission Council list skills and values that "provide a sound foundation for a legal education." They include 'analytic and problem-solving skills, critical reading abilities, writing skills, oral communication and listening abilities, general research skills, task organization and
management skills and the values of serving faithfully the interests of others while also promoting justice." (Official Guide to ABA-Approved Law Schools, p. 4, 2007). Students who choose courses, extracurricular activities and life experiences that will enhance these skills and values will have the best preparation for the study and practice of law.

Applicants to law school must present evidence of academic achievement of high quality and strong Law School Admission Test (LSAT) scores. Pre-law students should emphasize academics. The campus Learning Center offers programs designed to help enhance reading skills and provide preparation for the LSAT. Students are encouraged to take advantage of these opportunities.

Students are encouraged to visit the pre-law advisor in the Academic Advising Programs. They may also wish to visit the pre-law Web site: advising.unc.edu/majorsandminors/prelaw.

**Pre-Graduate School Advising**

This resource is offered to students in the College of Arts and Sciences interested in pursuing graduate studies. An assistant dean for the Academic Advising Programs advises students on their application to graduate school, coordinates graduate school information with departments in the College of Arts and Sciences and disseminates information from graduate programs across the country.

**Requirements for Degree Programs within the College of Arts and Sciences**

The College of Arts and Sciences offers programs of study leading to the bachelor of arts degree and to the more specialized degrees of bachelor of science, bachelor of music and bachelor of fine arts. In all, students may choose from more than 50 major fields of study.

**Bachelor of Arts**

The bachelor of arts degree is awarded in African and Afro-American studies; American studies; anthropology; art history; studio art; Asian studies; biology; chemistry; classics; communication studies; comparative literature; contemporary European studies; dramatic art; economics; English; environmental studies; exercise and sport science; geography; geological sciences; German; history; interdisciplinary studies; international and area studies; Latin American studies; linguistics; management and society; mathematics; music; peace, war and defense; philosophy; physics; political science; psychology; public policy; religious studies; romance languages; Russian and East European area studies; Slavic languages and literature; sociology; and women's studies.

To graduate with a bachelor of arts degree, students must successfully complete at least 120 semester hours of course work and attain a final cumulative grade-point average of at least 2.000. (If repeated, most courses will not count twice toward credit hours required for graduation. Any exception to this policy, such as applied music, special studies, etc., must receive the express approval of the associate dean's office in the Academic Advising Programs.) A minimum of 45 academic credit hours must be earned from UNC-Chapel Hill courses, and at least 24 of the last 30 academic credit hours applied to the degree requirements must be earned from UNC-Chapel Hill courses. These may include courses taken through self-paced studies, Carolina Courses Online or courses offered in study abroad programs sponsored by the University.

To graduate, students must satisfy all General Education requirements and complete at least 18 semester hours in the major field (requirements vary by major). Major courses may be used to satisfy General Education requirements, though few departments and curricula include Foundations courses in their majors. Courses in one's major or minor or cross-listed with one's major or minor or specifically required for the major or minor may not be taken on a PS/D+/D/F basis.

No more than 45 semester hours in any subject may be used toward fulfillment of the B.A. graduation requirement. A maximum of 24 semester hours of courses from professional schools (business administration, education, information and library science, journalism and mass communication, law, social work, dentistry, medicine, nursing, pharmacy or public health) may be taken for degree credit in B.A. and B.S. programs.

Students must complete a satisfactory major as prescribed by departmental or curriculum requirements. Although there is not a specific major GPA requirement, a minimum of 18 hours of C or higher (C- does not qualify) in the major is required. (Selected majors require 21 hours of C or higher grades in the major.) Students transferring credits in their major field must earn a grade of C (not C-) or higher in at least three-fourths of the courses in the major taken at UNC-Chapel Hill. Students transferring from another institution must take at least half of their major course requirements at UNC-Chapel Hill.

Students completing the requirements for a bachelor of arts degree and a bachelor of science degree in the College of Arts and Sciences will earn only one degree and receive only one diploma. (See Academic Procedures.)

**Bachelor of Arts with a Major in Interdisciplinary Studies**

Students interested in an interdisciplinary (IDST) degree program not covered by any degree-granting curriculum should consult with the associate dean for undergraduate curricula during the second semester of the sophomore year or the first semester of the junior year. Students should have a grade point average of at least 2.75 and at least 45 hours left before graduation. Students should meet all Foundations and Approaches requirements before declaring the interdisciplinary major.

In any IDST major, specific course requirements must be distributed as follows: eight courses from three departments, with a maximum of four from any one department. The courses should be appropriate for juniors and seniors majoring in those departments and are not to be first-year or sophomore level courses. They should form a coherent area of study to which the student is able to give a title (e.g., medieval studies, urban studies) and which constitutes a form of knowledge that the student is unable to acquire by majoring in one of the departments or already-established curricula of the College of Arts and Sciences.

With permission of the relevant professional school, one may include up to 12 hours of professional courses (e.g., in business administration, journalism and mass communication, public health) among the courses selected for the major. This can be advantageous to students who want some concentration in these areas but who also want a degree in arts and sciences.

For information about the interdisciplinary studies major in cultural studies, please contact the University Program in Cultural Studies in 111 Bingham Hall. For all other information about this major, contact the associate dean for undergraduate curricula.
Qualified students may pursue departmental or interdisciplinary honors through this program.

**Bachelor of Science**

Four-year programs leading to the degree of bachelor of science provide for specialization in a particular field and necessary instruction in related fields, including foreign language. In some B.S. programs, General Education requirements may be reduced. Most B.S. programs, however, require students to complete quantitative reasoning and foreign language courses beyond the general education minimums.

The bachelor of science degree is awarded in applied sciences, biology, chemistry, computer science, environmental science, geological sciences, mathematical decision sciences, mathematics, physics and psychology. Specific junior/senior requirements for each scientific-field degree are stated in the headnote to the course descriptions of the respective department or curriculum. Students completing the requirements for two bachelor of science degrees or one bachelor of science degree and a bachelor of arts degree in the College of Arts and Sciences will earn only one degree and receive only one diploma. (See 'Academic Procedures'.)

**Bachelor of Fine Arts**

A four-year program leading to the degree of bachelor of fine arts is offered by the Department of Art. It provides, for qualified students, preprofessional training in creative aspects of the field of art. Approximately one-half of the program will be in the field of the major and the other half will be in the liberal arts and sciences. Junior/senior requirements for the degree are stated in the headnote to the course descriptions of the Department of Art.

**Bachelor of Music**

The four-year program leading to the degree of bachelor of music emphasizes training and achievement in the performance or composition of music.

Junior/senior requirements for the degree are stated in the headnote to the course descriptions of the Department of Music. Approximately one-half of the program will be in the field of the major and the other half will be in the liberal arts and sciences.

**Combining Majors and Minors**

The College of Arts and Sciences will award only one bachelor's degree to a student. (See 'Academic Procedures'.) Students are permitted, however, to study up to three subjects in depth. They may do this by declaring two majors, one major and one minor, two majors and one minor, or one major and two minors. A student may pursue in-depth study in multiple areas by meeting all major/minor requirements in each of the selected disciplines, in addition to General Education requirements. In many cases, it should be possible to do this with as few as 120 semester hours.

Students who enter the University as first-year students in Summer 2007 or later and who wish to enroll in a ninth semester must submit a written petition to their Dean. In some rare cases, students may petition to be allowed to enroll in a 10th semester. Students who are granted permission to enroll in a 10th semester, however, will graduate with no minors and with one major only.

Courses that can be used for both a major in an interdisciplinary curriculum and a major in a single department may be double-counted with the following general limitation: More than half (not merely half) of the courses taken in each major must be exclusive to that major and not double-counted.

Students who are pursuing majors in two disciplinary departments (e.g., English and anthropology) may double-count cross-listed courses with the following general limitation: More than half (not merely half) of the courses taken in each major must be exclusive to that major; that is, they should neither be cross-listed in the other major nor otherwise counted for credit in both majors.

Students who are pursuing two majors and a minor (or two minors and a major) may, in principle, use a single course to satisfy requirements in all three areas of study, provided that more than half (not merely half) of the courses taken in each major/minor are exclusive to that major/minor; that is, for each major/minor, more than half (not merely half) of the courses taken to satisfy the requirements should neither be cross-listed in the other related fields nor multiply-counted.

**Academic Minors**

The college gives official recognition to academic minors offered by certain departments, curricula and programs (see the organizational structure of the Division of Academic Affairs at the beginning of this section). In addition, arts and sciences students may minor — provided they are given permission by the respective professional schools — in business administration (Kenan-Flagler Business School), in information systems (School of Information and Library Science) and in any one of several minor tracks offered by the School of Journalism and Mass Communication.

Specific junior/senior requirements for each minor are stated in the headnotes to the course descriptions of the respective department, curriculum or school. Minors are offered in African studies (African and Afro-American studies); Afro-American studies (African and Afro-American studies); American studies; anthropology; Arabic (Asian studies); archaeology (anthropology); art history; Asian studies; astronomy (physics); biology; business (Kenan-Flagler Business School) — students must be admitted to program; chemistry; Chinese (Asian studies); Christianity and culture (sociology); classical humanities (classics); coaching education (exercise and sport science); cognitive science (psychology); comparative literature; computer science; creative writing (English Department approval required); dramatic art — dramaturgy, theatrical design, theatrical production; English; entrepreneurship (economics); environmental science and studies; exercise and sport science; folklore; French (Romance languages); geography; geology; German; Greek (classics); Hindi-Urdu (Asian studies); Hispanic studies (Romance languages); history; information systems (School of Information and Library Sciences — students must be admitted to program); Italian (Romance languages); Japanese (Asian studies); Jewish studies; journalism and mass communication (IOMC — students must be admitted to the program, where they follow one of eight tracks); Latin (classics); Latina/o studies (English); linguistics; marine sciences; mathematical decision sciences; mathematics; medical anthropology (anthropology); medieval studies (Classics Department approval required); modern Hebrew; music; Native American studies; philosophy; philosophy, politics and economics (philosophy); physics; Portuguese (Romance languages); public policy; recreation administration; religious studies; Russian culture (Slavic languages and literatures); sexuality studies (women's studies); Slavic and East European languages; Slavic and East European cultures; social and economic justice (sociology); Spanish for the professions (Romance languages); sustainability studies; urban studies and planning (city and regional planning); women's
studies; and writing for the screen and stage (Dramatic Art Department approval required).

The requirements and limitations that apply to all undergraduate academic minors are as follows:

A student may have no more than two minors, regardless of the student’s major degree program. Departments may exclude certain minors from being elected and completed by students majoring in these departments.

Students may use no more than 49 percent of the courses in any given minor to satisfy requirements in a major field or another minor. In other words, more than half (not merely half) of the courses taken to satisfy the minor requirements should neither be cross-listed nor multiply-counted in the other related fields.

At least nine hours of the (four- or five-course) minor must be completed at the University of North Carolina at Chapel Hill and NOT at other academic institutions. Certain departments may require that more than nine hours must be completed at the University.

Some departments or curricula may disallow the use of courses in the minor as General Education courses.

A minimum of 12 hours of C (not C-) grades or higher is required in the minor, though some minors may require more.

All courses in the minor department must be taken for a regular letter grade, though one exception to this rule will be allowed, as with courses in the major (i.e., one PS/D+ /D/F course taken before the declaration of the minor may count toward that minor).

If students plan to pursue the completion of a minor, they are encouraged to declare their minor early in the junior year.

Credit by College Board Advanced Placement or International Baccalaureate Examination.

Students who perform well on Advanced Placement examinations of the College Board or on the higher-level examinations of the International Baccalaureate Program may receive academic credit for comparable University course work. Each year, the Office of Undergraduate Admissions publishes the minimum scores necessary for the awarding of course credit; however, final authority for the awarding of this placement credit lies with the chair of the department or curriculum in which credit is to be received. Minimum scores for placement may change from year to year. It is the year the student began University study that determines the standards that apply, not the year the student took the examination. Such credit will not be contingent upon the completion of further work in the subject.

Credit by Examination.

Enrolled students who have gained (through independent study or experience) knowledge of the content of courses offered by the University for undergraduate credit may, with the approval of the department and school or college involved, receive credit (without grade) for such courses by special examination. Such an examination must be taken before the beginning of the last semester or full summer session before graduation, and the approval of the department and school must be received at least 30 days before the examination is taken.

Special Studies for Credit.

The University offers a variety of internships and independent study experiences for its students; these often fall under the category of special studies (SPCL) courses. Twelve hours of graded special studies credit may be counted toward graduation, though no more than six hours may be taken in any one semester. Students may participate in either formalized programs, or they may make individualized contracts for work under the supervision of a member of the permanent faculty, either at the department/curriculum level or at the college level. For Special Studies 390 and 396 (independent studies courses and other special courses administered through the college), no more than seven hours may be taken on a pass/fail basis. For information about independent studies courses and internships in their majors, students should consult the directors of undergraduate studies in their major department or curriculum; for information about internships administered through the college, students should consult their advisors and the director of experiential education. For all other special studies courses, students should consult the Office of Undergraduate Curricula.

Policy on Credit for Internships — The College of Arts and Sciences.

No internship automatically earns academic credit. Students may seek credit for internships in two ways:

- through consultation with the director of undergraduate studies in their major department (for course credit in the department);
- through consultation with the director of experiential education.

Students are eligible to receive credit for an internship through SPCL 390 (section 4) if they meet the following criteria:

- they have a minimum GPA of 2.5;
- they are unable to complete the internship under the auspices of their major departments;
- their internship is approved in advance by the coordinator for career services and the director of experiential education;
- they complete a learning contract in the semester before they do the internship;
- they comply fully with the terms of the learning contract.

The deadline for completing paperwork approving credit for an internship is two weeks before the last day of classes in the semester preceding the internship.

Students who have completed the preliminary paperwork may sign up for SPCL 390-004 (for a PS/F grade only), in the semester following the internship.

Undergraduate Honors

Degrees with Distinction.

To graduate with distinction or with highest distinction, one must have completed at least 45 academic hours at UNC-Chapel Hill and have an overall grade-point average of at least 3.500 or 3.800, respectively. The grade-point average is based on the grades received and recorded by the Office of the University Registrar as of the degree award date. No changes are permitted to the awards after that date.

Degrees with Honors.

Programs providing an opportunity for graduation with honors for qualified students are offered in all four divisions of the college (fine arts; humanities; natural sciences and mathematics; social and behavioral sciences). The honors programs are supervised by the individual departments and curricula, in conjunction with the associate dean for honors. Though they are not completely uniform in the various disciplines, all have these general procedures and requirements:
Application for honors work: Students should apply to the honors advisor in their major departments or curricula. Ordinarily, application is made at the end of the junior year, although it is done earlier in some departments. Detailed information concerning application should be obtained from the honors advisor in the major.

Requirements for eligibility: In general, a minimum overall grade-point average of 3.200 is required for admission to honors work, though a higher average is required in some departments.

Nature and purpose of honors study: Programs are provided for students who have demonstrated a very high level of scholastic ability and achievement and who desire to pursue an intensive, individualized program of study in their major discipline. Honors studies ordinarily will consist of one or more of the following projects: the preparation of an honors thesis or essay; an honors research project; an independent research or reading program; the completion of advanced course work in the major not normally required of students in that major.

A special written or oral examination on the student's program is required during the second semester of the senior year. The department may impose other requirements that it deems appropriate. In every instance, study for honors will require academic excellence. When the student has fulfilled all requirements, the department will recommend to the associate dean for honors that the degree be awarded with honors or with highest honors. The degree with highest honors is conferred in recognition of extraordinary achievement in Honors Program work and predominantly excellent course grades in the major.

Procedures for granting degrees with honors: The grade for course work in connection with an honors project is determined by the faculty sponsor and is (like all grades) subject to appeal. Successful completion of honors study does not automatically confer departmental honors. Before awarding a degree with honors, the College of Arts and Sciences requires the recommendation of a departmental honors committee on the basis of departmental criteria for honors (normally an excellent paper and/or exam and a high grade-point average in the major field) and the endorsement of that committee's recommendation by the departmental chair. A negative recommendation by the department is final and cannot be appealed. The associate dean for honors makes the final decision to award a degree with honors on the basis of the department's positive recommendation and the student's cumulative grade-point average.

**Phi Beta Kappa**

This national collegiate honor society is open to undergraduate students in the College of Arts and Sciences and in exceptional circumstances (as described below) to students enrolled in undergraduate professional degree programs. The following students in the College of Arts and Sciences are eligible for membership:

1. Students who have completed at least 75 semester hours of graded academic course work taken at UNC-Chapel Hill with a grade-point average of at least 3.850.
2. Students who have completed at least 105 semester academic course hours (which include at least 45 semester hours of graded academic course work taken at UNC-Chapel Hill) with a grade-point average of at least 3.750. No grades made at an institution from which a student has transferred shall be included in determining a student's eligibility.

The grade-point average shall include all academic course work taken and counted at UNC-Chapel Hill toward the candidate's degree. Grades and hours received on courses taken after the candidate has received his or her degree also shall not be counted.

Undergraduate students not enrolled in the College of Arts and Sciences who meet the general semester hours and grade-point average described in No. 2 above and who have completed at least 90 semester hours of course work in the departments and curricula of the College of Arts and Sciences (or the equivalents accepted for transfer credit from other institutions) are eligible for election. These students may apply by submitting a current UNC-Chapel Hill transcript as well as transcripts for all college course work taken elsewhere. Applications for fall initiation must be submitted no later than September 15. Applications for spring initiation must be submitted no later than January 20.

**Dean's List**

To be eligible for the Dean's List, students must meet one of the following requirements:

- A 3.200 grade-point average with no grade lower than C if enrolled in 15 or more hours of academic credit-bearing courses;
- A 3.500 grade-point average with no grade lower than C if enrolled in at least 12 but fewer than 15 hours of academic credit-bearing courses.

The grade-point average is based on the grades received and recorded at the time the Dean's List is published by the Office of the University Registrar. No changes are permitted to the Dean's List after that date.

**Special Undergraduate Programs**

**The James M. Johnston Center for Undergraduate Excellence**

James Leloudis, Ph.D., Director
Randi Davenport, Ph.D., Executive Director

The James M. Johnston Center for Undergraduate Excellence was founded to lead a renaissance in undergraduate education at Carolina. Building on the University's 200-year commitment to outstanding teaching and scholarship, the center serves as the intellectual crossroads of the College of Arts and Sciences and welcomes students, faculty and staff from all departments and programs.

The Johnston Center supports curricular initiatives that enliven undergraduate education. It offers opportunities for learning outside of the traditional classroom and for creating the social context for the intellectual community that is the heart of the academy. The center hosts visits from civic and community leaders, philosophers and artists, scientists, poets and politicians. It supports interdisciplinary programming, joining the interests and expertise of many different departments on campus to explore a common topic. The center also provides a warm and welcoming environment, where students can get to know their professors as scholars and as people, meet Carolina alumni and perform or present their own creative and scholarly works.

The Johnston Center houses the offices of:
- The Undergraduate Honors Program
- The Office of Burch Programs and Honors Study Abroad
- The Office of Distinguished Scholarships
- The Office of Undergraduate Research
- The Robertson Scholars Program
The Johnston Center also serves as a laboratory for innovation in teaching and learning by providing access to exceptional technology. Faculty and students use its state-of-the-art classrooms to engage in collaborative inquiry with peers close to home and around the globe. The center's teleconferencing facilities connect UNC-Chapel Hill programs abroad to campus and give students in Chapel Hill access to academic experts from all parts of the world.

The Johnston Center has a student-faculty advisory committee that advises its director on all aspects of programming and planning.

**Undergraduate Honors Program**

James Leloudis, Ph.D., Associate Dean for Honors
Ritchie Kendall, Ph.D., Assistant Dean for Honors

The Honors Program offers exceptionally well-qualified first-year students, sophomores and juniors an opportunity to take part of their General Education curriculum in special honors seminars and honors sections.

Honors seminars are special topics courses that are often interdisciplinary and emphasize new approaches to teaching. Honors seminars and honors sections of regular departmental offerings are limited in enrollment, usually to 15 or 20 students, and are taught by regular members of the faculty. These courses emphasize critical reading, class discussion and expository writing. Departments and curricula often provide honors versions of the courses listed in their sections of this bulletin; interested students should consult the course listings at the honors program Web site (www.unc.edu/depts/honors).

Some enrolling first-year students are invited to participate immediately in the Honors Program. Other students may apply to the program during their first or second years and receive invitations into the program on the basis of outstanding academic performance at Carolina. Honors students must take at least two honors courses during each academic year and maintain a minimum overall grade-point average of 3.0 to remain in the Honors Program. Honors courses are open to all academically qualified students on a space-available basis.

The Honors Program Student Advisory Board coordinates social and co-curricular activities for Honors Program students. The activities include a faculty/student lecture and discussion series, presentations on various topics and community service projects. The Honors Program also has semester study abroad programs (see below).

Senior departmental honors programs are offered in nearly 50 departments, curricula and professional schools throughout the University. Interested students should consult with the honors advisor in their major about its senior honors program. In order to graduate from the University with honors or with highest honors, a student must complete the senior honors program.

**Burch Programs and Honors Study Abroad**

Honors Study Abroad: The Honors Program offers innovative study abroad opportunities in London, Rome and Cape Town. They are led by UNC-Chapel Hill faculty; students take courses with instructors from some of the world's leading institutions of higher education; and all of the programs provide honors graded credit for General Education and major requirements. Honors study abroad is open to all students with a 3.0 grade-point average.

Burch Fellows Program: The Burch Fellows Program recognizes undergraduates who possess extraordinary ability, promise and imagination. It provides grants to support self-designed off-campus experiences in the United States and abroad that will enable students to pursue a passionate interest in a way and to a degree not otherwise possible.

Burch Field Research Seminars: Burch Field Research Seminars offer students and faculty an opportunity to spend a full semester together engaged in a shared research project in the United States or abroad. Topics for recent seminars have included policy making and foreign affairs in Washington, D.C., economic and social reconstruction in the Balkans, musical performances in Eastern Europe and astronomical study at UNC-Chapel Hill's new telescope in Chile.

**Office of Distinguished Scholarships**

George Lersing, Ph.D., Director

The mission of the Office of Distinguished Scholarships is to provide a central location for information on national and international distinguished scholarships, such as the Rhodes, Marshall and Truman scholarships. ODS strongly believes in educating students about available opportunities and the preparation required to compete for these prestigious scholarships. The office provides regular informational sessions for students with a grade point average of 3.6 and above. Additionally, ODS advises students on their drafts of applications, suggests interviewing strategies and facilitates contact with other faculty who can assist with the writing of project statements.

For more information about the Office of Distinguished Scholarships, and access to all the scholarships offered through this office, visit www.distinguishedscholarships.unc.edu.

**Office of Undergraduate Research**

Patricia J. Puklila, Ph.D., Director

The Office of Undergraduate Research (OUR) was established in 1999 to help students learn about the expanding possibilities to undertake research, mentored scholarship or creative performance at UNC-Chapel Hill. It seeks to make research a distinctive feature of the undergraduate educational experience at this vibrant research university because it believes that students who understand how discoveries are made are well prepared to address the unsolved problems of the future. The office is located in 220 Graham Memorial and is a part of the Johnston Center for Undergraduate Excellence.

The OUR maintains several kinds of searchable databases, including listings of courses that introduce research methodologies, postings of current undergraduate research opportunities on campus and descriptions of what Carolina students have accomplished. The OUR also sponsors a Celebration of Undergraduate Research each spring, which allows students to present their results to the campus and community. There are also funding opportunities available through the OUR that provide the necessary support for students to conduct summer research, travel to professional meetings to present their work or pay for essential research supplies.

For more information about the Office of Undergraduate Research, and for access to all the programs and databases, visit the Web site at www.unc.edu/depts/our.
Office of Experiential Education
Kenneth Janken, Ph.D., Director

The Office of Experiential Education seeks to create, promote, expand and publicize the experiential learning available to Carolina’s undergraduates. As defined by the University, courses may meet the Experiential Education requirement if they: include sustained, faculty-mentored research; have been approved as service-learning courses; have 30 hours or more of field trips or fieldwork; are department- or university-unit internships; are part of an approved Study Abroad program; have direct and sustained engagement in a creative process under faculty supervision. The director of Experiential Education identifies existing opportunities, facilitates the creation of new opportunities and helps to communicate information about Experiential Education to both students and faculty. The director also supervises and evaluates certain kinds of student internships administered through the College of Arts and Sciences.

For more information about the Office of Experiential Education, visit the Web site at www.unc.edu/depts/uc/exped.html.

Study Abroad
Robert Miles, Ph.D., Director

Living and studying in another culture is a crucial part of an undergraduate education for all majors. Undergraduate students who wish to receive credit for study abroad may do so only on officially sanctioned UNC-Chapel Hill programs, by application through one of the following offices that administer study abroad programs: the College of Arts and Sciences Study Abroad Office located in the Porthole Building; the UNC-Chapel Hill Summer School Office, 134 East Franklin St.; and the Kenan-Flagler Business School B.S.B.A. program, McCall Building. Study abroad credit will be awarded only to students who participate in the programs administered by these UNC-Chapel Hill offices. Students who wish to participate in other programs for academic credit may submit a petition for approval only to the Study Abroad Office. Deadlines and procedures are available from the associate director for advising in the Study Abroad Office. Not all program petitions are granted.

The Study Abroad Office facilitates all study abroad programs designed and offered within the College of Arts and Sciences, including Honors Study Abroad Programs, Burch Field Research Seminars and Carolina Environmental Programs. The Study Abroad Office also operates undergraduate student exchange programs and a number of programs led by UNC-Chapel Hill faculty members. Study abroad programs are available in more than 70 countries. There are summer, semester and yearlong programs.

Many programs for UNC-Chapel Hill students offer a varied curriculum while some are focused on a particular academic discipline. Students must begin to plan their academic program by first arranging an advising session in the Study Abroad Office. Students may fulfill elective, General Education and major/minor requirements abroad. Approval for major/minor credits must be granted by the director of undergraduate studies in the relevant department, and approval for General Education requirements must be granted by the associate dean for undergraduate curricula. The Study Abroad Office coordinates the approval process in both instances. Some programs, most often those taught by UNC-Chapel Hill faculty, offer University graded course credits. Most programs will offer transfer credit that can also be used to fulfill requirements toward graduation.

The Study Abroad Office also offers student exchange programs with selected universities abroad. An exchange program allows a student to pay UNC-Chapel Hill tuition and to exchange places with a student from a foreign institution. Through informational meetings and individual counseling, the Study Abroad Office advising staff assist students in choosing the best programs for their needs, in devising an academic schedule, and in making housing arrangements. The Study Abroad Office requires students to attend a pre-departure program during which they receive valuable information regarding safe travel, managing money abroad, credit issues and managing cultural adjustment. The office maintains contact with the students while they are abroad and provides a re-entry program upon their return to UNC-Chapel Hill.

Students abroad remain registered at UNC-Chapel Hill and must be enrolled abroad for a full-time course of study. They do not lose their academic standing and are able to pre-register for courses for the semester when they will return to campus. Students may apply their usual need-based financial aid to study abroad costs and may apply for UNC-Chapel Hill study abroad scholarships and/or for additional federal or private loan programs. Some outside scholarship competitions are also available, especially for students who wish to study in non-Western countries. Students may participate in programs abroad during their sophomore, junior or senior year. Some programs are appropriate for graduate study.

First-Year Seminars and Academic Experiences
J. Stephen Reznick, Ph.D., Associate Dean

The First-Year Seminars (FYS) program at UNC-Chapel Hill has as its mission to build and sustain a vibrant campus-based educational community committed to the success of first-year college students. The program achieves this mission by coordinating a varied offering of seminar-format courses that allow students to work closely with faculty, by generating and supporting research and scholarship, by hosting conferences and by administering a Web site and electronic resources.

First-year seminars offer an introduction to the intellectual life of the university. Taught by University faculty who are both active scholars and accomplished instructors, each seminar enrolls no more than 20 first-year students. The courses address a range of topics across disciplines, often including the most pressing issues of the day. They share a common focus on how scholars pose problems, discover solutions, resolve controversies and evaluate knowledge.

Students in first-year seminars are asked to take responsibility for their learning. The seminars encourage self-directed inquiry by using a variety of activities inside and outside the classroom, including field work, case studies, artistic performances, computer projects, art work, laboratory explorations, archival research and group presentations.

For more information about the FYS program visit the Web site at www.unc.edu/fys. The FYS Web site is designed to provide first-year students, parents, faculty and the wider intellectual community with information about the FYS program and courses. Students can find out what courses are being offered, who the faculty teaching them are, and what kinds of experiences previous FYS students have had.
Academic Assistance

The Office for Student Academic Counseling
Harold Woodard, M.A., Associate Dean
Marcus Collins, M.S., Assistant Dean

The Office for Student Academic Counseling (OSAC) offers academic and personal support to all UNC-Chapel Hill students. OSAC has historically sponsored programs and activities that promote academic excellence, increase retention and improve the campus climate for diversity among Native American and African American undergraduates. Support provided by OSAC includes the Minority Student Advisory Program, cultural and personal enrichment sessions for American Indian students, the Community Ties Adult Mentoring Program for American Indian first-year students, the STAR Network and the Annual Academic Achievements (3) Recognition Ceremony. Historically, OSAC has worked cooperatively with members of several student organizations, including Black Women United, the Black Student Movement, the National Pan-Hellenic Council, the Asian Student Association, the Carolina Hispanic Association and the Carolina Indian Circle. Among the tribes that have been represented in the Carolina Indian Circle are the Lumbee, Cherokee, Coharie, Haliwa-Saponi, Meherrin and Waccamaw Siouan. An associate dean, an assistant dean and an administrative assistant work with several research and graduate students to meet the needs of any UNC-Chapel Hill student requesting assistance. Visit OSAC’s administrative offices or its Web site at www.unc.edu/depts/osac.

Academic Services
Fred M. Clark, Ph.D., Associate Dean
Shade K. Little, M.A., Assistant Dean

The Office of Academic Services offers programs to help students achieve academic success and consists of the Academic Support Program for Student Athletes, Learning Disabilities Services, the Learning Center, the Summer Bridge Program, the Chemistry Resource Center, the Math Help Center and the Writing Center.

The College of Arts and Sciences has developed the programs to assist all students in achieving academic success. With an emphasis on students in the General College, but open to all students, the programs are intended to strengthen academic skills. Although they cover a range of academic disciplines, the programs share common goals: to be responsive to students’ individual needs and to provide appropriate services so students can gain the confidence essential to their success at the University.

The Office of Academic Services is under the direction of the associate dean for academic services in the College of Arts and Sciences.

Academic Support Program for Student Athletes
Robert Mercer, M.Ed., Director

The Academic Support Program for Student Athletes, located in Kenan Field House, assists the University’s student-athletes in reaching their academic goals.

The staff provides academic counseling, a first-year transition program, eligibility monitoring, study skills development workshops, tutoring and a supplemental instruction program. The center’s facilities include a computer lab, group and private study rooms, a reading lounge and a 130-seat auditorium.

For more information, contact Robert Mercer, Director, Academic Support Program for Student Athletes, Student-Athlete Development Center, P.O. Box 2126, Chapel Hill, NC 27515-2126, (919) 966-4102 or rmercer@unc.edu.

General Chemistry Resource Center
Todd Austell, Ph.D., Coordinator

The Chemistry Resource Center supplements class instruction for any student enrolled in CHEM 101 (General Chemistry I) and CHEM 102 (General Chemistry II) as well as CHEM 241, 241H, 261, 261H, 262, and 262H. When the University is in session, tutors are on duty in the Dobbins Chemistry Resource Center, currently located in Morehead Labs 305, Monday through Thursday from noon to 6:00 p.m. Students may drop in to ask questions, discuss course material and work through problems.

Learning Center
Martha Keever, Ph.D., Director

The Learning Center, located in Phillips Annex, aims to help students become self-confident, self-directed learners. While the immediate goal of the Learning Center is improving students’ abilities to learn, remember and solve problems, the center’s ultimate goal is increasing student achievement through retention and graduation. The center’s programs include:

- academic counseling, individual assistance with attaining academic goals;
- the Reading and Learning Lab, a program through which students can discover effective reading and learning strategies;
- supplemental instruction, guided study groups to help participants blend how to learn with what to learn; and
- the Peer Tutoring Program, tutorial assistance to enhance students’ understanding of many subjects.

The Learning Center also offers inexpensive courses to help students prepare for the GRE, LSAT, GMAT and MCAT (fees are currently $150 per course). Visit the Learning Center’s Web site at www.unc.edu/depts/lcweb.

Learning Disabilities Services
Theresa Maitland, Ph.D., Interim Director

Learning Disabilities Services, located on the sixth floor of the Bank of America Building, 137 E. Franklin St., is the University’s designated service provider for UNC-Chapel Hill students with learning disabilities (LD) and attention-deficit/hyperactivity disorder (ADHD). Undergraduate and graduate/professional school students become eligible to work with LDS after their disability documentation has been reviewed by a University committee. LDS provides services and accommodations to students and serves as a campus resource to instructors and administrators. The mission of LDS is to assist students in achieving their academic potential within the regular, academically competitive University curriculum. Visit the LDS Web site at www.unc.edu/depts/lds.

Math Help Center
Elizabeth McLaughlin, M.S., Coordinator

The Math Help Center, located in 224 Phillips, provides additional instructional support for those students enrolled in MATH 110 through 233. The center is staffed by both graduate and undergraduate tutors, who work with students in small groups or individually. The center’s main purposes are to provide assistance and to increase the success rate for students in specified math courses.
**Summer Bridge Program.**
Fred M. Clark, Ph.D., Director
Summer Bridge is a seven-week residential academic support program for a select group of entering first-year students who are residents of North Carolina. The program is designed to ease participants' personal and academic transition from high school to the University. Students enroll in an English composition course and a mathematics course. Also, they participate in learning strategies instruction offered by the Learning Center. Cultural and recreational activities are significant components of the program as students are introduced to the University and the vast array of opportunities available.

**Writing Center.**
Kimberly Abels, Ph.D., Director
Vicki Behrens, Ph.D., Assistant Director
The Writing Center, located in Phillips Annex, offers free, one-on-one writing instruction to students, staff and faculty. Tutors work with students on all aspects of writing, including topic development, organization, style and grammar. Individual or small-group tutorial sessions are available by appointment and through an online service. To make an appointment or access online resources, visit the Web site at www.unc.edu/depts/wcweb.
AEROSPACE STUDIES

ACADEMIC DEPARTMENTS AND SCHOOLS
www.unc.edu/depts

Undergraduate courses usually offered in regular sessions of the University are listed in the following section.

This section does not include courses offered by the professional schools of Government, Law, and Social Work. For these courses, refer to bulletins from those schools.

Although the Summer School offers many courses described here, the Summer School publishes a separate bulletin of course offerings.

The requirements for majors and minors are shown in connection with the materials concerning the various departments.

The work of the University is arranged and offered on the semester system, the regular session being divided into two approximately equal parts called the fall and spring semesters. The Summer School is divided into two sessions.

Work is valued and credited toward degrees by semester hours, one such hour usually being awarded for each class meeting per week for a semester. One hour of credit is usually awarded for each three hours of laboratory or field work or work in studio art. In the following lists of courses, the numbers in parentheses after the descriptive titles show the credits allowed in semester hours.

Department of Aerospace Studies
www.unc.edu/depts/afrotc

MARK HUBBARD, Lieutenant Colonel, USAF, Chair

Adjunct Professor
Mark Hubbard, Lieutenant Colonel, USAF.

Adjunct Assistant Professors
Rob Schmolz, Major, USAF.
Larry King, Major, USAF.

Introduction

The Department of Aerospace Studies administers the United States Air Force Reserve Officer Training Corps (AFROTC) program and has been an integral part of the University’s tradition of scholarship, excellence, and achievement since 1947. As the University continues its pursuit of excellence as the nation’s oldest state liberal arts university, AFROTC will continue to develop outstanding officers who will serve the nation.

AFROTC offers both undergraduate and graduate students many opportunities. These include specialized academics, scholarships and financial assistance, applied professional training, job placement and a variety of extracurricular activities. In many ways, AFROTC is more than a department in the College of Arts and Sciences. It is also a professional organization designed to provide students growth and development opportunities beyond the classroom. AFROTC cadets learn and develop personnel management and leadership talents through hands-on experience both inside and outside of the traditional classroom setting.

The AFROTC Program

AFROTC is not a major; cadets take ROTC courses in addition to the courses in their chosen major. The first two years of the program are referred to as the general military course (GMC) and are designed to introduce the cadet/student to the Air Force and the broad opportunities offered. With this information, a student can make an informed decision on whether the Air Force interests him or her. A two-hour leadership lab (0 credit) meets once a week and is required for all AFROTC cadets. A student may enter, or leave, AFROTC at any point while in the GMC unless obligated by scholarship.

The second two years are referred to as the professional officer course (POC) and are designed to prepare an officer candidate to become a commissioned officer (second lieutenant) in the United States Air Force. These courses meet twice a week (three credit hours), with a two-hour leadership lab (0 credit) once a week. Entry into the POC is competitive. Once accepted, a student is obligated to serve in the active duty Air Force upon graduation.

Undergraduate students may enter the program at the beginning of their first year or as late as their junior year. There is no commitment to the Air Force until the last two years of the program or activation of a scholarship. Any student, graduate or undergraduate, may enter the commissioning track program if he or she has at least three semesters of full-time study remaining at the University. Completion of the AFROTC program requires an obligation to serve in the Air Force as a commissioned officer after graduation. Usually this commitment is four years. It may be longer in professions requiring extended special training, as in the case of pilot, navigator, or physician.

The minimum requirement for initial entry into the program is to be a full-time student at the University. Minimum requirements for consideration to enter the last two years of the program include a 2.0 GPA, U.S. citizenship, medical qualification, a passing mark on a physical fitness test, achievement of minimum scores on the Air Force Officer’s Qualification Test (AFQT) and completion of a four-week AFROTC summer field training course after the sophomore year.

Guaranteed Job Placement

Completion of AFROTC guarantees cadets jobs as Air Force officers. Starting salary is around $44,000 and increases to $63,000 after four years in the Air Force.

Scholarships and Financial Assistance

Any student may apply for a two or three year scholarship after joining AFROTC. In most cases, these scholarships cover tuition and fees; they also provide tax-free allowance ($250 to $400 each month) and a textbook allowance each semester. A wide variety of scholarships is available. All POC cadets receive the tax-free monthly allowance once qualified.

Facilities

The Department of Aerospace Studies is located in the ROTC Armory on 221 S. Columbia Street (diagonally across from the Carolina Inn near the center of campus). The building was completely renovated by the University in 1996. Home of the Air Force, Army and Navy ROTC programs, the armory contains classrooms, a drill deck and offices. Air Force cadet facilities include a lounge and conference room/library. AFROTC classes are held in the Armory.
Applied Professional Training

Summer programs available annually on a competitive basis to AFROTC cadets include:

Air Force Academy Free-fall Parachuting (AFAFF): A 12-day parachute-training program conducted at the United States Air Force Academy, Colorado Springs, Colorado. The course comprises strenuous physical training, conditioning, ground school and five free-fall jumps from 4,500 feet. Cadets completing the program are awarded a basic parachutist rating.

AS100 Special Training (ASSIST): A program designed to give cadets an understanding and appreciation of the diverse careers contributing to the execution of the Air Force mission. This 10-day program is conducted at various bases in the continental United States. An AFROTC instructor serves as an escort to the cadets on tours of various facilities at the base. Cadets should have a few days to “shadow” a junior officer from various career fields. Opportunities may exist for incentive flights.

Combat Survival Training (CST): A 20-day program incorporating combat, basic air crew and water survival training. Training is physically and mentally demanding and accomplished at high altitude at the United States Air Force Academy in Colorado Springs, Colorado.

Air Force Academy Soaring (SOAR): A 15-day program designed to give cadets the opportunity to experience the basic fundamentals of flight in non-powered glider operations. Training is conducted at the United States Air Force Academy (USAF) at Colorado Springs, Colorado. Cadets receive instruction in basic flight through ground school and actual flight, leading up to and possibly including cadet solo. Cadets can expect eight to 15 flights while spending five hours each day on the flight line. The majority of instruction is conducted by upper class USAFA cadets trained as instructors. The program assumes cadets have no previous flight experience.

Army Airborne Training (AAT): A 24-day program that includes strenuous physical training, conditioning, ground training and tower training, and culminates in five static-line parachute jumps. Daily physical training and formation runs are conducted in hot and humid conditions. Formation runs (three to five miles) at an average pace of seven to nine minutes per mile are conducted in fatigues and running shoes after strenuous exercise. Upon successful completion, cadets are awarded a basic parachutist rating. All training is conducted at Fort Benning, Georgia.

Foreign Language Immersion (FLI): A four-week program for cadets majoring in a foreign language. Cadets take classes in a foreign university while living with a local family or in a dorm. Cadets receive a complete language and cultural immersion.

Nurse Orientation Program (NOP): A four-week program designed to serve as an internship for cadets in an active duty Air Force hospital. Cadets receive hands-on training and practical knowledge as an Air Force nurse. Training is conducted at Wilford Hall, USAF Medical Center, Lackland AFB, in San Antonio, Texas.

Operation Air Force (OAF): A three-week program designed to educate cadets on the workings of operational units and to acquaint them with the everyday tasks, activities and perceptions of Air Force personnel. Training is conducted in locations worldwide. The beginning of the program is an orientation to the activities that make up the mission of the hosting base. Cadets are then matched to a junior officer, ideally in their chosen career field, to observe and work together for the program’s remainder.

Pentagon Internship (PENT): Provides an opportunity for cadets to work for a directorate within the Pentagon for three weeks. Cadets gain problem-solving experience working with both military and civilian personnel on real world issues and participate as team members with professionals in their field of study.

Extracurricular Activities

The AFROTC experience is much more than classroom studies. Cadets participate in a wide range of activities. These include social functions such as a formal dinner, fundraising events, color guard at home football and basketball games, field trips to military bases and publication of a cadet newspaper, the Ramjet. Arnold Air Society (AAS) is a national service organization dedicated to furthering the traditions, purposes and concepts of the U.S. Air Force as a military organization and a professional calling. The local AAS chapter is active nationwide, and AFROTC cadets attend the national convention each year.

Locally, AFROTC cadets may participate in the cadet flight orientation program, receiving four to eight one-hour sorties with a certified flight instructor.

Contact Information

AFROTC, ROTC Armory, 221 South Columbia St., (919) 962-2074, afrotc@unc.edu.

AFROTC Curriculum

General Military Course (GMC)

101 [011A] U.S. Air Force Today (1). An introduction to AFROTC and the United States Air Force (USAF); customs and courtesies, officer opportunities, core values and communications skills.


196 [096] Independent Study (1-3). Readings and research of topics regarding the U.S. Air Force.

213 [014] Air Power and Modern Warfare (HIST 213, PWAD 213) (3). Examines air power theory and practice from 1914 to the present. Focuses on the application of air power as an instrument of war and the effectiveness of that application.

301 [057] Contemporary Leadership and Management (3). This is the first part of a two-part course concerning contemporary leadership and management. Emphasis is on modern-day experiences, successes and failures, with various theories on motivating people, organizing and managing. Lectures and discussion focus on application of various principles as an Air Force officer. Class participation, comprehension and oral communication skills are stressed.

302 [065] Contemporary Leadership and Management (3). The second part of the course described above (AERO 301). Class participation, comprehension and written communication skills will be stressed.

402 [051] The Military and Contemporary Society (3). A survey and analysis of the major issues of officership in the Air Force. Lectures and discussions will center on gaining insight into the military officer today and the near future, military law, ethics, law of armed conflict and preparing for active duty as a second lieutenant.
Class participation, comprehension, written and oral communication skills will be stressed.

446 [149] Defense Policy and National Security (POLI 446, PWAD 446) (3). A study of national defense policy as affected by the constitutional and political setting, as well as its relation to foreign policy. Some attention to strategic doctrine.

500L [031L] Leadership Laboratory (0.5). Required for all AFROTC cadets. This laboratory is conducted by the cadet corps and involves career opportunities in the USAF, life and work of the USAF junior officer, and military ceremonies.

Department of African Studies and Afro-American Studies
www.unc.edu/depts/afriafam

JULIUS E. NYANG’ORO, Chair
Professors
Gerald Horne, Kenneth Janken, Julius E. Nyang’oro, Bereket H. Selassie.

Associate Professors
Roberta Ann Dunbar, Perry Hall, Reginald Hildebrand, Joseph Jordan, Michael Lambert, Karla Slocum.

Assistant Professors
Charlene Regester, Eunice Sahle.

Adjunct Assistant Professors
Timothy McMillan, Alphonse Mutima.

Introduction
The Department of African and Afro-American Studies is an interdisciplinary program leading to the bachelor of arts degree. It is administered through the College of Arts and Sciences. Prospective majors should see the department chair.

The current goal of African and Afro-American studies at UNC-Chapel Hill is to give specific and precise attention to the histories, cultures and cultural linkages of the peoples of Africa and their descendants in the New World. Although students must concentrate in either African or Afro-American studies, all majors must gain competence in both areas and thereby come to understand the cultural and historical continuities and contrasts between Africa and the African New World.

The purpose of the African studies concentration is to develop an analytical approach to contemporary Africa. Courses stress the importance of traditional values and institutions to the definition of modern African society, and they stress the historic range of commercial and political relationships with Europe and the New World. The purpose of the concentration in Afro-American studies is to develop a broad knowledge of the history and culture of the peoples of African descent in the Americas and the significant social, political, economic and humanistic issues they face.

Programs of Study
The degree offered is bachelor of arts in African and Afro-American studies, with a concentration either in Afro-American studies or African studies. Minors in Afro-American studies and African studies are also offered.

Majoring in African and Afro-American Studies: Bachelor of Arts
All General Education requirements apply. A modern foreign language is required; Swahili is encouraged for students concentrating in AFRI. Prospective majors are encouraged to take AFRI 101 or 102 to satisfy the historical analysis Approaches requirement and AFRI 101 to satisfy the (non-historical) social and behavioral sciences Approaches requirement and the beyond the North Atlantic world and global issues Connections requirements.

Concentration in African-American Studies
The major requires the completion of ten courses (thirty hours) including five core courses:
AFRI 101
AFAM 101, 102, 398
AFRI-474
The remaining fifteen hours should be chosen from any of the Afro-American studies courses offered by the department, including courses cross-listed with other units. At least one of these additional courses should be numbered 400 or above. Frequently offered courses include: AFAM 254, 258, 259, 190, 266, 267, 371, 276 and 428.

Concentration in African Studies
Core Courses
AFRI 101
AFAM 101 or 102
ANTH 226
POLI 241
AFRI/AFAM 474
Plus one of the following:
HIST 187, 278 and 479
Plus two of the following:
AFRI 190, 261, 262, 263, 264, 265, 266 and 296
Plus one of the following:
AFRI 520, 521, 522 and 523
Plus one of the following:
AFRI 396 (permission only); ANTH 455 and 460; ECON 465; GEOG 268; POLI 437, COMM 649

Minor in African and Afro-American Studies
The undergraduate minor in African-American studies requires the completion of five courses (fifteen hours) including three core courses listed below.
Core Courses
AFRI 101, AFAM 101 and 102
The remaining six hours may be chosen from any of the Afro-American studies courses offered by the department, including courses cross-listed with other units, such as:
AFAM 342 (ANTH 342, RELI 342)
AFAM 400 (SOWO 400)
AFAM 412 (ICMC 342)
AFAM 430 (AFRI 430, WMST 430)
Minoring in African Studies

The undergraduate minor in African studies consists of fifteen hours. Students are strongly encouraged to take AFRI 101 in their first two years.

Required Course

AFRI 101

Four additional courses, selected in consultation with the African studies advisor, at least two of which must be chosen from List A and at least one at the 400-level. As many as two courses may be chosen from List B.

List A

AFRI 190, 261, 262, 263, 264, 265, 266, 520, 521, 522, 523; AFRI/AFAM 474.

List B

ANTH 226; POLI 241, 437; GEOG 268; HIST 187, 479

Honors in African and Afro-American Studies

Students with an overall GPA of 3.2 or higher at the beginning of their senior year are encouraged to apply for candidacy for the B.A. with honors. Students interested in undertaking honors research and the writing of a thesis should consult with the undergraduate studies advisor as early as possible. Candidates approved will enroll in AFAM or AFRI 691H and 692H (Honors Research I and II). These courses will count as part of the major requirements in lieu of one course to be determined in consultation with the advisor and with the approval of the chair.

Special Opportunities in African and Afro-American Studies

Departmental Involvement

The department works very closely with two important research units on campus: the African Studies Center and the Institute for African American Research. These two units provide an opportunity for the advanced study of issues concerning Africa and its diaspora. Two student organizations of note are the Black Student Movement (BSM) and the Organization for African Students' Interests and Solidarity (OASIS). Finally, the Sonja Haynes Stone Center for Black Culture and History is a resource for students in terms of programming and a library on Aficanana studies.

Experiential Education

Students are encouraged to gain experiential education through a supervised internship at home or abroad. Students identify appropriate readings in consultation with a supervising professor and write a paper that integrates published studies and their experience.

Study Abroad

There are several opportunities for study abroad. Significantly, in collaboration with the Undergraduate Honors Office, every fall semester the department runs an honors study abroad program in Cape Town, South Africa. Through study abroad, students can spend a semester or year at the University of Dar es Salaam, Tanzania, in Senegal, or in Cairo, Egypt.

Undergraduate Research

Faculty in the department support undergraduate research through honors supervision and encouragement of independent research through summer internships and visits to Africa and other areas of the African diaspora. Opportunities for research are individually tailored.

Graduate School and Career Opportunities

The skills and perspectives of African and Afro-American studies provide an excellent background for students considering careers in international development, education, business, government or diplomacy. Students concentrating in African and Afro-American studies go on to a wide variety of managerial, teaching and research positions. Other careers for which an African and Afro-American studies concentration is excellent preparation include law, the foreign service or other positions in government, communication, social work, community development and public administration.

Contact Information

Dr. Julius Nyang'oro, Chair, CB# 3395, 109 Battle Hall, (919) 966-5496.

AFRI

050 First-Year Seminar: Kings, Presidents and Generals: Africa's Bumpy Road to Democracy (3). An introduction to Africa's modern history and politics with a special focus on types of leadership involved in governmental institutions.

101 [440] Introduction to African Civilization (3). Introduction to principal features of African civilization through examination of geopolitical context; historical themes; and selected social, political, economic, religious and aesthetic characteristics of both traditional and modern Africa.

190 [060] Topics in African Studies (3). A seminar for junior majors in the curriculum and others with some background in the study of Africa. Discussion and research papers on one topic selected for emphasis each semester; e.g., urbanization, literature, etc.


262 [062] The Literature of Africa (3). An introduction to African literature. In addition to substantive themes, we will identify major stylistic characteristics of modern African literature with particular attention to the ways in which African language, literature and traditional values have affected modern writing.


264 [064] African Art and Culture (3). Introduction to the plastic arts of sub-Saharan Africa through study of their relationship to the human values, institutions and modes of aesthetic expression of select traditional and modern African societies.

265 [065] Africa in the Global System (3). A seminar that critically examines the historical and theoretical basis of the state's centrality in economic development in African countries. Relevant case studies drawn from sub-Saharan Africa.

students to non-Western perspectives and comparative study of ecological, social and economic factors that influence the welfare of contemporary African communities. Examination of famine, population growth and health issues within the context of African cultural and social systems.

296 [090] Independent Studies (1-6). Prerequisite, permission. Independent study project designed particularly in conjunction with overseas study.

368 [068] Political Protest and Conflict in Africa (3). This course surveys contemporary forms of political conflict and protest in Africa. The nature, causes and consequences of these conflicts will be examined.

370 [070] Policy Problems in African Studies (3). A seminar for senior majors and others with some background in the study of Africa. Lectures, readings and research projects on one problem each semester concerning policy formation by African leaders or on United States-Africa policy issues.

375 [075] Politics of Cultural Production in Africa (3). Prerequisite, AFRI 101 or equivalent. Explores the role that the cultural realm plays in legitimizing, reproducing, resisting and uncovering dominant structures of power in Africa.

395 [115] Field Research Methods in African Studies (3). Prerequisite, AFRI 101 or equivalent. This course will prepare students to conduct field research in Africa by looking at how to write a proposal, how to get research permission and how to collect qualitative data.

396 [190] Independent Studies (1-6). Prerequisite, permission. Independent study project defined by student and faculty advisor for advanced undergraduate and graduate students.

416 [116] Human Rights and Social Justice Movements in Africa (3). Prerequisite, AFRI 101 or equivalent. Examines theoretical and philosophical debates on human rights and explores how they have informed major themes of human rights struggles in Africa.

430 [130] Comparative Studies in Culture, Gender and Global Forces (AFAM 430, WMST 430) (4). Prerequisite, permission required. Examines participatory development theory and practice in Africa and the United States in the context of other intervention strategies and with special attention to culture and gender. Requires two to four hours a week of community service.

474 [174] Key Issues in African and Afro-American Linkages (AFAM 474) (3). For advanced undergraduates and graduate students. This course is intended to explore theoretical and methodological issues concerning the historical linkages between African and Afro-American peoples.

480 [080] Ethnography of Africa (3). By examining ethnographic texts, students will learn about topics in African studies such as systems of thought, aesthetics, the economy, politics, social organization, identity and the politics of representation.

520 [120] Contemporary Southern Africa (PWAD 520) (3). Prerequisite, AFRI 101 or equivalent. Study of the history, politics and economic development of southern Africa in the 20th century.


522 [122] West Africa: Society and Economy in the Twentieth Century (3). Prerequisite, AFRI 101 or equivalent. Interdisciplinary course on 20th-century west Africa. Topics vary but are likely to include demography and health, gender, urbanization, labor, religion and politics and education.

523 [123] Central Africa: The Politics of Development (3). Prerequisite, AFRI 101 or equivalent. Study of the postcolonial political economies of central African states, with emphasis on the state's role in development, the changing character of state/society relationships (including recent pressures for democratization), and the local impact of regional and global external linkages.

524 [124] North-East Africa (3). Prerequisite, AFRI 101 or equivalent. This course covers the history of colonial governments between the end of World War II and the onslaught of decolonization (1919-1994) in north-east Africa and the region's political systems thereafter.

535 [182] Women and Gender in African History (HIST 535) (3). Analysis of historical transformations in Africa and their effects on women's lives and gender relations. Particular themes include precolonial societies, colonialism, religious change, urban labor, nationalism and sexuality.


692H [098B] Honors Research II (3). Completion of an honors thesis under the direction of a member of the faculty. Required of candidates for graduation with honors in African studies.

LGLA

101 Elementary Lingala I (3). Introduces the essential elements of Lingala structure and vocabulary and aspects of African cultures. Aural comprehension, reading, speaking and writing are stressed.

102 Elementary Lingala II (3). Prerequisite, LGLA 101. Continues the introduction of the essential elements of Lingala structure and vocabulary and aspects of African cultures. Aural comprehension, reading, speaking and writing are stressed.

203 Intermediate Lingala III (3). Prerequisites, LGLA 101 and LGLA 102. Designed to increase reading and writing skills. Introduction of literature. Aural comprehension and speaking skills stressed.

SWAH

112 Intensive Kiswahili 1-2 (6). The 112 course covers the material in the SWAH I and SWAH II sequence in a single semester.

234 Intensive Kiswahili 3-4 (6). Prerequisite, SWAH 112 or SWAH 402. The 234 course covers the material in the SWAH III and SWAH IV sequence in a single semester.

401 [001] Elementary Kiswahili I (3). Introduces the essential elements of Kiswahili structure and vocabulary and aspects of African cultures. Aural comprehension, reading, speaking and writing are stressed.

402 [002] Elementary Kiswahili II (3). Prerequisite, SWAH 401. Continues the introduction of essential elements of Kiswahili struc-
ture and vocabulary and aspects of African cultures. Aural comprehension, reading, speaking and writing are stressed.

403 [003] Intermediate Kiswahili III (3). Third semester Kiswahili, designed to increase reading and writing skills. Introduction of literature. Aural comprehension and speaking skills stressed.

404 [004] Intermediate Kiswahili IV (3). Prerequisite, SWAH 403. Fourth semester Kiswahili, designed to increase reading and writing skills. Introduction of more compound structures. Emphasis on literature, including drama, prose and poetry and creative writing. Aural comprehension and speaking skills stressed.

WOLO

101 Elementary Wolof I (3). Introduces the essential elements of Wolof structure, including present tense and commands, and vocabulary, with an emphasis on conversational skills. Also introduces the culture, artistic tradition and geography of Senegal.

102 Elementary Wolof II (3). Prerequisite, WOLO 101. Continues introduction of conversational skills, building vocabulary and adding verb tenses. Also introduces Senegalese cinema and theater. Prepares students to travel to Senegal and enter in-country intermediate Wolof instruction.

203 Intermediate Wolof I (3). Prerequisites, WOLO 101 and WOLO 102. This course continues conversational and written Wolof is especially appropriate for students planning to travel to Senegal. It will introduce students to Senegalese literature and proverbs.

AFAM

050 [006E] First-Year Seminar: Defining Blackness (3). Blackness and whiteness as racial categories have existed in the United States from the earliest colonial times, but their meanings have shifted and continue to shift. Over the semester we will attempt to define and refine blackness in the United States.

051 [006K] First-Year Seminar: Mscaradies of Blackness (3). This course is designed to investigate how race has been represented in cinema historically with a emphasis on representations of race when blackness is maskeraded.

101 [040] Black Experience to 1865 (3). An interdisciplinary course designed to provide a broad survey of the black experience in the Americas with special emphasis on the 16th, 17th and 18th centuries.

102 [041] Black Experience Since 1865 (3). Special emphasis on post-emancipation developments.

190 [065] Topics in Afro-American Studies (3). Intensive analysis of a selected topic related to the black experience. Topic will vary with the instructor.

252 [052] Blacks in the West (3). An interdisciplinary course designed to provide a broad survey of the black experience in the Americas with special emphasis on post-emancipation developments.

254 [054] Blacks in Latin America (3). The majority of people of African descent in this hemisphere live in Latin America. This course will explore various aspects of the black experience in Latin America.


259 [059] Black Influences on Popular Culture (3). This course examines the influence of African American expressive culture, particularly popular music, on American mainstream culture.

262 [062] Foundations of Black Education (3). The first semester deals primarily with sources of education for slaves and free blacks before the Civil War while the second semester addresses policy considerations underlying public education for blacks since the Civil War.


266 [066] Black Women in America (WMST 266) (3). An examination of the individual and collective experiences of black women in America from slavery to the present and the evolution of feminist consciousness.

267 [067] Afro-American Leadership Styles (3). From a vast array of leadership styles students are expected to research a major figure and analyze his or her leadership behavior. Studies will examine critically the ideological and programmatic responses of black leaders to the socio-politico-economic problems of black people.

269 [069] Black Nationalism in the United States (3). This course traces the evolution of black nationalism, both as an idea and a movement, from the era of the American Revolution to its current Afrocentric expressions.

274 [055] Afro-American Political Philosophy (PHIL 274) (3). A philosophical examination of the writings of African Americans on slavery, racism and discrimination. Among the main figures to be studied are Martin Delany, Frederick Douglass, Booker T. Washington, W. E. B. DuBois, Marcus Garvey and Martin Luther King.

276 [076] The African American in Motion Pictures: 1900 to the Present (3). This course will analyze the role of the African American in motion pictures, explore the development of stereotypical portrayals and investigate the efforts of African American actors and actresses to overcome these portrayals.

278 [078] Black Caribbean in the United States (3). This course will look at the experiences of black Caribbean immigrants in the United States and the activities in which they participate, as well as their shifting senses of their identities.

280 [080] Blacks in North Carolina (3). This course is an overview of the black experience in North Carolina with special emphasis on Chapel Hill and Wilmington.

285 [085] African American Women in the Media: Identity, Politics and Resistance (WMST 285) (3). This course will acquaint students with how African American women have been depicted (and how they depicted themselves) in 20th- and 21st-century media. The course will examine representations of African American women in several aspects of culture including: film, art, print, television, theater and music.


294 [096] African Americans and Native Americans: Explorations in Narrative, Identity and Place (3). Prerequisite, one AFAM class. Interdisciplinary exploration of the interactions that characterized African American and Native American lives in what is now the United States.

297 [097] Pan-Africanism in the Americas (3). Prerequisite, one AFAM class. Explores the philosophical and intellectual origins of Pan-Africanism in the Africa diaspora.

340 [140] Diaspora Art and Cultural Politics (3). Prerequisite, one AFAM class. Examines the socio-political dimensions of African diaspora art and culture with a focus on African Americans in the 20th century.

342 [090] African American Religious Experience (ANTH 342, FOLK 342, RELI 342) (3). Prerequisite, at least one course in AFAM, ANTH, or RELI. An introduction to the diversity of African American beliefs, experiences and expressions from the colonial era to the present. Exploration will be both historical and thematic.

371 [074] Emancipation in the New World (HIST 371) (3). Will examine the way that the process of emancipation unfolded in Haiti, Jamaica and Cuba, with major emphasis on emancipation in the United States.

387 [077] 20th-Century African American Art (ART 387) (3). This course will focus upon the expression of African Americans in the United States in the 20th century with some discussion of Caribbean and South American art.

392 [092] Afro-America: Contemporary Issues (3). This course will allow students to research, analyze and engage some pressing political, economic and social issues confronting black people in North America and elsewhere in the diaspora.

395 [071] Field Research in the Black Experience (3). Prerequisites, Registration by permission of the instructor. Individual research and practicum.

396 [190] Independent Studies (1-6). Prerequisites, By permission only. Independent study projects defined by student and faculty advisor for advanced undergraduate and graduate students.

398 [070] Seminar in Afro-American Studies (3). An examination of the historical, philosophical, theoretical and methodological issues underlying the field of Afro-American studies. For senior AFAM majors. Major research paper required.

400 [106] Racism: Implications for Human Services (SOWO 400) (3). The organizing focus for this course will be how to work with minority groups, especially African Americans. The conceptual framework will be directed toward relationship building to enhance service delivery.

408 [088] Black Thought and Black Intellectuals in the 19th and 20th Centuries (3). An examination of the principal intellectual trends in black life during the 19th and 20th centuries as well as the life and work of the intelligentsia.


428 [128] Bioethics in Afro-American Studies. (3). Will examine the process involved in resolving moral dilemmas pertaining to people of the African diaspora.


474 [174] Key Issues in African and Afro-American Linkages (AFRI 474) (3). For advanced undergraduates and graduate students. This course is intended to explore theoretical and methodological issues concerning the historical linkages between African and African American peoples.

487 [081] The African Impulse in African American Art (ART 487) (3). This class will examine the presence and influences of African culture in the art and material culture of Africans in the Americas from the colonial period to the present.

491 Individual Internships for AFAM Majors/Minors (1). Students work internships and develop an academic project relating to their internship experience. Course can help students answer the question: What can I do with an AFAM or AFRI major?

522 [122] DuBois, Howard Thurman and Malcolm X (3). Examines the ideas of the scholar, W. E. B. DuBois; theologian, Howard Thurman; and political theorist, Malcolm X. Major issues will be conceptualized from the distinct perspectives represented by those leaders.

550 [150] The Black Church in America (3). A survey of the historical development of the black church in America, beginning during the antebellum period and continuing to the present day.

560 The Harlem Renaissance (3). This course provides an overview of some of the outstanding themes of the Harlem Renaissance through readings, prints and photographs, lectures, and class discussion.

569 [169] African American Women's History (HIST 569, WMST 569) (3). The course covers the history of black women in United States history from the 18th century to the present. It deals with such themes as work, family, community, sexuality, politics, religion and culture.


691H [098A] Honors Research I (3). Readings in Afro-American studies and beginning of directed research on an honors thesis. Required of all candidates for graduation with honors in Afro-American studies.

692H [098B] Honors Research II (3). Completion of an honors thesis under the direction of a member of the faculty. Required of all candidates for graduation with honors in Afro-American studies.

697 [094A] Black Arts and Black Aesthetics (3). The concept of the black aesthetic as it is manifested in black American performing, visual, literary and musical arts.
Curriculum in American Studies
www.unc.edu/depts/amerstud

JOY KASSON, Chair

Professors
Robert Allen, Michael Green, Philip Gura, John Kasson, Joy Kasson, Theda Perdue.

Associate Professor
Timothy Marr, Rachel Willis.

Assistant Professors
Marcie Ferris, Tol Foster, Jay Garcia.

Adjunct Professors
W. Fitzhugh Brundage, Robert Cantwell, William Ferris, Peter Filee, Jon Finson, Joseph Flora, Larry Griffin, Michael Lienesch, Donald Madison, Thomas Tweed.

Adjunct Associate Professor
Laurie Maffly-Kipp.

Affiliated Faculty
William Andrews (English), Laurence Avery (English), Jan Bardsley (Asian Studies), Gretchen Bataille (General Administration), Erin Carlston (English), John Covach (Music), Tyler Curtain (English), Maria DeGuzman (English), Connie Eble (English), Reginald Hildebrand (African and Afro-American Studies), Fred Hobson (English), Sylvia Hoffert (Women's Studies), Michael Hunt (History), Jocelyn Neal (Music), Rosa Perlmuter (Romance Languages), Linda Wagner-Martin (English), Harry Watson (History), Thomas Warburton (Music), Gang Yue (Asian Studies).

Emeritus Professor
Townsend Ludington.

Introduction
The Curriculum in American Studies was established in 1968 as one of the first interdisciplinary programs at the University of North Carolina at Chapel Hill. Since then, American Studies has developed a tradition of vigorous teaching and innovative curriculum that offers stimulating opportunities to study the United States and the diversity and influence of its peoples, institutions, texts, performances and places. The curriculum's commitment to interdisciplinary approaches empowers students to value the nation's complexity by engaging with a variety of historical, literary, artistic, political, social and ethnic perspectives. American studies majors graduate with a comprehension of the dynamics of American culture that prepares them to make a responsible and critical difference in the variety of professions they choose to pursue.

At the core of the undergraduate major are two required courses in interdisciplinary cultural analysis: AMST 101 The Emergence of Modern America (or AMST 334 or 335 Defining America) and AMST 201 or 202 Approaches to American Studies. Majors also choose at least two advanced seminars in the curriculum that focus readings and research on topics representative of both the talents of its faculty members and emergent directions in American cultural scholarship. For the remainder of their requirements, majors select a series of relevant electives offered by over a dozen different University departments and curricula. These courses deepen their interdisciplinary awareness of American traditions, institutions, literature and arts as well as expose them to a broader diversity of American experiences and perspectives. Students interested in more specialized study can elect to concentrate their electives in Southern studies or Native American studies. The Southern studies concentration focuses critical attention on the history, society, culture and expression of the American South with its regional, state and local distinctiveness. The Native American studies concentration (and minor) emphasizes the ethnohistory of Native American peoples and cultures and their relations with settler societies.

Programs of Study
The degree offered is bachelor of arts in American studies. Majors may select concentrations in Southern studies or Native American studies. Minors are offered in American studies and Native American studies.

Majoring in American Studies: Bachelor of Arts

Regular Concentration Requirements
The major in American studies consists of nine courses, with one from each of the following categories (courses listed more than once can be counted for only one category):

Introduction (one of the following): AMST 101, 334 or 335

Approaches: AMST 201 or 202

Topics (one of the following): AMST 253, 256, 257, 258, 259, 266, 268, 269, 275, 277, 285, 290, 291, 292, 293

Seminar (one of the following): AMST 286, 336, 375, 378, 381, 384, 385, 390, 393, 482, 483, 486, 499

Literature (one of the following): AMST 256, 257, 290, 286, 675; ENGL 343, 344, 345, 347, 367, 369, 374, 446; RELI 240

Ideas and Traditions (one of the following): AFAM 262, 263, 408, 550; AMST 269; ECON 330, 443; EDUC 441; JOMC 448; HIST 362, 364, 365, 368, 369, 561, 563, 564, 573, 578, 581, 582, 584, 622, 624; PHIL 274, 428; POLI 274, 280, 410, 411; RELI 241, 340, 341, 440, 441, 442, WMST 375

Expressive Arts and Popular Culture (one of the following): AFAM 259, 276, 287; AMST 260, 268, 375, 499; ART 286, 287, 387; HIST 579; MUSC 143, 144, 145, 281, 286; RECR 311

Regionalism, Transnationalism and the Public Sphere (one of the following): AFAM 278, 371, 474, 487; AMST 259, 275, 277, 285, 293, 385, 394 and 394L, 398, 486; ANTH 205; COMM 573, ENGL 315, 475; FOLK 340; GEOG 260, 261, 262, 454; HIST 232, 278, 366, 367, 374, 334, 568, 570, 577, 586, 587, 621; JOMC 242; POLI 231, 405, 418, 443, 459; SSCI 115, 468

Ethnicity and Diversity (one of the following): AFAM 190, 266, 267, 269, 342, 392, 428; AMST 231, 233, 234, 235, 253, 258, 336, 486; ANTH 230, 330; ASIA 350; HIST 232, 569, 589; JOMC 342; POLI 217, 218, 419; RELI 141, 142, 225, 242, 243, 423, 540

Southern Studies Concentration
The major in American studies with a concentration in Southern studies consists of nine courses, with one from each of the following categories (courses listed more than once can be counted for only one category):

Introduction (one of the following): AMST 101, 334 or 335

Approaches: AMST 201 or 202

Topics (one of the following): AMST 253, 256, 257, 258, 259, 266, 268, 269, 275, 277, 285, 290, 291, 292, 293

Seminar (one of the following): AMST 286, 336, 375, 378, 381, 384, 385, 390, 393, 482, 483, 486, 499
Southern Literature and Language (one of the following): COMM 274; ENGL 367, 373, 374
History of the South (one of the following): AFAM 258; AMST 375; HIST 232, 565, 568, 569, 570, 586, 587, 588, 589, 621, 670
Expressive Arts and Popular Culture of the South (one of the following): AFAM 342; AMST 375; ENGL 587, 589; FOLK 610; MUSC 144, 145, 286
State and Local Culture (one of the following): AFAM 395; AMST 394, 398, 486; ENGL 375; GEOG 262; HIST 366, 367; POLI 405
Southern Society (one of the following): AFAM 550; AMST 253, 275, 486; ANTH 205, 230, 350; FOLK 340; GEOG 261; SOCI 115

Native American Studies Concentration
The major in American studies with a concentration in Native American studies consists of nine courses from the following categories (courses listed more than once can be counted for only one category):
Introduction (one of the following): AMST 101, 334 or 335
Approaches: AMST 201 or 202
Topics (one of the following): AMST 253, 256, 257, 258, 259, 266, 268, 269, 275, 277, 285, 290, 291, 292, 293
Seminar (one of the following): AMST 286, 336, 375, 378, 381, 384, 385, 390, 393, 482, 483, 486, 499
Native American Studies: AMST 110
Native American History (three of the following): AMST 231, 233, 234, 335; HIST 232
Native American Culture (one of the following): ANTH 230, 350

International American Studies Concentration
The major in American Studies with a concentration in International American Studies consists of nine courses from the following categories:
Introduction (one of the following): AMST 101, 334 or 335
Approaches: AMST 201 or 202
Up to four approved American culture courses taken at an American studies international partner institution or other study abroad program. These courses should deal primarily with the United States, or with the interaction between American culture and one or more other cultures, or with the impact within the United States of other cultures. Courses must be approved by the American studies chair or director of undergraduate studies before the study abroad experience.

The remainder of courses should be taken at UNC, with at least one from each of the following categories:
America in the World: AMST 259, AMST 277, AMST 378, AFAM 430, CMPL 379, HIST 212, HIST 213, HIST 281, HIST 373, HIST 570, HIST 577, INTS 512, POLI 231, POLI 443, POLI 456, POLI 459
The World in America: AMST 258, AMST 388, AMST 685, AFAM 278, AFAM 293, AFAM 297, AFAM 340, AFAM 371, AFAM 474, ART 487, ASIA 350, ASIA 452, ASIA 453, ENGL 265, ENGL 361, ENGL 364, ENGL 365, ENGL 578, GEOG 452, HIST 278, POLI 450, PLCY 249, RELI 423, RELI 445, RELI 580, SLAV 469

Minoring in American Studies
The undergraduate minor in American studies consists of five courses in American studies, with courses chosen one from each of the following categories (courses listed more than once can be counted for only one category):
Introduction (one of the following): AMST 101, 334 or 335
Approaches: AMST 201 or 202
Topics (one of the following): AMST 253, 256, 257, 258, 259, 266, 268, 269, 275, 277, 285, 290, 291, 292, 293
Seminar (one of the following): AMST 286, 336, 375, 378, 381, 383, 384, 385, 390, 393, 482, 483, 486, 499
Elective (one of the following): One AMST course above AMST 202

Minoring in Native American Studies
The minor in Native American studies consists of five courses.
AMST 110/HIST 110 Introduction to the Cultures and Histories of Native North America, is required.
Students should select four additional courses from those currently available:
AMST 231/HIST 231 Native America: The East
AMST 233/HIST 233 Native America: The West
AMST 234/ANTH 234/HIST 234 Native American Tribal Studies
AMST 235/HIST 235 Native America in the 20th Century
AMST 336 Native Americans in Film
ANTH 230 American Indian Societies
ANTH 350 Archaeology of North American Indians
HIST 232 History of the Native Americans of the Southeast
HIST 576/WMST 576 Ethnohistory of Native American Women

Minoring in International American Studies
The minor in International American Studies consists of five courses.
Introduction (one of the following): AMST 101, 201, 202, 334, 335.
Up to two approved American culture courses taken at an American studies international partner institution or other study abroad program. These courses should deal primarily with the United States, or with the interaction between American culture and one or more other cultures, or with the impact within the United States of other cultures. Courses must be approved by the American studies chair or director of undergraduate studies before the study abroad experience.

The remainder of courses should be taken at UNC, with at least one from each of the following categories:
America in the World: AMST 259, AMST 277, AMST 378, AFAM 430, CMPL 379, HIST 212, HIST 213, HIST 281, HIST 373, HIST 570, HIST 577, INTS 512, POLI 231, POLI 443, POLI 456, POLI 459
The World in America: AMST 258, AMST 388, AMST 685, AFAM 278, AFAM 293, AFAM 297, AFAM 340, AFAM 371, AFAM 474, ART 487, ASIA 350, ASIA 452, ASIA 453, ENGL 265, ENGL 361, ENGL 364, ENGL 365, ENGL 578, GEOG 452, HIST 278, POLI 450, PLCY 249, RELI 423, RELI 445, RELI 580, SLAV 469
Honors in American Studies

The American studies interdisciplinary major offers a two-course honors program: AMST 691H, fall semester, and AMST 692H, spring semester. Students with a 3.2 grade point average are eligible to register for AMST 691H. With the approval of the Honors Office, a student with a slightly lower average may participate in honors work under certain conditions. During the two semesters devoted to honors work, students conduct individual research and prepare an honors thesis under the supervision of a faculty member.

Special Opportunities in American Studies

Experiential Education

The American Studies Curriculum offers a seminar on Service Learning in America (AMST 398) and offers credits for approved projects in Internship (AMST 397) and Independent Study (AMST 396). Students have learned about American studies by serving the community in museums, schools, social agencies and other cultural institutions.

Study Abroad

The American Studies curriculum encourages its majors to consider a semester or more of study abroad and has developed close relations with several American studies programs in different countries. Studying American experience in international contexts is an integral part of understanding the place and influence of the United States in the world. Student learning is enhanced by the perspectives gained by examining how American subjects are taught in universities around the globe as well as encountering the international students who enroll in American studies courses in Chapel Hill. Students can receive American studies major credit for selected study abroad programs and are encouraged to make study abroad part of their academic plans. Study abroad courses can count toward the international American studies major or minor. Students interested in this experience should consult with the Study Abroad Office about foreign exchange programs sponsored by UNC-Chapel Hill or with the director of undergraduate studies.

Undergraduate Awards

The Peter C. Baxter Memorial Prize is awarded annually to the outstanding senior majoring in American studies.

Undergraduate Research

American studies majors can develop a two-semester honors thesis project in consultation with an advisor. Students have received summer undergraduate research fellowships, earned research support and travel awards and presented their work at the Annual Celebration of Undergraduate Research each spring.

Graduate School and Career Opportunities

American studies is an excellent liberal arts major for students interested in graduate and professional school study. The major prepares students for graduate work in fields such as American history and literature. After receiving their baccalaureate degree, American studies majors have been consistently accepted in law and business schools, which are interested in students with a broad, interdisciplinary undergraduate background. American studies provides a solid basis for a variety of career choices, including public service, business, teaching and journalism.

Contact Information

Director of Undergraduate Studies, 227 Greenlaw Hall, CB# 3520, (919) 962-4062, fax (919) 962-3520.

AMST


051 [006E] First-Year Seminar: Navigating America (3). Analyze American journeys and destinations, focusing on how resources, technology, transportation and cultural influences have transformed the navigation and documentation of America. Multimedia documentation of personal journey required.

052 [006E] First-Year Seminar: The Folk Revival: The Singing Left in 20th-Century America (3). Enlisting fiction, film and recorded music, this course will acquaint first-year students with the cultural and historical contexts of a range of American traditional musics and explore the social, political and cultural meanings of these musics in a revivalist movement.

053 [006I] First-Year Seminar: The Family and Social Change in America (3). This course uses changes in the American family over the past century as a way of understanding larger processes of social change.

054 [006E] First-Year Seminar: The Indians' New Worlds: Southeastern Histories from 1200 to 1800 (ANTH 654) (3). This course uses archaeological and historical scholarship to consider the histories of the Southern Indians from the Mississippian period to the end of the 18th century.

055 [006I] First-Year Seminar: Birth and Death in the United States (3). This course explores birth and death as essential human rites of passage that are invested with significance by changing and diverse American historical, cultural, ethnic and ethical contexts.

056 [006I] First-Year Seminar: Exploring American Memory (3). This course examines the contested and changing role of memory in constructing historical meaning, creating political ideologies and imagining cultural communities.

AMST 057 [006E]: First-Year Seminar: Access to Higher Education (3). This course explores barriers to access to American colleges and universities. Success in application, admission, matriculation, and graduation requires ability and experience, and is also a function of other advantages.

AMST 058 [006I]: First-Year Seminar: Cultures of Dissent: Radical Social Thought in America Since 1880 (3). This course examines the history of radical social thought in American history, focusing in particular on examples from "leftist" and "collectivist" traditions and emphasizes the many forms radicalism has taken by exploring different radical thinkers' dissenting critiques of dominant political, economic and social arrangements.

101 [020] The Emergence of Modern America (3). Interdisciplinary examination of two centuries of American culture focusing on moments of change and transformation.

110 [010] Introduction to the Cultures and Histories of Native North America (HIST 110) (3). An interdisciplinary introduction to Native American history and studies. The courses use history, literature, art and cultural studies to study the Native American experience.
201 [040] Literary Approaches to American Studies (3). A study of interdisciplinary methods and the concept of American studies with an emphasis on the historical context for literary texts.

202 Historical Approaches to Native American Studies (3). A study of interdisciplinary methods and the concept of American Studies with an emphasis on historical and cultural analysis.

231 [072A] Native American History: The East (HIST 231) (3). Covers the histories of American Indians east of the Mississippi River and before 1840. The approach is ethnohistorical.

233 [072C] Native American History: The West (HIST 233) (3). Deals with the histories of Native Americans living west of the Mississippi River. It begins in the pre-Columbian past and extends to the end of the 19th century.

234 [072D] Native American Tribal Studies (ANTH 234, HIST 234) (3). This course introduces students to a tribally specific body of knowledge. The tribal focus of the course and the instructor changes from term to term.

235 [072E] Native America in the 20th Century (HIST 235) (3). This course deals with the political, economic, social and cultural issues important to 20th-century Native Americans as they attempt to preserve tribalism in the modern world.

246 Introduction to American Indian Literatures (3). Students will develop a working knowledge of American Indian cultural concepts and historical perspectives utilizing poetry, history, personal account, short stories, films, and novels.

253 [053] A Social History of Jewish Women in America (JWST 253, WMST 253) (3). Course examines the history and culture of Jewish women in America from their arrival in New Amsterdam in 1654 to the present and explores how gender shaped this journey.

256 [056] Anti-'50s: Voices of a Counter Decade (3). We remember the 1950s as a period of relative tranquility, happiness, optimism and contentment. This course will consider a handful of counter-texts: voices from literature, politics and mass culture of the 1950s that for one or another reason found life in the postwar world repressive, empty, frightening or insane and predicted the social and cultural revolutions that marked the decade that followed.


258 [058] Captivity and American Cultural Definition (3). Examines how representations of captivity and bondage in American expression worked to construct and transform communal categories of religion, race, class, gender and nation.

259 [059] Tobacco and America (3). Explores the significance of tobacco from Native American ceremony to the Southern economy by focusing on changing attitudes toward land use, leisure, social style, public health, litigation and global capitalism.

266 [066] The Folk Revival: The Singing Left in Mid-20th-Century America (3). Emphasizing cultural stratification, political dissent and commercialization in American youth and popular movements, this course will map the evolving political and cultural landscape of mid-20th-century America through the lens of the Folk Revival, from its origins in various regionalist, nativist and socialist traditions of the 1920s to its alliance with the civil rights and anti-war movements of the ‘60s.

268 [068] American Media and American Culture (3). Examines American film and television production, texts and reception as instances of American culture. The particular time period, genre, media form, audience and set of cultural issues may change from year to year.

269 [069] Mating and Marriage in American Culture (3). Interdisciplinary examination of the married condition from colonial times to the present. Themes include courtship and romance; marital power and the egalitarian ideal; challenges to monogamy.

275 Documenting Communities (3). Covers the definition and documentation of communities within North Carolina through research, study and field work of communities. Each student produces a documentary on a specific community.

277 [077] Nationhood and National Identity (3). How is a nation more than a state? How do rituals, symbols, memorials and celebrations help to create national identity? What is patriotism? Nationalism? What are alternative notions of nationhood?

285 [064] Access to Work in America (ECON 285) (3). Focus on systemic and individual factors affecting access to work including gender, race, age, disability, transportation, international competition, technological progress, change in labor markets, educational institutions and public policy.

286 [313] Nature Writing (ENGL 286) (3). Journey into the tradition of nature writing in America. Course will consider the historical, philosophical and cultural backdrop for the practice of nature writing in America. Students will read several classic prose works in the tradition.

290 [060] Topics in American Studies (3). Special topics in American studies.


334 [034H] Defining America I (3). An interdisciplinary seminar that considers the changing understandings of what it meant to be American up through the U.S. Civil War.

335 [035H] Defining America II (3). An interdisciplinary seminar that investigates the changing meanings of being American since the U.S. Civil War.

336 [070] Native Americans in Film (3). This course is about Hollywood's portrayal of Indians in film, how Indian films have depicted Native American history and why the filmic representation of Indians has changed over time.

375 Cooking Up a Storm: Exploring Food in American Culture (FOLK 375) (3). Course will examine the history and meaning of food in American culture and will explore the ways in which food shapes national, regional and personal identity.

378 Nation Building and National Identity in Australia and the United States (3). This course compares the cultural and
social histories of two settler societies: the United States and Australia. Focus on selected topics, including landscape, indigenous peoples, national identity, exploration.

384 [084] Myth and History in American Memory (3). Examines the role of memory in constructing historical meaning and in imagining the boundaries of cultural communities. Explores popular rituals, artifacts, monuments and public performances.


390 [080] Seminar in American Studies (3). Seminar in American studies topics with a focus on historical inquiry from interdisciplinary angles.

393 [085] Back to the Future: Chicago, 1893 (3). This course will explore Chicago at the end of the 19th century from the perspective of our own post-industrial, “postmodern” condition.

394 [094] The University in American Life: The University of North Carolina (3). This team-taught course is for juniors and seniors and is multifaceted in its inquiry into the role of the university in American life. UNC-Chapel Hill is used as the case study.

394L Role of the University (1). Pre- or corequisite, AMST 394. Field laboratory explores UNC campus sites and Triangle-area universities. One four-hour laboratory a week.

396 [096] Independent Study in American Studies (3). Prerequisite, permission of the chair. Directed reading under supervision of a faculty member.

397 [099] Internship (1-3). Prerequisite, permission of chair and supervising faculty. Internship. Variable credit.

398 [098] Service Learning in America (3). Explores history and theory of volunteerism and service learning in America. Includes a weekly academic seminar and placement in a service learning project.

482 [082] Images of the American Landscape (3). This course will consider how real estate speculation, transportation, suburbanization and consumerism have shaped a landscape whose many representations in art and narrative record our ongoing struggle over cultural meaning.

483 [083] Seeing America: Visual Culture and American Studies (3). Examines the ways in which visual works — paintings, photographs, sculpture, architecture, film, advertising and other images — communicate the values of American culture and raise questions about American experiences.

486 Shalom Y'all: The Jewish Experience in the American South (JWST 486) (3). This course explores ethnicity in the South and focuses on the history and culture of Jewish southerners from their arrival in the Carolinas in the 17th century to the present day.

499 [150] Advanced Seminar in American Studies (3). Prerequisite, graduate or upper-level undergraduate standing. Examines American civilization by studying social and cultural history, criticism, art, architecture, music, film, popular pastimes and amusements, among other possible topics.

685 Literature of the Americas (CMPL 685, ENGL 685) (3). Prerequisite, two years of college-level Spanish or the equivalent. Multidisciplinary examination of texts and other media of the Americas, in English and Spanish, from a variety of genres.

691H [090] Honors in American Studies (3). Directed independent research leading to the preparation of an honors thesis and an oral examination on the thesis. Required of candidates for graduation with honors in American studies who enroll in the class once permission to pursue honors is granted.

692H [091] Honors in American Studies (3). Directed independent research leading to the preparation of an honors thesis and an oral examination on the thesis. Required of candidates for graduation with honors in American studies who enroll in the class once permission to pursue honors is granted.

Department of Anthropology
www.unc.edu/depts/anthro

PAUL LESLIE, Chair

Professors

Associate Professors
Brian Billman, Robert E. Daniels, Glenn D. Hinson, Peter Redfield, Patricia Sawin, C. Margaret Scarry, Karla Slocum, Silvia Tomášková, Margaret J. Wiener.

Assistant Professors
Flora Lu, Valerie L. Lambert, Christopher Nelson, Charles Price, Michele Rivkin-Fish, Mark Sorensen.

Adjunct Professors
R. P. Stephen Davis, Sue E. Estroff, Kaja Finkler, Richard G. Fox, Lawrence Grossberg, Clark Larsen, John Pickles.

Adjunct Associate Professors

Adjunct Assistant Professors
Nilanjana Chatterjee, Krisztina Fehervary, William S. Lachicotte Jr., Karaleigh Reichart, Barry Saunders, Sandy Smith-Nonini, Laurie Steponaitis.

Adjunct Research Assistant Professor
Brett Riggs.

Research Professor
M. Jean Black.

Research Associate Professors

Lecturer
Charles Haines.

Introduction
Anthropology as a distinctive social science provides students with the theories and methods associated with the systematic study of cultural, historical and biological dimensions of human diversity. A hallmark of anthropology is field work in which studies are carried out in everyday settings beyond the abstractions of the classroom, library, or laboratory. This perspective derives from the history of anthropology as the systematic study of other cultures and populations - that is, those that appear especially different from the anthropologists' own standpoint. Today, anthropologists also study their own societies, seeking to cultivate the perspective that
all societies call for explanations within the wider scope of human experience. As such, anthropology offers the undergraduate student one of the best introductions possible to our past and to contemporary worlds characterized by increasing diversity, by global, international and regional interconnectedness, by important cultural innovations, and most recently, by interdisciplinary and cross-disciplinary discovery.

At UNC-Chapel Hill, the Department of Anthropology does this through a major that seeks to integrate students' experiences by: (a) providing the analytical skills and methods needed to understand the physical world and the human place within it, in the evolution and ecology of the human species; (b) cultivating the capacities needed to interpret the widely differing cultural and meaning systems of our world; and (c) offering methods and skills needed for analyzing and interpreting the unequal relations between human collectivities and groups encountered in everyday practices and language.

Anthropology majors thus develop the written and oral skills needed to live and work in a complex world marked by an accelerated rate of social and cultural change. Anthropology majors acquire the general preparatory attitudes and skills valued within a large number of occupations and professions, including but not limited to professional anthropology.

Given anthropology's unique foci, the department's courses are intended to open systematically perspectives on the nature of humankind. To achieve this objective, the department organizes its anthropology courses into the following three concentrations: (a) evolution and ecology, which examine the evolution of humans and related species, and human adaptations to the environment, in all their variability; (b) the anthropology of meaning, which seeks to interpret the meanings and symbols of cultures; and (c) social systems, which studies collectivities, social change, and relations between groups marked by inequalities of various kinds. In addition, the graduate program in anthropology includes courses from the archaeology and medical anthropology programs, which may be of interest to many undergraduates.

The basic division in undergraduate anthropology courses is between lower-division courses numbered below 300 and upper-division courses numbered between 300 and 699 in the College of Arts and Sciences. Sophomores should not hesitate to take courses numbered 300 to 699 because of fears of their difficulty, but may wish to consult with the instructor before enrolling.

Programs of Study
The degree offered is bachelor of arts in anthropology. The department offers minors, in turn, in general anthropology, archaeology and medical anthropology.

Majoring in Anthropology: Bachelor of Arts
The anthropology major requires nine courses - ANTH 297 and 24 other credit hours in anthropology. ANTH 297 (Directions in Anthropology) serves as the majors' core course; it offers an integrative perspective on the theories and history of anthropology and explores what it means to be an anthropologist. Most majors take ANTH 297 in their junior year.

The eight remaining three-hour courses must satisfy the following requirements:

At least one must come from each of the three concentrations (see below); no more than three can be numbered below 300; and no more than nine hours of field-oriented course work (ANTH 393, 395, 451, or 453) can be counted toward the major. Of the nine courses for the major, students must complete six with a minimum grade of "C" or higher.

The department recommends that majors enroll in some field-oriented course work such as: ANTH 393 (Internship in Anthropology), 395 (Special Projects), 451 (Field School in Archaeology), 453 (Field School in South American Archaeology), or in study abroad course work.

Anthropology majors must meet all Foundations, Approaches and Connections requirements, electives and other requirements in the College of Arts and Sciences. To ensure this, anthropology majors consult with their advisor in the College of Arts and Sciences office in Steele Building at least once each semester; ideally, they also consult with the director of undergraduate studies.

Students interested in choosing anthropology as a major or minor should visit the department's Web site at www.unc.edu/depts/anthro and click on the link for the undergraduate program. It would also be beneficial to consult with the director of undergraduate studies.

Courses by Concentration in the Department

Evolution and Ecology Concentration

History, Meaning and Materiality Concentration

Social Formations and Processes Concentration

Please note that this list is subject to constant revision, with the DUS designating the appropriate concentrations for "Special Topics" courses (ANTH 626) and 300-level courses being offered for the first time.

Minoring in General Anthropology
The minor in general anthropology consists of five three-hour courses taken in the department and is a viable option for students who have heavily demanding major requirements. A maximum of two courses may be numbered below 300; at least one course must come from each of the three concentrations. Students must have a grade of C or higher in at least four of the five courses, and at least three courses must be taken at UNC-Chapel Hill or in a program officially sponsored by the University. Students planning on a minor in anthropology should inform the department's director of undergraduate studies.

Minoring in Archaeology
The minor in archaeology draws on a number of disciplines and departments – principally anthropology, classics and art – in the study of the ancient world, the reconstruction of past lifeways, and the interpretation of ancient social, political and economic systems.

The minor consists of five courses: two core courses (no more than one of which can be a field school), one comparative course, one area-studies course and one topical course. The courses used to satisfy these requirements must come from at least two depart-
ments. At least one of the courses used to fulfill the minor's requirements must be numbered 300 or above.

Core Courses (choose two, no more than one of which is a field school):
ANTH 220, 451, 453; CLAR 411, 650;

Comparative Courses (choose one):
ANTH 120, 145, 148, 412, 456, 468; CLAR 120

Area-Studies Courses (choose one):
ANTH 231, 350, 359; CLAR 75 (first-year students only); 243, 241, 244, 245, 262, 375, 464, 465, 475, 488, 781; RELI 110

Topical Courses (choose one):
ANTH 143, 252, 411, 413, 414, 415, 416, 417, 418, 452, 455, 456, 458, 460; CLAR 75 (first-year students only); RELI 512.

Minoring in Medical Anthropology

This option is especially appropriate for those planning for careers in medicine and health professions. The minor consists of five three-hour courses taken from the following: ANTH 147, 151, 315, 316, 319, 323, 414, 438, 441, 470, 473, 585, 660. Students must have a grade of C or higher in at least four of the five courses, and at least three courses must be taken at UNC-Chapel Hill or in a program officially sponsored by the University. Students planning on a minor in medical anthropology should inform the director of undergraduate studies in the department.

Honors in Anthropology

The department encourages students with an overall grade average of 3.2 or higher to apply for candidacy for the B.A. with honors. The aim of the Honors Program is to free the serious and well-qualified student from some restrictions of the usual undergraduate course format by allowing the student to work closely with a small number of department faculty. The anthropology honors program requires an independent study and research project presented in the form of a thesis to the department.

Honors candidates must meet the same course requirements as other anthropology majors. In their senior year, honors candidates take ANTH 691H and 692H in two consecutive semesters. These courses provide candidates with the opportunity to pursue original research for the thesis. ANTH 691H and 692H are controlled enrollment courses, which means that the student must first confer with the director of undergraduate studies, who will register them for these courses. Honors candidates are encouraged to identify and contact an honors thesis advisor by the end of their junior year and to apply for financial aid for their thesis projects.

Candidates who complete and successfully defend a thesis before a committee consisting of their advisor and two readers may graduate with honors or highest honors. The awarding of highest honors for theses written in the department is rare and reserved for those cases in which the examining committee determines that the project is exceptional even among honors degrees.

Students who are interested in becoming honors candidates should contact the department's director of undergraduate studies and consult the section on honors in the Anthropology Major's Handbook.

Special Opportunities in Anthropology

Internships, Field Work and Independent Study

Students who wish to explore an anthropological concern outside the conventional classroom setting, or who desire advanced or specialized work beyond current course offerings, should consider ANTH 393, 395, 396, 451, 453.

ANTH 393 provides anthropology students the opportunity to engage in internships or other field experiences within or beyond the University that have a significant anthropological learning component. Variable credit may be obtained for this course. ANTH 393 is a controlled enrollment course; it requires the permission in advance of the faculty member sponsoring the internship, of a responsible official of the agency in which the internship is carried, and of the director of undergraduate studies, who will register the student. It is essential that students make arrangements and secure permissions prior to the semester of the internship. The Anthropology Major's Handbook provides important information for students preparing for ANTH 393.

ANTH 396 provides anthropology students the opportunity to engage in independent study, and ANTH 395 the opportunity to engage in field research, under the mentoring of a specific faculty member. Variable credit may be obtained for these courses, although three units are usually expected. ANTH 396 and 395 require the permission of the faculty member under whom the student wishes to conduct research prior to the semester in which ANTH 396 or 395 is taken. Both are controlled enrollment courses for which the student can register only through the director of undergraduate studies in the department. In general the course should be taken only by students with some prior course work in anthropology or a related social science.

ANTH 451 and 453 are six-unit field school courses in which the student gains hands-on experience in research and study in the field under the direction of a faculty member.

Anthropology majors are limited to having no more than nine credit hours of field-oriented course work (ANTH 393, 395, 451, or 453) count toward meeting the major requirement, although they are not restricted from enrolling in more than nine credit hours of these courses combined.

Study Abroad

Anthropology majors are encouraged to enroll in a study abroad program. These programs can offer direct experience of another culture and intensive language training, as well as excellent course work in anthropology. By consulting with their departmental advisors as well as with the University's Study Abroad Office, students can assess the relevance of available programs to their interests and arrange to transfer credit hours to count toward their undergraduate degree and, where appropriate, the anthropology major. Study abroad programs are often affordable even to students who require financial aid. Information about student loans and scholarships for the purpose of studying abroad can be obtained from the Study Abroad Office. Students may wish to consult the Summer School about its study abroad program.

Undergraduate Awards

The Honigmann Undergraduate Honors Thesis Award is given each year to the student who completed the best undergraduate honors project.

Graduate School and Career Opportunities

There are three basic career routes for B.A. level anthropology majors:
- Anthropology majors have open to them all of the career options of any student with a B.A. in the liberal arts and social sciences, with the added advantage that they surely are more prepared than
most in the growing international arena of business, government and NGOs. The resources and professional staff of University Career Services can provide guidance.

- Anthropology majors can seek a career that puts their anthropology degree directly into practice.
- Lastly, anthropology majors can continue with graduate education in order to seek a career in education, be it as a social studies teacher in a middle school or a professor in a university. See Careers in Academic Anthropology – Graduate School Route at anthropology.unc.edu/grad/grad_career.

Contact Information
Director of Undergraduate Studies, Department of Anthropology, Room 301, Alumni Building, and/or visit the Web site and click on the section for the undergraduate program at: www.unc.edu/depts/anthro.

ANTH

050 [006E] First-Year Seminar: Skeletons in the Closet (3). In this first-year seminar, students explore the use of the human skeleton to modern behavioral and biological investigations, focusing on observations that are used as evidence to prove or disprove hypotheses.

051 [006E] First-Year Seminar: Environmentalism and American Society (3). This first-year seminar examines US environmentalism and its relationship to power and privilege, consumer desire and attachment to place. Students conduct original group research on the environmental movement.

052 [006E] First-Year Seminar: Asian Cultures, Asian Cities (3). Introduction to the processes of cultural productions and the making of social diversity in large Southeast Asian cities, as they have experienced modernity and globalization during the last 30 years.

053 [006E] First-Year Seminar: Darwin's Dangerous Idea (3). Exploration of how natural selection works, how it has been used and misused for understanding human nature, health and disease, aging, social behavior, how we choose mates, and more.

054 [006E] First-Year Seminar: The Indians' New Worlds: Southeastern Histories from 1200 to 1800 (AMST 054) (3). This course uses archaeological and historical scholarship to consider the histories of the Southern Indians from the Mississippian period to the end of the 18th century.

055 [006E] First-Year Seminar: The Modern Corporation: From the English East India Company to Wal-Mart (3). This seminar examines the modern public corporation as a governance institution. Broad themes explored empirically through an extended comparison of the English East India Company (1600) and today's largest corporation, Wal-Mart.

056 [006E] First-Year Seminar: The Art of Healing, The Science of Curing (3). This seminar focuses on cross-cultural healing beliefs and practices and on how social, economic, political and ethical aspects of our lives relate to health and healing.

057 [006E] First-Year Seminar: Today in Africa (3). Examination of the daily news as reported on-line by African newspapers, the BBC, etc. Readings and class discussions of ethnographic and historical background. Student projects based on following major stories.

058 [006E]: Germs and Governments, Trees and Traffic Jams (3). The course will ground students in the fundamentals of complex systems thinking, then explore its utility in contemporary societ.

059 The Right to Childhood: Global Efforts and Challenges (3). Do children have special needs and rights? This seminar will answer this question.

092 [086A] UNITAS (3). Fall component of a two-semester course. A seminar that explores issues of social and cultural diversity through experiential learning. Students must be residents of UNITAS residence hall.

093 [086B] UNITAS (3). Spring component of a two-semester course. Students engage in service learning through APPLES and produce a final that thoughtfully reflects on their experience. Students must be residents of UNITAS residence hall.

101 [010] General Anthropology (3). An introduction to anthropology, the science of humans, the culture-bearing animal. Topics considered: human evolution and biological variations within and between modern populations, prehistoric and historic developments of culture, cultural dynamics viewed analytically and comparatively.

102 [049] Introduction to Cultural Anthropology (3). An introduction to non-Western cultures studied by anthropologists. Includes an in-depth focus on the cultural and social systems of several groups.

103 [050] Anthropology of Globalization (3). The study of different approaches to globalization, and of inequalities in power between nation-states, ethnic groups, classes and locales experiencing globalization. Uses ethnographic materials to examine effects of transnational migrations, and other processes of globalization.

120 [020] Anthropology through Expressive Cultures (3). Introduction to cultural analysis and the anthropological point of view through analytic and interpretive readings of films, fiction and ethnography. Emphasis on social conditions and subjective points of view.

121 [021] Ancient Cities of the Americas (3). An introduction to archaeology through the study of towns and cities built by the ancient peoples of the Americas. The focus is on historical processes by which these centers arose.

123 [023] Habitat and Humanity (3). Cross-cultural survey of building and landscape architecture, including prehistoric dwellings, and sacred structures such as shrines and temples. Emphasis on architecture as symbolic form and cultural meaning.

130 [030] Anthropology of the Caribbean (FOLK 130) (3). Theories and examples of how Caribbean people live, act and see themselves within various cultural, social, economic and political contexts across time. Attention to North American views of the Caribbean.

139 [139] Ecological Anthropology (3). Examines how human-environmental adaptations shape the economic, social and cultural lives of hunter-gatherers, pastoralists and agriculturalists. Approaches include optimal foraging theory, political ecology and subsistence risk.

142 [042] Local Cultures, Global Forces (3). Globalization as a cultural and economic phenomenon, emphasizing the historical
development of the current world situation and the impact of increasing global interconnection on local cultural traditions.

143 [043] Human Evolution and Adaptation (3). Evolutionary and ecological approach to understanding the human species' past and contemporary human variation. Emphasis on evolutionary processes, biological adaptation and biocultural interactions with diverse environments.

144 [044] Anthropology and Social Problems (3). Contemporary dilemmas examined from a cross-cultural and historically comparative view, including issues of inequality, environment, population, war, gender restrictions, human suffering, hunger and affluence.

145 [045] Introduction to World Prehistory (3). Introduction to world prehistory and archaeological methods. Examines the development of human society from the emergency of modern human beings 100,000 years ago through the formation of ancient civilizations.

146 [046] The Nature of Moral Consciousness: A Course in General Anthropology (3). An introductory course in general anthropology focusing on the development of moral consciousness. Western and non-Western patterns of thought and culture are compared and contrasted. The course has a strongly philosophical orientation.

147 [047] Comparative Healing Systems (3). In this course we compare a variety of healing beliefs and practices so that students may gain a better understanding of their own society, culture and medical system.


151 [051] Anthropological Perspectives on Food and Culture (3). Anthropological perspectives on foodways. This course examines the biological basis of human diet as well as the historical and cultural contexts of food production, preparation, presentation and consumption.

155 [055] Anthropology of South Asia (ASIA 155) (3). Introduction to South Asia and the effects of colonialism, nationalism and globalization. Links agency and structural constraints in addressing gender, caste, class, religion, nationalism and the post-colonial state.

190 [199] Special Topics in Anthropology I (1-4). Examines selected topics from an anthropological perspective. Course description is available from the departmental office.

191 [091] Peoples of Siberia (ENST 191, INTS 191, RUES 191) (3). Comparative study of the cultural and biological diversity of peoples of Siberia from prehistoric through contemporary times. Course topics include the biological diversity, culture, behavior and history of Siberian populations.

194 [194] Anthropology and Community Development (3). The course examines ethnographic, theoretical, practical and policy approaches to community development and community organizations in America and the English Speaking Caribbean. Students can work with a local community organization.

195 Research in Anthropology I (1-3). Permission of instructor is required. Data collection, analysis and interpretation for independent research project.

196 Independent Reading or Study in Anthropology I (1-3). Permission of instructor is required. Reading and Study under a faculty member whose interests coincide with those of the individual student.

199 Experimental Course in Anthropology I (3). Examines selected topics from an anthropological perspective, generally to explore the potential for a course. Course description is available from the departmental office.

205 [105] Anthropology of the South (3). Anthropological materials and insights bearing on modernization and other current trends in southern culture; research problems in the South.


220 [110] Principles of Archaeology (3). Introduction to method and theory in archaeology. An examination of how archaeologists make inferences about past societies, including reconstruction of culture histories, lifeways, ideologies and social, political and economic relationships.

226 [026] The Peoples of Africa (3). Introductory ethnographic survey emphasizing (a) diversity of kinship systems, economies, polities, religious beliefs, etc., (b) transformations during colonial era (c) political and economic challenges of independent nations. Lectures, films, recitation.

230 [130] Native American Cultures (FOLK 230) (3). Broad survey of contemporary American Indian societies and cultures in the U.S. Explores socio-cultural and historical diversity of tribes through film, autobiography, literature, current issues, guest speakers, archaeology and history.

231 [131] Archaeology of South America (3). An examination of the prehistory of Andean South America (Ecuador, Peru and Bolivia) from first colonization 12,000 years ago to the fall of the Inca Empire in AD 1532.

234 [072D] Native American Tribal Studies (AMST 234, HIST 234) (3). This course introduces students to a tribally specific body of knowledge. The tribal focus of the course and the instructor changes from term to term.

239 Human Ecology of the Amazon (3). Course examines human adaptation to the Amazon region, behavioral patterns of resource use and forces of culture change, with implications for biodiversity conservation, indigenous self-determination and cultural resilience.

248 [148] Anthropology and Public Interest (3). Explores how anthropologists can impact or participate in policy debates regarding contemporary social problems. Involves professional and internship options in public service fields. APPLES Service Learning course.

252 [152] Prehistoric Foodways (3). Archaeological investigations of prehistoric and historic foodways. Surveys the questions
asked, the data and methods used to answer those questions and the contributions of subsistence studies to archaeological knowledge.

254 [154] Environmental Consciousness and Action (3). Drawing on anthropological and other research, the course explores social and subjective aspects of US environmentalism, asking whether environmentally friendly practice is possible under present-day political and social conditions.

259 Culture and Identity (3). Introduces anthropological approaches to identity. Explores the relationship of identity, cultural contexts and social life. Emphasizes contemporary global cultural interchange and visual media as tools of self-expression.

262 [062] Population Anthropology (3). Interactions among culture, biology, environment and human population dynamics, past and present. Includes environmental influences on reproduction and mortality; social biological and environmental consequences of population size, growth and composition.

278 [078] Women in Science (WMST 278) (3). The role of women in scientific domains throughout history, and a consideration of the status of women and men as scientists. The development of science as a cultural practice.

280 [080] Anthropology of War and Peace (PWAD 280) (3). Cross-cultural perspectives on war in its relation to society, including Western and non-Western examples. Surveys political, economic and cultural approaches to warfare and peacemaking.

285 Ethnography and Life Stories (3). The course focuses on the practical and research uses of ethnography and oral history, emphasizing life histories, life stories, biographies and how these intersect with communities.

290 Special Topic in Anthropology II (3). Examines selected topics from an anthropological perspective. Course description is available from the departmental office.

295 Research in Anthropology II (1-3). Permission of instructor is required. Data collection, analysis and interpretation for independent research project.

296 Independent Reading or Study in Anthropology II (1-3). Permission of instructor is required. Reading or Study under a faculty member whose interests coincide with those of the individual student.

297 [097] Directions in Anthropology (3). Open only to and required of anthropology majors in their junior or senior year. Historical and contemporary issues and directions in the discipline as reflected in various concepts, theories and research strategies.

299 Experimental Course in Anthropology II (3). Examines selected topics from an anthropological perspective, generally to explore the potential for a course. Course description is available from the departmental office.

302 [084] Language and Power (LING 302, WMST 302) (3). See LING 302 for course description.

303 [073] Native Languages of the Americas (LING 303) (3). This course is an introduction to languages indigenous to the Americas. The course touches on the linguistic structure and classification of Native American languages as well as on social issues.

315 [115] Human Genetics and Evolution (3). Interaction of heredity, environment and culture in shaping human biological diversity and behavior, and what such patterns of diversity reveal about our evolutionary past.

317 [117] Evolutionary Perspectives on Human Adaptation and Behavior (3). Critical, partially historical discussion of evolutionary theories, including Darwinism, Neo-Darwinism, ethnology and sociobiology, and their social-science analogs. Focus on the relevance and limitations of these theories for anthropology.

318 Human Growth and Development (3). Comparative study of human growth and development from conception through adulthood. Special emphasis on evolutionary, biocultural, ecological and social factors that influence growth.

319 [119] Global Health (INTS 319) (3). This class explores some of the historical, biological, economic, medical and social issues surrounding globalization and health consequences.

320 [120] Anthropology of Development (INTS 320) (3). Critical exploration of current debates in the anthropology of Third World development, the production of global inequality and the construction of parts of the world as underdeveloped through discourses and practices of development.

322 [122] Anthropology and Human Rights (3). An examination of human rights issues from an anthropological perspective, addressing the historical formation of rights, their cross-cultural contest and the emergence of humanitarian and human rights organizations on a global scale.

323 [123] Magic, Ritual and Belief (FOLK 323) (3). Starting with the late 19th century evolutionists, this course discusses, intensively, major anthropological theories of magico-religious thought and practice, then offers an approach of its own. Admission by permission of instructor.

325 [125] Emotions and Society (3). Survey of the interplay between emotional experience and social life. Emotions as learned, culturally variable and socially performed, perceptions, understandings and actions.


340 [040] Southern Style, Southern Culture (FOLK 340) (4). A journey into the worlds of Southern meaning, exploring aesthetics, faith, race, class, gender and the politics of culture. In this class, students explore culture through semester-long, group-based fieldwork projects.

342 [090] African American Religious Experience (AFAM 342, FOLK 342, RELI 342) (3). Prerequisite, students must have taken at least one course in African and Afro-American studies, anthropology, or religious studies.

344 Globalization, Social Movements, Environment (3). Introduction to the study of globalization, its impact on the environment, and the ensuing response by global and local social movements. Surveys proposals for alternatives to dominant forms of globalization.

350 [150] Archaeology of North American Indians (3). The history of American Indian cultures from 10,000 BC to the time of the European colonization as reconstructed by archaeological
research. Special emphasis on the eastern and southwestern United States.

359 [159] European Prehistory (3). A survey of cultures on the European continent from the emergence of first humans to the rise of civilization and the Roman conquest.

377 [177] European Societies (3). This course explores many cultural factors and diverse peoples – non-Greco-Roman as well as Greco-Roman – that have formed the European identity from the earliest human occupation of Europe to present.

380 [082] Anthropological Perspectives on Cultural Diversity (3). Introduction to theories of cultural and social difference. Encourages students to use social theory and ethnography to understand how various societies imagine and enact their cultural and political worlds.

390 Special Topic in Anthropology III (3). Examines selected topics from an anthropological perspective. Course description is available from the departmental office.

393 [093] Internship in Anthropology (1-12). Prerequisite, permission of instructor and director of undergraduate studies.

395 [099F] Independent Fieldwork (1-12). Prerequisite, permission of instructor.

396 [099] Independent Reading or Study in Anthropology (1-12). Prerequisite, permission of instructor.

399 Experimental Course in Anthropology (3). Examines selected topics from an anthropological perspective, generally to explore the potential for a course. Course description is available from the departmental office.

400 [179] Introduction to General Linguistics (LING 400) (3). (See LING 400 for course description.)

411 [111] Laboratory Methods in Archaeology (3). An examination of the laboratory techniques used by archaeologists to analyze artifacts and organic remains, including the analysis of stone tools, pottery, botanical remains and bone.

412 [112] Paleoanthropology (3). This course traces the evolution of humans and non-human primates, including behaviors, tools and bodies of monkeys, apes, and human hunters and gatherers, evolutionary theory, and paleoanthropological methods.

413 [111A] Archaeobotany Lab Methods (3). Prerequisite, any course in archaeology or permission of instructor.

413L Archaeobotany Lab (1). Prerequisite, any course in archaeology or permission of instructor. This is a required one-hour laboratory section to be taken in conjunction with ANTH 413.

414 Laboratory Methods: Human Osteology (4). This course will focus on the analysis of human skeletal materials in the laboratory and in the field, with an emphasis on basic identification, age and sex estimation, and quantitative analysis.

414L Human Osteology Lab (1). Must be taken concurrently with ANTH 414. The laboratory analysis of human skeletal materials with an emphasis on basic identification, age and sex estimation, and quantitative analysis.

415 [111B] Zooarchaeology (3). This course will focus on the analysis of animal remains from archaeological sites. Introduction to laboratory methods, analytical approaches and interpretive frameworks for zooarchaeology.

415L Zooarchaeology Lab (1). Corequisite, ANTH 415. Prerequisite, an archaeological course or permission of instructor. Examination of identification techniques, quantitative methods and interpretive frameworks used to analyze animal remains recovered from archaeological sites.

416 [116] Bioarchaeology (3). The study of human skeletal remains from archaeological contexts. The collection and interpretation of quantitative and qualitative data is emphasized to assess the relationship between past biology, environment, culture and behavior.

417 [111C] Laboratory Methods: Lithic Seminar (3). Laboratory techniques in stone tool research and experimental practice.

417L Lithic Analysis Lab (1). Prerequisite, any course in archaeology or permission of instructor. This is a required one-hour laboratory section to be taken in conjunction with ANTH 417.

418 Laboratory Methods: Ceramic Analysis (3). A survey of the laboratory techniques used by archaeologists to study and draw social and behavioral inferences from ancient pottery.

421 [102] Archaeological Geology (GEOL 421) (3). Prerequisite, permission of the instructor. Archaeological geology is the application of geological principles and techniques to the solution of archaeological problems. Geological processes and deposits pertinent to archaeological sites, geological framework of archaeology in the southeastern United States, and techniques of archaeological geology and site analysis are studied. Students make field trips to three or more sites in the Southeast and write required reports on geological aspects of the sites. Three lecture hours a week.

428 [142] Religion and Anthropology (FOLK 428, RELI 428) (3). Religion studied anthropologically as a cultural, social and psychological phenomenon in the works of classical and contemporary social thought.

429 [129] Culture and Power in Southeast Asia (ASIA 429, FOLK 429) (3). The formation and transformation of values, identities and expressive forms in Southeast Asia in response to forms of power. Emphasis on the impact of colonialism, the nation-state and globalization.

435 [135] Consciousness and Symbols (CMPL 435, FOLK 435) (3). This course explores consciousness through symbols. Symbols from religion, art, politics and self are studied in social, psychological, historical and ecological context to ascertain meanings in experience and behavior.

436 [187] Gender and Science (WMST 436) (3). Feminist approaches to science; history of scientific constructions of male and female nature, and theoretical approaches to the role of gender in science.

437 Evolutionary Medicine (3). This course explores evolutionary dimensions of variation in health and disease in human populations. Topics include biocultural and evolutionary models for the emergence of infectious and chronic diseases and cancers.

438 [138] Religion, Nature and Environment (RELI 438) (3). A seminar on concepts of nature within religions and a variety of world-wide spiritual traditions. Emphasis on sacred space, place and pilgrimage as a vital intersection of religion and nature.

439 Political Ecology (EGOG 410) (3). Examines environmental degradation, hunger and poverty through the lens of power rela-
tionships, particularly inequality, political and economic disenfranchisement, and discrimination. Discussion of global case studies, with a Latin American focus.

440 [140] Gender and Culture (WMST 440) (3). Cross-cultural comparison of gender roles through the life of a person, comparison to student's own experiences. Discussion of changing sex and gender roles through history in different cultures.

441 [141] The Anthropology of Gender, Health and Illness (WMST 441) (3). The course explores cultural beliefs, practices and social conditions that influence health and sickness of women and men from a cross-cultural perspective.

447 [147] The Anthropology of Work (3). Anthropological investigations of work and the relationship between work, family life and community in contemporary societies in the United States, Asia and Latin America, within the framework of globalization.


451 [151] Field School in North American Archaeology (6). Intensive training in archaeological field methods and techniques. Students participate in the excavation, recovery, recording and interpretation of archaeological remains. Instruction given in survey, mapping, photography, flotation recovery, etc.

452 [052] The Past in the Present (3). Memory and history, history and politics, national narratives, the past in the present, and the present in the past - a cross-cultural examination of ways of connecting the present and the past.

453 [153] Field School in South American Archaeology (6). Intensive study of archaeological field and laboratory methods and prehistory of the Andes through excavation and analysis of materials from archaeological sites in Peru. Includes tours of major archaeological sites.

455 [155] Ethnohistory (FOLK 455) (3). Integration of data from ethnographic and archaeological research with pertinent historic information. Familiarization with a wide range of sources for ethnohistoric data and practice in obtaining and evaluating information. Pertinent theoretical concepts will be explored.

456 [156] Archaeology and Ethnography of Small-Scale Societies (3). The study of small-scale hunter-gatherer and farming societies from archaeological and ethnographic perspectives. Methods and theories for investigating economic, ecological and social relations in such societies are explored.


460 [160] Historical Ecology (ENST 460) (3). Historical ecology is a framework for integrating physical, biological and social science data with insights from the humanities to understand the reciprocal relationship between human activity and the Earth system.

462 Anthropology of Space and Power (3). Cross-cultural investigation of the relationships between space, power and representations in modern urban life. Draws on different sources to examine the cultural politics of built forms, architecture and urban planning.

465 [165] Economic Anthropology (3). A comparative exploration through ethnographic other social science sources of the socioeconomic constitution of economic practices, including, but not limited to, the exchange, production and consumption in modern capitalist societies.

466 Alternative Economic Systems (3). An investigation of economic systems which are sustainable alternatives to the prevailing economic order. Topics include markets, the commons, cooperatives, local trading systems, and social movements working to achieve alternatives.

468 [168] State Formation (3). The course examines the state, from its initial appearance 5,000 years ago to newly established nation states, exploring the concepts of ethnicity, class, race and history in state formation and maintenance.

469 [169] History and Anthropology (3). Studies links between history and anthropology; cultures in historical perspective and history in cultural perspective; and effects of relations of power and historical interconnections on the peoples of the world.

470 [170] Medicine and Anthropology (FOLK 470) (3). This course examines cultural understandings of health, illness and medical systems from an anthropological perspective with a special focus on western medicine.

472 [172] Refugees and Exile (3). This anthropological exploration of refugees and forced migration addresses displacement across national borders, local repercussions and the influence of the lived experience of exile on displaced people's identity.

473 [173] Anthropology of the Body and the Subject (FOLK 473) (3). Anthropological and historical studies of cultural constructions of bodily experience and subjectivity are reviewed, with emphasis on the genesis of the modern individual and cultural approaches to gender and sexuality.

484 [184] Discourse and Dialogue in Ethnographic Research (FOLK 484, LING 484) (3). Study of cultural variation in styles of speaking applied to collection of ethnographic data. Talk as responsible social action and its role in the constitution of ethnic and gender identities.

485 [146] Introduction to Folklore (ENGL 485, FOLK 485) (3). An introduction to the study of creativity and aesthetic expression in everyday life, considering both traditional genres and contemporary innovations in the material, verbal and musical arts.

491 [191] Political Anthropology (3). Introduction to political anthropology. A thematically organized investigation of political processes in state societies, including state formation, with special attention to ethnographic and historical approaches.

499 Experimental Course in Anthropology IV (3). Examines selected topics from an anthropological perspective, generally to explore the potential for a course. Course description is available from the departmental office.

502 Globalization and Transnationalism (3). Anthropological examination of processes of globalization and transnationalism, with special attention to transnational migration, emergence of transnational ("global") institutions, commodity flows, and dissemination of ideologies, cultural frameworks and media imagery.

510 [180] Linguistic Phonetics (LING 520) (3). (See LING 520 for course description.)
523 Phonological Theory I (LING 523) (3). Introduction to the principles of modern generative phonology. Methods and theory of phonological analysis. Not normally open to those who take LING 200, unless permission of instructor is given.


537 [137] Gender in Practice (FOLK 537, WMST 438) (3). A study of the ways in which individuals constitute themselves as gendered subjects in the contemporary context of economic and cultural globalization. 539 Environmental Justice (3). Course examining issues of race, poverty and equity in the environmental movement. Cases include the siting of toxic incinerators in predominantly people-of-color communities to resource exploitation on indigenous lands.

541 [171] Sociolinguistics (LING 541) (3). Prerequisite, LING 525, 400, or permission of instructor. This topics course in sociolinguistics treats the microsociolinguistics of everyday interactions, dialect differences, language and sex, language and power, minority rights and the politics of pornography.

542 [192] Pidgins and Creoles (GERM 542, LING 542) (3). Investigation of pidginization, creolization, settlers' dialects and interlanguage. Case studies from Afrikaans, Virgin Islands Dutch Creole, Pidgin German, Yiddish, Foreign Workers' German, Tok Pisin.

545 [145] The Politics of Culture in East Asia (ASIA 545) (3). Examines struggles to define culture and the nation in 20th-century China in domains like popular culture, museums, traditional medicine, fiction film, ethnic group politics, and biography and autobiography.

559 History in Person (3). Extends anthropological approaches to identity in social life. Examines social position, power and cultural imagination; the personal and collective dynamics of sociocultural change, and the concept of agency.

567 [167] Urban Anthropology (3). Comparative study of the political economy and cultural politics of populations in spaces and landscapes in cities in America and Third World undergoing globalization, economic restructuring and transnational immigration.

574 [174] Chinese World Views (ASIA 574, RELI 591) (3). Explores the indigenous Chinese sciences and the cosmological ideas that informed them. Topics include astrology, divination, medicine, fengshui, and political and literary theory. Chinese sources in translation are emphasized.

578 [178] Chinese Diaspora in the Asia Pacific (ASIA 578) (3). Examination of the histories, social organization and cultures of the Chinese diasporas in the Asia Pacific region, focusing on contemporary issues in the cultural politics and identities of "overseas Chinese."

585 [185] Anthropology of Science (3). Cultural perspectives on science and technology at a global scale, including research settings and social contexts, knowledge claims and material practice, and relations between scientific worldviews, social institutions and popular imagination.

586 [196] The Gardens, Shrines and Temples of Japan (ASIA 586) (3). The religious landscape and built environments of Japan. Attention to palace, courtyard, and teahouse architecture and gardens, with emphasis on Shinto shrines and the Zen Buddhist temple and garden.

599 Experimental Course in Anthropology V (3). Examines selected topics from an anthropological perspective, generally to explore the potential for a course. Course description is available from the departmental office.

626 African Cultural Dynamics (3). In-depth reading of several books and articles that consider the interaction between indigenous African traditions and intrusive colonial and post-colonial forces. Emphasis on class discussion. Short papers and individual projects.

629 [189] Language Minority Students: Issues for Practitioners (EDUC 629) (3). See EDUC 629 for course description.

639 Beyond the Tragedy of the Commons (3). Re-examination of the "tragedy of the commons" concept in light of recent work on environmental problems, property rights and community-based conservation. Case studies include fishery, waterway, forest and pasture management.

660 [166] Kinship, Reproduction, Reproductive Technology and the New Genetics (WMST 660) (3). This course focuses on the relationship between family, kinship, new reproductive technologies and the new genetics from a cross cultural perspective.


682 [182] Contemporary Chinese Society (ASIA 682) (3). Presents recent anthropological research on the People's Republic of China. In addition to social sciences sources, fictional genres are used to explore the particular modernity of Chinese society and culture.

686 [186] Schooling and Diversity: Anthropological Perspectives (3). Anthropological approaches to schooling and cultural diversity in the United States, including their relationship to gender, race and class. Critical review of research on responses to diversity.

688 [188] Observation and Interpretation of Religious Action (FOLK 688, RELI 688) (3). Prerequisite, permission of instructor. Exercises (including field work) in learning to read the primary modes of public action in religious traditions e.g. sermons, testimonies, rituals and prayers.

691H [095] Seniors Honors Project in Anthropology (3). Open only to honors candidates. Permission of instructor is required.

692H [096] Senior Honors Thesis in Anthropology (3). Open only to senior honors candidates. Instructor’s permission required.

693H Senior Honors Thesis in Anthropology II (3). Open only to honors candidates. Permission of instructor is required. Writing of honors thesis based on independent research, under the direction of a faculty member of the department.

694H Senior Honors Thesis in Anthropology III (3). Open only to honors candidates. Permission of instructor is required. Writing of honors thesis based on independent research, under the direction of a faculty member of the department.
695H Senior Honors Thesis in Anthropology IV (3). Open only to honors candidates. Permission of instructor is required. Writing of honors thesis based on independent research, under the direction of a faculty member of the department.

697 [197] Ethnography and Culture after Empire (3). Examination of cultural anthropology's relations to global power, past and present. Critiques and revisions of key concepts (e.g., culture) and forms of knowledge (ethnography).

699 Experimental Course in Anthropology VI (3). Examines selected topics from an anthropological perspective, generally to explore the potential for a course. Course description is available from the departmental office.

Curriculum in Applied and Materials Sciences

www.unc.edu/depts/appl_sci

SEAN WASHBURN, Chair

Lu Chang Qin, Associate Chair for Graduate Studies
Richard L. Goldberg, Associate Chair for Undergraduate Studies

Professors


Associate Professors

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Assistant Professors

Michael Faivo, Richard Goldberg, Wenbin Lin, Paul Weinhold.

Introduction

One certainty about modern technology is change -- continual change that occurs with increasing rapidity. People working in technological fields, those who develop new materials and devices and apply them to both old and new purposes, find themselves constantly challenged to create new developments and to keep pace with new concepts and the developments of others. Another characteristic of modern technological innovation is increasing sophistication of tools and ideas. As a result, it has become increasingly important to have a footing in both the basic sciences and engineering. Indeed, these two areas have moved toward each other, deriving mutual benefits from the stimulus of basic concepts and device needs.

In response to the needs of students preparing for the challenging and ever-changing world of modern technology, the University initiated the Curriculum in Applied Sciences in 1984. It is directed toward students seeking a career in the sciences but having applied interests.

By their very nature, the applied sciences are interdisciplinary -- cutting across traditional boundaries. The Curriculum in Applied Sciences at Carolina is a cooperative effort of several departments: biomedical engineering from the School of Medicine; chemistry, physics and astronomy, computer science and mathematics from the College of Arts and Sciences. Courses are taught by faculty from these departments and also by distinguished industrial scientists and engineers from the Research Triangle area. Applied sciences courses are frequently taken simultaneously by students at Duke University, North Carolina State University and other campuses in the state through a two-way television network operated by the Microelectronics Center of North Carolina.

A degree in applied sciences prepares the student for entry-level industrial positions, for graduate study in several fields of science or engineering, or for medical school.

Programs of Study

The degree offered is bachelor of science in applied science. Three tracks of concentration are available: biomedical engineering, computer engineering and materials science.

Majoring in Applied Science: Bachelor of Science

Options in the materials science track allow the student to emphasize interests in biomaterials, electronic and optical materials or polymeric materials. The computer engineering track emphasizes the analysis, design and use of digital systems, microprocessors and computers. In the biomedical engineering track, students learn to apply engineering principles to solve medical and biological problems. This is a field of great breadth that incorporates the fields of medical imaging, informatics, prosthetics, medical devices, tissue engineering and genomics, and applications of signal processing and control. Students in the two engineering tracks are encouraged to engage in at least one summer internship (in industry, etc.) for compensation and are required to complete a senior design project.

For all tracks the first two years of study are approximately parallel to the first two years of study leading to the B.S. degree in chemistry, physics, computer science or mathematical sciences. Interchange of those majors is common during the student’s time in the General College. Students in the curriculum are encouraged to participate in undergraduate research. The curriculum studies, like all sciences, are vertically structured with experience and knowledge from each course serving as a foundation for subsequent courses. Students’ attention to prerequisites is important. The specific requirements are listed below.

Common Requirements

Students must satisfy all Foundations, Approaches and Connections requirements, as outlined elsewhere in this bulletin. Some General Education requirements should be met with specific courses:

CHEM 101/101L (preferably by placement through high school chemistry). The course satisfies the physical and life sciences with lab Approaches requirement.

MATH 231, 232 (quantitative reasoning Foundations and quantitative intensive Connections requirements)

PHYS 116 (physical and life sciences Approaches requirement)

Students must also take the following courses in their first two years:

MATH 233, 383

CHEM 102/102L

PHYS 117

Additional requirements specific to the major tracks:

Computer Engineering Track

APPL 410, 415, 430, 440, 450, 697, 698

BMME 480

COMP 110 or 116, 401, 410, 411
MATH 381, 528
PHYS 351, 352*
STOR 355 or BIOS 600
   A choice of four category electives and one free elective

**Biomedical Engineering Track.**
APPL 210, 310 150, 160, 341, 410, 450, 697, 698
BIOL 101, 202, 252*
COMP 110 or 116 or PHYS 331
MATH 528
PHYS 351, 352
STOR 355 or BIOS 600
   A choice of three biomedical specialty electives

**Materials Science Track.**
APPL 150 or BMME 520
APPL 190
CHEM 241/241L or PHYS 351
CHEM 262/262L or PHYS 352
APPL 341, CHEM 482, or PHYS 321
APPL 470, 491L
MTSC 715
   Select five courses from two specialty categories. Select one from
   MATH/COMP requirement and five free electives.
1. Participation in undergraduate research, APPL 395, is recommended.
2. BIOL 276 is an acceptable alternative.
3. APPL 341 replaces CHEM 481 for applied sciences majors.

**Honors in Applied Science**
Students who successfully complete a research project and have a
sufficiently outstanding academic record are eligible for graduation with honors or highest honors. The requirements of the curriculum for graduation with honors or highest honors are: (1) overall GPA of
3.2 or higher; (2) GPA of 3.5 or higher in all science and mathematics courses specifically required in the curriculum; and (3) completion of a research project judged to be of honors or highest honors quality by a faculty committee. In addition, to be considered for highest honors, the research project must be judged to be of publishable quality. Students wishing to be considered for graduation with honors should apply in the curriculum office no later than the first week of classes of their final year (late August for those who are graduating in May).

**Special Opportunities in Applied Sciences**

**Departmental Involvement**
Student organizations include IEEE and Engineering World Health.

**Experiential Education**
All students participate in a capstone design experience, in which they spend an entire year developing a device or system that has biomedical applications.

**Undergraduate Awards**
Two cash awards are given annually for excellent scholarship and research. The Crawford Award is given in memory of the founding chair of applied sciences, and the Flexcell Award is given through a corporate donation from Flexcell International Corporation.

**Undergraduate Research**
Students are strongly encouraged to undertake a research project during their junior and/or senior years. The applied sciences are heavily research-based. Through the challenge of a research project, students come face-to-face with the leading edge of an area, gain expertise with state-of-the-art techniques and instrumentation, and experience a professional scientific career firsthand. A number of faculty members on campus (particularly those in the Departments of Chemistry, Physics and Astronomy, Computer Science, and Biomedical Engineering and in the Dental Research Center) conduct research projects related to the applied sciences. A list of faculty members interested in working with undergraduates is available from the curriculum office and should be secured by students prior to interviewing with faculty about research projects.

**Facilities**
Students use laboratory facilities housed in the five departments that participate in this program.

**Graduate School and Career Opportunities**
Each line of study leads to the degree of bachelor of science in applied science. Recipients of this degree have gone into entry-level positions in a wide range of technological industries, wafer fabrication, computer hardware and software, pharmaceutical concerns, business fields and the polymer industry. Students also have continued their studies at the graduate level. Graduate programs leading to the M.S., Ph.D. and M.D. degrees have been obtained by many of our graduates. Students who go on to the doctoral level pursue either an industrial or academic career. Through 1999 approximately three-quarters of the graduates from the UNC-Chapel Hill Curriculum in Applied Sciences entered graduate and professional programs, for example, in chemistry, physics, biochemistry, materials science, medical school, electrical engineering, computer science and biomedical engineering.

**Contact Information**

**APPL**
150 [050] Introduction to Materials Science (3). Prerequisite, CHEM 102; co- or prerequisites, PHYS 117, MATH 383, CHEM 261. The materials science of electronic, metallic, polymeric, ceramic and composite materials and their processing are introduced. The electronic, optical, magnetic and structural properties of materials are related to their uses.

160 Statics (3). Prerequisites, MATH 232, PHYS 116. The resolution, distribution, and transfer of forces in rigid structural bodies.

170 [070] Exploring Biomedical Engineering (1). Provides and initial framework for intended biomedical engineering education. Course is repeatable for credit. This course is to be a required first or second year course for students enrolled in the biomedical engineering track of the Curriculum in Applied and Material Sciences, and it is open to all students in the College of Arts and Sciences.

210 [110] BME Design and Manufacturing I (1). Students will learn to use design software: SolidWorks and Express PCB, plus support/analysis programs such as COSMOS. Specific topics covered: generation of designed solid model, three-view drawings, dimensions, tolerances, etc.
310 BME Design and Manufacturing II (2). Prerequisite, APPL 210. Learn basic tools of design utilizing Web-based tutorials and a series of small CAD project assignments. This course includes lectures and Web-based instructional content.

341 [130] Thermodynamics and Kinetics Applied to Solids (3). Prerequisites, PHYS 117, MATH 383, APPL 150. The elements of thermodynamics and phenomenological kinetics of diffusion appropriate to solids are examined. Topics include equations of state, heat capacity, polyphase equilibria, phase transitions, diffusion and interfaces.

392 [132] Special Topics in Materials Science (.5-21). Prerequisite, permission of instructor. Advanced specialty topics in material science for undergraduates.

395 Research in Applied Sciences for Undergraduates (1-4). Prerequisites, permission of the instructor and the chair of the curriculum. At least nine hours of independent work a week. May be taken repeatedly for elective credit. Work done in APPL 395 may be counted towards graduation with Honors or Highest Honors by petition to the chair of the curriculum. Further details on APPL 395 and the Honors Program are available from the curriculum office, 18-1A Venable Hall.

396 [097] Independent Study in Applied Sciences (1-12). Prerequisite, permission of the instructor and the chair of the curriculum. Independent study under a member of the applied sciences faculty.


415 [102] Analog and Digital Communication Systems (BMME 415) (4). Prerequisite, PHYS 351. Modulation and demodulation of signals using amplitude modulation (AM), frequency modulation (FM) and related techniques. Practical applications are studied. Techniques are applied in an included laboratory.

420 [120] Introduction to Polymer Chemistry (CHEM 420) (3). Prerequisite, CHEM 261 or 261H; prerequisites or corequisites, CHEM 262 or 262H, 262L, or 263L. Introduction to polymer chemistry; synthesis and reactions of polymers; thermodynamics and kinetics of polymerization; physical characterization of polymers; industrial uses of polymers.

421 [121] Synthesis of Polymers (CHEM 421, MTSC 421) (3). Prerequisites, CHEM 251, 262 or 262H, and 262L. Synthesis and reactions of polymers.

422 [122] Physical Chemistry of Polymers (CHEM 422, MTSC 422) (3). Prerequisites, CHEM 420, 181. Kinetics of polymerization, molecular weight distribution and molecular weight measurements, solution properties, and solid state properties of macromolecules.

423 [123] Intermediate Polymer Chemistry (CHEM 423, MTSC 423) (3). Prerequisite, APPL 422. Rheology and mechanical properties of polymers; plastics, fiber and elastomer technology.

430 [103] Digital Signal Processing I (BMME 430) (3). Prerequisite, COMP 110 or equivalent. This is an introduction to methods of automatic computation of specific relevance to biomedical problems. Sampling theory, analog-to-digital conversion and digital filtering will be explored in depth.


450 [105] Linear Control Theory (BMME 450) (4). Prerequisite, MATH 528 or equivalent. Linear control system analysis and design are presented. Frequency and time domain characteristics and stability are studied.

460 [110] Survey of Engineering Math Applications (BMME 460) (1). Computational laboratory that surveys engineering math with emphasis on differential equations, and Laplace and Fourier analysis. Applications in biomedical engineering emphasized through problem set computation using Matlab. This course should be taken concurrently with MATH 528.


470 [141] Fundamentals of Materials Science (CHEM 470) (3). Prerequisites, APPL 341 and PHYS 321 or CHEM 482. Crystal geometry; diffusion in solids; mechanical properties of solids; electrical conduction in solids; thermal properties of materials; phase equilibria.


473 [143] Chemistry and Physics of Surfaces (CHEM 473, MTSC 473) (3). Prerequisite, APPL 470. The structural and energetic nature of surface states and sites; experimental surface measurements; reactions on surfaces including binding to surfaces and adsorption; interfaces.

480 [119] Real-Time Computer Applications I (BMME 480) (3). Prerequisite, COMP 110. Introduction to digital computers for online, real-time processing and control of signals and systems. Programming analog and digital input and output devices is stressed. Case studies are used for software design strategies in real-time systems.

491L [144L] Materials Laboratory I (PHYS 491) (2). See PHYS 491 description.

492L [145L] Materials Laboratory II (PHYS 492) (2). Prerequisite, APPL 491L. Continuation of Materials Laboratory with emphasis on low- and high-temperature behavior, the physical and chemical behavior of lattice imperfections and amorphous materials and the nature of radiation damage.

510 [161] Biomaterials (BMME 510) (3). Prerequisite, PHYS 140A or equivalent. Chemical, physical engineering and biocompatibility aspects of materials, devices or systems for implantation in/or interfacing with the body cells or tissues. Food and Drug Administration and legal aspects.

520L [124L] Polymer Chemistry Laboratory (CHEM 520L) (2). See CHEM 520L description.
697 Senior Design Project I (2). Conceptual prelude and preparation to APPL 698 in which the theoretical and practical knowledge acquired during the undergraduate tenure is applied to develop a solution to a real-world problem.

698 Senior Design Project II (4). Prerequisite, APPL 697. Implementation phase of the senior design experience. Students apply the theoretical and practical knowledge they have acquired in their previous seven semesters to the design and implementation of a solution to a real-world problem.

MTSC


Department of Art
www.unc.edu/depts/art

MARY SHERIFF, Chair

Professors
Jaroslav T. Folda, S. Elizabeth Grabowski, Jim Hirschfield, Carol Mavor, Yun-Dung Nam, Mary D. Sheriff, elin o’Hara slavick, Mary C. Sturgeon, Dennis J. Zaborowski.

Associate Professors
Pika Ghosh, Juan Logan, Mary Pardo, Dorothy Verkerk.

Assistant Professors
Glaire Anderson, Cary Levine, Carol Magee, Mario Marzan, Kimowan McLain, Jeff Whetstone, Lynese Williams.

Auckland Art Museum:

Adjunct Professors
Emily Kass, Timothy Riggs.

Adjunct Associate Professors
Barbara Matielsky, Carolyn Wood.

Adjunct Assistant Professor
Carolyn Allmendinger.

Adjunct Instructor
Lyn Koehnline.

North Carolina Museum of Art:

Adjunct Associate Professors
John Coffey, Kinsey Katchka, Mary Ellen Soles, David H. Steel, Dennis P. Weller.

Professors Emeriti
Robert Barnard, James Gadson, Frances Huemer, Sara Immerwahr, Richard W. Kinnaird, Arthur Marks, Jerry Noe, Marvin Saltzman.

Introduction

The department welcomes undergraduates to take its beginning courses as electives. Foundation courses in studio art (ART 102, 103, 104, and 105) and introductory courses in art history (100 level) do not assume previous work in high school. Some students with sufficient high school experience may be eligible for placement in the 200 level of studio media classes. Non-majors seeking placement in these upper level studio or art history classes should see the appropriate department advisor, or in the case of studio art courses, students may seek permission directly from the instructor. For placement in studio classes, students should be prepared to show evidence of proficiency in the prerequisite by a portfolio review. Note, however, that studio art majors cannot use this permission of instructor as a waiver of foundation course requirements. For official waiver of foundation courses, students must submit work for a formal portfolio review. (See also a more specific discussion of advanced placement under the studio art program description.)

Programs of Study

The degrees offered are the bachelor of arts in art history, the bachelor of arts in studio art, the bachelor of fine arts in studio art and a combined studio/art history degree: the bachelor of fine arts with emphasis in art history. This combined degree was designed for those wishing a depth of study in both programmatic areas of the Art Department. A minor in art history is also offered.

Majoring in Art History: Bachelor of Arts

The undergraduate program in art history is directed toward two main educational goals: 1) to acquaint students pursuing a liberal arts degree with the historical significance, cultural diversity and intellectual richness of human artistic traditions from prehistoric times to the present; 2) to provide these students with the intellectual tools needed to investigate the complex roles played by the arts in a variety of social contexts. Skills in visual analysis, historical research, critical reading, analytical and descriptive writing and oral communication are developed throughout the course of the study. The study of art history fully complements an array of disciplines in the humanities and social sciences represented in the College of Arts and Sciences: history, classics, archaeology, religious studies, anthropology, sociology, communication studies and studio art. The ultimate goal of such an education is to help students acquire an individual perspective on their own values and beliefs and on their place in a society increasingly shaped by visual communications and technology.

All General Education requirements must be satisfied.

During the first and sophomore years, students who plan to major in art history should take four courses at the introductory level (numbered between ART 150 and ART 159) and either ART 102 (2-D Design), ART 103 (3-D Design) or ART 104 (Basic Drawing and Composition). All of these courses satisfy the Visual and Performing Arts Approaches requirement.

Of the remaining required courses, at least six semester hours must be in courses at the intermediate level (200-399) and three semester hours at the advanced level (ART 400-699). Additionally, the student will elect three more courses numbered 200 or above; one of these should be a course outside the department, subject to the approval of the director for undergraduate studies. Students in their senior year will take a capstone course (ART 697). Students wishing to write an honors thesis will enroll in ART 691H and ART 692H as part of their electives. Students will choose an area of concentration whose requirements will be filled by four courses at any level and one course outside the department. Both intermediate and advanced courses require at least one previous course in art history - at the intermediate level, at least one previous introductory level course, and at the advanced level, at least one previous intermediate level course. It is recommended that before taking a course numbered above 399, students take a lower level course devoted to the same period. Advanced courses numbered 400-699 are lecture classes open to both graduate and undergraduate students.
Minoring in Art History

Students majoring in another department may elect to pursue a minor in art history. The minor consists of five courses in art history. Two courses should be taken at the 100 level, with at least one of those chosen from the following list. The remaining three courses must be selected from courses numbered 200-699.

ART 150 World Art
ART 153 Intro to South Asian Art
ART 154 Intro to Islamic Art
ART 155 Survey of African Art
ART 157 Intro to Latin American Visual Culture

The remaining courses must be selected from courses numbered 200-699. Studio art majors may not pursue an art history minor.

Art History Courses


058 [006K] First-Year Seminar: Book Art (3). The book as a structural format for expression has a long history in visual arts. We will address aspects of the book that function visually, considering both design and content.

059 [006K] First-Year Seminar: Time, A Doorway to Visual Expression (3). This class will study one of the lesser considered, but most intriguing, visual components: the element of time.

061 [006K] First-Year Seminar: Introduction to American Art (3). The purpose of this class is to examine African American art and some of the historical considerations that affected the nature of its developments.

064 [006K] First-Year Seminar: Picturing Nature (3). This seminar focuses on how the collecting and study of natural and aesthetic wonders shaped ideas about knowledge in the arts and sciences.

071 [006K] First-Year Seminar: Contemporary Native North American Art Practice (3). This course provides an overview of contemporary Native American art from the late 1800s and will focus on regional styles and three major art exhibitions from the 1980s and 1990s.

075 [006K] First-Year Seminar: Stories in Sight: The Narrative Image (3). This class looks at the theory and practice of telling stories through photographs.

077 [006K] First-Year Seminar: Seeing the Past (3). This seminar will introduce students to practices of critical analysis that inform academic work in all the core humanistic disciplines: how do we ask analytical questions about texts, artwork and other cultural artifacts that come down to us from the past or circulate in our own culture?

078 [006K] First-Year Seminar: The Visual Culture of Photography (3). This course will investigate how photography is inextricably entwined in our lives and histories.

079 [006K] First-Year Seminar: Meaning and the Visual Arts (3). In the course of the semester, each student will learn to become an art historian. Students will undertake a series of viewing, research and writing exercises, which will culminate in the production of an exhibition catalogue on world art, titled "In the Eye of the Beholder."

080 [006K] First-Year Seminar: Representing the City of Lights: Paris 1600-2000 (3). This class explores the cultural, political and artistic circumstances in which images of Paris have been made and viewed, including technologies that have disseminated 'Paris' as an image.

082 First-Year Seminar: Please Save This: Exploring Personal Histories Through Visual Language (3). This class will investigate the idea of personal histories in visual art. As a studio class, the course will be organized around several art-making projects. As a catalyst to our own art-making, we will explore the idea of personal history and memory through readings, as well as looking at contemporary artists whose work functions in an autobiographical framework.

084 [006K] First-Year Seminar: Society of the Spectacle: Impressionism and Post-Impressionism (3). Students will pay special attention to recent historical and theoretical studies of Impressionist and post-Impressionist painting, as well as selected French novels of the period.

150 [048] World Art (3). This course provides an introductory survey of some of the major traditions of art-making throughout the world, from prehistory to the present.

151 [031] History of Western Art I (3). This is the first semester of a two-semester survey that is designed to acquaint the beginning student with the historical development of art and with the offerings and instructors of the art history faculty. ART 151 covers ancient, medieval and early Renaissance periods.

152 [032] History of Western Art II (3). This is the second semester of the two-semester survey course including Western art from the Renaissance to modern art. ART 151 is not a prerequisite for ART 152, but all art history majors are required to take both courses. Spring.

153 [022] Survey of Asian Art (ASIA 153) (3). An introductory survey of the visual arts of Asia, including arts of India, China and Japan.

154 Introduction to Art and Architecture of Islamic Lands (6th-16th c. CE) (ASIA 154) (3). This course introduces the arts of the Islamic lands from the seventh-century rise of the Umayyad dynasty of Syria to the 16th-century expansion of the ottoman empire.

155 African Art Survey (3). A selective survey of sub-Saharan African art (sculpture, painting, architecture, performance, personal decoration) in myriad social contexts (ceremony, politics, royalty, domestic arenas, cross-cultural exchanges, colonialism, post-colonialism, the international art world).

156 [030] Introduction to Architecture (3). What is architecture? What does it do? This course is designed to encourage students to consider architecture less as something technical, existing in a separate sphere from everyday life, but as social space.

157 Introduction to Latin American Visual Culture (3). This course examines manifestations of visual culture such as festivals and their related objects, comics, painting, in Latin America according to themes like indigenismo, religion, race, modernism and identity.

159 [029] The Film Experience: Introduction to the Visual Study of Film (3). A critical and historical introduction to film from a visual arts perspective. The course surveys the history of film from its inception to the present, drawing upon both foreign and American traditions.
254 [064] Women in the Visual Arts I (WMST 254) (3). This course analyzes the role of women in Western art as art producers and consumers of art and looks at how women have been represented.

255 African Art and Culture (3). This course explores the art and culture of sub-Saharan Africa on the levels of both production and consumption both locally and globally.

259 Native American Art and Culture (3). Prerequisite, art history or permission of instructor. A selective survey of Native North American art (sculpture, painting, architecture, performance, personal decoration) in myriad social contexts (ceremony, politics, domestic arenas, cross-cultural exchanges, colonialism, post-colonialism, the international art world).

262 [077] Art of Classical Greece (CLAR 262) (3). Prerequisite, any introductory-level art history course. A chronological study of the main development of Greek sculpture, architecture and painting from the fifth to the first centuries B.C.


264 [052] Medieval Art in Western Europe (3). Prerequisite, any introductory art history course or permission of instructor. Survey of major developments in painting and sculpture in Europe during the Middle Ages (300 - 1400 A.D.).

265 [054] Medieval Iconography (3). Prerequisite, any introductory art history course or permission of instructor. Understanding the meaning of medieval art by examining the iconography of selected important works.

266 [068] Early and Modern Indian Art (ASIA 266) (3). This course is an introduction to the visual culture of early and medieval India.

270 [056] Early Renaissance in Italy (3). Prerequisite, any introductory-level art history course or permission of instructor. The purpose of the course is to develop a solid acquaintance with representative aspects of Italian art from about 1250 to 1550. In alternate semesters the emphasis may change from central (Florence, Rome) to northern (Venice) Italy.

271 [057] High Renaissance in Italy (3). Prerequisite, any introductory-level art history course or permission of instructor. The course is a survey of major Italian painting from about 1490 to 1575. From semester to semester the emphasis may alternate between central Italian and Venetian/northern Italian works.

272 [059] Northern European Art: Van Eyck to Bruegel (3). Prerequisite, any introductory-level art history course or permission of instructor. Survey of painting and sculpture c. 1400-1600 in the Netherlands – Belgium (Flanders) and Holland – as well as France and England.

273 [069] Arts under the Mughal Dynasty in India (ASIA 273) (3). Prerequisite, any introductory-level art history course or permission of instructor. This course explores the visual culture patronized by the Mughal dynasty in India from the 11th to the 17th centuries.

274 [050] European Baroque Art (3). Prerequisite, any introductory-level art history course or permission of instructor. This course examines 17th-century art and architecture in Europe.

275 [070] 18th-Century Art (3). Prerequisite, any introductory-level art history course or permission of instructor. An introductory survey of the architecture, sculpture and painting with emphasis on European developments in the "fine" and "decorative" arts from the late 17th century to the Napoleonic era.

282 [072] Impressionism and Symbolism (3). Prerequisite, any introductory-level art history course or permission of instructor. A detailed study of selected paintings and associated critical texts, intended to develop an understanding of the issues of late 19th-century impressionism and symbolism.

283 [045] Picturing Paris: 1800-2000 (3). This class explores the cultural, political and artistic circumstances in which images of Paris have been made and viewed, as well as various visual technologies that have disseminated and marketed.

284 [075] 20th-Century Art (3). Prerequisite, any introductory-level art history course or permission of instructor. Survey of painting from around 1885 to the present, introducing the major artists of the day and investigating the themes revealed through their art.

285 [076] Post-1945 Art (3). Prerequisite, any introductory-level art history course or permission of instructor. An investigation of visual arts from the end of World War II to the present time, including abstract expressionism, pop art, minimal art, new realism and postmodern theories.


290 [080A] Topics in Studio Art or Art History (3). Prerequisite, intermediate level art history or art studio course or permission of the instructor. Selected topics in art history or art studio.

336 Digitizing the Body (3). This class examines contemporary artistic production by international artists that engage, question and challenge ideas of the body. Students will create work in relation to the body using digital technology.

351 [082] Crusader Art (3). Prerequisite, any introductory-level art history course or permission of instructor. This course surveys the main works of Crusader art in order to understand their nature and development from 1099 - to 1291. The Crusader monuments are set in their historical context and in relation to Byzantine and Western European art.

352 Religious Architecture and Visual Culture in Latin America (3). Prerequisite, ART 157 or permission of instructor. This course uses case studies to introduce students to the visual culture manifested in architecture, festivals, ritual spaces, clothing and objects associated with religious practices of Latin America.

353 African Masquerade and Ritual (3). Explores ideas and contexts for select sub-Saharan African rituals/masquerades. Examines how people use objects in establishing and mediating relationships with one another, ancestors and the spiritual world.

362 Early Christian Art and Modern Responses (3). The early Christian origins of art and architecture in domestic and public contexts of the 200-600 CE Christian communities; the 18th- and 20th-century adaptation of early Christian art.

370 Visual Art in the Age of Revolution (3). Prerequisite, 100-level art history course or permission of instructor. This course
focuses on the visual arts of Europe between 1750 and 1830, and addresses the political, social, cultural and aesthetic issues pertinent to art in an age of revolution.

387 [073] 20th-Century African American Art (AFAM 387) (3). Prerequisite, any introductory-level art history course or permission of instructor. This course will focus upon the expression of African American art in the United States in the 20th century with some discussion of Caribbean and South American arts.

390 [121] Special Topics in Studio Art and Art History (1-21). Prerequisite, intermediate-level art history or art studio course or permission of the instructor. Selected topics in art history or art studio.

396 [098] Directed Readings in Art History (3). Permission of instructor. Independent study under the direction of a faculty member.

450 [039] The City as Monument (3). A city or cities will be considered as cultural artifacts, with emphasis given to plans and planning, architecture, public monuments and to various institutions, such as religion, government, the arts and commerce, that initiate or affect these urban developments and forms.

451 [151] Women in the Visual Arts II (WMST 451) (3). Prerequisites, one of the following: Women in Visual Arts I, ART 151, or permission of instructor. Discussion of topics related to the representation of women in Western art and/or women as producers of art.

453 Africa in the American Imagination (3). Prerequisite, art history or permission of instructor. Examines the ways African art appears in U.S. popular culture (advertisements, magazines, toys, films, art) to generate meanings about Africa. Addresses intersecting issues of nationalism, multiculturalism, imperialism, nostalgia, race.

456 [128] Art and Ritual in South Asia (ASIA 456) (3). This thematic course explores how objects and monuments are viewed, experienced and used in a ritual context in South Asia.

457 [187] Studies in the History of Graphic Art (3). Prerequisite, any intermediate-level art history course or permission of instructor. Study of prints and printmaking in Western art from c. 1400 to the present focusing on selected topics.

458 Islamic Palaces, Gardens and Court Culture (Eighteenth to Sixteenth Centuries CE) (3). Prerequisite, ART 154 or permission of instructor. This course focuses on palaces, gardens and court cultures beginning with the eighteenth-century Umayyad period and ending with the 16th-century reigns of the Mughal, Safavid and Ottoman dynasties.

460 [193] Greek Painting (CLAR 460) (3). Prerequisite, any intermediate-level art history course or permission of instructor. A survey of the development of Greek art from geometric to Hellenistic painting through a study of Greek vases, mosaics and mural paintings.

461 [194] Archaic Greek Sculpture (CLAR 461) (3). Prerequisite, any intermediate-level art history course or permission of instructor. A focused study of sculpture during the Archaic period in Greece.

462 [195] Classical Greek Sculpture (CLAR 462) (3). Prerequisite, any intermediate-level art history course or permission of instructor. A focused study of Greek sculpture during the classical period.

463 [196] Hellenistic Greek Sculpture (CLAR 463) (3). Prerequisite, any intermediate-level art history course or permission of instructor. A focused study of Greek sculpture in the Hellenistic period.


466 [153] History of the Illuminated Book (3). Prerequisite, any intermediate-level art history course or permission of instructor. Chronological survey of major developments in book painting during the European Middle Ages from 300 to 1450 A.D.

467 [155] Celtic Art and Cultures (3). This course explores the art and culture from the Hallstatt and La Tène periods (seventh century B.C.E.) to the Celtic "renaissance" (c. 400-1200 C.E.).

471 [154] Northern European Art of the 14th and 15th Centuries (3). Prerequisite, any intermediate-level art history course or permission of instructor. Advanced study of painting and sculpture in France, England and the Netherlands 1300-1400.

472 Early Modern Western Art, 1400-1750 (3). Prerequisite, intermediate level art history or permission of instructor. This course explores specialized themes and/or broad topics in Western European art of the early modern period.

480 [062] British Art (3). Prerequisite, any introductory-level art history course or permission of instructor. Survey of British painting from the time of Hogarth (ca. 1750) through the 19th century. Emphasis will be given to significant artists (Hogarth, Reynolds, Turner, Gainsborough, Constable): movements (neoclassicism, romanticism, pre-Raphaelitism): and ideas (impact of science, industrialization).

487 [086] African Impulse in African African-American Art (AFAM 487) (3). This class will examine the presence and influences of African culture in the art and material culture of Africans in the Americas from the colonial period to the present.

488 Contemporary African Art (3). Prerequisite, ART 152 or ART 155 or permission of instructor. Examines modern and contemporary African art (1940s - present) for Africans on the continent and abroad. Examines tradition, cultural heritage, colonialism, post-colonialism, local versus global, nationalism, gender, identity, diaspora.

490 Special Topics in Visual Arts (3). Prerequisite, intermediate level art history or permission of instructor. This entails an intensive look at issues in the visual arts, and may cover specialized topics or broad themes from any part of the world or any historical period.

514 [132] Monuments and Memory (INTS 514) (3). See INTS 514 course description.

550 [183] Topics in Connoisseurship (3). Permission of instructor required. Works in the Ackland Museum's collection will be studied directly, as a means of training the eye and exploring the technical and aesthetic issues raised by art objects.

551 Introduction to Museum Studies (3). Introduces careers in museums and other cultural institutions. Readings and interactions with museum professionals expose participants to curation, collection management, conservation, exhibition design, administration, publication, educational programming and fundraising.
552 [185] The Literature of Art (3). Prerequisite, any intermediate-level art history course or permission of instructor. A study of the principal critics and historians who have contributed to the development of modern art history. Also application of the principles to specific works of art.

553 [080D] The Body in Social Theory and Visual Representation (3). A study of how the human body has been represented in contemporary art and the relation of those representations to theories of the individual and society.

554 Imagining Otherness in Visual Culture in the Americas (3). Prerequisite, intermediate level art history or permission of instructor. This course examines representational Othering of black, Asian, Latino and Native American people in images in the Americas through post-colonial topics like racial stereotyping, Orientalism, primitivism, essentialism and universalism.

581 [181] Modern Art and Criticism (3). Prerequisite, any intermediate-level art history course or permission of instructor. A study of modern art (c. 1850-1945) with special emphasis on the reception and evaluation of works by writers and art critics.

583 [180] Theories of Modern Art (3). Prerequisite, any intermediate-level art history course or permission of instructor. A study of theoretical issues central to the understanding of trends in modern art (e.g., modernism, the avant-garde, formalism originality).

597 Studio to Wunderkammer (3). Prerequisite, intermediate level art history or permission of instructor. This course explores the history of early modern collecting, encompassing scholars’ and merchants’ ‘study rooms,’ aristocrats’ menageries, humanists’ ‘sculpture gardens’ and princely cabinets of wonders.


691H [090] Honors in Art (3). Prerequisite, permission of instructor. Independent research directed by a faculty member leading to an honors thesis

692H [091] Honors in Art (3). Prerequisite, permission of instructor. Independent research directed by a faculty member leading to an honors thesis.

697 Art History Capstone (3). In this seminar, designed for undergraduate majors, students apply their training in art historical methods towards the creation of a geographically and chronologically inclusive online exhibition.

**Studio Art Program**

The program in studio art at UNC-Chapel Hill focuses on fine arts. Students may choose from a range of studio course work designed to develop both skill acquisition and a personal creative vision. We develop two critical skills: the means of self-expression and techniques for creative thinking. Our responsibility to the studio art major is to develop a sense of professional standards and future career potential. While the undergraduate program focuses on the fine arts, the course of study nonetheless offers a sound foundation for students to move into art education, applied arts and other art-related careers as well as preparing for further study or careers in the fine arts.

Students choosing a studio art major begin with a series of foundation courses that are designed to develop their understanding and application of visual language across a range of media. In these courses, students address both skill development and the nature of artistic inquiry. Believing that technique serves the visual idea, we stress the integration of media skill and concept. Conventional issues of artisanship, technique and skill acquisition are taught as part of a larger concept of art making. The goal is to equip students with a variety of skills and visual strategies that they will be able to apply in meaningful contexts. In the final analysis, we expect students to become technically competent, conceptually independent, critically aware and dedicated to their passion of art making.

This philosophy encompasses our contextualization in an institution of higher education. We embrace the notion that being an artist today requires an intellectual curiosity and broad base of knowledge that, in turn, informs studio work. The University of North Carolina at Chapel Hill provides limitless resources to the studio artists in our program. The studio program in the Art Department becomes a site of synthesis of intellectual inquiry and subjective lived experience.

The Department of Art offers two undergraduate degrees in studio art: the bachelor of arts (41 credit hours) and the bachelor of fine arts (60 credit hours). Additionally, a combined studio/art history degree has been designed for those wishing to have a depth of study in both programmatic areas in the Art Department. The studio component of the B.F.A./art history emphasis (60 credit hours) parallels the B.A. degree with some exceptions as noted.

**Majoring in Studio Art (three degree options):**

**Bachelor of Arts (B.A.)**

The B.A. degree is intended to expose the undergraduate student to a broad range of studio art ideas and practices. Students should choose this degree option if they are seeking a general liberal arts education. It is also the preferred degree option when seeking a double major. Co-majors are frequent in communication studies, journalism (design track), biology, drama (costume and set design), psychology (art therapy) and any field augmented by visual arts study. In fact, whatever discipline students might choose to pursue, whether the arts, humanities or sciences, medicine or law, success will depend on two abilities: the ability to find creative solutions to problems and the ability to express individuality. Art, by its very nature, gives these skills to those who study the discipline.

**Bachelor of Fine Arts (B.F.A.)**

The B.F.A. is considered the pre-professional course of study, providing a more in-depth experience of visual concept and practice. Students intending to pursue further study in visual arts disciplines (master of fine arts, design fields or architecture) should choose this degree option. Students considering the B.F.A. degree are advised to contact the undergraduate advisor for studio art during the first year and no later than the sophomore year.

**Bachelor of Fine Arts with Art History Emphasis (B.F.A.-A.H.)**

The bachelor of fine arts with art history emphasis degree was established to allow students to pursue concentrated study in both studio art and art history. Basically, it represents a double major of studio art and art history. Unique to UNC-Chapel Hill, this degree has been well received for students wishing to pursue graduate
study in fields that demand knowledge in both history and practice, such as curatorial studies, museum studies or education. Students pursuing this degree are advised by the director of undergraduate studies for both studio art and art history. Students interested in this degree should contact both advisors no later than the sophomore year.

Note: All Foundations, Approaches and Connections requirements must be satisfied. Because of the increased number of Department of Art hours required for the B.F.A. and B.F.A./A.H. degree, these students are not required to complete the Supplemental General Education requirements. Students should be aware that courses taken in the Art Department beyond the total credits outlined in the major will not count toward graduation.

Degree Requirements: B.A., B.F.A.

The B.A. and B.F.A. degrees are divided into five basic sections:

1. Foundation Courses
These courses are required for all B.A. and B.F.A. majors. All upper level courses have at least one foundation course as a prerequisite. Students should not take more than two intermediate or upper level courses before they have completed all of the following foundation courses:

- ART 102 Two-dimensional Design
- ART 103 Three-dimensional Design/Introduction to Sculpture
- ART 104 Basic Drawing and Composition
- ART 105 Basic Photography

2. Studio Concentration Courses
   B.A. – 2 courses (6 credit hours). B.F.A. – 5-6 courses (13-19 credit hours).

   Students choose an area of concentration in painting/drawing, printmaking, photography (including video), digital, mixed media or sculpture. In general, courses are numbered to reflect the concentration areas in the last digit. Painting courses end in 2, sculpture 3, drawing 4, photography 5, electronic media 6, mixed media 7, printmaking 8. Other thematic or media courses may count in a variety of media areas depending on the topic. Some courses may bridge multiple areas of concentration. Be sure to check with the undergraduate advisor for studio art to know whether certain courses can apply to your area of concentration.

   Some intermediate and advanced courses may be taken for variable (Var) credit with instructor permission. Students may also pursue independent study course work with individual faculty. Such work may be undertaken only with permission of the sponsoring faculty and is appropriate only after the typical sequence of courses has been completed.

   Students must consult with individual instructors to outline and contract specific requirements for variable credit hour study. Students taking variable credit should expect to engage in a minimum of two hours of supervised work and an additional two hours per credit outside of class work per week.

3. Studio Electives
   B.A. – 2 courses (6 credit hours). B.F.A. – 5-6 courses (15-18 credit hours).

   Studio electives provide for breadth in the studio art degree. Courses should be in areas other than the student's concentration.

4. Art History
   3 courses (9 credit hours).
   Recommended first course: Art Survey (ART 151 and/or 152)
   One course must be 50 level or above
   One course must be in the area of 19th or 20th century

5. Professional Development

   Professional Seminar (ART 394) – Taken in the spring of the junior year, this course explores topics such as further academic study in art (graduate school), exhibiting work (galleries, museums, competitive exhibitions) and career options (including art education, art therapy, design fields, curatorial, critical writing).

   Senior Exhibition – All graduating art majors participate in a graduation exhibition. In the spring of the senior year, a designated faculty member facilitates the senior exhibition. Organizational meetings usually happen in February. The Senior Exhibition is hung during exam week and is on view through graduation.

Credit Summary – B.A., B.F.A.

<table>
<thead>
<tr>
<th>B.A.</th>
<th>B.F.A.</th>
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<tbody>
<tr>
<td>Foundation Courses (ART 102, 103, 104, 105)</td>
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<tr>
<td>Life Course (ART 214 or 223)</td>
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<tr>
<td>Studio Concentration</td>
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<tr>
<td>Studio Electives</td>
<td>6</td>
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<tr>
<td>Professional Seminar</td>
<td>2</td>
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<td>Art History Credits (3 courses)</td>
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<tr>
<td>Graduation Exhibition requirement</td>
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<td>Total Department Credits</td>
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B.F.A. with Art History Emphasis Degree Requirements

In general, the studio component of the joint degree parallels the B.A. in studio art.

1. Foundation Courses

   These courses are required for B.F.A./A.H. majors. All upper level studio courses have at least one foundation course as a prerequisite. Students should not take more than two intermediate or upper level studio courses before they have completed all of the following foundation courses:

   ART 102 Two-dimensional Design
   ART 103 Three-dimensional Design/Introduction to Sculpture
   ART 104 Basic Drawing and Composition
   ART 105 Basic Photography
   ART 151 Survey of Western Art - Ancient to Renaissance
   ART 152 Survey of Western Art - Renaissance to Contemporary

2. Studio Concentration Courses
   2 courses (6 credit hours)

   Students choose an area of concentration in painting/drawing, printmaking, photography (including video), digital, mixed media or sculpture. In general, courses are numbered to reflect the concentration areas in the last digit. Painting courses end in 2, sculpture 3, drawing 4, photography 5, electronic media 6, mixed media 7, printmaking 8. Other thematic or media courses may count in a variety of media areas depending on the topic. Some courses may bridge multiple areas of concentration. Be sure to check with the undergraduate advisor for studio art to know whether certain courses can apply to your area of concentration.

3. Studio Electives
   2 courses (6 credit hours)

   Studio electives provide for breadth in the studio art degree. Courses should be in areas other than the student's concentration.

4. Art History Emphasis
   8 courses (24 credit hours)
   One course in ancient art history numbered 200-699
   One course in medieval art history numbered 200-699
One course in Renaissance/baroque art history numbered 200-699
One course in modern art history numbered 200-699
Four additional art history courses, all numbered above 199, at least two above 399

5. Professional Development

Professional Seminar – Taken in the spring of the junior year, this course explores topics such as further academic study in art (graduate school), exhibiting work (galleries, museums, competitive exhibitions) and career options (including art education, art therapy, design fields, curatorial, critical writing).

Senior Exhibition – All graduating art majors participate in a graduation exhibition. In the spring of the senior year, a designated faculty member facilitates the senior exhibition. Organizational meetings usually happen in February. The Senior Exhibition is hung during exam week and is on view through graduation.

Credit Summary – B.F.A./A.H.

Foundation Courses (ART 102, 103, 104, 105, 151, 152) 18
Life Course (ART 214 or 223) 3
Studio Concentration (2-3 courses) 6-7
Studio Electives (2 courses) 6
Professional Seminar 2
Art History Emphasis (8 courses) A choice of courses from ART 199-699, with two at ART 399 or above.
At least one course in each of four fields:
Ancient
Medieval
Renaissance/Baroque
Modern 24
Graduation Exhibition 0

Total Department Credits 60

Studio Courses and Non-majors

Studio art courses, especially foundation-level courses, are extremely popular. Because these are required courses for studio art majors, registration is limited to majors during the first part of the pre-registration period. Remaining spaces are made available to non-majors during the registration time for first-year students. Because the department gives this preference to studio art majors, non-majors, undeclared students or continuing study students often find it difficult to enroll in these courses. Individuals seriously considering a studio art major and experiencing such difficulty should see the undergraduate advisor for studio art. We reserve a small number of spaces for such students. Students may be asked to demonstrate commitment to studio art with some examples of artwork.

Variable Credit Courses in Studio Art

Some intermediate and advanced courses may be taken for variable (Var.) credit with instructor permission. Students may also pursue independent study course work with individual faculty. Such work may be undertaken only with permission of the sponsoring faculty and is appropriate only after the typical sequence of courses has been completed.

Students must consult with individual instructors to outline and contract specific requirements for variable credit hour study. Students taking variable credit should expect to engage in a minimum of two hours of supervised work and an additional two hours per credit outside of class work per week.

Independent Study

Students may pursue independent study course work with individual faculty. Such work may be undertaken only with permission of the sponsoring faculty and is appropriate only after the typical sequence of courses has been completed. Students should consult individual faculty prior to registration to secure permission. Most faculty require a written plan for the semester’s work. Students should submit a proposal outlining technical and conceptual motivations and goals for production for the semester.

Studio Courses

Foundation Courses

102 [005] Two-Dimensional Design (3). The study of the anatomy of a visual message. Through manipulation and analysis of the formal elements of line, shape, value, texture and color, students will explore psychological and intellectual consequences and strategies for controlling compositional structures.

103 [002] Three-Dimensional Design/Introduction to Sculpture (3). Designed to develop aesthetic sensibility, analytical capacity and fundamental skills in three-dimensional media.

104 [004] Basic Drawing and Composition (3). Designed to develop aesthetic sensibility, analytical capacity, creative interpretation and fundamental skills in two-dimensional media.

105 [009] Basic Photography (3). A beginning course in creative black and white photography. Technical information will serve the broader goal of understanding aesthetic and critical concerns of the photographic image and art in general.

Level 1 Courses

106 [018] Electronic Media (3). A beginning course in electronic media, introduction to various programs frequently used in art making.

202 [015] Painting I (3). Prerequisite, ART 104, ART 102, or permission of instructor. Introduction to the techniques of two-dimensional thought and process through the application of various painting media.

203 [016A] Sculpture I (3). Prerequisite, ART 103 or permission of instructor. Introduction to the techniques of three-dimensional thought and process through the application of the various sculpture media.

208 Print Survey (3). Introduction to four basic approaches to printmaking: intaglio, relief, planographic and stencil processes. Students will explore creative strategies unique to the printed process.

213 [0168] Ceramic Sculpture I (3). Prerequisite, ART 103 or permission of instructor. An investigation of clay as a sculptural medium, developing technical skills, aesthetic awareness and historical perspective.

214 [024] Life Drawing I (3). Prerequisite, ART 104. Development of proficiency in figure drawing through the use of various drawing and painting materials (study from the model).

223 [026] Life Sculpture (3). Prerequisite, ART 103 or permission of instructor. Conceptual investigation of the figure and issues of the body through the combined use of various sculptural materials.

324 [014] Intermediate Drawing (3). Prerequisite, ART 104. Continuation of ART 104.
Level 2 Courses

206 [088] Intermediate Electronic Media (3). Prerequisites, ART 106 and permission of the instructor. Continuation of ART 106.

290 [080A] Topics in Studio Art or Art History (3). Prerequisite, intermediate level art history or art studio course or permission of the instructor. Selected topics in art history or art studio.


307 [063] Mixed Media Seminar (3). Prerequisite, ART 103, ART 104, or permission of instructor. Work produced in this class crosses media boundaries. Students consider the codedness of media and stylistic approaches and how these mediate specific content ideas as determined from specific readings.


314 [084] Life Drawing II (3). Prerequisite, ART 214. Continuation of ART 214.

328 Serigraphy (1-21). Serigraphy is an intermediate-level printmaking class. The course provides basic technical introduction primarily in silkscreen. Students will explore the printed image through hand-drawn, photographically and digitally produced images.

330 [093] Time, the Forgotten Element (3). Prerequisites, ART 103, 104, or 105, and one other course numbered in the 100s, or permission of instructor. Concept-driven studio course explores issues of time. Students consider scientific, philosophical and personal definitions of time to inform projects using a variety of two-, three- and multidimensional approaches.

338 [067A] Intermediate Intaglio and Relief Printmaking (1-21). Prerequisite, ART 208. Continuation of ART 208, with emphasis on intaglio and relief.

348 Lithography (1-21). Lithography is an intermediate-level printmaking class. The course provides basic technical introduction to stone and plate lithography. Students will investigate artistic strategies to forge visual literacy in print media.

428 [047] Book Art (3). Prerequisite, ART 102 and one other 2-D studio course (drawing, photography or printmaking). Defining the book as a "multiple and sequential picture plane," this course considers a range of traditional approaches and conceptual departures of the book as a format for creative expression.

Level 3 Courses

390 [121] Special Topics in Studio Art and Art History (1-21). Prerequisite, intermediate-level art history or art studio course or permission of the instructor. Selected topics in art history or art studio.

394 [131] Professional Seminar (2). Prerequisite, 20 hours in studio art or second-semester junior status. The professional seminar introduces the studio major to practical aspects involved in a career in studio art.

402 [125] Advanced Painting (1-21). Prerequisite, ART 302 or permission of instructor. Continuation of ART 302. May be repeated for credit.

403 [126A] Advanced Sculpture (1-21). Prerequisite, ART 303 or permission of instructor. Continuation of 66AART 303. May be repeated for credit.

405 [099] Color Photography (3). Prerequisite, ART 105. The class will focus on lectures, readings, technical demonstrations and visual assignments investigating color photography. Students will be responsible for completing a series of photographic assignments. Emphasis will be placed on intensive final projects.

410 [133] Public Art (3). Prerequisite, ART 302, 303, 305 or permission of instructor. This studio class explores public art from historical and critical perspective. Students will propose and create works of public art. Opportunities to implement projects will be explored through the Art Department and other resources.

413 [126B] Advanced Ceramic Sculpture (1-21). Prerequisite, ART 313 or permission of instructor. Continuation of ART 313. May be repeated for credit.

415 [109] Conceptual-Experimental Photography (3). Prerequisites, ART 105 (Basic Photography) and at least one of the following: ART 305 or 405. Conceptual Photography is an advanced photography course for students interested in contemporary photographic practices, critical theory, art history and experimental processes: theory and practice, formal and conceptual investigations, and historical and contemporary strategies will all be given equal attention.


407 [123] Body Imaging (3). Prerequisites, ART 102 and one intermediate class or permission of instructor. Work is made through close examination and analysis of the human "body." Work may be made using any technical or theoretical approach. Required readings provide a conceptual grounding.

416 [138] Video Art (3). Prerequisite, ART 106 or permission of instructor. An introduction to the creative and technical processes in producing video art. Students will shoot and edit their own independent video projects. Some class time will be devoted to viewing video art and other media-based work.

418 Advanced Printmaking (1-6). Prerequisites, ART 208 and any two of ART 318, 328, 338 or 348 or permission of instructor. This course is appropriate for students who have had a minimum of 3 semesters of prior printmaking experience. Students submit a proposal outlining technical and artistic goals for the semester.

423 [136] Installation (3). Prerequisite, ART 303 or permission of instructor. This class explores art that encompasses its audience. Conceptual motivations as well as practical realities of dealing with a specific three-dimensional space will be considered.

515 [517] Advanced Photography (3). Prerequisite, ART 305 or permission of instructor.

590 Independent Study in Studio Art (1-9). Prerequisite, permission of instructor. For students wishing to pursue additional media or thematic study beyond the advanced level. Students register with section numbers designated for faculty. May be repeated for credit.
Honors in Art History

The Honors Program is open to students with a 3.2 GPA who have demonstrated overall excellence in the discipline. Honors are generally pursued in the senior year. Students enroll in the honors courses (ART 691H, fall; ART 692H, spring) through the student services liaison in the Art Department office. This should be done after consultation with the faculty honors advisor and department honors advisor. For more information, see the Honors Program description elsewhere in this bulletin and the departmental honors announcement. Honors work will allow a student to graduate with honors or with highest honors.

Studio Art

The Honors Program in studio art is designed to enable senior majors an opportunity to pursue serious and substantial work culminating in a senior honors project. Successful completion of the project qualifies the student to graduate with honors or with highest honors. Studio art majors with a grade point average of 3.2 or above are eligible for consideration. Admission to the studio art Honors Program is determined by a review of work by a designated faculty committee. For this review, students must submit:
1. a completed application, including a faculty sponsor of the application,
2. a written statement regarding the work, and
3. a specified body of work for review by the honors committee.

The work must demonstrate a mature capability to perform visual research. These reviews are scheduled each spring (early April) for rising seniors.

Additional review times can be scheduled for students who are studying abroad during the normal spring application time or who anticipate a December matriculation date. Students should notify the director of undergraduate studio art as soon as it is determined that an alternate review is needed. Reviews must be scheduled a week in advance and completed absolutely no later than the first week of the senior year.

Once accepted as a studio art honors candidate, students enroll in the honors courses (ART 691H, fall, and ART 692H, spring). These credit hours are applied toward the concentration. All studio honors students must exhibit their honors project work in the Honors Exhibition scheduled for the June and John Allcott Gallery or in an approved alternate venue. Specific requirements for the honors project and a schedule of departmental and University deadlines are issued at the time of acceptance into the studio Honors Program and are available on the studio art majors Blackboard site.

Special Opportunities in Art

Credit by Examination

Students who fulfill the studio art portfolio requirements for the Advanced Placement Examination and earn a score of 4 or 5 will automatically receive credit for ART 102, 103, or 104. Students who score a 3 may petition for a portfolio review to determine if they should receive credit for one of these courses (see the undergraduate advisor in studio art). Students earning a score of 5 or higher on the International Baccalaureate portfolio will be granted three credits for ART 102 or 104. Advanced Placement by Portfolio Review

Art majors who have broad experience in visual art may petition to waive foundation level requirements by submitting a portfolio review. If the review is successful, students DO NOT receive credit for these courses; rather the credit hours are redistributed to the studio concentration or elective component of the degree. Portfolio requirements are modeled after the College Board Advanced Placement portfolio guidelines. These guidelines are available from the director of graduate studies in studio art or on the art majors Blackboard site.

Departmental Involvement

The extracurricular programs in studio art are significant experiences for all studio art students outside of regular class structures. Students have opportunities to see and interact with professional artists and their work through exhibition in the Allcott Galleries, installations of sculptural works in the Alumni Sculpture Garden, artist in-residence programs and the Hanes Visiting Artist Lecture Series. The Undergraduate Art Association is the studio student's professional organization. The UAA has programmatic responsibility for the John and June Allcott Undergraduate Gallery.

Internships

Students are encouraged to pursue internships at local, regional or national arts institutions. Information about internship opportunities is available in the department office. To receive academic credit for an internship, the student must arrange in advance with a department faculty member a directed readings course (ART 396) that is approved by the department advisor.

Independent Study

Art history majors may register for ART 396 with permission of instructor. Studio art majors should see the director of undergraduate studies in the department.

Study Abroad

Studio art students are encouraged to pursue study abroad opportunities. While there are many opportunities to study art abroad, the Art Department maintains a special affiliation with the Studio Art Centers International (SACI) in Florence, Italy, and the Glasgow School of Art in Scotland. Students should discuss their study abroad plans with the director of undergraduate studies in studio art to obtain prior approval for courses taken abroad. Basically, courses that have an equivalent match in the UNC-Chapel Hill curriculum usually are approved. Courses that fall outside the UNC-Chapel Hill curriculum must be evaluated on a case-by-case basis.

Undergraduate Awards

Each December there is a competition for undergraduate scholarship awards in studio art. Students submit up to four works to be considered for the following scholarships: The Alexander Julian Prize (one award to our best student), the Sharpe Scholarships (multiple awards for students receiving financial aid), Kachergis Memorial Scholarships (multiple awards chosen by a student-designated committee), The Anderson Award (one award) and The Penland School of Craft Scholarship (covers expenses for a summer course at the Penland School of Craft). Awards range from a minimum of $600 up to $2,000.

Undergraduate Research

Opportunities for undergraduate research in the art department exist in several forms. Detailed descriptions and application guidelines are available on the art majors Blackboard site and from the student services representative in the Art Department office.

Allcott Travel Fellowships support two summer research projects in studio art or art history.

R.M. Hanes Summer Fellowship in Studio Art awards up to $3,000 for a studio art research project. It is a Summer
Undergraduate Research Fellowship (SURF) administered through the UNC Office of Undergraduate Research.

Facilities
The department possesses outstanding facilities for the teaching of both art history and studio art in the Hanes Art Center. The building houses state-of-the-art facilities for image projection and other art history classrooms as well as specialized classroom studios for painting, drawing, printmaking, photography and electronic media. Students enrolled in studio classes have 24-hour access to these studio labs. In addition, the 17,686-square foot Art Lab, located 1.8 miles north of the Hanes Art Center (108 Airport Drive), houses the department's sculpture facilities.

Art Department resources also include the Joseph C. Sloane Art Library with its collection of 100,000 volumes, which is supplemented by the University's Academic Affairs Libraries with holdings of more than 5 million volumes. The department's Visual Resources Library contains 250,000 slides, 40,000 photographs and 20,000 digitized images. The University's Ackland Art Museum is located adjacent to the Hanes Art Center. The Ackland's programming regularly augments the educational experience of the University community.

The John and June Allcott Galleries in the Hanes Art Center are the sites for numerous exhibitions throughout the year. The main gallery has an exhibition schedule of 12 to 15 shows each year, including work by professional artists, faculty and graduate students, and the annual award and graduation shows of undergraduate work. The John and June Allcott Undergraduate Gallery is the exhibition space designed especially for work produced or chosen by undergraduate students. The Alumni Sculpture Garden occupies the grounds surrounding the Hanes Art Center. Temporary exhibitions of sculpture are commissioned by the department and are on display for a two-year period. An annual student competition awards commissions to undergraduate and graduate students.

UNC-Chapel Hill's location affords easy access to several regional art venues, including the North Carolina Museum of Art in Raleigh, the Green Hill Center in Greensboro and the Southeastern Center for Contemporary Art in Winston-Salem. Additionally, the Center for Documentary Studies, the Nasher Museum at Duke University and the Weatherspoon Museum at UNC-Greensboro offer expanded opportunities to view art in the immediate area. Several smaller galleries and alternative exhibition spaces in the Triangle region also offer regular opportunities to see contemporary art. In particular, Lump Gallery and the Contemporary Art Museum in Raleigh have hosted exceptional exhibitions. The rich museum and gallery scene in Washington, D.C., is about a four-and-a-half-hour drive. Flights to New York are relatively inexpensive from the Raleigh-Durham airport.

Contact Information

Department of Asian Studies
www.unc.edu/depts/asia

GANG YUE, Chair
Professors
Peter A. Coclanis, Carl Ernst, W. Miles Fletcher, Guang Guo,

Gail Henderson, Kevin Hewison, Norris Johnson, Ryuko Kubota, Melinda Meade, Donald M. Nonini, James L. Peacock, Steven Rosefield, Thomas A. Tweed, Xinzhao Zhao.

Associate Professors

Assistant Professors
Barbara Ambros, Claire Anderson, Daniel Botsman, Inger Brodey, Thomas Campanella, Nila Chatterjee, Mark Driscoll, Banu Gokarilek, Li-ling Hsieh, Lauren Leve, Christopher Nelson, Lisa Pearce, Omid Safi, Jennifer Smith, Meenu Tewari, Robin Visser.

Senior Lecturer
Eric Henry.

Lecturers

Professors Emeriti

Introduction
The interdisciplinary Asian studies curriculum provides an intellectual challenge as well as sound training for students who intend to go on to graduate school in the social sciences or humanities and focus their research on Asia. It also provides an essential background for students who are contemplating professions (such as business, law, or journalism) with the intent of doing extensive work in Asia. The curriculum combines extensive language training with broad cultural studies that include art, history, literature, and religion as well as social science subjects such as anthropology, economics, geography, political science, and sociology.

Programs of Study
The degree offered is bachelor of arts in Asian studies; within the major it is possible to pursue the general interdisciplinary track or to concentrate in Arab Cultures, Chinese, or Japanese. Minors in Asian studies, Arabic, Chinese, modern Hebrew, Hindi-Urdu, and Japanese are also offered. Students majoring in the Department of Asian Studies may also pursue a minor in the Department of Asian Studies that is different from their major.

Majoring in Asian Studies: Bachelor of Arts
All General Education requirements apply. The major in Asian studies consists of eight interdisciplinary courses and four language courses. Of the eight interdisciplinary courses, at least one must be chosen from each of the following three divisions:

History
ASIA 53, 54, 131, 132, 133, 134, 135, 136, 138, 139, 152, 187, 244, 261, 275, 276, 277, 281, 282, 283, 287, 288, 536, 537, 538, 539, 570; HIST 393 (when offered on Asia); JAPN 161, 377.

Humanities
Social Sciences
ANTH 103, 120, 320; ASIA 52, 155, 192, 226, 243, 250, 265, 267, 350, 429, 440, 447, 453, 457, 460, 461, 469, 545, 574, 578, 586, 682; CHIN 562; POLI 195 (when offered on Asia).

A student may not count toward the interdisciplinary major in Asian studies both of any of the following pairs of courses: ASIA 138 and ASIA 180; ASIA 139 and ASIA 181; ASIA 451 and ASIA 535; ASIA 53 and JAPN 161.

With the approval of the associate chair of Asian studies, a student may substitute a course in directed readings (ASIA 396) for one of the interdisciplinary courses. To register for ASIA 396, a student must obtain the approval of the associate chair and the faculty member who will supervise the project.

More than one Asian country must be represented among the student's interdisciplinary courses.

Of the eight interdisciplinary courses, at least six must be passed with a grade of C (not C-) or better. No interdisciplinary course may be taken pass/fail.

Language Requirements
Majors must take four courses in a single Asian language. Students may use these courses to fulfill the General Education foreign language requirement. Up to two language courses beyond level four may count as interdisciplinary courses for the major.

Concentrations in the Asian Studies Major

Arab Cultures Concentration
Within the major in Asian studies, students may take a concentration in Arab cultures, which requires eight courses, in addition to ARAB 101, 102, 203, and 204. The eight major courses consist of:
- Two Arabic language courses beyond ARAB 204. (Students whose initial language placement is above ARAB 305 should consult the department.)
- ARAB 223 (Conversational Arabic). Students who are already conversant with an Arabic dialect may substitute an additional literature or culture course from ARAB 407, 408, 433, 434, 452, 453, 461; ASIA 451, 452, 455; they are highly encouraged to choose one of the literature courses taught in Arabic (ARAB 407 and 408).
- Either ARAB 150 (Introduction to Arab Culture) or ARAB 151 (Survey of Arabic Literature). It is recommended that students take ARAB 150 and/or 151 either prior to or concurrent with upper-level Arabic literature and culture classes.
- Four Arabic literature and culture courses, of which at least three must be chosen from ARAB 407, 408 (both taught in Arabic), 433, 434, 452, 453, 461; ASIA 451, 452, 455. At most one course may be chosen from ART 351; ASIA 138, 139, 276, 277, 447, 536, 537, 538, 581, 582; RELI 480; SOCI 419; or approved courses taken in UNC-sponsored study-abroad programs.
- A student may not count both ASIA 451 and ASIA 538 toward the Arab cultures concentration.

Students majoring in Arab cultures are strongly encouraged to choose from the following courses to fulfill some of the General Education requirements or as electives: ART 351; ASIA 138, 139, 276, 277, 447, 536, 537, 538, 581, 582; RELI 480; SOCI 419.

With the approval of the associate chair of Asian studies, a student may count a course in directed readings (ASIA 396 or ARAB 496) in the concentration in Arab cultures. To register for ASIA 396 or ARAB 496, a student must obtain the approval of the associate chair and the faculty member who will supervise the project.

Of the eight courses in the concentration in Arab cultures, at least six must be passed with a grade of C (not C-) or better. No course in the concentration may be taken pass/fail.

Chinese Concentration
Within the major in Asian studies, students may take a concentration in Chinese, which requires eight courses, in addition to CHIN 101, 102, 203, and 204 (or CHIN 111 and 212). (Students whose initial language placement is above CHIN 305 or 313 should consult the department.) Upon completion of CHIN 204 (Intermediate Chinese II) or CHIN 212 (Intermediate Written Chinese), students can pursue the concentration along one of two tracks:
- Track A: For students who have completed CHIN 204, the following six language courses are required: CHIN 305, 306, 407, 408, 490, and 510.
- Track B: For students who have completed CHIN 212, the following six language courses are required: CHIN 313, 414, 490, 510, 462, and 590.

Students on both language tracks must complete two additional courses, chosen from ASIA 453; CHIN 150, 252, 354, 361, 451, 452, 463, 464, 544, 551, 552, 562, or 563. Students on track A may take CHIN 462 in lieu of one of these two additional courses.

Approved courses taken in UNC-Chapel Hill sponsored study abroad programs may count in the concentration. Students taking a concentration in Chinese are also encouraged to take the following courses: ASIA 133, 134, 183, 226, 265, 282, 283, 284, 545, 574, 578, 682.

With the approval of the associate chair of Asian studies, a student may count a course in directed readings (ASIA 396 or CHIN 496) in the concentration in Chinese. To register for ASIA 396 or CHIN 496, a student must obtain the approval of the associate chair and the faculty member who will supervise the project.

Of the eight courses in the concentration in Chinese, at least six must be passed with a grade of C (not C-) or better. No course in the concentration may be taken pass/fail.

Japanese Concentration
Within the major in Asian studies, students may take a concentration in Japanese, which requires eight courses, in addition to JAPN 101, 102, 203, and 204. Of the eight courses, six must be language courses beyond JAPN 204 (the second semester of Intermediate Japanese), chosen from JAPN 305, 306, 408, 409, 410, 490, 517, 518, 519, or 590. (Students whose initial language placement is above JAPN 305 should consult the department.) The remaining two courses must be chosen from among the following: ASIA 379, 380, 457, 481, 483, 486; JAPN 160, 161, 261, 375, 376, 377, 378, 381, 384, 482. Approved courses taken in UNC-Chapel Hill sponsored study abroad programs may count in the concentration. Students taking a concentration in Japanese are also encouraged to take the following courses: ASIA 134, 183, 226, 265, 281, 284, 286, 287, 288, 440, 586.

With the approval of the associate chair of Asian studies, a student may count a course in directed readings (ASIA 396 or JAPN 496) in the concentration in Japanese. To register for ASIA 396 or JAPN 496, a student must obtain the approval of the associate chair and the faculty member who will supervise the project.

Of the eight courses in the concentration in Japanese, at least six must be passed with a grade of C (not C-) or better. No course in the concentration may be taken pass/fail.

Minoring in Asian Studies
A student may take an interdisciplinary minor in Asian studies by completing five courses, with at least one course chosen from each
of the three divisions of the Asian studies major: history, humanities, and social sciences. (Students interested in advanced Asian language training should consider the Arabic, Chinese, Hebrew, Hindi-Urdu, or Japanese minors.)

A student may not count toward the interdisciplinary minor in Asian studies both of any of the following pairs of courses: ASIA 138 and ASIA 180; ASIA 139 and ASIA 181; ASIA 451 and ASIA 538; ASIA 53 and JAPN 161.

Minoring in Arabic (Asian Studies)
The undergraduate minor in Arabic consists of four courses.

Three courses are language courses beyond ARAB 203 (the first semester of Intermediate Arabic).

The other course must be chosen from among the following: ARAB 150, 151, 223, 407, 408, 433, 434, 452, 681; ASIA 138, 139, 154, 180, 181, 187, 192, 275, 276, 277, 447, 451, 452, 455, 536, 537, 538, 581, 582.

A student may not count toward the Arabic minor both of any of the following pairs of courses: ASIA 138 and ASIA 180; ASIA 139 and ASIA 181; ASIA 451 and ASIA 538.

Minoring in Chinese (Asian Studies)
The undergraduate minor in Chinese consists of five courses.

At least three of the courses must be language courses beyond CHIN 203 (the first semester of Intermediate Chinese), chosen from among the following: CHIN 204, 212, 305, 306, 313, 407, 408, 414, 490, 510, or 590.

The other two courses may be chosen either from the same list or from among the following: ASIA 453; CHIN 150, 252, 354, 361, 451, 452, 462, 463, 464, 544, 551, 552, 562, 563.

Minoring in modern Hebrew (Asian Studies)
The undergraduate minor in Hebrew consists of four courses.

Three courses are language courses beyond HEBR 203 (the first semester of Intermediate Hebrew).

The other course must be chosen from among the following: AMST 253; ASIA 276, 277, 538; ENGL 239; GERG 56, 270; HIST 262; RELI 103, 106, 107, 110, 205, 206, 343, 401, 402, 403, 404, 503, 512, 602.

Minoring in Hindi-Urdu (Asian Studies)
The undergraduate minor in Hindi-Urdu consists of four courses.

Three courses are language courses beyond HNUR 203 (the first semester of Intermediate Hindi-Urdu).

The other course must be chosen from among the following: ASIA 135, 136, 152, 155, 161, 162, 253, 261, 582; HNUR 407, 408, 490, 592.

Minoring in Japanese (Asian Studies)
The undergraduate minor in Japanese consists of four language courses beyond JAPN 203 (the first semester of Intermediate Japanese), chosen from among the following: JAPN 204, 305, 306, 408, 409, 410, 490, 517, 518, 519, 590.

Honors in Asian Studies
A candidate for honors in Asian studies will write a substantial paper under the guidance of a faculty member. While researching and writing the honors paper, the student will enroll in ASIA 691H and 692H, which count as two of the interdisciplinary courses of the major. In the case of the concentrations in Chinese and Japanese, ASIA 691H and 692H may count toward the major in the concentration as deemed appropriate by the department.

A committee composed of at least two faculty members will examine the candidate. To be accepted as an honors candidate, a student must meet the College of Arts and Sciences requirement of a minimum overall grade point average of 3.2, secure the consent of a faculty member in the Asian studies field to act as advisor for the project, and submit a proposal to the associate chair of Asian studies for approval.

Special Opportunities in Asian Studies
Departmental Involvement
The department sponsors a variety of cultural events—lectures, film series, performances, and more—as well as social and informational events where students can get to know each other and faculty members in an informal setting. Faculty in the department serve as advisors to some of the many Asia-related student organizations on campus, such as the Japan Club, Chinese Conversation Club, and more.

Languages Across the Curriculum
The department participates in the Languages Across the Curriculum (LAC) program, offering a one-credit-hour discussion section that is conducted in Arabic but associated with a variety of courses offered in English, both in Asian studies and in other departments such as history or religious studies. This LAC recitation section offers students the opportunity to use their Arabic language skills in a broader intellectual context.

Libraries
The University has rich collections of books and periodicals on Asia in the relevant Asian languages, as well as in English and other Western languages. Experts in the collection development department of Davis Library are available to help students locate the materials they need. The University also has an outstanding collection of Asian films and other audiovisual materials, housed in the Media Resource Center at House Library.

Speaker Series
The department sponsors an annual speaker series. These events include lectures by prominent artists, scholars, and writers, and are often cosponsored by other units on campus.

Study Abroad
UNC-Chapel Hill sponsors several study programs (summer, semester, and yearlong) in China, Egypt, India, Israel, Japan, Jordan, Korea, Mongolia, Morocco, Nepal, Oman, Singapore, Taiwan, Thailand, Turkey, and Vietnam. Asian studies majors are strongly encouraged to take advantage of these opportunities to live and study in an Asian setting, which also satisfy the experiential education requirement. For further information on these programs and other study abroad opportunities in Asia, contact the University's Study Abroad Office.

Undergraduate Research
The department actively encourages undergraduate student research. Through classes, advising, and office hour consultations, faculty guide students toward defining areas of interest, conceptualizing research questions, identifying sources, and writing academic papers. Students may pursue research through independent studies, the senior honors thesis, and study abroad research opportunities such as the Burch Fellowship. Asian studies students have received a variety of competitive research support and travel awards, won regional contests for undergraduate papers, published
papers in academic journals, and presented their work at such events as the Senior Colloquium in Asian Studies and the campuswide Annual Celebration of Undergraduate Research in the spring.

Facilities

Students taking courses in the Department of Asian Studies have support for their work through the Foreign Language Resource Center (FLRC), housed on the ground floor of Dey Hall. The FLRC provides resources and services for language teaching and learning, including audio and video materials; smart classrooms with PCs and projection equipment; listening, viewing, and recording facilities; a walk-in computer lab; and online databases for language learning.

Graduate School and Career Opportunities

As a liberal arts major, the Asian studies major trains undergraduates to read and think analytically and to present their ideas effectively in oral and written communication, essential preparations for a variety of careers and for the responsibilities of living in an interdependent world. Graduates of the program have continued their academic preparation in top-ranked graduate programs across the country while others have built distinguished careers in banking, journalism, international education, and government.

Contact Information

Department of Asian Studies, 113 New West, CB# 3267, (919) 962-4294, asia@unc.edu. Web site: www.unc.edu/depts/asia.

Asian Studies Courses in English

Asian Studies General (ASIA)

051 [006J First-Year Seminar: Cultural Encounters: The Arabs and the West (3). Examines the historical, cultural, literary, and artistic relations between the Arab world and the West (Europe and the United States) from the 18th century until today.

052 [006J First-Year Seminar: Food in Chinese Culture (3). Examines the cultural practice and meanings of food, cooking, eating, and drinking through Chinese literature and cinema. Main themes include food and rituals, gourmandism and poetic taste, cannibalism and the grotesque, and hunger and revolution.


055 [006J First-Year Seminar: Kung-fu: The Concept of Heroism in Chinese Culture (3). Film, history, novels, and theater are used to explore the rich, complex kung-fu tradition in Chinese culture from ancient to modern times, as well as its appropriation in foreign films.

056 [006J First-Year Seminar: Writing Women in Modern China (3). Compares the rhetoric of equality between the sexes presented by late Qing, May Fourth, and communist thinkers to perspectives on gender and society by 20th-century Chinese women writers.

131 [032A Southeast Asia to the Early 19th Century (HIST 131) (3). See HIST 131 for description.


133 [033] Introduction to Chinese History (HIST 133) (3). See HIST 133 for description.


135 [035A South Asian History to 1750 (HIST 135) (3). See HIST 135 for description.

136 [035B South Asian History Since 1750 (HIST 136) (3). See HIST 136 for description.

138 [036] Introduction to Islamic Civilization (HIST 138) (3). See HIST 138 for description.

139 [037] Later Islamic Civilization and the Modern Muslim World (HIST 139) (3). See HIST 139 for description.

147 Lost in Translation: Understanding Western Experience in East and Southeast Asia (3). An examination of the experiences of western travelers in East/Southeast Asia, from both fictional and nonfictional accounts in print and film.

151 [031] Literature and Society in Southeast Asia (CMPL 151) (3). This course is an introduction to the societies of Southeast Asia through literature. Background materials and films will supplement the comparative study of traditional works, novels, short stories, and poems.

152 [032] Survey of South Asian Cultural History (3). Readings from diverse disciplines illuminate the broad features of South Asia throughout history. Topics include political history and social thought – including gender and caste – and religious and imaginative literature.


154 Introduction to Art and Architecture of Islamic Lands (8th-16th c. CE) (ART 154) (3). This course introduces the arts of the Islamic lands from the seventh-century rise of the Umayyad dynasty of Syria to the 16th-century expansion of the Ottoman empire.

155 Anthropology of South Asia (ANTH 155) (3). Introduction to South Asia and the effects of colonialism, nationalism and globalization. Links agency and structural constraints in addressing gender, caste, class, religion, nationalism and the post-colonial state.

161 [070] Survey of Indian Literature in Translation (3). Features the Sanskrit Ramayana and Mahabharata, poetry from Tamil, Bengali, and Hindi, as well as the Islamic ghazal. Concludes with the colonial impact and the rise of the novel.

162 [040] Nation, Film, and Novel in Modern India (3). Focus on how modern Indian writers (Tagore, Manto, Rushdie, Rusva) have represented the creation of an Indian national identity through such historical periods as British colonialism, the Mutiny of 1857, the Indian Independence Movement, and the Partition and ensuing communal violence.
180 Introduction to Islamic Civilization (RELI 180) (3). A broad, comprehensive, and interdisciplinary introduction to the traditional civilization of the Muslim world.

181 Later Islamic Civilization and Modern Muslim Cultures (RELI 181) (3). A broad interdisciplinary survey of the later Islamic empires since the 15th century and their successor societies in the modern Muslim world.


192 [046] Contemporary Middle East (INTS 192, RELI 192) (3). See RELI 192 for description.


241 [041] Asian Literature/Study Abroad Program (3-6). This course, taught in a study abroad program in Asia, will focus on topics related to Asian literature. The Office of Undergraduate Curricula must approve use for General Education.

242 [042] Asian Fine Arts/Study Abroad Program (3-6). This course, taught in a study abroad program in Asia, will focus on topics related to Asian fine arts. The Office of Undergraduate Curricula must approve use for General Education.

243 [043] Asian Societies/Study Abroad Program (3-6). This course, taught in a study abroad program in Asia, will examine Asian society from a social science perspective. The Office of Undergraduate Curricula must approve use for General Education.

244 [044] Asian History/Study Abroad Program (3-6). This course, taught in a study abroad program in Asia, will focus on topics related to Asian history. The Office of Undergraduate Curricula must approve use for General Education.


252 [062] Popular Culture in Modern Southeast Asia (CMPL 252, INTS 252) (3). This course examines popular culture in Southeast Asia as a response to colonialism, nationalism, modernization, the state, and globalization. Topics include: theater, film, pop songs, television, rituals, and the Internet.

253 [073] Islam, Identity, and the Arts (3). Examines the attitudes liberal, fundamentalist, and mystical Muslims have toward music, visual arts, and poetry. How Islamic cultures have both promoted and censored the arts, and the motivations behind such attitudes. Also examines Western stereotypes about Islamic arts.

261 [061] India Through Western Eyes (3). Examines Western views of India and Indian culture and how these views differ from the way Indians in India and Indian immigrants in the West understand themselves and express their relationship to India through novels and travelogues.


266 [068] Arts of Early and Medieval India (ART 266) (3). See ART 266 for description.


273 [067] Arts under the Mughal Dynasty in India (ART 273) (3). See ART 273 for description.

275 [045] History of Iraq (HIST 275, PWAD 275) (3). See HIST 275 for description.


277 The Conflict over Israel/Palestine (HIST 277, PWAD 277) (3). Explores the conflict over Palestine during the last 100 years. Surveys the development of competing nationalism, the contest for resources and political control that led to the partition of the region, the war that established a Jewish state, and the subsequent struggles between conflicting groups for land and independence.


283 [086] Revolutionary Change in Contemporary China (HIST 283) (3). See HIST 283 for description.


286 [083] Samurai, Peasant, Merchant, and Outcaste: Japan under the Tokugawa, 1550-1850 (HIST 286) (3). Japanese society in the last great age of samurai rule. From small villages to the largest cities of the pre-industrial world, students explore the realities of life in 'traditional' Japan.


350 [089] The Asian American Experience (3). The course addresses the history and sociology of Asian immigration and experience in the United States, as well as the formation of diasporic identities among Asian Americans.

360 [075] Introduction to Contemporary Asian American Literature and Theory (ENGL 360) (3). See ENGL 360 for description.

379 [079] Cowboys, Samurai, and Rebels in Film and Fiction (CMPL 379) (3). See CMPL 379 for description.


390 [090] Seminar in Asian Studies (3). When offered, the topic will vary with the instructor. The class will be limited to a seminar size, and students must receive permission from the instructor to register.

396 [091] Independent Readings (3). For the student who wishes to create and pursue a project in Asian studies under the supervision of a selected instructor. Prior permission required. Course is limited to three credit hours per semester.


447 [147] Gender, Space, and Place in the Middle East (GEOG 447, INTS 447) (3). See GEOG 447 for description.

451 [140] Orientalist Fantasies and Discourses on the Other (INTS 451) (3). This interdisciplinary course (literature, film, painting, music) examines the Eastern and Western encounters with and discourses on the Other from the 18th century to the present.

452 Imagining Palestine (3). Explores how Palestine is portrayed in writings, films, and other creative works and how Palestinian portrayals of homeland affect others' perceptions of the Palestinian-Israeli conflict and the Arab world.


454 [144] Topics in Critical Theory East/West (3). Two major thinkers, one from East Asia and one from Western Europe, will be used to develop theoretical vocabularies that transcend the Eurocentric ones currently dominating philosophy and literary and cultural theory.

455 [142] Arabs in America (INTS 455) (3). Traces the history and development of Arab American communities in the United States from the slave trade to the most important immigration waves over the past two centuries.


457 Globalization in East Asia/East Asianized Globalization (INTS 457) (3). Prerequisites, INTS 210 for international studies majors, and one content course in either Japanese or Chinese for Asian studies majors. Through a focus on East Asia, this course will treat globalization as a truly global phenomenon and not one centered in the United States or even EuroAmerica. Here, the emphasis will be on the often overlooked impact of Japanese and Chinese pop culture, film, technology, and finance on the different fields of globalization.

460 Sex, Crime and Corruption in East and Southeast Asia (3). A political economy and comparative approach to crime and corruption in Asia, seeking to understand linkages and relationships between corruption and development in changing political, social, and economic contexts.

461 The Political Economy of Southeast Asia (3). The course examines critical linkages between economic policy and processes and political decisions — neoclassical, institutionalist,.dependency/world-systems and structuralist approaches. These theories are applied to contemporary Southeast Asia.


486 [186] Literary Landscapes in Europe and Japan (CMPL 486) (3). See CMPL 486 for description.

490 [199] Advanced Topics in Asian Studies (1-4). The course topic will vary with the instructor.

536 [194] Revolution in the Modern Middle East (HIST 536) (3). See HIST 536 for description.

537 [195] Women in the Middle East (HIST 537, WMST 537) (3). See HIST 537 for description.

538 [197] The Middle East and the West (HIST 538) (3). See HIST 538 for description.

539 [193] The Economic History of Southeast Asia (HIST 539) (3). See HIST 539 for description.

545 [145] The Politics of Culture in East Asia (ANTH 545) (3). See ANTH 545 for description.

570 [153] The Vietnam War (HIST 570, PWAD 570) (3). See HIST 570 for description.


578 [178] Chinese Diaspora in the Asia Pacific (ANTH 578) (3). See ANTH 578 for description.


582 [172] Islam and Islamic Art in South Asia (RELI 582) (3). See RELI 582 for description.

583 [173] Religion and Culture in Iran, 1500-Present (RELI 583) (3). See RELI 583 for description.


681 [179] Readings in Islamicate Literatures (ARAB 681, RELI 681) (3). See ARAB 681 for description.


691H [097] Senior Honors Essay (3). Required for honors students in Asian studies.

692H [098] Senior Honors Essay (3). Required for honors students in Asian studies.

Arab World (ARAB)

150 [033] Introduction to Arab Culture (3). Introduction to the culture of the Arab world and of the Arabs in diasporas: art, literature, film, music, dance, food, history, religion, folklore, etc.

151 [034] Survey of Arabic Literature (3). Introduces the rich literary heritage of the Arabic language from pre-Islamic to modern times and covers all major genres. Emphasis on critical thinking, literary analysis, and academic writing.

433 [133] Medieval Arabic Literature in Translation (3). Introduction to the main literary themes and genres from the pre-Islamic era to the early 16th century; course will include discussion of Andalusian literature.

434 [134] Modern Arabic Literature in Translation (3). Course treats a variety of themes and genres of Arabic literature from the mid-20th century to the present.

452 [152] Imagining Palestine (3). Explores how Palestine is portrayed in writings, films, and other creative works and how
Palestinian portrayals of homeland affect others' perceptions of the Palestinian-Israeli conflict and the Arab World.

453 Film, Nation, and Identity in the Arab World (3). Introduction to history of Arab cinema from 1920s to present. Covers film industries in various regions of the Arab world and transnational Arab film. All materials and discussion in English.

China (CHIN)

150 [050] Introduction to Chinese Civilization (3). A course designed to introduce students to the Chinese world of past and present. Chinese civilization is explored from a variety of perspectives: political, social, cultural, intellectual, and economic.

252 [051] Introduction to Chinese Culture through Narrative (3). This course shows how Chinese historical legends define and transmit the values, concepts, figures of speech, and modes of behavior that constitute Chinese culture.

354 [052] Chinese Culture through Calligraphy (3). An introduction to the basic skills of brush writing and the cultural, historical, and artistic aspects of Chinese calligraphy. Open to anyone; knowledge of Chinese language is not required.

361 [053] Chinese Traditional Theater (3). This course introduces traditional Chinese theater from its earliest development to modern times by examining the interrelation of its elements - music, dance, poetry, and illustration - with performance footage, visual art, and dramatic texts.


463 [135] Narrative Ethics in Modern China (3). By exploring intersections of the narrative and the normative, this course considers relations between text, ethics, and everyday life in 20th century China by reading texts on aesthetics.

464 [136] The City in Modern Chinese Literature and Film (3). This course analyzes historical changes of the city through examining the individual, national, and global identity of Shanghai, Beijing, Taipei, and Hong Kong as reflected in their histories, politics, built environment, ethos, language, and culture.

544 [148] Chinese Cinema (3). This course surveys Chinese film from the mainland, Taiwan, and Hong Kong, examining films and criticism in social and historical contexts. Major topics will include nationalism, tradition, gender, and ethnicity.

551 [144] Chinese Poetry in Translation (3). Selected topics in Chinese poetry concentrating on one period or one genre.

552 [145] Topics in Chinese Prose (3). Selected topics in Chinese historical writing, and prose belles lettres, concentrating on one period or one genre.

562 [137] Post-Mao Chinese Urban Culture and Arts (3). This course examines contemporary art, architecture, film, fiction, and city planning documents to consider the impact of three decades of market-based, postrevolutionary urban transformation on a traditionally rural-based, agricultural civilization.


India/Pakistan (HNUR)

592 [134] Religious Conflict and Narrative in India (RELI 592) (3). Historical causes of violence between Hindus and Muslims in modern India. Short stories, poetry, and novels in translation are used to explore how conflicts over religious sites, religious conversion, image worship, and language contributed to a sense of conflicting religious identity.

Japan (JAPN)

160 [133] Introduction to Japanese Literature in Translation (3). The major genres, aesthetic concepts, and classic and modern works of Japanese literature in English translation.

161 Geisha in History, Fiction, and Fantasy (3). Explores the artistic traditions of Japanese performers known as geisha. Sources include woodblock prints, novels, photographs, academic studies, and popular Japanese and American films.


375 [075] The Culture of Modern, Imperial Japan, 1900-1945 (3). This course will examine the various expressions of cultural modernity in Japan with a focus on film, literature, and popular culture from 1900 to the end of the Pacific War.

376 [076] Colonial East Asia/Postcolonial Japan (INTS 376) (3). Focusing on literary, philosophical, and media works, this course will first examine Japanese colonialism from 1895 to 1940 and then the postcolonial effects of that colonialism within Japan after 1945.

377 [077] Cultural Studies of Early Modern Japan (3). Introduction to political, aesthetic, and intellectual works of Japan's Tokugawa period (1603-1868). Examines the characteristics of Tokugawa cultural works alongside developments in critical thought in ethics, economics, and social philosophy.

378 [078] Introduction to Japanese Film and Animation (3). Students will be introduced to major works in Japanese film and animation. They will also be introduced to themes in contemporary visual theory and media studies.

381 [081] Women and Work in Japan (WMST 381) (3). Examines construction of traditional women's roles in Japan and feminist challenges to them by exploring various aspects of "women's work." Interdisciplinary readings consider law, social custom, media representations, and feminist activism.


Vietnam (VIET)

252 [051] Introduction to Vietnamese Culture through Music and Narrative (3). This course shows how Vietnamese
music and historical legends define, reinforce, and transmit core values, concepts, figures of speech, and modes of behavior in Vietnamese culture.

Asian Studies Language Courses

Arabic (ARAB)

101 [001] Elementary Arabic I (4). Introduction to [GB: modern standard Arabic, including the Arabic script, basic grammar and vocabulary, and developing skills in reading, writing, listening and speaking.

102 [002] Elementary Arabic II (4). Prerequisite, ARAB 101 or permission of instructor. Introduction to modern standard Arabic, including the Arabic script, basic grammar and vocabulary, and developing skills in reading, writing, listening, and speaking.

203 [003] Intermediate Arabic I (4). Prerequisite, ARAB 102 or permission of instructor. A proficiency-based course centered on reading, writing, speaking, and listening to modern standard Arabic with an emphasis on understanding the application of grammatical structures and vocabulary development.

204 [004] Intermediate Arabic II (4). Prerequisite, ARAB 203 or permission of instructor. A proficiency-based course centered on reading, writing, speaking, and listening to modern standard Arabic with an emphasis on understanding the application of grammatical structures and vocabulary development.

223 [005] Conversational Arabic (3). Prerequisite, ARAB 203 or permission of instructor. Conversational course introducing one of the major dialects of Arabic, Egyptian and Levantine dialects each offered in alternate years. Emphasis on building oral proficiency while increasing awareness of Arab culture.

305 [006] Advanced Arabic I (3). Prerequisite, ARAB 204 or permission of instructor. Intensive reading of a variety of texts: films, oral presentations, and writing; extensive vocabulary development.

306 [007] Advanced Arabic II (3). Prerequisite, ARAB 305 or permission of instructor. Intensive reading of a variety of texts: films, oral presentations, and writing; extensive vocabulary development.

308 Arabic Languages Across the Curriculum Recitation (1). Prerequisite, ARAB 204 or permission of supervising faculty member. Arabic recitation offered in conjunction with selected content courses. Weekly discussion and readings in Arabic relating to attached content courses.

407 [011] Readings in Arabic I (3). Prerequisite, ARAB 306 or permission of instructor. Classical and/or modern readings in Arabic, according to the students’ interest.

408 [012] Readings in Arabic II (3). Prerequisite, ARAB 306 or permission of instructor. Classical and/or modern readings in Arabic, according to the students’ interest.

406 Independent Readings in Arabic (1-3). Prerequisite, departmental permission. For the student who wishes to create and pursue an independent project in Arabic under the supervision of a selected instructor. Maximum three credit hours per semester.

681 [179] Readings in Islamicate Literatures (ASIA 681, RELI 681) (3). See RELI 681 (only when offered in Arabic) for description.

Chinese (CHIN)

101 [001] Elementary Chinese I (4). Introduction to Mandarin Chinese, focusing on pronunciation, simple conversation, and basic grammar. Reading and writing Chinese characters are also taught. Five hours per week, three for lectures and two for oral practice.

102 [002] Elementary Chinese II (4). Prerequisite, CHIN 101 or permission of instructor. Continued training in listening, speaking, reading, and writing on everyday topics. Five hours per week, three for lectures and two for oral practice.

111 [001] Elementary Written Chinese (3). Designed for students who already understand and speak some Chinese. The training in the course centers on reading and writing. This course is taught in Chinese. CHIN 111 is equivalent to CHIN 101 and 102. CHIN 111 does not count toward the Chinese minor. Three hours per week.

203 [003] Intermediate Chinese I (4). Prerequisite, CHIN 102 or permission of instructor. Second-year level of modern standard Chinese. Five hours per week, three for lectures and two for oral practice.

204 [004] Intermediate Chinese II (4). Prerequisite, CHIN 203 or permission of instructor. Second-year level of modern standard Chinese. Five hours per week, three for lectures and two for oral practice.

212 [002] Intermediate Written Chinese (3). Prerequisite, CHIN 111 or permission of instructor. Designed for students who already understand and speak some Chinese. The training in the course centers on reading and writing. This course is taught in Chinese. CHIN 212 is equivalent to CHIN 203 and 204. Three hours per week.

305 [100] Advanced Spoken Chinese (3). Prerequisite, CHIN 204 or CHIN 212 or permission of instructor. This course emphasizes the development of conversational skills with readings on everyday topics and vocabulary buildup. Three hours per week.

306 [111] Advanced Chinese Conversation and Composition (3). Prerequisite, CHIN 313 or CHIN 305 or permission of instructor. This course provides training in advanced conversation and composition with readings that cover a wide range of topics on Chinese society, economics, history, politics, etc. Three hours per week.

313 [003] Advanced Written Chinese (3). Prerequisite, CHIN 212 or CHIN 204 or permission of instructor. This is the third course in modern written Chinese for heritage students. The material covered is comparable to the material dealt with in the third year of the regular Chinese language sequence. Three hours per week.

407 [112] Readings in Modern Chinese I (3). Prerequisite, CHIN 306 or permission of instructor. Readings selected from high quality authentic texts of modern Chinese, including newspaper articles and published writings of literary, cultural, and social interest relating to modern Chinese society. This course is taught in Chinese, with further training in speech and writing.

408 [113] Readings in Modern Chinese II (3). Prerequisite, CHIN 407 or permission of instructor. Readings selected from high quality authentic texts of modern Chinese, including newspaper articles and published writings of literary, cultural, and social interest relating to modern Chinese society. This course is taught in Chinese, with further training in speech and writing.
414 Advanced Reading and Composition (3). Prerequisite, CHIN 313 or permission of instructor. Fourth course for heritage students, comparable to fourth year of the regular sequence. Focuses on reading and writing skills in modern Chinese, using authentic reading materials. Three hours per week.

462 Studies in Chinese Language (3). Prerequisite, CHIN 408 or CHIN 414 or permission of instructor. Overview of the Chinese language - sociolinguistic aspects, history, standard vs. dialects, spoken vs. written language, language reform, and Chinese language acquisition. Taught partially in Chinese.

490 Topics in Chinese Literature and Language (3). Prerequisite, CHIN 408 or CHIN 414 or permission of instructor. Readings in Chinese literature and language on varying topics. May be taken more than once for credit as topics change.

496 Independent Readings in Chinese (1-3). Prerequisite, departmental permission. For the student who wishes to create and pursue an independent project in Chinese under the supervision of a selected instructor. Maximum three credit hours per semester.

510 Introduction to Classical Chinese (3). Prerequisite, CHIN 408 or permission of instructor. Advanced study of the Chinese classics.

590 Advanced Topics in Chinese Literature and Language (3). This is an advanced topics course in Chinese literature and language, culture and society. The instruction is entirely in Chinese with the use of authentic materials. Three hours per week.

Hebrew (HEBR)

101 [001] Elementary Modern Hebrew I (JWST 101) (3). Introduces the essential elements of modern Hebrew structure and vocabulary and aspects of modern Israeli culture. Aural comprehension, reading, speaking, and writing are stressed.

102 [002] Elementary Modern Hebrew II (JWST 102) (3). Prerequisite, HEBR 101 or permission of instructor. Continued instruction in the essential elements of modern Hebrew structure and vocabulary and aspects of modern Israeli culture. Aural comprehension, reading, speaking, and writing are stressed. An introduction to representative literary works is included.

203 [003] Intermediate Modern Hebrew I (3). Prerequisite, HEBR 102 or permission of instructor. Second-year level instruction in the essential elements of modern Hebrew structure and vocabulary and aspects of modern Israeli culture. Aural comprehension, reading, speaking, and writing are stressed. An introduction to representative literary works is included.

204 [004] Intermediate Modern Hebrew II (3). Prerequisite, HEBR 203 or permission of instructor. Continued instruction in the essential elements of modern Hebrew structure and vocabulary and aspects of modern Israeli culture. Aural comprehension, reading, speaking, and writing are stressed. An introduction to representative literary works is included.

305 Advanced Hebrew I (JWST 305) (3). Prerequisite, HEBR 204 or permission of instructor. Third year of instruction in spoken and written Hebrew with an emphasis on the reading and discussion of literary works by major Israeli authors.

306 Advanced Hebrew II (JWST 306) (3). Prerequisite, HEBR 305 or permission of instructor. Third year of instruction in spoken and written Hebrew with an emphasis on the reading and discussion of literary works by major Israeli authors.

Hindi-Urdu (HNUR)

101 [101] Elementary Hindi-Urdu I (4). Introduction to modern spoken and written Hindi-Urdu. Speaking and listening practice, basic sentence pattern exercises, grammar fundamentals, the writing system, and creative applications exploring South Asian culture are included. Five hours per week, three devoted to instruction in grammar and two to oral practice.

102 [102] Elementary Hindi-Urdu II (4). Prerequisite, HNUR 101 or permission of instructor. Continued instruction in modern spoken and written Hindi-Urdu. Sessions include speaking and listening drills, skits, role-play, and discussion of video and audio materials. Five hours per week, three devoted to instruction in grammar and two to oral practice.

203 [103] Intermediate Hindi-Urdu I (4). Prerequisite, HNUR 102 or permission of instructor. Second year of instruction in modern spoken and written Hindi-Urdu, including situational speaking and listening practice, complex sentence pattern exercises and idioms, vocabulary building, intermediate grammar topics, and reading exercises. The Urdu writing system is introduced.

204 [104] Intermediate Hindi-Urdu II (4). Prerequisite, HNUR 203 or permission of instructor. Continued second year of instruction in modern spoken and written Hindi-Urdu. Students practice writing short essays and letters and continue to develop mature oral competency in Hindi-Urdu.

221 The Urdu Script (1). This course introduces the Urdu alphabet (Nastaliq). Prior knowledge of spoken Urdu or Hindi is helpful but not required.

305 [105] Advanced Hindi-Urdu I (3). Prerequisite, HNUR 204 or permission of instructor. Third year of instruction in spoken and written Hindi-Urdu with an emphasis on the reading and discussion of literary works by major South Asian authors.

306 [106] Advanced Hindi-Urdu II (3). Prerequisite, HNUR 305 or permission of instructor. Third year of instruction in spoken and written Hindi-Urdu with an emphasis on the reading and discussion of literary works by major South Asian authors.

407 [107] Readings in Hindi-Urdu Poetry (3). Prerequisite, HNUR 306 or permission of instructor. Introduces the development of Hindi and Urdu poetry from the 15th century to the present, including the epic, devotional, dramatic, and romantic genres.

408 [108] Readings in Hindi-Urdu Prose (3). Prerequisite, HNUR 306 or permission of instructor. Introduces the range of Hindi-Urdu prose genres: the short story, the romance, the novel, and the autobiography.

490 [115] Topics in Hindi-Urdu Literature and Language (3). Directed readings in Hindi-Urdu literature and language on topics not covered by scheduled classes. Possible areas of study include Indian film and literature, Hindi-English translations, the Indian diaspora, Hindi journalism, and readings in comparative religions.

496 Independent Readings in Hindi-Urdu (1-3). Prerequisite, departmental permission. For the student who wishes to create and pursue an independent project in Hindi-Urdu under the supervision of a selected instructor. Maximum three credit hours per semester.
Japanese (JAPN)

101 [101] Elementary Japanese I (4). Introduction to modern Japanese with text and supplementary materials. Hiragana, katakana, and basic kanji are introduced. Weekly class hours devoted to basic sentence pattern exercises, speaking and writing practice, and creative application. Participation in relevant extracurricular activities encouraged.

102 [102] Elementary Japanese II (4). Prerequisite, JAPN 101 or permission of instructor. Continued beginning course of modern Japanese with text and supplementary materials. Approximately 150 additional kanji are introduced. Focus on basic sentence pattern exercises, speaking and writing practice, and creative application. Participation in relevant extracurricular activities encouraged.

203 [103] Intermediate Japanese I (4). Prerequisite, JAPN 102 or permission of instructor. Emphasis on situational expressions, mastery of basic structures, and approximately 150 new kanji. Conversation practice, reading and writing of passages, and creative application expected. Participation in relevant extracurricular activities encouraged.

204 [104] Intermediate Japanese II (4). Prerequisite, JAPN 203 or permission of instructor. Continued emphasis on situational expressions, mastery of basic structures, and approximately 150 to 200 new kanji. Conversation practice, reading and writing of passages, and creative application expected. Participation in relevant extracurricular activities encouraged.

305 [105] Advanced Japanese (3). Prerequisite, JAPN 204 or permission of instructor. Advanced written and spoken Japanese introduced to students who have learned more than 500 kanji. Emphasis is placed on advanced expressions, conversation for a variety of situations, reading and writing longer texts, and approximately 150 additional kanji. Class conducted in Japanese. Participation in relevant extracurricular activities encouraged.

306 [106] Topics in Japanese Society and Culture (3). Prerequisite, JAPN 305 or permission of instructor. A study of geography, history, social structures, customs, and traditions of Japan through written and spoken materials. Advanced expressions, vocabulary, and approximately 150 additional kanji are learned. Class conducted in Japanese. Participation in relevant extracurricular activities encouraged.

408 [116] Japanese Journalism (3). Prerequisite, JAPN 306 or permission of instructor. Uses newspaper and magazine articles and television broadcasts to introduce journalistic writing and speech as well as contemporary social and cultural issues. Class conducted in Japanese. Participation in relevant extracurricular activities encouraged.

409 [117] Japanese Modernism (3). Prerequisite, JAPN 306 or permission of instructor. This course instructs students in how to read prewar forms of modern Japanese and introduces them to the writers and ideas of the Modern influential between the years 1907 and 1930. Class conducted in Japanese. Participation in relevant extracurricular activities encouraged.

410 [118] Topics in Contemporary Japanese Literature (3). Prerequisite, JAPN 306 or permission of instructor. This course introduces students to the popular writing, both fiction and nonfiction, designed for mass-market consumption in contemporary Japan. Class conducted in Japanese. Participation in relevant extracurricular activities encouraged.

490 [115] Topics in Japanese Language and Literature (3). Prerequisite, JAPN 306 or permission of instructor. Possible areas of study include popular culture, business Japanese, and Japanese-English translation. Course may be repeated for credit as topic changes. Participation in relevant extracurricular activities encouraged.

496 Independent Readings in Japanese (1-3). Prerequisite, departmental permission. For the student who wishes to create and pursue an independent project in Japanese under the supervision of a selected instructor. Maximum three credit hours per semester.

517 [107] Literary Japanese (3). Prerequisite, JAPN 306 or permission of instructor. Designed to further improve reading skills. Students work independently using newspaper and magazine articles, literary works, academic publications, etc. Oral reports, discussions, and original compositions in Japanese required. Participation in relevant extracurricular activities encouraged.

518 [108] Literary Japanese (3). Prerequisite, JAPN 517 or permission of instructor. Designed to further improve reading and speaking skills. Students work independently using newspaper and magazine articles, literary works, academic publications, etc. Oral reports, discussions, and original compositions in Japanese required. Participation in relevant extracurricular activities encouraged.


590 [120] Advanced Topics in Japanese Language and Literature (3). Prerequisite, JAPN 306 or permission of instructor. Topic varies by instructor. Possible topics include Japanese literature, popular culture, and media. Course may be repeated for credit as topic changes. Participation in relevant extracurricular activities encouraged.

Korean (KOR)

101 Elementary Korean I (4). Introduction to the basics of modern Korean, including the pronunciation of spoken Korean, the writing system of Hangul, communication and reading skills in controlled contexts, and fundamentals of grammar.

102 Elementary Korean II (4). Prerequisite, KOR 101 or permission of instructor. Develops speaking and listening skills for everyday communication, reading skills for simple narratives and descriptive texts, and understanding for core grammatical patterns.

203 Intermediate Korean I (4). Prerequisite, KOR 102 or permission of instructor. Continues on developing reading and writing skills for narrative and descriptive texts and on increasing communicative competence in applied social contexts.

204 Intermediate Korean II (4). Prerequisite, KOR 204 or permission of instructor. Develops and applies comprehensive grammatical knowledge and vocabularies in complex listening, speaking, reading, and writing contexts. Emphasis on Korean cultural and historical understanding.

Persian (PERS)

101 [001] Elementary Persian I (3). Introduction to the spoken and written Persian (Farsi) language.
102 [002] Elementary Persian II (3). Prerequisite, PRSN 101 or permission of instructor. Introduction to the spoken and written Persian (Farsi) language.

203 [003] Intermediate Persian I (3). Prerequisite, PRSN 102 or permission of instructor. Second-year level instruction in the spoken and written Persian (Farsi) language.

204 [004] Intermediate Persian II (3). Prerequisite, PSRN 203 or permission of instructor. Second-year level instruction in the spoken and written Persian (Farsi) language.

Department of Biochemistry and Biophysics
www.med.unc.edu/wrkunits/2depts/biochem

DAVID C. LEE, Chair

The Department of Biochemistry and Biophysics offers a number of courses to undergraduate students though it has no program leading to a B.A. or B.S. degree. The department serves undergraduate students who are interested in biochemistry, particularly students seeking a health-related career. It offers courses, research opportunities and counseling to students taking premedical, pre-dental, nursing, pharmacy or public health curricula. Students majoring in other scientific disciplines such as chemistry, biology or physics also are served by the Department of Biochemistry and Biophysics.

BIOC

107 Introduction to Biochemistry (4). Designed to meet the needs of prenursing students and predental hygiene students, students in the allied health sciences and other students who desire a background in biochemistry as it relates to the human body. Brief review of inorganic and organic chemistry, followed by a survey of biochemistry (survey continues in BIOC 008). Concurrent registration in BIOC 007L required. One year of high school chemistry is strongly recommended. Three lecture hours and one two-hour laboratory a week.

108 Introduction to Biochemistry (4). Designed to meet the needs of prenursing students and predental hygiene students, students in the allied health sciences and other students who desire a background in biochemistry as it relates to the human body. Continuation of BIOC 007; covers basic and clinically relevant aspects of biochemistry. Three lecture hours and one two-hour laboratory a week.

402 [102] Undergraduate Research in Biochemistry (1-21). Prerequisites, an overall 3.0 GPA and permission of course director. For juniors and seniors who wish to carry out an independent, mutually arranged research project in the laboratory of a biochemistry faculty sponsor. Restricted to on-campus work. Minimum three hours per week for each unit of credit per semester. May be repeated. May not substitute for honors, advanced elective or other course requirements of another department. A written report is required in each term.

442 [142] Biochemical Toxicology (ENVR 442, TOXC 442) (3). Prerequisites, CHEM 430 or equivalent, and one additional biochemistry course (permission of course director). This course is designed for graduate and advanced undergraduate students in environmental sciences and engineering, toxicology and related disciplines. This course will consist of lectures, in-class discussions and periodic examinations. The overall emphasis will be on biochemical and molecular actions of toxicants and assessment of cellular and molecular effects. 505 [105] Molecular Biology (GNET 505) (3). Prerequisites, undergraduate biochemistry or genetics, and organic chemistry. Techniques in molecular biology, mechanisms of DNA replication, transcription, and translation of genetic material in prokaryotic and eukaryotic systems; genomics, gene organization, regulatory and signaling mechanisms; and molecular biology of cancer.

601 [104] Enzyme Properties, Mechanisms and Regulation (3). Prerequisite, CHEM 430 or equivalent. Focuses on enzyme architecture to illustrate how the shapes of enzymes are designed to optimize the catalytic step and become allosterically modified to regulate the rate of catalysis.

631 [110] Advanced Molecular Biology I (BIOL 631, GNET 631, MCRO 631, PHCO 631) (3). Prerequisites, at least one undergraduate course in both biochemistry and genetics and permission of the instructor. DNA structure, function and interactions in prokaryotic and eukaryotic systems, including chromosome structure, replication, recombination, repair and genome fluidity.

632 [111] Advanced Molecular Biology II (BIOL 632, GNET 632, MCRO 632, PHCO 632) (3). Prerequisites, at least one undergraduate course in both biochemistry and genetics and permission of the instructor. RNA structure, function and processing in biological systems including transcription, gene regulation, translation, and protein and RNA transport.

643 [117] Cell Structure, Function and Growth Control I (CBIO 643, MCRO 643, PHCO 643) (1-21). Prerequisite, undergraduate cell biology or biochemistry or permission of instructor. Comprehensive introduction to cell structure, function and transformation.

644 [118] Cell Structure, Function and Growth Control II (CBIO 644, MCRO 644, PHCO 644) (1-21). Prerequisite, undergraduate cell biology or biochemistry or permission of instructor. Comprehensive introduction to cell structure, function and transformation.

650 Basic Principles: From Basic Models to Collections of Macromolecules (1). Prerequisites, CHEM 430 and two semesters of physical chemistry or permission of instructor. Basic molecular models and their use in developing statistical descriptions of macromolecular function. Course intended primarily for graduate students.

650R Macromolecules Principles Recitation (1). Corequisite, CBIO 650. Recitation and discussion session for participants of CBIO 650.

651 Macromolecular Equilibria: Conformation Change and Binding (1). Prerequisites, CHEM 430 and two semesters of physical chemistry or permission of instructor. Macromolecules as viewed with modern computational methods. Course intended primarily for graduate students.

652 [146] Macromolecular Equilibria (1). Prerequisites, CHEM 430 and two semesters of physical chemistry or permission of the instructor. Stability of macromolecules and their complexes with other molecules. Course intended primarily for graduate students.
653 [147] Macromolecular Spectroscopy (1). Prerequisites, CHEM 430 and two semesters of physical chemistry or permission of the instructor. Principles of UV, IR, Raman, fluorescence and spin resonance spectroscopies; applications to the study of macromolecules and membranes. Course intended primarily for graduate students.

655 [134] Case Studies in Structural Molecular Biology (3). Prerequisite, CHEM 430 or equivalent. Principles of macromolecular structure and function with emphasis on proteins, molecular assemblies, enzyme mechanisms and ATP enzymology.

660 [150A] Introduction to Light Microscopy (1). Prerequisites, BIOC 650, 651, 652 and 653 or permission of course director. Fundamentals of optics and light microscope design for the novice student.

661 [150B] Advanced Topics in Imaging (2). Prerequisites, BIOC 650, 651, 652 and 653 or permission of course director. Optical imaging including fluorescence and confocal techniques. Scanning and transmission electron microscopy and image interpretation. Mechanical imaging and scanning probe microscopy.

662 [151] Macromolecular Interactions (1). Prerequisites, BIOC 650-653 or permission of instructor. Theory and practice of biophysical methods used in the study of interactions between macromolecules and their ligands, including surface plasmon resonance, analytical ultracentrifugation and calorimetry.

663A [152] Macromolecular NMR (1). Prerequisites, BIOC 650-653 or permission of instructor. Principles and practice of nuclear magnetic resonance spectroscopy: applications to biological macromolecule structure and dynamics in solution. Course intended primarily for graduate students.

663B [152L] Macromolecular NMR Practice (1). Prerequisite, BIOC 653 or permission of course director. Lab section for BIOC 663A. Course intended primarily for graduate students.

666 [153] X Ray Crystallography of Macromolecules (1). Prerequisites, BIOC 650-653 or permission of instructor. Principles of protein crystallography; characterization of crystals; theory of diffraction; phasing of macromolecular crystals and structure refinement. Course intended primarily for graduate students.

667 [157] Macromolecular Crystallographic Methods (2). Prerequisite, BIOC 666 or permission of course director. A combined lecture/laboratory workshop for serious students of protein crystallography. Course intended primarily for graduate students.

668 [154] Principles of and Simulation of Macromolecular Dynamics (1). Prerequisites, BIOC 650-653 or permission of instructor. A combined lecture/computer lab course treating the principles of macromolecular dynamics and structure as approached using the tools of molecular dynamics simulations. Course intended primarily for graduate students.

670 [156] Biomolecular Informatics (1). Prerequisites, BIOC 650-653 or permission of instructor. A combined lecture/computer lab course introducing the methods and principles of biological data management as this relates to macromolecular sequence analysis. Course intended primarily for graduate students.

673 [158] Proteomics, Protein Identification and Characterization by Mass Spectrometry (1). Prerequisites, BIOC 650-653 or one semester of physical chemistry or permission of instructor. A lecture module that introduces students to the basics of mass spectrometry as applied to protein science. Course intended primarily for graduate students.

678 [155] Electrical Signals from Macromolecular Assemblages (2). Prerequisites, BIOC 650-653 or permission of instructor. An intensive, six hour per week introduction to the fundamentals of ion channel biophysics, including laboratory sessions to demonstrate principles and methods. Course intended primarily for graduate students.


Department of Biology
www.bio.unc.edu

STEVEN W. MATSON, Chair

Professors

Associate Professors

Assistant Professors

Senior Lecturers
Jean S. DeSaix.

Lecturers
Kenneth H. Bynum, Kelly A. Hogan, Catherine Lohmann.

Associated Faculty
John Bruno, Frank L. Conlon, Stephen T. Crews, Sarah R. Grant, Christopher S. Willett, Elaine Y. Yeh.

Professors Emeriti

Introduction
Biological study is of life from both basic and applied perspectives across a broad range of analytical levels, from the molecule and cell to the organism and ecosystem. The bachelor of science and bachelor of arts degrees in biology provide a liberal education directed toward an appreciation of the complexity of nature and prepare students for careers in the biological, environmental and medical sciences. The B.S. and B.A. in biology train students for careers in the health professions (including medical, dental and veterinary) and in research, teaching or medical practice in institutions of higher education, government and private industry. Professional
(M.D., D.V.M., D.D.S. and D.D.M.) and advanced academic (M.A., M.S., Ph.D.) degree programs in the health and life sciences usually require knowledge of biological processes provided by the degree programs in biology.

Departmental majors gain a firm foundation in essential areas of biology through the core curriculum and have ample opportunity to specialize in animal behavior, botany, cell biology, developmental biology, ecology, evolution, genetics, genomics, marine biology, microbiology, molecular biology, physiology and plant biology. There are many opportunities for mentored undergraduate research and internships.

Programs of Study

The degrees offered are bachelor of arts in biology and bachelor of science in biology. A minor in biology also is offered.

Majoring in Biology: Bachelor of Science

This program is designed for students who intend to continue graduate study in biological or health sciences. Students must fulfill all General Education requirements with these restrictions and additions:

- Foundations: Foreign language: through level 4 (or level 4 may be taken PS/D/F).
- Foundations: Quantitative Reasoning: MATH 231, plus one of the following: MATH 232, COMP 110, COMP 116, STOR 155, or STOR 215.
- Approaches: Natural Sciences: CHEM 101-101L and BIOL 101-101L, with a C grade or higher.
- In addition, students must complete the following:
  - PHYS 104 and 105 or 116 and 117
  - CHEM 102-102L, 241-241L, 251, 262-262L
  - BIOL 201, 202 and 205 (the core courses) and one organismal structure and diversity course chosen from 271, 272, 273, 274, 275-275L, 276-276L, 277-277L, 278-278L, 279-279L, 378, 471, 472, 475, 476-476L, 478, or 579.
  - Four biology electives beyond 201 (not including 213, 291, 292, 293, 295, 296, 396 and 692H), at least two of them with laboratory. At least two courses in biology must be numbered above 400 (not including 501, 691H, 692H).
  - Two additional courses in biology, other natural sciences or mathematics.
  - Students must also fulfill the Foundations, Approaches and Connections requirements and take enough free electives to accumulate 123 academic hours.

Suggested program of study for B.S. majors:

First year:
BIOL 101-101L; ENGL 101, 102; language levels 2, 3; CHEM 101-101L, 102-102L; MATH 231 plus second course in mathematics, computer science, or statistics/operations research; Lifetime Fitness.

Sophomore year:
Two of the three biology core courses (201, 202, 205); language level 4; CHEM 261, 241-241L, 262-262L; Approaches (one course)

Junior year:
Remaining biology core course, organismal biology course, biology electives (three courses); PHYS 104 and 105 or 116 and 117; Approaches and Connections (three courses)

Senior year:
Biology electives (two courses); natural science or biology electives (two courses); Approaches and Connections (two courses); free electives as needed to complete 123 academic hours.

Majoring in Biology: Bachelor of Arts

This program is designed to provide greater flexibility than the B.S. in meeting broad student interests. Students must fulfill all General Education requirements with these restrictions and additions:

- Foundations: Quantitative Reasoning: one of MATH 130, MATH 231, MATH 152, COMP 110, COMP 116, STOR 155, or STOR 215.
- Approaches: Natural Sciences: CHEM 101-101L and BIOL 101-101L, with a C grade or higher.
- In addition, students must complete the following:
  - CHEM 102-102L.
  - BIOL 201, 202 and 205 (the core courses) and one organismal structure and diversity course chosen from 271, 272, 273, 274, 275-275L, 276-276L, 277-277L, 278-278L, 279-279L, 378, 471, 472, 475, 476-476L, 478, or 579.
  - Three biology electives beyond 201 (not including 213, 291, 292, 293, 295, 296, 396 and 692H), at least one with laboratory. At least one course in biology must be numbered above 400 (not including 501, 691H, 692H).
  - Four additional courses in biology, other natural sciences or mathematics (these courses should also complete the Approaches Physical and Life Sciences requirement).
  - Students must complete the remaining General Education Approaches and Connections requirements, as well as either the Distributive or Integrative option for B.A. majors in the College of Arts and Sciences.
  - General electives to complete the 120 academic hours are required for graduation.

Suggested program of study for B.A. majors:

First year:
BIOL 101-101L; ENGL 101, 102; language levels 2, 3; CHEM 101-101L, 102-102L; Foundations Quantitative Reasoning requirement as specified above; Lifetime Fitness.

Sophomore year:
Two of the three biology core courses (201, 202, 205); natural sciences electives (two courses); Approaches and Connections (four courses).

Junior year:
Remaining biology core course, organismal biology course, biology electives (two courses); natural sciences electives (two courses); Approaches and Connections (two courses); Distributive or Integrative option/free electives (two courses).

Senior year:
Biology electives (two courses); Approaches and Connections (one course); Distributive or Integrative option and free electives as needed to complete 120 academic hours and other requirements.

Minoring in Biology

A student may minor in biology by taking four biology courses beyond BIOL 101-101L distributed as follows:

- two of the three core courses (201, 202 and 205)
- one course with a laboratory, and
- one course numbered above 400.
Honors in Biology

Candidates for honors or highest honors must secure approval from the departmental honors advisor. They must have three hours of BIOL 395, take BIOL 691H or 692H and maintain an overall grade point average of 3.2 and a grade point average in biology courses (exclusive of BIOL 395 and 691H) of at least 3.4 (for honors) or 3.85 (for highest honors) at the end of the semester preceding the semester in which they graduate. Other requirements are detailed in a document available in the departmental office and at www.bio.unc.edu/undergraduate/honors/guidelines.htm.

Special Opportunities in Biology

Students are encouraged to speak with their advisor about opportunities to serve as peer advisors or health professions advising assistants, or to join Tri-Beta, the national biological sciences honor society.

Experiential Education

After completing BIOL 201 or 202, students are encouraged to consider how they plan to meet the experiential education requirement. Either BIOL 293 (Internship in Biology) or BIOL 295 (Undergraduate Research in Biology) fulfill this requirement and also connect students’ academic course work to current biological research and inquiry. Students who wish to meet this requirement with course work that also counts toward the major in biology should enroll in BIOL 395 rather than 295 or other courses approved to satisfy this requirement (provided the students meet the prerequisites to enroll in these courses).

Laboratory Teaching Internships and Assistantships

Opportunities exist for assisting graduate instructors (and for instruction in undergraduate laboratories). Interested students should contact the instructor of the course or obtain approval from either the departmental director of undergraduate studies or the department chair.

Undergraduate Awards

All awards include a personal plaque, a monetary gift and a place on Coker Hall’s list of department honorees. The prizes include:
• The Henry Van Peters Wilson Award, given annually to the senior honors student in biology whose research in molecular-cellular biology is judged by a faculty committee to be the most outstanding.
• The Robert Ervin Coker Award, given annually to the senior honors student in biology whose research in organismal biology and ecology is judged most outstanding by a faculty committee.
• The John N. Couch Award, given annually to the senior honors student with interests in plant biology who has demonstrated the highest ideals of scholarship and research.
• The Irene R. Hagadorn Award, given annually to the junior in biology with the highest overall scholastic average.
• The Francis J. LeClair Award, given annually to the outstanding member of the graduating class for academic excellence in Biology with an emphasis in plant sciences.

Undergraduate Research

An undergraduate research experience is extremely valuable to a student who intends to pursue postgraduate work in the biological sciences. Undergraduates may participate directly in the research of faculty in the Department of Biology. This research opportunity allows students to put their knowledge of biology into practice through participation in a biological research program and is encouraged by faculty. Students’ participation in research can begin as early as their second year by registration in BIOL 395.

Undergraduates with a 3.0 or higher grade point average in biology courses are encouraged to enroll in BIOL 395. Information concerning the procedure for enrolling in a research course can be obtained from the chair of the department’s undergraduate honors research program. Additional information can be found at www.bio.unc.edu/undergraduate/research.htm.

Facilities

The Department of Biology occupies three buildings, Wilson Hall and its annex, Coker Hall, and Fordham Hall. In the summer of 2007 construction of the Genome Science Building will begin. The GSB will house interdisciplinary research programs focused on genomics. The department’s library (the John N. Couch Library) is located on the third floor of Coker Hall. It houses more than 70,000 volumes, receives over 1,200 serials related to the wide variety of research fields represented by the department and provides access to more than 700 online journal titles and the major indexes in the biological sciences. In addition, the department has nine greenhouses contiguous to Coker Hall; a microscopy facility that contains a Zeiss EM10CA electron microscope, two confocal microscopes, and support facilities; a P3 laboratory; a small mammal facility; insect culturing rooms; marine aquaria; and a microarray facility.

Graduate School and Career Opportunities

Those who plan careers in health sciences including dentistry, medicine and veterinary medicine should consult with the Health Professions Advising Office, Room 2010 Steele Building. Those who plan to teach in public schools should see the requirements for science teacher programs under the School of Education. Special courses in marine science are offered through the Department of Biology and the Curriculum in Marine Science at the Institute of Marine Science, Morehead City, N.C.

Contact Information

Second-semester sophomores electing a major in biology will be assigned a departmental faculty advisor.
Ms. Denise Burgner, Assistant for Undergraduate Services, Department of Biology, CB# 3280, 212 Coker Hall, (919) 962-3390, fax: (919) 962-1625, burgner@bio.unc.edu.
Dr. Ann Matthesse, Professor and Director of Undergraduate Studies, Department of Biology, CB# 3280, 163 Coker Hall, (919) 962-6941, ann.matthesse@unc.edu.

Course List and Description

Stated prerequisites are understood to mean “or equivalent” and may be waived by the course instructor for students who are adequately prepared.

NOTE: BIOL 101-101L (11-11L) is the prerequisite for most advanced work in biology. However, entering first-year students may earn placement credit for BIOL 101-101L (11-11L) by either: (1) scoring 3 or higher on the Biology Advanced Placement examination or (2) taking and passing the Department of Biology placement test offered several times during the year.

Course numbers in BIOLOGY have been assigned according to the following principles:

First digit
• Under 100: first-year seminars
• 100 to 199: first-year courses
• 200 to 299: second year courses
• 300 to 399: advanced undergraduates only
• 400 to 499: courses for advanced undergraduates and graduate students
• 500 to 599: advanced courses for undergraduates and graduate students
• 600 to 699 courses for graduate students that are open to exceptionally well prepared undergraduates
• 700 and above: courses for graduate students only.

Second digit
• 0-1 general topics courses
• 2 genetics and molecular genetics
• 3 molecular biology and biochemistry
• 4 cell and developmental biology
• 5 organismal and ecological courses
• 6 ecology
• 7 courses that fulfill the organismal biology requirement
• 8 special courses
• 9 special topics and research

BIOL

053 [06D] First-Year Seminar: Biotechnology: Genetically Modified Foods to the Sequence of the Human Genome (3). Introduction, in a first-year seminar, to recent advances in genetics and cell biology, and discussion and debate concerning how these advances are changing medicine, agriculture and other aspects of our lives.

055 [06D] First-Year Seminar: The Roots and Flowering of Civilization: A Seminar on Plants and People (3). The focus of this first-year seminar will be on the transition from hunter-gatherer, the interchange of crops, medicinal and psychoactive plants, and organic vs. industrial farming methods.


101 [011] Principles of Biology (3). Open to all undergraduates. Prerequisite to most higher courses in biology. An introduction to the fundamental principles of biology, including cell structure, chemistry and function, genetics, evolution, adaptation and ecology. (See note above concerning Advanced Placement examination.) Three lecture hours a week.

101L [011L] Introductory Biology Laboratory (1). Prerequisite or corequisite, BIOL 101. An examination of the fundamental concepts in biology with emphasis on scientific inquiry. Biological systems will be analyzed through experimentation, dissection and observation. Three laboratory hours a week.

111 [001] Biology Inquiry (1). No prerequisite. A seminar course that focuses on how biologists ask questions and resolve controversy. Students read and discuss excerpts from the original literature. Designed for first-year students but open to all interested students.

113 [010] Issues in Modern Biology (3). For students not majoring in biology. Students who have taken any other course in the Biology Department may not register for this course. Recent advances in the understanding of major principles in biology. Emphasis to include the relevance and application of such advances to humans, society and the environment. Three lecture hours a week.

128 [008] Biology of Human Disease (PATH 128) (3). No prerequisites. Open to all undergraduates. Presents an overview of basic human molecular and cellular biology in the setting of common human diseases. The course will emphasize how an understanding of disease mechanisms provides the knowledge base for informed use of modern health care. Does not count as a course in the major.

159 [009] Prehistoric Life (GEOG 159) (3). Fossils and the origin and evolution of life, including micro- and macroevolution, mass extinctions, the evolution of dinosaurs and humans, and scientific perspectives on multicultural creationism. (Optional lab.) Cannot be used as a major requirement in biology. Does not count as a course in the major.

159L [009L] Prehistoric Life Laboratory (GEOG 159L) (1). Normal laboratory is one credit hour; two credit hour laboratory includes internship (3-5 hours, once a week) at the N.C. Museum of Natural History as part of APPLES program.

201 Ecology and Evolution (4). Prerequisites, grade of C or better in BIOL 101 and CHEM 101 or CHEM 102. Principles governing the ecology and evolution of populations, communities and ecosystems, including speciation, population genetics, population regulation, and community and ecosystem structure and dynamics. Three lecture hours and one recitation-demonstration-conference hour a week.

202 [050] Molecular Biology and Genetics (4). Prerequisites, grade of C or better in BIOL 101 and CHEM 101 or CHEM 102. Structure and function of nucleic acids, principles of inheritance, gene expression and genetic engineering. Three lecture hours and one recitation-demonstration-conference hour a week.


211 [060] Introduction to Research in Biology (3). Prerequisites, BIOL 201or 202. A seminar based on current investigations at UNC-Chapel Hill. Students will examine sources of scientific information, explore the logic of scientific investigation and develop proposals for their own work. Not open to seniors. Students with BIOL 211 credit may receive a maximum of 3 hours of graded credit in BIOL 395.

213 [031] Evolution and Life (3). Prerequisite, BIOL 101. For students not majoring in biology. An introduction to the scientific study of biological evolution and its applications. The mechanisms that cause evolution and general patterns of evolution during the history of life. Does not count as a course in the major.

251 [044] Introduction to Human Anatomy and Physiology (3). This course relates the way in which the human body is constructed to the way in which it functions and is controlled. Credit for only one of BIOL 251 and BIOL 252. Only offered through Continuing Studies.

252 [045] Fundamentals of Human Anatomy and Physiology (4). Prerequisites, BIOL 101 and 101L. An introductory course emphasizing the relationship between and function of the body's organ systems. The required lab uses computer software to illustrate anatomy and noninvasive experiments to measure activi-
ty of major organ systems. Three lecture and three laboratory hours each week.

253 [084] Mountain Diversity (ENST 404) (4). Introduction to the rich diversity of plants, animals and fungi of the Southern Appalachians, focusing on their ecology, systematics, evolution and conservation.

262 [064] Global Ecology: An International Perspective on Ecological and Environmental Problems (ENST 262) (3). Prerequisite, BIOL 201. Ecological basis of global environmental problems and their solutions. Topics include: human population growth; food and water shortages; biodiversity loss, desertification; weather change; emerging diseases and climate change. These are elements in an interconnected ecological system at a global scale.

271 [041] Plant Biology (4). Prerequisites, BIOL 101, BIOL 101L. Designed for students with an interest in natural sciences. An introduction to the principles of botany including structure, function, reproduction, heredity, environmental relationships, evolution and classification of plants. Three lectures and three laboratory hours a week.

272 [43] Local Flora (4). Prerequisites, BIOL 101, BIOL 101L. Open to all undergraduates. Recognition and identification of vascular plants with emphasis on the use of keys and other identification devices. Two lecture and four laboratory hours a week.

273 [017] Horticulture (4). Prerequisite, BIOL 101. The cultivation, propagation and breeding of plants, with emphasis on ornamentals. Control of environmental factors for optimal plant growth. Laboratory exercises include plant culture, propagation, pruning and identification of common ornamentals. Two lecture, one recitation and three laboratory hours a week.

274 [051] Plant Diversity (4). Prerequisites, BIOL 101, BIOL 101L. A survey of the major groups of plants emphasizing interrelationships, comparative morphology and other topics of biological importance. Culturing techniques and some field work are included. Two lecture and four laboratory hours a week.

275 [080] Biology of Insects (3). Prerequisites, BIOL 101, BIOL 101L. Study of insects with emphasis on physiology, ecology and behavior. Three lecture, discussion and demonstration hours a week.

275L Biology of Insects Laboratory (1). Prerequisites, BIOL 101 and 101L; corequisite, BIOL 275. Identification of insects and laboratory studies in insect physiology, ecology and behavior; student projects in insect biology. Three laboratory hours a week and field collections.

276 Evolution of Vertebrate Life (3). Prerequisites, BIOL 101, BIOL 101L. Evolutionary history of the vertebrates, emphasis on anatomical, physiological, behavioral adaptations accompanying major transitions: the move from water to land, the development of complex integrating systems.

276L [063L] Vertebrate Structure and Evolution Laboratory (1). Prerequisite or corequisite, BIOL 276. Vertebrate comparative anatomy of organ systems and their evolution with emphasis on human anatomy. Three laboratory hours a week.

277 [072] Vertebrate Field Zoology (3). Prerequisites, BIOL 101, 101L. Introduction to the diversity, ecology, behavior and conservation of living vertebrates. Three lecture hours a week.

277L [072L] Vertebrate Field Zoology Laboratory (1). Prerequisites, BIOL 101 and 101L; corequisite, BIOL 277. Study of the diversity of vertebrates in the field. Three laboratory and field hours a week, including two weekend trips.

278 [073] Animal Behavior (3). Prerequisites, BIOL 101, BIOL 101L. Introduction to animal behavior with emphasis on the diversity and adaptation of behavior in natural conditions. Three lecture hours a week.

278L [073L] Animal Behavior Laboratory (1). Prerequisite or corequisite, BIOL 278. Techniques of observation and experiments in animal behavior. Three laboratory hours a week.

279 [097] Special Topics in Organismal Biology (2-3). Prerequisite, permission of instructor. An undergraduate course devoted to consideration of pertinent aspects of a selected organismal biological discipline.

279L [097L] Special Topics in Organismal Biology Laboratory (1-2). Prerequisite, permission of instructor. An undergraduate laboratory course covering aspects of a specific organismal biological discipline. Laboratory reports will be required. Research work is not included in this course.

290 [096] Special Topics (1-3). Prerequisite, permission of the staff. An undergraduate seminar course devoted to consideration of pertinent aspects of a selected biological discipline.

290L [096L] Special Topics Laboratory (1-2). Prerequisite, permission of the staff. An undergraduate laboratory course covering aspects of a specific biological discipline. Laboratory reports will be required. Research work is not included in this course.

291 [090] Laboratory Intern in Biology (1). Prerequisites, 3.0 or higher in course in question and all biology work, and permission of instructor. Experience to include laboratory preparations, demonstrations, assistance and attendance at weekly laboratory preparation meetings for the course. Interns will not be involved in any aspects of grading in the course. May be repeated with credit. Three laboratory hours a week.

292 [091] Laboratory Teaching Assistant in Biology (2). Prerequisites, 3.0 or higher in course in question and all biology work and permission of instructor and department chair. Experience and duties to include attendance at weekly laboratory preparation meetings for the course, laboratory preparations, demonstrations, instruction and grading in one section of laboratory course. May be repeated for credit. Three laboratory hours a week.

293 Undergraduate Internship in Biology (3). Prerequisites, BIOL 201 or 202 and permission of instructor. For departmental majors in biology. The sponsored, off-campus work must involve at least 135 hours. Does not count as a course in the major.

295 Undergraduate Research in Biology (3). Prerequisites, BIOL 201 or 202 and permission of instructor. For departmental majors in Biology. The work must involve at least 135 hours of research effort in which students learn to ask appropriate questions and place results within suitable frameworks. Does not count as a course in the major.

296 [095] Directed Reading (1-3). Prerequisite, permission of the staff. Extensive and intensive reading of the literature of a specific biological field directly supervised by a member of the biology fac-
ulty. Written reports on the readings, or a literature review paper will be required. Cannot be used as a course toward the major.

321 [124] Introduction to Immunology (MICR 321) (3). Prerequisites, BIOL 202, BIOL 205 and permission of instructor. This course provides a general overview of the evolution, organization and function of the immune system. Instruction will be inquiry-based with extensive use of informational and instructional technology tools. Three lectures hours a week.

324 [135] Molecular Basis of Disease (3). Prerequisites, BIOL 202 and BIOL 205, or permission of instructor. This course covers the molecular mechanisms of human diseases, including genetic diseases, infectious diseases, immunodeficiencies, nutritional disorders, cancer, metabolic diseases, cardiovascular diseases and neurological disorders.

350 [126] Oceanography (ENVR 417, GEOL 403, MASC 401) (3). Prerequisites, major in a natural science or at least two college-level courses in natural sciences. The origin of ocean basins, chemistry and dynamics of seawater, biological communities and processes, the sedimentary record and history of oceanography. Term paper. Intended for students with college science background; other students should see GEOL 103. Three lecture hours a week.

382 [092] Senior Seminar (1). Prerequisite, faculty recommendation. Offered to seniors for more detailed and comprehensive exposure to unifying principles in biology. Discussion and analyses of selected topics by students. Three seminar hours a week.

395 Undergraduate Research (1-3). Prerequisites, BIOL 201 or BIOL 202, an overall 3.0 grade point average, and permission of the faculty research director. Laboratory study addressing biological questions. Requires final written report. May be repeated for up to six credit hours. One-five hours counts as lecture course. Six counts as lecture/lab course.

396 [098B] Undergraduate Research (1-3). Prerequisites, BIOL 395, an overall 3.0 grade point average and permission of a faculty research director. Directed readings with laboratory study on a selected topic. A final written report is required each term. May be repeated. This course is offered for pass/fail credit only.


422L [108L] Microbiology Laboratory (1-2). Prerequisite or corequisite, BIOL 422. Sterile technique, bacterial growth and physiology, bacterial genetics, bacteriophage and bacterial diversity.

423L Laboratory Experiments in Genetics (4). Prerequisite, BIOL 205. Experiments using a range of organisms from bacteria to Drosophila, higher plants and man to sample organismal and molecular genetics. One lecture hour, four laboratory hours.

424 [115] Strategies of Host-Microbe Interactions (3). Prerequisite, BIOL 205 and BIOL 422, or equivalents. There is great variety in how microbes colonize and live with their hosts. The course will summarize strategies of pathogenicity, symbiosis, commensalism and mutualism. Evolutionary, cellular and molecular aspects will be analyzed.

425 [122] Human Genetics (GNET 425) (3). Prerequisite, BIOL 202. Pedigree analysis, inheritance of complex traits, DNA damage and repair, human genome organization, DNA fingerprinting, the genes of hereditary diseases, chromosomal aberrations, cancer and oncogenes, immunogenetics and tissue transplants. Three lecture hours a week.

426 [134] Biology of Blood Diseases (PATH 426) (3). Prerequisite, BIOL 205 or permission of instructor. An introduction to the biology and pathophysiology of blood and the molecular mechanisms of some human diseases, including malignant neoplasms, anemias, hemophilias, thrombophilias, atherosclerosis and viral infections.

427 [127] Human Diversity and Population Genetics (3). Prerequisites, BIOL 202 and BIOL 201, or permission of the instructor. This course investigates the facts, methods and theories behind human population genetics, evolution and diversity. Specifically, it addresses questions of human origins, population structure and genetic diversity.

429 [125] Clinical and Counseling Aspects of Human Genetics (GNET 635) (3). Prerequisites, BIOL 425 and permission of instructor. Topics in clinical genetics including pediatric analysis, counseling/ethical issues, genetic testing, screening and issues in human research are taught in a small group format. Active student participation is expected. Three lecture hours per week.

430 [130] Introduction to Biological Chemistry (CHEM 430) (3). Prerequisites, CHEM 262 or CHEM 262H, CHEM 262L or CHEM 263L, BIOL 101. The study of cellular processes including catalysis, metabolism, bioenergetics and biochemical genetics. The structure and function of biological macromolecules involved in these processes is emphasized.


435 [171] Molecular Biology Techniques (4). Prerequisite, permission of instructor; BIOL 434 recommended. Experiments with bacterial phage, nucleic acid isolation and properties, recombinant DNA techniques and DNA sequencing. Additional hours in laboratory will be necessary to complete assignments.

436 [131] Endocrinology (3). Prerequisite, BIOL 205 or BIOL 252. Principles of neuroendocrine and endocrine systems of vertebrates and selected invertebrates with consideration of the anatomy and physiology of glands of internal secretion. Hormone chemistry and interendocrine relationships are also emphasized. Three lecture hours a week.


439 [165] Introduction to Signal Transduction (3). Prerequisites, BIOL 101, BIOL 202, BIOL 205. This course presents an introduction to signal transduction pathways used by higher eukaryotes. Several signaling paradigms will be discussed to illustrate the ways that cells transmit information. Three lecture hours per week.

441 [104] Vertebrate Embryology (3). Prerequisite, BIOL 252 or BIOL 205. Principles of development with special emphasis on gametogenesis, fertilization, cleavage, germ layer formation,
organogenesis and mechanisms with experimental analysis of developmental processes. Three lecture hours a week.

44L [104L] Vertebrate Embryology Laboratory (1). Prerequisite or corequisite, BIOL 441. Descriptive and some experimental aspects of vertebrate development. Three laboratory hours a week.

443 [144] Developmental Biology (3). Prerequisites, BIOL 202 or BIOL 205 and CHEM 261. An experimental approach to an understanding of animals and plants. The approach covers developmental processes, molecular, genetic, cell biological and biochemical techniques, with an emphasis on the molecules involved in development.

445 [169] Cancer Biology (3). Prerequisites, BIOL 202 and BIOL 205. Selected examples will be used to illustrate how basic research allows us to understand the mechanistic basis of cancer and how these insights offer hope for new treatments.

446 [166] Unsolved Problems in Cellular Biology (3). Prerequisite, BIOL 205. A survey of areas of current interest in cytology, embryology and genetics with concentration on problems which remain unsolved, but which appear to be near solution. Three lecture and discussion hours a week.

447 [129] Laboratory in Cell Biology (4). Prerequisite, grade of C or better in BIOL 205. Modern methods to study cells, technical skills necessary for research in cell and molecular biology, knowledge of good lab practice, operation of technical instrumentation. Three lecture and three laboratory hours a week.

448 [167] Advanced Cell Biology (3). Prerequisite, BIOL 205. An advanced course in cell biology, with emphasis on the biochemistry and molecular biology of cell structure and function. Three lecture hours a week.

450 [121] Introduction to Neurobiology (3). Prerequisite, BIOL 205. Survey of neurobiological principles in vertebrates and invertebrates, including development, morphology, physiology and molecular mechanisms. Three lectures a week.

451 [120] Comparative Physiology (3). Prerequisites, BIOL 101, BIOL 10L, PHYS 104, PHYS 105. An examination of the physiology of animals using a comparative approach. Both invertebrate and vertebrate animals are discussed in order to elucidate general principles.

452 [170] Mathematical and Computational Models in Biology (MATH 452) (4). Prerequisites, BIOL 202, BIOL 201, MATH 231, and either MATH 232 or STOR 155. This course will introduce analytical, computational and statistical techniques, such as discrete models, numerical integration of ordinary differential equations, and likelihood functions, to explore topics from various fields of biology. Lab is included.

453 [150] Animal Societies and Communication (3). Prerequisite or corequisite, BIOL 278. Comparative review of animal societies; diversity of social structure, social dynamics, communication, ecology and evolution of social organization. Three lecture hours a week.

454 [158] Evolutionary Genetics (3). Prerequisites, BIOL 202 and BIOL 201 or permission of instructor. The roles of mutation, migration, genetic drift and natural selection in the evolution of the genotype and phenotype. Basic principles are applied to special interest topics. Three lecture hours a week.

455 [154] Behavioral Neuroscience (3). Prerequisite, BIOL 205 or permission. The neurobiological basis of animal behavior at the level of single cells, neural circuits, sensory systems and organisms. Lecture topics range from principles of cellular neurobiology to ethological field studies.

456 [157] Problems in Vertebrate Evolution (GEOL 456) (3). Prerequisites, BIOL 276 or permission of the instructor. A study of the major transitions in vertebrate evolution and associated problems in evolutionary biology, structural change, paleoecology, biogeography and earth history, physiology and behavior.

457 [148] Marine Biology (MASC 442) (3). Prerequisites, MASC 101 or BIOL 101. A survey of plants and animals that live in the sea: characteristics of marine habitats, organisms and the ecosystems will be emphasized. Marine environment, the organisms involved and the ecological systems that sustain them.

459 [195] Field Biology at Highlands Biological Station (1-4). Prerequisite, BIOL 101 or equivalent, or permission of instructor. Content will vary. Summer field biology at the Highlands Biological Station will generally focus on the special faunal and floras processes and patterns characteristic of the southern Appalachian mountain region. Five lecture and three to five laboratory and field hours per week, depending on credit.

461 [112] Fundamentals of Ecology (ECOL 461, ENST 461) (4). Prerequisite, BIOL 201. Students will develop a comprehensive understanding of the field of ecology, including modern and emerging trends in ecology. They will develop awareness of the fundamental theories and models that capture ecological processes; emphasis will also be placed on the relevance of ecology and ecological research for human society.

462 [146] Marine Ecology (MASC 440) (3). Prerequisite, BIOL 201 or BIOL 475. A survey of ecological and oceanographic processes structuring marine communities in a broad range of habitats with an emphasis on experimental approaches to addressing both basic and applied problems in marine systems. Three lecture hours a week.

463 Field Ecology (4). Prerequisite, BIOL 201. Application of ecological theory to terrestrial and/or freshwater systems. Lectures will acquaint students with these systems and emphasize quantitative properties of interacting population and communities within them. The required laboratory will teach techniques and methodology applicable for analysis of these systems. Individual and group projects will emphasize experimental testing of ecological theory in the field. Two lecture and six field hours a week.

467 [156] Evolutionary Ecology (3). Prerequisite, BIOL 471 or permission of instructor. Advanced topics in the evolution of form and function. May include issues in life-history evolution, evolutionary physiology, evolutionary morphology and the evolution of complexity. Three lecture hours per week.


471 [132] Evolutionary Mechanisms (4). Prerequisite, BIOL 202 and BIOL 201, or permission of instructors. Introduction to mechanisms of evolutionary change, including natural selection, population genetics, life history evolution, speciation and micro-macroevolution.
evolutionary trends. Three lecture hours plus two hours of laboratory/recitation per week.

472 [103] Introduction to Plant Taxonomy (4). Prerequisites, BIOL 271 and/or BIOL 272 or permission of the instructor. Introduction to the taxonomy of vascular plants. Principles of classification, identification, nomenclature and description. Laboratory and field emphasis on plant families, families, description, identification, and classification of vascular plant species. Three lecture and three laboratory hours a week.

475 [105] Marine Invertebrate Biology (4). Prerequisites, BIOL 101, BIOL 101L and one additional course in biology. An introduction to the major animal phyla emphasizing form, function, behavior, ecology, evolution and classification of marine invertebrates. Three lecture and three laboratory hours per week.

476 [114] Avian Biology (3). Prerequisites, BIOL 101, BIOL 101L and one additional course in biology. A study of avian evolution, biogeography, ecology and behavior with emphasis on North Carolina avifauna. Three lecture hours a week.

476L [114L] Avian Biology Laboratory (1). Prerequisite, corequisite, BIOL 476. Techniques for the study of avian evolution, ecology and behavior with emphasis on North Carolina birds. Three laboratory or field hours a week, including one or two weekend field trips.

478 [110] Invertebrate Paleontology (GEOL 419) (4). Prerequisites, GEOL 159 or BIOL 101, or permission of instructor. Introduction to the principles, methods of analysis and major controversies within paleontology. Examination of the fossil record and its applications to problems in evolutionary biology, paleoecology, paleoclimatology and general Earth history.

490 [175] Special Topics (3). Prerequisite, permission of instructor. Content will vary. Three lecture and discussion hours per week by visiting and resident faculty.

501 [176] Ethical Issues in Life Sciences (3). Prerequisites, BIOL 202 and BIOL 205 and permission of instructor. A consideration and discussion of ethical issues in life sciences including cloning humans, genetic engineering, stem cell research, organ transplantation and animal experimentation. Counts as a course numbered below 400 for biology major requirements.

514 [133] Evolution and Development (3). Prerequisites, BIOL 201, BIOL 202, BIOL 205. The course examines the mechanisms by which organisms are built and evolve. In particular, it examines how novel and complex traits and organisms arise from interactions among genes and cells. Three lecture hours per week.

522 [109] Bacterial Genetics (3). Prerequisites, BIOL 422. Genetics of eubacteria with emphasis on molecular genetics including regulation of gene expression, transposons, operons, regulons, plasmids, transformation and conjugation.

524 [424] Strategies of Host-Microbe Interactions (3). Prerequisites, BIOL 205 and BIOL 422, or equivalents. There is great variety in how microbes colonize and live with their hosts. The course will summarize strategies of pathogenicity, symbiosis, commensalism and mutualism. Evolutionary, cellular and molecular aspects will be analyzed.

526 [162] Computational Genetics (4). Prerequisites, BIOL 202 and COMP 101 and STOR 155. A study of the concepts underlying the bioinformatic tools used in genetics. Topics include alignment, gene finding, expression analysis, mapping, phylogenetics and measuring sequence divergence and polymorphism. Three lecture and two laboratory hours per week.

529 [429] Clinical and Counseling Aspects of Human Genetics (GNET 635) (3). Prerequisites, BIOL 425 and permission of instructor. Topics in clinical genetics including pedigree analysis, counseling/ethical issues, genetic testing, screening and issues in human research are taught in a small group format. Active student participation is expected. Three lecture hours per week.

535 [435] Molecular Biology Techniques (4). Prerequisite, permission of instructor; BIOL 434 recommended. Experiments with bacterial phase, nucleic acid isolation and properties, recombinant DNA techniques and DNA sequencing. Additional hours in laboratory will be necessary to complete assignments.

536 [136] Macromolecular Structure and Metabolism (3). Prerequisites, CHEM 430; BIOL 202. Structure of DNA and methods in biotechnology; DNA replication and repair; RNA structure, synthesis, localization and transcriptional regulation; protein structure/function, biosynthesis, modification, localization and degradation.


542 [188] Light Microscopy for the Biological Sciences (3). Prerequisites, BIOL 205 and permission of instructor. Introduction to various types of light microscopy, digital and video imaging techniques and their application in biological sciences.

551 [155] Comparative Biomechanics (3). Prerequisites, BIOL 101, BIOL 101L, PHYS 104, PHYS 105. The structure and function of organisms in relation to the principles of fluid mechanics and solid mechanics.

553 [152] Plant Anatomy (5). Prerequisite, BIOL 274. Introduction to the development and comparative anatomy of vascular plants. Practice in methods of anatomical microtechnique. Three lecture and four laboratory hours a week.

554 [153] Comparative Morphology of Vascular Plants (5). Prerequisite, BIOL 274. Comparative morphology and evolutionary relationships of the Tracheophyta. Both living and fossil forms will be considered. Three lecture and four laboratory hours a week.

555 [181] Paleobotany (GEOL 555) (4). Prerequisites, BIOL 101, BIOL 101L and permission of instructor. An introduction to the morphology, stratigraphic occurrence and evolutionary relationships of fossil plants. Both macrofossils and microfossils will be considered. Three lecture and three laboratory hours a week.

561 [143] Ecological Plant Geography (3). Prerequisite, BIOL 101 or GEOG 110. Description of the major vegetation types of the world including their distribution, structure and dynamics. The principal causes for the distribution of plant species and communities, such as climate, soils and history will be discussed.

562 [141] Statistics for Environmental Scientists (ECOL 562, ENST 562) (4). Prerequisite, STOR 155 or equivalent. Introduction to the application of quantitative and statistical methods in environmental science including environmental monitoring, assessment,
threshold exceedance, risk assessment and environmental decision making.


564 [149] Ecosystem Structure and Function (3). Prerequisite, BIOL 201 or a course in limnology or geochemistry. Pattern and process in natural ecosystems, with stress on comparative approaches to ecosystems and analysis. Topics include primary and secondary productivity, nutrient cycling and the biogeochemistry of aquatic and terrestrial ecosystems. Three lecture hours a week.

564L [149L] Ecosystem Structure and Function Laboratory (1). Prerequisites, corequisites, BIOL 564 and permission of instructor. Use of data to generate empirical models of ecosystem patterns or processes. Individual research projects. Three laboratory hours a week.

565 [184] Conservation Biology (3). Prerequisite, BIOL 201. The application of biological science to the conservation of populations, communities and ecosystems, including rare species management, exotic species invasions, management of natural disturbance, research strategies and preserve design principles.

567 [467] Evolutionary Ecology (3). Prerequisite, BIOL 471 or permission of instructor. Advanced topics in the evolution of form and function. May include issues in life-histories, evolutionary physiology, evolutionary morphology and the evolution of complexity. Three lecture hours per week.

579 [183] Organismal Structure and Diversity in the Southern Appalachian Mountains (4). Prerequisite, general biology, ecology or permission of instructor. An examination of the field biology of selected fungi, plants or animals of the Appalachian Mountains. The morphology, taxonomy, ecology, life history and behavior of the organisms will be explored both in the laboratory and in the field.

621 [161] Principles of Genetic Analysis 1 (GNET 621) (3). Prerequisite for undergraduates, BIOL 202. For graduate students, an undergraduate genetics course or permission of instructor. Genetic principles of genetic analysis in prokaryotes and lower eukaryotes.


624 [160] Developmental Genetics (GNET 624) (3). Prerequisite, BIOL 202 and BIOL 205, and permission of instructor required for undergraduates. Genetic and molecular control of plant and animal development. Extensive reading from primary literature.

625 [270] Seminar in Genetics (GNET 625) (2). Prerequisite, permission of instructor. Current and significant problems in genetics. May be repeated for credit.

631 [178] Advanced Molecular Biology 1 (BIOL 631, GNET 631, MCRO 631, PHCO 631) (3). Prerequisites for undergraduates, at least one undergraduate course in both biochemistry and genetics. DNA structure, function and interactions in prokaryotic and eukaryotic systems, including chromosome structure, replication, recombination, repair and genome fluidity. Three lecture hours a week.

632 [179] Advanced Molecular Biology II (BIOL 632, GNET 632, MCRO 632, PHCO 632) (3). Prerequisites for undergraduates, at least one undergraduate course in both biochemistry and genetics. RNA structure, function and processing in biological systems including transcription, gene regulation, translation and oncogenes. Three lecture hours a week.

639 [272] Seminar in Plant Molecular and Cell Biology (2). Prerequisite, permission of the instructor. May be repeated for credit. Current and significant problems in plant molecular and cell biology are discussed in a seminar format.

642 [177] Current Topics in Cell Division (3). Prerequisite, BIOL 205. An advanced course in cell and molecular biology integrating genetic, biochemical and structural aspects of the cell cycle. Principles derived from a variety of biological systems. Extensive reading of classic papers as well as recent literature.

648 [282] Palynology (5). Prerequisite, consent of the instructor. A consideration of various aspects of palynology, including the morphology, structure, development, systematics, evolution, preparation techniques, and analysis of living and fossil pollen grains, spores and other palynomorphs. Two lecture and six laboratory hours a week.

649 [254] Seminar in Cell Biology (2). Prerequisite, BIOL 205 or permission of the instructor. May be repeated for credit.

657 [140] Biological Oceanography (ENVR 520, MASC 504) (4). Prerequisite, BIOL 201 or BIOL 475 or permission. Physical, chemical, and biological factors characterizing estuarine and marine environments with emphasis on factors controlling animal and plant populations, including experimental approaches and methods of analysis, sampling and identification. Five lecture and five laboratory hours a week.

659 [258] Seminar in Evolutionary Biology (2). Prerequisite, BIOL 471 or permission of instructor. Advanced topics in evolutionary biology.

661 [142] Plant Ecology (4). Prerequisite, BIOL 201. Consideration of terrestrial, vascular plant ecology including environmental physiology, population dynamics, and community structure. Laboratory stresses collection and interpretation of field data. Three lecture and three laboratory hours a week.

662 [247] Field Plant Geography (2). Prerequisites, BIOL 661 or 561 and permission of instructor. Intensive literature and field study of the plant geography and ecology of a selected region. Weekly seminar-style discussion followed by approximately nine days' field experience. May be repeated for credit.

663 [185] Population Ecology (3). Prerequisite, BIOL 201. An advanced treatment of topics in animal population and community ecology, stressing analytical and interpretation approaches. Topics will vary from year to year and the course may be repeated with credit. Three lecture and discussion hours a week.

663L [185L] Laboratory in Population Ecology (1). Prerequisites, corequisites, BIOL 663 and permission of instructor. Methodology in the analysis and interpretation of population and community phenomena. Three laboratory and field hours a week.
666 [186] Community and Systems Ecology (3). Prerequisite, BIOL 201. A holistic approach to ecology. State-space modeling of ecological processes. Other topics will vary but may include spatial and temporal heterogeneity in communities and ecosystems; disturbance theory; decomposition; community structure and function; freshwater ecology.

666L [186L] Community and Systems Ecology Laboratory (1). Prerequisite or corequisite, BIOL 666. Community and/or ecosystem modeling and computer simulation. Experimental analysis and validation in the field. Individual and group projects. Three laboratory and field hours a week.

669 [255] Seminar in Ecology (ECOL 669) (2). Prerequisite, BIOL 201 or permission of the instructor. May be repeated for credit.

691H [099A] Senior Honors Thesis (3). Prerequisites, permission of a faculty research director and three credit hours of BIOL 395 in the same laboratory. Students with six hours of BIOL 395 must take BIOL 692H. See also the description of honors and highest honors under Special Undergraduate Opportunities in Biology in the statement preceding course descriptions. Required of all candidates for honors or highest honors in their senior year.

692H [099B] Senior Honors Thesis (3). Prerequisites, permission of a faculty research director and six credit hours of BIOL 395 in the same laboratory. Students with six hours of BIOL 395 must take BIOL 692H. See also the description of honors and highest honors under Special Undergraduate Opportunities in Biology in the statement preceding course descriptions. Required of all candidates for honors or highest honors in their senior year. This course is offered for pass/fail credit only.

Department of Biomedical Engineering
www.bme.unc.edu

H. TROY NAGLE, Chair

The Joint Department of Biomedical Engineering is a department of both the University of North Carolina at Chapel Hill and North Carolina State University. The department maintains a joint graduate program, and, at UNC, it participates in the undergraduate program of the Curriculum in Applied and Materials Sciences (CAMS). Students interested in biomedical engineering should consider the CAMS program.

BMME courses at the 400 level are intended for undergraduates. BMME courses at the 500 level are open to advanced undergraduates, but are intended for graduate students. Undergraduates should consult with the course director before registering for 500-level courses.

BMME

400 [100] Introduction to Biomedical Engineering (1). Seminar introducing students to biomedical engineering research, including literature search, faculty presentation of ongoing research, and student discussion of research papers.

405 [102] Biomechanics (3). Prerequisites, PHYS 116, MATH 383, and permission of instructor. Fundamental principles of solid and fluid mechanics applied to biological systems. Human gait analysis, joint replacement, testing techniques for biological structures, and viscoelastic models are presented. Papers from current biomechanics literature will be discussed.

410 Systems and Signals (APPL 410) (3). Prerequisites, PHYS 351 and permission of instructor. Analysis of linear systems by transform methods to networks, including stability analysis. Survey of numerical methods for network solutions.


430 [121] Digital Signal Processing I (APPL 430) (3). Prerequisite, COMP 101 or equivalent. This is an introduction to methods of automatic computation of specific relevance to biomedical problems. Sampling theory, analog-to-digital conversion, digital filtering will be explored in depth.


450 [132] Linear Control Theory (APPL 450) (4). Prerequisite, MATH 528 or equivalent. Linear control system analysis and design are presented. Frequency and time domain characteristics and stability are studied. These techniques are applied in an included laboratory.

460 [110] Survey of Engineering Math Applications (APPL 460) (1). Computational laboratory that surveys engineering math with emphasis on differential equations, and Laplace and Fourier analysis. Applications in biomedical engineering emphasized through problem set computation using Matlab. This course should be taken concurrently with MATH 528.

465 [111] Biomedical Instrumentation I (APPL 465) (4). Prerequisite, PHYS 351. Topics include basic electronic circuit design, analysis of medical instrumentation circuits, physiologic transducers (pressure, flow, bioelectric, temperate, and displacement). This course includes a laboratory where the student builds biomedical devices.

480 [120] Real-Time Computer Applications I (APPL 480) (3). Introduction to digital computers for on-line, real-time processing and control of signals and systems. Programming analog and digital input and output devices using C and assembly language is stressed. Case studies are used as vehicles to present software design strategies for real-time laboratory systems.

489 [129] Digital Systems Design (3). Prerequisite, BMME 440. Provides a thorough grounding in the use of semi-custom CMOS gate arrays to implement both analog and digital functions. Computer aided design tools are employed for circuit design and modeling, automatic test pattern generation, fault simulation and design for testability.

510 [112] Biomaterials (APPL 510) (3). Prerequisite, BMME 589 or one year of college-level biology, chemistry, physical engineering, and biocompatibility aspects of materials, devices, or systems for implantation or interfering with the body cells or tissues. Food and Drug Administration and legal aspects.

520 [160] Fundamentals of Materials Engineering (3). The structure, defects, thermodynamics, kinetics, and properties
(mechanical, electrical, thermal, and magnetic) of matter (metals, ceramics, polymers, and composites) will be considered.

530 [154] Microelectrode Techniques (4). Prerequisites, PHYS 351 and BIOL 101 or equivalent. Models for measurement of cellular transmembrane voltages with microelectrodes are introduced. Basic and technical aspects of the measurements are described. Students fabricate microelectrodes and measure action potentials in living cells.

550 [141] Medical Imaging I (3). Prerequisites, MATH 233 PHYS 128. Basic physics of x radiation, gamma radiation, nuclear magnetic resonance, and ultrasound are applied to medical imaging problems. Digital electronics, radiation interaction and detection, image analysis, and counting statistics are treated.

560 [142] Medical Imaging II (3). Prerequisite, BMME 550. Modern medical diagnostic imaging techniques and instrumentation are studied, including classical and digital radiography, computed tomography, nuclear medicine, magnetic resonance, and ultrasound. Includes discussion of clinical utility. (On demand.)

570 [151] From Genes to Tissues: Molecular Biology and Genetics for Biomedical Engineers (4). Prerequisites, undergraduate organic chemistry (or biochemistry) and undergraduate biology (or permission of instructor). An introduction to molecular, cell, and tissue biology for BMME students covering molecular genetics, gene expression, self-assembling mechanisms, metabolism, bioenergetics, cell organelles, regulation of growth and differentiation, and signaling.

589 [181] Systems Physiology for Biomedical Engineers (5). Prerequisites, six hours of undergraduate biology or chemistry and permission of instructor. A graduate-level introduction to systems and organ physiology. Topics covered will include membrane structure and physiology, muscle physiology, central nervous systems, cardiac electrophysiology, and endocrinology.

600 [153] Biomathematical Modeling (3). Prerequisite, engineering-level mathematics, e.g., MATH 383, 528. Various approaches to mathematical modeling of biological systems will be considered. The major focus at the cellular level will be expanded to include examples in organs, organisms, and populations.


607B [107B] Gross Anatomy II (2). Prerequisite, CBIO 607A and permission of instructor. Primarily for medical students. Enrollment by availability of space and material. Two lectures, six laboratory hours, eight weeks.

610A [200A] Advanced Gross Anatomy I (4). Prerequisites, CBIO 607A-B and/or permission of instructor. Detailed dissection of human body. Specific regions may be selected; topics include topographic, radiographic, and cross-sectional anatomy.

610B [200B] Advanced Gross Anatomy II (3). Prerequisite, CBIO 610A and/or permission of instructor. Continuation of CBIO 610A.

627 [207] Regional Anatomy (3). Prerequisite, permission of instructor. For students of oral surgery, surgical residents, and graduate students.

643 [117] Cell Structure, Function, and Growth Control I (BIOC 643, MCRO 643, PHCO 643) (3). Prerequisite, undergraduate cell biology or biochemistry or permission of the instructor. Comprehensive introduction to cell structure, function, and transformation.

644 [118] Cell Structure, Function, and Growth Control II (BIOC 644, MCRO 644, PHCO 644) (3). Prerequisite, undergraduate cell biology or biochemistry or permission of the instructor. Comprehensive introduction to cell structure, function, and transformation.

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**Department of Cell and Molecular Biology**

www.cellbio.med.unc.edu/grad/depttest/welcome.htm

**VYTAS A. BANKAITIS, Chair**

The Department of Cell and Developmental Biology is home to a graduate program that provides scientific training for students whose career objectives are research/teaching positions in cell biology, developmental biology, or anatomy. The following courses are open to undergraduate students majoring in the sciences.

**CBIO**

423 [123] Developmental Toxicology and Teratology (TOXC 423) (3). Emphasizes topics of current research interest relative to the genesis of environmentally caused and genetically based birth defects. One two-hour session per week (evening).

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**Department of Cell and Molecular Physiology**

www.med.unc.edu/physiology

**JAMES M. ANDERSON, Chair**

The Department of Cell and Molecular Physiology offers courses for premedical, predental, nursing, pharmacy, physical therapy, and allied health students as well as to students pursuing science majors but does not offer a formal program leading to a degree. Students interested in independent research may register for PHYI 395 (Undergraduate Research in Physiology), a directed readings or laboratory study with a member of the faculty.

**PHYI**

050 First-Year Seminar: Human Physiology (3). Introductory view of the study of human physiology and how it relates directly to health and disease. Final project will take the form of a patient education document, which would be suitable for distribution to the audience of the student's choice. The format of the document can be written, a PowerPoint-type presentation, or Web-based. The project will also include a selective and annotated bibliography.

202 [092] Introduction to Physiology (5). Prerequisites, CHEM 101, 102, and BIOL 252, or equivalents. A course in basic human physiology with an appreciation for its clinical application. Emphasis is on body fluids, various organ systems and their interrelationships. Required of all nursing students and available to
other students by permission of instructor. Four lecture and two recitation hours a week.

395 [098] Undergraduate Research in Physiology (1-21).
Prerequisites, BIOL 101, 101L; CHEM 101, 101L; an overall 3.0 grade point average; and permission of instructor. Directed readings or laboratory study on a selected topic. Final written report required in each term. At least three hours of independent work per week for each unit of credit.

Department of Chemistry
www.chem.unc.edu

MICHAEL T. CRIMMINS, Chair

Professors

Associate Professors

Assistant Professors
Christopher J. Fecko, Andrew M. Moran, Garegin A. Papapola, Wei You, Muhammad N. Youasf.

Research Assistant Professors
Todd L. Austell, Brian P. Hogan, Bessie N. Mbadugha, Domenic J. Tiani.

Lecturers
Carrabeth L. Bliem, Stacy I. Chamberlin, Carolyn J. Morse.

Introduction
Chemists often claim that theirs is "the central science," for it sits between physics, of which it is one of the most complex and useful outgrowths, and the biological and geological sciences, which find their basis in it. By a common definition, chemistry is the scientific study of the composition and properties of matter and the investigation of the laws that govern them.

Classically, chemistry is divided into several subdisciplines. Organic chemistry deals primarily with carbon compounds; inorganic chemistry, with compounds of the other elements. Physical chemistry seeks to describe relationships between the chemical and physical properties of all substances. Analytical chemistry studies the analysis of the chemical composition of all substances. Biological chemistry pursues the chemistry of living organisms; at UNC-Chapel Hill biological chemistry is divided between the Department of Chemistry and the Department of Biochemistry and Nutrition. At the borders of these sub-disciplines are many hybrid areas of study: physical organic, organometallic, bioorganic and others; and at the interface of chemistry with other sciences there are active fields fueled by insights gained from two ways of thinking about things: for example, chemical physics, pharmaceutical chemistry, organic geochemistry and the extensive chemical problems in biotechnology. In all of these areas the chemist's approach may be theoretical, experimental or both.

All chemists have a common core of knowledge, learned through a highly structured sequence of undergraduate courses in which the content is divided into the classical subdisciplines. Toward the end of students' progress through their four years of undergraduate study, they may choose to gain additional concentration in one or more areas of chemistry through the courses selected to fulfill the chemistry elective requirement and undergraduate research.

Program of Study
The degrees offered are bachelor of arts in chemistry, bachelor of science in chemistry, bachelor of science in chemistry (biochemistry track) and bachelor of science in chemistry (polymer track). A minor is offered in chemistry.

Majoring in Chemistry: Bachelor of Arts
The following courses are required:

First Year
Foundations, quantitative reasoning: MATH 231, MATH 232
Foundations, English composition and rhetoric: ENGL 101 and 102
Foundations, foreign language: 1 course, 3 hours
Foundations, lifetime fitness: 1 hour
Approaches, physical and life sciences: CHEM 101, 101L, 102 or 102H, CHEM 102L
Other Approaches: 3 courses, 9 hours

Sophomore Year
CHEM 241 or 241H, 241L or 245L, 251, 261 or 261H, 262 or 262H, 262L or 263L
PHYS 105 or 117
Other Approaches: 3 courses, 9 hours

Junior and Senior Years
CHEM 280 or 481
Choice of two courses: CHEM 421, 430, 441, 450, 451, 482, or 560L
Approaches: 2 courses, 6 hours
Connections, communications intensive: CHEM 550L
Other Connections, distributive or integrative option: 3 courses, 9 hours

Majoring in Chemistry*: Bachelor of Science
The following courses are required:

First and Sophomore Years
Foundations, English composition and rhetoric: ENGL 101 and 102
Foundations, foreign language: 1 course, 3 hours
Foundations, lifetime fitness: 1 hour
Foundations, quantitative reasoning: MATH 231
MATH 232, 233, 383; PHYS 117
Approaches, physical and life sciences: CHEM 101, 101L; BIOL 101
CHEM 102, 102L; or 102H
CHEM 241 or 241H, 241L or 245L, 251, 261 or 261H, 262 or 262H, 262L or 263L
Other Approaches: 6 courses, 18 hours
Connections, quantitative intensive: PHYS 116
Other Connections

Junior and Senior Years
CHEM 430 and 450
CHEM 481, 481L, 482, and 482L
CHEM 441 and 441L

* Students who plan to attend professional schools (Pharmacy, Medicine, etc.) are encouraged to complete a minor in or a second major in Biology.
Advanced chemistry electives (10 hours, one must be a laboratory)  
Approaches: 3 courses, 9 hours  
Connections, communications intensive: CHEM 550L  
Other Connections

**Majoring in Chemistry (Biochemistry Track): Bachelor of Science**

The following courses are required:

**First and Sophomore Years**

BIOL 202 and 205  
CHEM 1022, 102L; or 102H  
CHEM 241 or 241H, 241L or 245L, 251, 261 or 261H, 262 or 262H, 262L or 263L  
MATH 232, 233, and 383  
PHYS 117  
Foundations, quantitative reasoning: MATH 231  
Foundations, English composition and rhetoric: ENGL 101 and 102  
Foundations, foreign language: 1 course, 3 hours  
Approaches, physical and life sciences: CHEM 101 and 101L; BIOL 101 and 101L  
Foundations, lifetime fitness: 1 hour  
Other Approaches: 6 courses, 18 hours  
Connections, quantitative intensive: PHYS 116  
Other Connections

**Junior and Senior Years**

CHEM 430, 481, 481L, 482, and 530L  
CHEM 431 and 432  
Advanced chemistry elective: 3 hours\(^a\)\(^,7\)  
Connections, communications intensive: CHEM 550L  
Other Connections

**Majoring in Chemistry (Polymer Track): Bachelor of Science**

The following courses are required:

CHEM 1022, 102L; or 102H  
CHEM 241 or 241H, 241L or 245L, 251, 261 or 261H, 262 or 262H, 262L or 263L  
MATH 232, 233, and 383  
PHYS 117  
Foundations, quantitative reasoning: MATH 231  
Foundations, English composition and rhetoric: ENGL 101 and 102  
Foundations, foreign language: 1 course, 3 hours  
Approaches, physical and life sciences: CHEM 101 and 101L, BIOL 101 and 101L  
Foundations, lifetime fitness: 1 hour  
Other Approaches: 6 courses, 18 hours  
Connections, quantitative intensive: PHYS 116  
Other Connections

**Junior and Senior Years**

CHEM 430, 481, 481L, 482, 482L, 530L, and 550L  
APPL 150 or CHEM 470  
Polymer electives: 3 courses\(^a\)  
Advanced chemistry elective: 3 hours\(^a\)  
Connections, communications intensive: CHEM 550L  
Other Connections

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**Minoring in Chemistry**

The undergraduate minor in chemistry consists of the following seven courses:\(^8\)

CHEM 102 (note 2) or 102H, CHEM 241 or 241H, CHEM 261 OR 261H, CHEM 262 or 262H, CHEM 102L, CHEM 241L or 245L, CHEM 262L or 263L

Note: Careful attention should be paid to prerequisites and course timing when planning a long-term schedule. In particular, CHEM 101/101L are prerequisites for CHEM 102/H102L. A C- or better grade in CHEM 101 is required to continue in CHEM 102/H102L. CHEM 102 is a prerequisite for CHEM 241/241L and 261. CHEM 261 is required for CHEM 262, and CHEM 241L is recommended (although not absolutely required) before CHEM 262L. Note that CHEM 262 and 262L are only offered in the spring and summer. Students intending to take pregraduate or preprofessional exams (such as the GRE or MCAT) should plan accordingly.

**Honors in Chemistry**

Upon the recommendation of the Department of Chemistry the B.A. or B.S. degree may be awarded by the University with honors in chemistry or highest honors in chemistry.

Highest honors in chemistry is a distinction bestowed on a truly exceptional student who has excelled in course work and who has completed a research project of considerable depth and significance. To attain this distinction the candidate must have nominally satisfied the following guidelines:
1. B.A. candidates must have achieved a grade point average of 3.85 or higher; B.S. candidates, a grade point average of 3.75 or higher;
2. have completed at least five courses in chemistry numbered 420 or above. For B.A. candidates one of these may be a laboratory course; for B.S. candidates they must all be lecture courses;
3. have completed or be about to complete a research project certified to be of publishable quality by the research advisor and two faculty members appointed by the vice chair for undergraduate studies.

Honors in chemistry is a distinction bestowed on an outstanding student who has demonstrated marked competence in the course work and who has completed a research project of considerable merit. To attain this distinction the candidate must have nominally satisfied the following guidelines:
1. have achieved a grade point average of 3.40 or higher;
2. have received no grade below B- in junior-senior level chemistry courses.
3. have completed at least three lecture courses in chemistry numbered 420 or above;
4. have completed or be about to complete a research project certified to be of honors quality by the research advisor and two faculty members appointed by the vice chair for undergraduate studies.

Students who wish to qualify for either of these awards should begin planning their course programs and research activities in the junior year so that ample time and effort may be devoted to attainment in upper level courses and research.

**Special Opportunities in Chemistry**

**Departmental Involvement**

Majors are encouraged to participate in AXE (chemistry fraternity) and the undergraduate advisory board.
Laboratory Teaching Internships and Assistantships

Undergraduates have the opportunity to serve as lab assistants for entry level undergraduate laboratory courses.

Special Topics

Special topics not offered through the normal course sequence may be pursued through directed reading and registration in CHEM 396, with the approval of the supervising faculty member, advisor and vice chair for undergraduate studies.

Undergraduate Awards

Excellent performances by undergraduates in chemistry are recognized by the department through the following awards.

Francis P. Venable Medal: A medallion and cash award are presented to the two most outstanding graduating seniors majoring in chemistry in honor of Dr. Francis P. Venable, who was chairman of the department, president of the University from 1900 to 1914 and president of the American Chemical Society.

Emmett Gladstone Rand Premedical Scholarship: A scholarship is presented to an exceptionally talented graduating senior intending to pursue a career in medicine.

Jason D. Altom Memorial Award for Undergraduate Research: This cash award recognizes research potential of an undergraduate chemistry major.

J. Thurman Freeze Scholarship: This scholarship serves to fund summer research between a student's junior and senior years.

E.C. Markham Summer Research Fund: The recipient of this award is chosen by the department chair and will use the salary to perform research between the junior and senior years.

David L. Stern Scholar: Top students from upper division lab courses are chosen for this cash award.

Undergraduate Award for Excellence in Physical Chemistry: This cash award is given to the top student in physical chemistry courses.

James H. Maguire Memorial Award: This award goes to an outstanding and academically gifted junior honors student majoring in chemistry.

Tanya R. Ellison Scholarship: A female, junior or senior, B.S. chemistry major is selected for this cash award on the basis of character and academic commitment.

American Institute of Chemists Student Award: An annual membership is presented to an outstanding graduating senior majoring in chemistry who has shown potential for advancement of the chemical profession.

Merck Index Awards: A copy of the Merck Index is presented annually to outstanding graduating seniors majoring in chemistry.

Hypercube Scholar Award: An outstanding senior majoring in chemistry is given this chemical software package.

Undergraduate Research

Almost every undergraduate chemistry major who has undertaken a research project has found it to be an exciting and rewarding experience. The reasons are many. One certainly is that it affords an opportunity to make pioneering discoveries at the forefront of science, using instrumentation and techniques far more sophisticated than those usually encountered in standard laboratory courses.

More than 80 students are involved in undergraduate research projects in chemistry each year. Although successful completion of an undergraduate research project is a requirement for graduation with honors or highest honors (see below), it is not necessary to be a participant in the Honors Program to undertake a research project.

The usual mechanism for getting involved in a research project is to register for CHEM 395. This process begins well in advance of a preregistration or registration period with a visit to the Chemistry Student Services office, where a student may obtain a list of undergraduate research opportunities and a form titled Request for Registration in CHEM 395.

Most students begin research during the spring semester of their junior year and continue throughout their senior year. CHEM 395 and CHEM 396 (Special Problems in Chemistry) together may be taken for credit as many times as desired but may be counted for no more than nine hours total credit toward graduation in either the B.A. or B.S. traditional and polymer tracks and for no more than six hours in the B.S. biochemistry track. In the B.S. curriculum, it may be counted no more than once as an advanced chemistry elective.

Graduate School and Career Opportunities

An undergraduate degree tailored according to the student's interests can open doors to graduate programs in many academic disciplines: chemistry itself, environmental science, materials science, polymer science, chemical engineering, geochemistry, chemical physics and several disciplines at the interface between biology and chemistry. A technically oriented administrator in the chemical industry might choose to obtain a master's degree in business administration. More than a hundred schools in the United States offer graduate programs in chemistry and related areas, and it is the usual practice to take graduate education at a different institution from the undergraduate institution. It is necessary to specialize in graduate study, either within one of the branches previously mentioned or at the interface between two of them. If admitted to a graduate program in chemistry in the United States it is usually offered a teaching assistantship or fellowship, so that family support is not necessary.

Chemists have a wide choice of academic, governmental or industrial positions. By far the greatest percentage accept industrial positions, mostly in the chemical manufacturing or the petroleum, food and pharmaceutical industries, where they may be developing new products to benefit humanity or assessing the level of risk in the processes for some proposed production methods, for example. Most government chemists are employed in agriculture, health, energy, environmental and defense-related areas. In the academic field, with such a broad spectrum of colleges and universities in this country, academic chemists can set career goals with varying levels of emphasis on training students in research and teaching in the classroom and instructional laboratory.

Contact Information


Student Services Manager and Assistant, Department of Chemistry, CB# 3290, (919) 843-7827, (919) 843-7826, chemus@unc.edu.

Dr. Valerie Ashby, Associate Professor and Vice Chair for Undergraduate Studies, Department of Chemistry, CB# 3290, 239 Caudill Labs, (919) 962-3663, ashby@email.unc.edu.

Footnotes

1 At least 18 semester hours of credit in chemistry courses above CHEM 101 and 101L with individual grades of C or higher are required. (Grades of C- do not satisfy this requirement.) Courses in chemistry and other courses specifically required (and designated by number) may not be taken pass/fail.

2 CHEM 102 has a CHEM 101 prerequisite. Students must receive a grade of C- or higher in CHEM 101 to take CHEM 102.
3 PHYS 116 and 117 are encouraged for those students considering careers as professional chemists or those students that want the option to switch from the B.A. program to the B.S. program.

4 CHEM 460L is strongly recommended for students planning professional work in chemical laboratories.

5 This program meets the requirements of the American Chemical Society for the training of professional chemists.

6 CHEM 395 and CHEM 396 may be taken for credit as many times as desired but may be counted for no more than nine hours of total credit toward fulfillment of graduation requirements. Additionally, CHEM 395 may not be counted more than once as an advanced chemistry elective in the B.S. chemistry degree, B.S. chemistry degree (biochemistry track) and B.S. chemistry degree (polymer track). CHEM 395 can be counted for no more than six hours in the B.S. chemistry (polymer track).

7 One course must be taken from the following: CHEM 395, BIOL 601, BIOL 650, BIOL 422, or any chemistry lecture course numbered 420 or above that is not already required.

8 CHEM 241 or 241H are pre- or corequisites of CHEM 241L or 245L. CHEM 261 or 261H is a prerequisite to CHEM 262L or 263L, and CHEM 262 or 262H is a pre- or corequisite to CHEM 262L or 263L. However, CHEM 241L, or 245L, 261L, or 263L can be taken in either order as long as all pre- and corequisites are satisfied.

9 With the permission of the course instructor, CHEM 420 or other chemistry courses numbered above 420 may be substituted for the listed courses.

10 Three courses must be taken from the following: CHEM 420, 421, 422, and 423.

11 Students may take CHEM 395 once to fulfill an advanced chemistry elective.

CHEM

070 [006D] First-Year Seminar: You Don’t Have to be a Rocket Scientist (3). The underlying theme of this first-year seminar is the development of the basic tools for extracting information from, or finding flaws in, news reports and popular science writing. Students will work in groups on such issues as biomass fuels, the hydrogen economy and other alternative energy sources to develop an understanding of their economic and environmental impact.

071 [006D] First-Year Seminar: Foundations of Chemistry: A Historical and Modern Perspective (3). Students in the class will learn about the ways in which scientists think. We will explore the process by which new knowledge is generated and examine the impact of science on society. Topics to be considered include: (1) the nature of gases; (2) atomic structure and radioactivity; (3) molecules and the development of new materials.

072 [006D] First-Year Seminar: From Imagination to Reality: Idea Entrepreneurism in Science, Business and the Arts (3). Bringing ideas to fruition is a multistep process. In the present knowledge economy, high value is placed on individuals who both formulate new concepts and bring them to reality. This process requires a number of important skills that will be explored in this course.

101 [11] Special General Descriptive Chemistry I (3). Prerequisite, MATH 110. The course is the first member of a two-semester sequence. See also CHEM 102. Atomic and molecular structure, stoichiometry and conservation of mass, thermochemical changes and conservation of energy.


102 [21] General Descriptive Chemistry II (3). Prerequisites, CHEM 101, 101L, with a C- or better in CHEM 101. The course is the second member of a two-semester sequence. See also CHEM 101. Chemical equilibrium, reaction rates, representative chemical structures and reactions.

102L [21L] Quantitative Chemistry Laboratory II (1). Prerequisite, CHEM 101L, pre- or corequisite, CHEM 102 or 102H. Techniques for quantitative acid-base, redox and complexometric titrimetry. Gravimetric analysis. Total salt ion exchange analysis. Transfer students who have not had quantitative analysis in their previous courses will take this laboratory. One four-hour laboratory a week.

200 [015] Extraordinary Chemistry of Ordinary Things (3). Prerequisite, MATH 110. Co-registration in CHEM 200 and CHEM 101L fulfills the natural science perspective for a General College perspective with laboratory. The goal of the course is to help students understand the chemistry behind important societal issues and the consequences of actions aimed at addressing the issues. (Students who have taken CHEM 200 cannot take CHEM 101 for credit.)


241L [041L] Laboratory in Separations and Analytical Characterization of Organic and Biological Compounds (1). Prerequisite, CHEM 102L or 105L, pre- or corequisite, CHEM 241 or 241H. Applications of separation and spectrophotometric techniques to organic compounds, including some of biological interest. One three-hour laboratory a week.

245L [045L] Honors. Laboratory in Separations and Analytical Characterization of Organic and Biological Compounds (1). Prerequisite, CHEM 102L or 105L, pre- or corequisite, CHEM 241 or 241H. Applications of separation and spectrophotometric techniques to organic compounds, including some of biological interest. Honors equivalent of CHEM 241L. One three-hour laboratory a week.

251 [051] Introduction to Inorganic Chemistry (2). Prerequisite, CHEM 102 or 102H. Chemical periodicity, introductory atomic theory and molecular orbital theory, structure and bonding in solids, descriptive inorganic chemistry, structures and reactions of transition metal complexes, applications of inorganic complexes and materials.

261 [061] Introduction to Organic Chemistry I (3). Prerequisite, CHEM 102 or 102H. Molecular structure and its determination by modern physical methods; correlation between structure and reactivity and the theoretical basis for these relationships; classification of reaction types exhibited by organic molecules using as examples molecules of biological importance.

262 [062] Introduction to Organic Chemistry II (3). Prerequisite, CHEM 261 or 261H. Continuation of CHEM 261, with particular emphasis on the chemical properties of organic molecules of biological importance.

262L [062L] Laboratory in Organic Chemistry (1). Prerequisite, CHEM 102L, pre- or corequisite, CHEM 262 or CHEM 262H. Continuation of CHEM 241L or CHEM 245L, with particular emphasis on applications of modern analytical spectroscopic techniques and separation and identification of organic unknowns. One three-hour laboratory a week.

263L [066L] Honors. Laboratory in Organic Chemistry (1). Prerequisite, CHEM 102L; pre- or corequisite, CHEM 262H or permission of instructor. Continuation of CHEM 245L, with particular
emphasis on applications of modern analytical spectroscopic techniques and separation and identification of organic unknowns. Honors equivalent of CHEM 262L. One three-hour laboratory a week.

395 [109] Research in Chemistry for Undergraduates (3). Prerequisites, one chemistry course numbered 120 or higher and permission of instructor and vice chair for undergraduate studies. For advanced majors in chemistry and the applied science curriculum who wish to conduct a research project in collaboration with a faculty supervisor. Restricted to on-campus work. May be taken repeatedly for credit, but CHEM 395 and CHEM 396 together may not be counted for more than nine hours total credit toward B.A. or B.S. degree in chemistry nor more than six hours total credit toward biochemistry track of the B.S. degree, and CHEM 395 may be counted for more than three hours credit toward the advanced chemistry elective category of the B.S. degree. Work done in CHEM 395 may be counted toward honors in chemistry by petition to the honors committee of the department. More details on CHEM 395 and honors in chemistry are available from the Office of Undergraduate Studies in the Department of Chemistry.

396 [101] Special Problems in Chemistry (1-3). Prerequisite, to be determined by consultation with vice chair for undergraduate studies. Equivalent of one to three hours a week.

420 [120] Introduction to Polymer Chemistry (APPL 420) (3). Prerequisite, CHEM 261 or 261H; pre- or corequisite, CHEM 262 or 262H, CHEM 262L or 263L. Chemical structure and nomenclature of macromolecules, synthesis of polymers, characteristic polymer properties.

421 [121] Synthesis of Polymers (APPL 421, MTSC 421) (3). Prerequisites, CHEM 251, CHEM 262 or 252H. Synthesis and reactions of polymers, various polymerization techniques.

422 [122] Physical Chemistry of Polymers (APPL 422, MTSC 422) (3). Prerequisites, CHEM 420, 481. Polymerization and characterization of macromolecules in solution.

423 [123] Intermediate Polymer Chemistry (APPL 423, MTSC 423) (3). Prerequisite, CHEM 422. Polymer dynamics, networks and gels.

430 [130] Introduction to Biological Chemistry (BIOL 430) (3). Prerequisites, CHEM 262 or 262H; CHEM 262L or 263L; BIOL 101. The study of cellular processes including catalysts, metabolism, bioenergetics and biochemical genetics. The structure and function of biological macromolecules involved in these processes will be emphasized.

431 [131] Macromolecular Structure and Metabolism (3). Prerequisites, CHEM 430; BIOL 202. Structure of DNA and methods in biotechnology; DNA replication and repair; RNA structure; synthesis, localization and transcriptional reputation; protein structure/function, biosynthesis, modification, localization and degradation.


433 [133] Transport in Biological Systems (1). Prerequisites, CHEM 430, MATH 383 and permission of instructor. Diffusion, sedimentation, electrophoresis, flow. Basic principles, theoretical methods, experimental techniques, role in biological function, current topics.


435 [135] Protein Biosynthesis and Its Regulation (1). Prerequisite, CHEM 430; pre- or corequisite, CHEM 431 and permission of instructor. Protein biosynthesis mechanism in prokaryotes and eukaryotes; emphasis on structures of the macromolecular machinery; translational regulation mechanisms including autogenous regulation, metabolic and developmental signals; viral control of host protein synthesis.

436 [136] The Proteome and Interactome (1). Prerequisites, CHEM 430 and permission of instructor. Methods for and role of bioinformatics in proteomic analysis; proteomics in the analysis of development, differentiation and disease states; the interactome - definitions, analysis methods of protein-protein interactions in complex systems.

437 [137] DNA Processes (2). Prerequisites, CHEM 431, CHEM 480 or 481, and permission of instructor. Elucidation of the mechanisms of these processes in prokaryotes and eukaryotes from experiments. Experimental results ranging from in vivo studies to structural studies to kinetics.

438 [138] Macromolecular Structure and Human Disease (1). Prerequisites, CHEM 431 and permission of instructor. Impact of protein and macromolecular structure on the development and treatment of human disease, with emphasis on recent results. Examination of relevant diseases, current treatments and opportunities for improved therapies.

439 [139] RNA Processing (2). Prerequisites, CHEM 431 and permission of instructor. RNA processing, structure and therapeutics; in-depth exploration of examples from the contemporary literature. Topics include RNA world hypothesis, RNA structure and catalysis, and nucleic acid-based sensors and drug design.

441 [141] Intermediate Analytical Chemistry (2). Prerequisites, CHEM 241 or 241H, CHEM 241L or 245L, CHEM 262 or 262H, and CHEM 480 or 481. Spectroscopy, electroanalytical chemistry, chromatography, thermal methods of analysis, signal processing.

441L [141L] Intermediate Analytical Chemistry Laboratory (2). Corequisite, CHEM 441. Experiments in spectroscopy, electroanalytical chemistry, chromatography, thermal methods of analysis, and signal processing. One four-hour laboratory a week and one one-hour lecture.

442 [142] Chemical Instrumentation (2). Prerequisite, CHEM 480 or 482; corequisites, CHEM 442L and permission of instructor. Introduction to chemical instrumentation including digital and analog electronics, computers, interfacing and chemometric techniques. Two one-hour lectures a week.

442L [142L] Laboratory in Chemical Instrumentation (2). Prerequisite, CHEM 480 or 482; corequisite, CHEM 442. Experiments in digital and analog instrumentation, computers, interfacing and chemometrics, with applications to chemical instrumentation. One four-hour laboratory a week.
444 [144] Separations (3). Prerequisite, CHEM 441, 480, or 481. Theory and applications of equilibrium and nonequilibrium separation techniques. Extraction, countercurrent distribution, gas chromatography, column and plane chromatographic techniques, electrophoresis, ultra-centrifugation and other separation methods.

445 [145] Electroanalytical Chemistry (3). Prerequisite, CHEM 480 or 481. Basic principles of electrochemical reactions, electroanalytical voltammetry as applied to analysis and the chemistry of heterogeneous electron transfers, and electrochemical instrumentation.

446 [146] Analytical Spectroscopy (3). Prerequisites, CHEM 441, 482. Optical spectroscopic techniques for chemical analysis including conventional and laser-based methods. Absorption, fluorescence, scattering and nonlinear spectroscopies, instrumentation and signal processing.

447 [147] Bioanalytical Chemistry (3). Prerequisite, CHEM 441. Principles and applications of biospecific binding as a tool for performing selective chemical analysis.

448 [148] Mass Spectrometry (3). Prerequisite, CHEM 480 or 481. Fundamental theory of gaseous ion chemistry, instrumentation, combination with separation techniques, spectral interpretation for organic compounds, applications to biological and environmental chemistry.

449 [149] Microfabricated Chemical Measurement Systems (3). Prerequisite, CHEM 441. Introduction to micro and nanofabrication techniques, fluid and molecular transport at the picometer to nanometer length scales, applications of microtechnology to chemical and biochemical measurements.

450 [150] Intermediate Inorganic Chemistry (3). Prerequisite, CHEM 251. Introduction to symmetry and group theory; bonding, electronic spectra and reaction mechanisms of coordination complexes; organometallic complexes, reactions and catalysis; bioinorganic chemistry.

451 [151] Theoretical Inorganic Chemistry (1-21). Prerequisites, CHEM 251, CHEM 262 or 262H. Chemical applications of symmetry and group theory; crystal field theory, molecular orbital theory. The first third of the course, corresponding to one credit hour, covers point symmetry, group theoretical foundations and character tables.

452 [152] Electronic Structure of Transition Metal Complexes (3). Prerequisite, CHEM 451. A detailed discussion of ligand field theory and the techniques that rely on the theoretical development of ligand field theory, including electronic spectroscopy, electron paramagnetic resonance spectroscopy and magnetism.

453 [153] Physical Methods in Inorganic Chemistry (3). Prerequisite, CHEM 451. Introduction to the physical techniques used for the characterization and study of inorganic compounds. Topics typically include nuclear magnetic resonance spectroscopy, vibrational spectroscopy, diffraction, Mossbauer spectroscopy, x-ray photoelectron spectroscopy and inorganic electrochemistry.

460 [160] Intermediate Organic Chemistry (3). Prerequisite, CHEM 262 or 262H. Modern topics in organic chemistry.

465 [175] Mechanisms of Organic and Inorganic Reactions (4). Prerequisite, CHEM 450. Kinetics and thermodynamics; free energy relationships; isotope effects; acidity and basicity; kinetics and mechanisms of substitution reactions; one- and two-electron transfer processes; principles and applications of photochemistry; organometallic reaction mechanisms.

466 [166] Advanced Organic Chemistry I (3). Prerequisite, CHEM 262 or 262H; pre- or corequisites, CHEM 450, 481. A survey of fundamental organic reactions including substitutions, additions, eliminations and rearrangements; static and dynamic stereochemistry; conformational analysis; molecular orbital concepts and orbital symmetry.

467 [167] Advanced Organic Chemistry II (2). Prerequisite, CHEM 466. Spectroscopic methods of analysis with emphasis on elucidation of the structure of organic molecules: 1H and 13C NMR, infrared, ultraviolet, ORD-CD, mass and photoelectron spectroscopy. CHEM 446 and 467 may not both be taken for academic credit.


470 [190] Fundamentals of MTSC (APPL 470) (3). Prerequisite, CHEM 482, or prerequisite, PHYS 128 and pre- or corequisite, PHYS 341. Crystal geometry; diffusion in solids; mechanical properties of solids; electrical conduction in solids, thermal properties of materials; phase equilibria.


472 [192] Chemistry and Physics of Electronic Materials Processing (APPL 472, MTSC 472, PHYS 472) (3). Prerequisites, CHEM 482, or PHYS 117 or 321, and permission of instructor. A survey of materials' processing and characterization used in fabricating microelectronics devices. Crystal growth, thin film deposition and etching and microolithography, characterization techniques, electric and dielectric properties of materials.

473 [193] Chemistry and Physics of Surfaces (APPL 473, MTSC 473) (3). Prerequisite, CHEM 470. The structural and energetic nature of surface states and sites; experimental surface measurements; reactions on surfaces including bonding to surfaces and adsorption; interfaces.

480 [180] Introduction to Biophysical Chemistry (3). Prerequisites, CHEM 261 or 261H; PHYS 105; MATH 232. Does not carry credit toward graduate work in chemistry or credit toward any track of the B.S. degree in chemistry. Application of thermodynamics to biochemical processes; enzyme kinetics; properties of biopolymers in solution.

481 [181] Physical Chemistry I (3). Prerequisites, CHEM 102 or 102H, PHYS 116; pre- or corequisites, MATH 383, PHYS 116. Thermodynamics, kinetic theory, chemical kinetics.

481L [181L] Physical Chemistry Laboratory I (2). Prerequisite, CHEM 481; pre- or corequisite, CHEM 482. Experiments in physical chemistry. One three-hour laboratory and a single one-hour lecture a week.

482 [182] Physical Chemistry II (3). Prerequisite, CHEM 481. Introduction to quantum mechanics, atomic and molecular structure, spectroscopy, statistical mechanics.
482L [182L] Physical Chemistry Laboratory II (2). Prerequisites, CHEM 481, 481L, 482. Experiments in physical chemistry. One four-hour laboratory a week.

484 [184] Thermodynamics and Introduction to Statistical Thermodynamics (I-21). Prerequisite, CHEM 482. Thermodynamics, followed by an introduction to the classical and quantum statistical mechanics and their application to simple systems. The section on thermodynamics can be taken separately for one hour credit.

485 [185] Chemical Dynamics (3). Prerequisites, CHEM 481, 482. Experimental and theoretical aspects of atomic and molecular reaction dynamics.

486 [186] Introduction to Quantum Chemistry (3). Prerequisites, CHEM 481, 482. Introduction to the principles of quantum mechanics. Approximation methods; angular momentum; simple atoms and molecules.

487 [187] Introduction to Molecular Spectroscopy (3). Prerequisite, CHEM 486. Interaction of radiation with matter; selection rules; rotational, vibrational and electronic spectra of molecules; laser based spectroscopy and nonlinear optical effects.

488 [188] Quantum Chemistry (3). Prerequisite, CHEM 486. Applications of quantum mechanics to chemistry. Molecular structure; time-dependent perturbation theory; interaction of radiation with matter.

489 [189] Statistical Mechanics (3). Prerequisite, CHEM 484. Applications of statistical mechanics to chemistry. Ensemble formalism; condensed phases; nonequilibrium processes.

520L [124L] Polymer Chemistry Laboratory (APPL 520L) (2). Pre- or corequisite, CHEM 420 or 421. Thermal analysis; solution viscosity; gel permeation chromatography; end group analysis; synthesis; characterization of an unknown polymer. One four-hour laboratory and one one-hour lecture each week.

530L [131L] Laboratory Techniques for Biochemistry (3). Prerequisite, CHEM 430. An introduction to chemical techniques and research procedures of use in the fields of protein and nucleic acid chemistry. Two four-hour laboratories and one one-hour lecture a week.

550L [170L] Synthetic Chemistry Laboratory I (2). Prerequisites, CHEM 241L or 245L, CHEM 251, CHEM 262L or 263L. A laboratory devoted to synthesis and characterization of inorganic complexes and materials. A four-hour synthesis laboratory, a characterization laboratory outside of the regular laboratory and a one-hour recitation each week.

Associate Professor
Daniel A. Rodriguez
Assistant Professors
Thomas Campanella, Nichola Lowe, Mai Nguyen, Yan Song, Meenu Tewari.
Associated Faculty
Professors Emeriti

Introduction
City and regional planning is an interdisciplinary field whose purpose is to improve the quality of life for people in urban, suburban, and rural areas and in larger regions of the country. To this end, city and regional planners apply humanistic, social science, and specialized technical theory and knowledge to the layout and development of urban settlements both here and abroad. Planners, for example, are involved in guiding the type and location of new development, analyzing transportation systems, encouraging economic development, protecting the environment, and revitalizing urban neighborhoods. They are involved in designing solutions to pressing societal problems such as urban sprawl, unemployment, homelessness, air and water pollution, and urban decay.

For undergraduates, the Department of City and Regional Planning offers basic coursework, opportunities for supervised practical experience, and an academic minor. Undergraduate students take courses in the department for several reasons: to prepare for entry-level positions and careers in city and regional planning, to enrich or expand their current fields of interest, or to explore the possibility of a career in planning. Planning courses allow students to see how the humanities and the social sciences can be applied to improving quality of life in cities, towns, and rural areas. In this way they help students deepen their appreciation of their major field of study. Some planning courses fulfill General Education requirements - for example, the Approaches requirements in Social and Behavioral Sciences and in Moral and Philosophical Reasoning.

City and regional planners work for a variety of public and private organizations. In the public sector, local, state, and federal governments all employ city and regional planners. In the private sector, planners work for development companies, consulting firms, and a variety of nonprofit organizations. The minor in urban studies and planning provides students with the coursework, facilities, and access to advisors needed to qualify for entry-level positions in planning and to prepare for post-graduate work. The department's director of undergraduate studies serves as the primary point of contact for students participating in the minor program. Student advising and approval of equivalent courses are handled through the director's office.

Program of Study
A minor in urban studies and planning is offered to undergraduates.

Minoring in Urban Studies and Planning
To fulfill the requirements for the minor in urban studies and planning, a student should take five courses. The minor requires all students to take a two-course core in urban studies and planning:
PLAN 246 Cities of the Future
PLAN 247 Solving Urban Problems
After taking at least one core course, students can select three additional planning courses numbered 200-699 with permission of the instructor. PLAN 260 Urban Policy and PLAN 267 Ethical Bases for Public Policy are not available to students with an undergraduate major in public policy.

Facilities

Important resources available to the department include the Center for Urban and Regional Studies, located in Hickerson House, which conducts the research and service programs of the department, and the F. Stuart Chapin Planning Library, located in New East Building, which contains one of the nation's preeminent collections in city planning and urban affairs.

Graduate School and Career Opportunities

Undergraduates interested in a career in city and regional planning can pursue post-graduate work in planning at the University of North Carolina at Chapel Hill. The Department of City and Regional Planning offers several degree programs at the graduate level. A two-year program preparing for advanced positions in professional practice in city and regional planning leads to the degree of master of regional planning. A program leading to the degree of doctor of philosophy prepares for careers in teaching and research. Dual graduate degree programs are offered in collaboration with related professional programs (law, business, public administration, public health, landscape architecture, and transportation engineering).

Contact Information

Additional information on the Department of City and Regional Planning and the undergraduate minor in urban studies and planning is available on the department's Web site at www.planning.unc.edu and from the director of undergraduate studies or the department's student services manager.

PLAN

050 First-Year Seminar: This Land is Your Land (3). Among the most difficult issues encountered in managing urban communities and environmental quality concerns rights to land ownership. A variety of environmental regulations limit people's rights to use land as they see fit. This seminar will explore various processes by which rights to land, water, and environmental resources of the United States have been acquired, reserved, distributed, and regulated.

051 First-Year Seminar: Envisioning Community (3). How is "community" understood as a concept used to describe towns, universities, and other forms of social interaction? This seminar will introduce students to basic theories relating to urban planning, higher education, and social capital and provide students with opportunities to explore and document the views of local leaders concerning the towns' futures and the University's anticipated growth.

052 [006E] First-Year Seminar: Race, Sex, and Place in America (3). This first-year seminar will expose students to the complex dynamics of race, ethnicity, and gender and how these have shaped the American city since 1945. It will examine both the historical record as well as contemporary works of literature, film, and music to probe the ways race, sex, and ethnicity have contributed to the culture of our cities and popular perceptions of urban life in the United States.

054 [006E] First-Year Seminar: Bringing Life Back to Downtown: Commercial Redevelopment of North Carolina's Cities and Towns (3). The seminar seeks to understand the current realities of inner-city communities in the context of their historical evolution and the current proposals for revitalization. Each student selects one city or town for a case study.

055 [006E] First-Year Seminar: Sustainable Cities (3). How can the sustainability of cities and their ability to meet the needs of disadvantaged groups be improved? In this seminar students will look at the evolution of cities throughout history to find out how they have coped with threats to sustainability.

057 First-Year Seminar: What is a Good City? (3). After a brief focus on the forces that have produced the American urban landscape, this first-year seminar will explore the city from the normative perspectives of a variety of urban historians, planners and architects, social scientists, social critics, and futurists, including Olmsted, Mumford, Jane Jacobs, Anthony Downs, and others. Students will critically assess and evaluate each author's views of cities, as a way for each student to develop her/his own perspective about what a "good city" might be.

058 [006E] First-Year Seminar: Globalization and the Transformation of Local Economies (3). Using directed readings, participative class exercises, and cases that cut across developed and developing countries, this seminar will focus on how global pressures and economic integration is changing local economies.

246 [046] Cities of the Future (3). Introduction to the evolution of cities in history, to the concept of urban morphology or form, and to the different elements or subsystems of the urban system and how they have changed over time.

247 [047] Solving Urban Problems (3). Introduction to methods used for solving urban problems. Covers methods employed in sub-fields of planning to develop an ability to critically evaluate different techniques and approaches used within these disciplines.

248 [048] Planning Workshop (3). Working with state and local government agencies and nonprofit organizations, students synthesize knowledge and skills in the preparation of an issue paper that addresses the causes of and potential solutions to community problems.

260 [073] Urban Politics and Public Policy (PLCY 260) (3). A selection of public policy topics on the current urban agenda, with a focus on the political context. Particular stress on policy alternatives, feasibility, implementation, and the division of responsibility and coordination among levels of government and the public and private sectors.


326 [081] Social Venture Creation (ECON 326) (3). Prerequisite, ECON 325. Continues training in marketing, finance, strategy, operations, public/community relations. Focuses on entrepreneurial enterprises, programs, or sustainable projects intended to create social value and promote positive social change.

491 [246] Introduction to Geographic Information Systems (GEOG 491) (3). Prerequisite GEOG 370. Stresses the spatial analy-
sis and modeling capabilities of organizing data within a geographic information system (GIS).

499 [110] Experimental Course Undergraduate (1-21). The functioning of the urban area as a complex system. Analysis of planning and policies aimed at development and change. The course is generally taken for 3 credits.

526 Principles of Public Finance for Planning and Policy (PLCY 526) (1.5). Provides the foundation of state and local government finance necessary to understand new developments in the provision of infrastructure for economic development.

527 Applied Public Finance for Infrastructure and Economic Development (PLCY 527) (1.5). Explores the role of infrastructure in economic development, including innovations in finance, management, and technology. Covers traditional and knowledge infrastructure. Addresses trade-offs between environmental protection and economic growth.

550 Evolution of the American Urban Landscape (3). Examines shaping the urban built environments of the United States from the colonial era to present day. Critically examines forces that shaped our cities, and studies the values, ideals, and motivations underlying efforts to plan and direct physical development of American cities.

574 Political Economy of Poverty and Inequality (3). Introduces students to the political economy of poverty alleviation programs. Uses comparative cases to explore what types of projects, tasks, and environments lead to effective and equitable outcomes, and why.

585 [185] American Environmental Policy (ENST 585, ENVR 585, PLCY 585) (3). Intensive introduction to environmental management and policy, including environmental and health risks, policy institutions, processes, and instruments, policy analysis, and major elements of American environmental policy. Lectures and case studies.

591 Applied Issues in Geographic Information Systems (GEOG 591) (3). Prerequisite, GEOG 370 or GEOG 491, or equivalent. Applied issues in the use of geographic information systems in terrain analysis, medical geography, biophysical analysis, and population geography. (GISc)

636 [126] Urban Transportation Planning (3). Fundamental characteristics of the urban transportation system as a component of urban structure. Methodologies for the analysis of transportation problems, planning urban transportation, and the evaluation of plans.

637 [127] Public Transportation (3). Alternative public urban transportation systems including mass transit, innovative transit services, and paratransit, examined from economic, land use, social, technical, and policy perspectives.

641 [141] Ecology and Land Use Planning (3). Integration of the structure, function, and change of ecosystems with a land use planning framework. How land use planning accommodates human use and occupancy within ecological limits to sustain long-term natural system integrity.


662 [142] Gender Issues in Planning and Development (WMST 662) (3). Prerequisite, permission of the instructor required for undergraduates. Examination of the environmental and health risks, policy institutions, processes, instruments, policy analysis, and major elements of American environmental policy. Lectures and case studies.

685 [219] Water and Sanitation Planning and Policy in Developed Countries (ENVR 685) (3). Prerequisite, permission of the instructor. Seminar on policy and planning approaches for providing improved community water and sanitation services in developed countries. Topics include the choice of appropriate technology and level of service, pricing, metering, and connection charges; cost recovery and targeting subsidies to the poor; water vents; community participation in the management and operation of water systems; and rent-seeking behavior in the provision of water supplies.

686 [186] Policy Instruments for Environmental Management (ENST 686, ENVR 686, PLCY 686) (3). Design of public policy instruments as incentives for sustainable management of environmental resources and ecosystems, and comparison of the effects and effectiveness of alternative policies.

691H [099] Honors Seminar in Urban and Regional Studies (3). Prerequisite, permission of instructor. An overview of the subject matter and methods of investigation for the study of cities and regions. Presentations of original papers prepared by students.

697 [270] International Development and Social Change (3). Prerequisite, permission of instructor. Course explores (a) the global economy on national and community development, and (b) the effects of environmental degradation on development, and (c) explores strategies to guide social change.

Department of Classics
www.classics.unc.edu

JAMES J. O'HARA, Chair

Professors

Associate Professors
Donald C. Haggis, Sharon James, Peter M. Smith, Nicola Terrenato.

Assistant Professors
Brooke Holmes, Maura Lafferty, Werner Riess, Monika Truemper.

Professors Emeriti

Introduction
Classics is the study of the ancient Greek and Roman world, the Greek and Latin languages and literature, and the history, art and culture that have been fundamental in shaping modern society. A genuine understanding of the past can be gained only through a wide-ranging approach, encompassing words, thoughts, events and objects. For this reason, the field of classical studies is interdisciplinary in nature.
Programs of Study

The degree offered is bachelor of arts in classics. Students may choose to concentrate in any one of five areas of study in the Department of Classics: classical archaeology, classical civilization, Greek, Latin, and combined Greek and Latin. Minors are offered in Greek, Latin, classical humanities, medieval studies and archaeology. Certain conditions apply to the minors in Greek and Latin. The minor in either classical language may not be used as an option for majors in classical archaeology who have chosen that language (Greek or Latin) to fulfill degree requirements (four courses beyond level 2). However, classical archaeology majors may elect a minor in the other classical language. Similarly, majors in classical civilization who are required to complete through level 4 in either Greek or Latin may elect a minor in the other classical language but not in the one used to satisfy degree requirements in the major.

Majoring in Classics: Bachelor of Arts

Classical Archaeology

This concentration focuses on the material remains of prehistoric and classical antiquity, while also providing a background in civilization, history and at least one classical language. The program of study is designed to give students a basic knowledge of the art and architecture of the Greeks and Romans and to introduce them to the use of archaeology in the reconstruction of the past, including Egypt and the ancient Near East. Students interested in majoring in classical archaeology should consult the department as early as possible. The requirements for the major are CLAR 244 (Greek Archaeology) and CLAR 250 (Archeology of Italy); CLAR 411 (Archaeological Field Methods) or ANTH 220 (Principles of Archaeology); four additional courses in classical archaeology, including two numbered between 400 and 699 (CLAR 120 may not be used to satisfy this requirement); GREK or LATN up to 204 or 205; HIST 225 (History of Greece) or HIST 226 (History of Rome); CLAS 391 (Junior Seminar). Classical archaeology majors may elect a minor in the classical language not chosen for the major concentration.

Classical Civilization

This major is designed to provide students with a broad, basic knowledge of the classical world and with skills in analysis, written and oral communication, and logical argument that will be applicable in any profession. The civilization program is not designed to lead to graduate work in classics, although students do sometimes go on in the field, and it is often taken as part of a double major. Students considering a major in classical civilization should consult the department as soon as possible. The requirements for the major are GREK or LATN 101-102 and 203-204 (GREK or LATN 205 may be taken in place of 204); four of the five core courses: CLAS 253 (Age of Pericles); CLAS 254 (Alexander and the Age of Hellenism) or HIST 421 (Alexander); CLAS 257 (Age of Augustus) or HIST 425 (Roman History); CLAS 258 (Age of the Early Roman Empire) or HIST 427 (Early Roman Empire); CLAS 259 (Christians and Pagans in the Age of Constantine); three additional courses chosen from Greek, Latin, ancient history, ancient philosophy, any classical archaeology or classics course(s) numbered above 259; CLAS 391 (Junior Seminar). Majors in classical civilization who are required to complete through level 204 in either Greek or Latin may elect a minor in the other classical language but not in the one used to satisfy degree requirements in the major.

Greek

The goal of the concentration in Greek is the development of a basic command of the language and a solid knowledge of the literature, history and culture of the Greeks. Students interested in an undergraduate major in Greek or in a combined major in Greek and Latin should consult the Department of Classics by the second semester of the sophomore year. Requirements for the major are GREK 101-102 and 203-204 (GREK 205 may be taken in place of 204) and five additional courses in Greek; HIST 225 (History of Greece) or a course numbered 400 or above in Greek history; CLAS 391 (Junior Seminar). For Greek as satisfying the language requirement for the B.A. degree, see the General Education section of this Bulletin.

Latin

The goal of the concentration in Latin is the development of a basic command of the language and a solid knowledge of the literature, history and culture of the Romans. Students interested in an undergraduate major in Latin or a combined major in Latin and Greek should consult the department by the second semester of the sophomore year. Requirements for the major are LATN 101-102 and 203-204 (LATN 205 may be taken in place of 204) and six additional courses in Latin; HIST 226 (History of Rome) or a course numbered 400 or above in Roman history; CLAS 391 (Junior Seminar). For Latin as satisfying the language requirement for the B.A. degree, see the General Education section of this bulletin.

Combined Greek and Latin

This is not a double major, but a concentration designed to develop facility in both ancient languages and in the literatures of both Greece and Rome. This program is recommended for students who have a strong interest in continuing classical languages at the graduate level. In this major students emphasize one language yet acquire facility in the other.

- Greek Emphasis: GREK 101-102 and 203-204, and five more Greek courses; LATN 101-102 and 203-204, and three further Latin courses. (Note: GREK or LATN 205 may be taken in place of 204.) CLAS 391 and HIST 225 or 226 also are required.
- Latin Emphasis: LATN 101-102 and 203-204, LATN 221, and four more Latin courses; GREK 101-102 and 203-204, and three further Greek courses. (Note: GREK or LATN 205 may be taken in place of 204.) CLAS 391 and HIST 225 or 226 also are required.

Minoring in Greek

The undergraduate minor in Greek consists of four courses in Greek, including GREK 204 (intermediate Greek) or GREK 205 (New Testament) and three courses numbered 206 or higher. The minor in Greek may not be used as an option for majors in classical archaeology who have chosen that language to fulfill degree requirements in that major (four courses beyond level 102).

Minoring in Latin

The undergraduate minor in Latin consists of four courses in Latin, including LATN 204 and four additional courses in Latin beyond that level. The minor in Latin may not be used as an option for majors in classical archaeology who have chosen that language to fulfill degree requirements in that major (four courses beyond level 102).
Minoring in Classical Humanities
The undergraduate minor in classical humanities consists of five courses: CLAS 131 (Mythology); CLAS 121 (The Greeks) or CLAS 122 (The Romans); two classics courses numbered above 132 or any course(s) in Greek or Latin language; CLAR 244 (Greek Archaeology) or CLAR 245 (Archaeology of Italy).

Minoring in Medieval Studies
The department also serves as home to an interdisciplinary minor in medieval studies. This minor consists of five courses, distributed across three departments, chosen according to the needs and interests of the student in consultation with the advisor. The five courses need to include one of the following core courses: ENGL 319, HIST 107, or HIST 227. For further information and to register, please contact the advisor for the minor in medieval studies in the Department of Classics.

Minoring in Archaeology
The minor in archaeology draws on a number of disciplines and departments - principally anthropology, classics and art - in the study of the ancient world, the reconstruction of past lifeways, and the interpretation of ancient social, political and economic systems. The minor consists of five courses: two core courses (no more than one of which can be a field school), one comparative course, one area studies course and one topical course. The courses used to satisfy these requirements must come from at least two departments. At least one of the courses used to fulfill the minor’s requirements must be numbered 300 or above.

Core Courses (choose two, no more than one of which is a field school): ANTH 220, 451, 453; CLAR 411, 650
Comparative Courses (choose one): ANTH 120, 145, 148, 412, 456, 468; CLAR 120
Area-Studies Courses (choose one): ANTH 231, 350, 359; CLAR 75 (first year students only), 243, 241, 244, 245, 262, 375, 464, 465, 475, 488, 781; RELI 110
Topical Courses (choose one): ANTH 143, 252, 411, 413, 414, 415, 416, 417, 418, 452, 455, 456, 458, 460; CLAR 75 (first year students only); RELI 512.

The minor helps prepare students for graduate study in archaeological, classical and cultural resource management and historical preservation. It also provides any student with a strong intellectual interest in archaeology with a structured introduction to this field. Students interested in the minor in archaeology may contact Donald Haggis, director of undergraduate studies, and consult the Web site: ria.unc.edu/Teaching/ArchMinor.html.

Honors in Classics
Classics majors wishing to take part in the departmental Honors Program during their senior year must have a grade point average of at least 3.2 at the beginning of their senior year and maintain an average no lower than this through their final semester in order to be eligible for honors consideration.

The program consists of two courses, CLAS 691H and CLAS 692H, taken sequentially in the fall and spring semesters. CLAS 691H involves a directed reading in Greek, Latin or archaeology in a general area of the student’s interest and is conducted under the supervision of a faculty member chosen by the student to serve as the honors advisor. Requirements of the course include the preparation of a thesis prospectus with accompanying bibliography and a preliminary oral examination by the student’s thesis committee. A grade for CLAS 691H is assigned on the basis of the total semester’s work. CLAS 692H entails the writing of the thesis under the direction of the honors advisor and a final oral defense before the candidate’s committee. This body, in turn, reports its judgment to the department. If a degree with honors is to be awarded, a recommendation for either honors or, for particular merit, highest honors is made.

Special Opportunities in Classics

Departmental Involvement
The Department of Classics supports a number of activities, including informal reading groups, the UNC Classics Club - the principal student-run organization, and annual oral performances and competitions in recitation and translation of Greek and Latin texts.

Experiential Education
Students in the Department of Classics participate in archaeological field work as research assistants, as part of independent or directed study toward the completion of a senior honors thesis or as Fulbright scholars.

Study Abroad
Students are encouraged to apply to study in Rome at the Intercollegiate Center for Classical Studies or at the American Academy, or in Athens at the College Year in Athens or at the American School Summer Program. Certain University scholarships may be used to help fund study abroad (see also The Nims Scholarship, below).

- Field Schools: The department runs two field schools, one at Azoria (Cretan) and the other in the Cecina Valley (Tuscany). In addition, UNC Classics students have joined excavations - as volunteers or trench supervisors - at Agaba on the Red Sea in Jordan, Caesarea in Israel, in the Athenian Agora or in the ancient Roman town of Pompeii.
- The Intercollegiate Center for Classical Studies in Rome (www.ias.duke.edu/study_abroad/iccscs/iccscs.html). The department is a founding member of the ICCS and regularly sends students there for a semester. The ICCS offers a program of study in Latin, Greek, archaeology, art history, ancient history and Italian for juniors and first semester seniors. Students attend for one semester.
- College Year in Athens (www.cyathens.org/cya): The department regularly sends undergraduate students to summer, semester and year-long programs at the CYA in Athens, Greece. CYA offers a variety of courses in Greek and Latin, classics, archaeology, Aegean prehistory, Greek and Mediterranean history, Greek anthropology, architecture, religion, ancient art, and modern Greek language and literature. The year and semester programs consist of numerous trips to sites around mainland Greece, Crete and the Aegean, as well as a number of regular courses actually taught on site or in Greek museums.

- The American School in Athens (www.asaaca.org). The American School in Athens offers summer programs in December. The American School in Athens offers a program that provides the Vergilian Society of America.

Undergraduate Awards
Several prizes are available to undergraduate majors, including the Herington Prize (recitation of Greek and Latin poetry and prose), the Nims Scholarship (need based aid through the Student
Aid Office), the Albert Suskin Prize in Latin, the Eben Alexander Prize in Greek, the Herington Scholarship, the Epps Prize in Greek Studies and the Manson A. Stewart Scholarship.

Undergraduate Research
Classics majors may choose to write an honors thesis during their senior year. The research topic is customarily selected in the spring semester of the junior year, in consultation with the student's advisor and the director of undergraduate studies. The subject is usually derived from areas explored in advanced coursework, allowing a more detailed and in-depth examination of the topic. For a list of past senior theses, see the departmental Web site (www.classics.unc.edu/ugradresearch.html).

Master of Arts in Teaching in Latin
Students who wish to be certified to teach in public high schools should major in Latin and then apply for admission to the MAT program in the School of Education. They also should discuss their plans with the School of Education no later than their junior year.

Graduate School and Career Opportunities
The undergraduate curriculum prepares majors for specialized graduate study in classical studies: classical philology, comparative literature, archaeology (prehistoric, classical and Byzantine), medieval studies, philosophy, art history, ancient history or linguistics. While graduating students continue to pursue professional and graduate programs in the humanities and social sciences, they also utilize their skills in a diversity of professions such as field archaeology, art, conservation and cultural resource management, among others. Graduating majors (and double majors and minors) have pursued degree programs and careers in a variety of other fields such as law, medicine, physics, museology, high-school teaching, anthropology, archaeological conservation, contract archaeology, Latin American studies, Egyptology, theology and poetry.

Contact Information
Questions and requests regarding degree tracks and programs should be directed to Donald Haggis, Director of Undergraduate Studies, CB# 3145, 226 Murphey Hall, (919) 962-7640, dchaggis@email.unc.edu.

CLAR Classical Archaeology
050 First-Year Seminar: Art in the Ancient City (3). The course offers a comparative perspective on the archaeology of ancient Egypt and Bronze Age Greece (3000-1100 B.C.) exploring the public art produced by these two early Mediterranean societies: the Aegean Bronze Age palace centers of Crete and Mainland Greece and the territorial state of ancient Egypt.

075 [006] First-Year Seminar: The Archaeology of Death in the Ancient Mediterranean (3). This course explores the archaeology of ancient Mesopotamia, Egypt and Greece by focusing on cemeteries, methods of burial, the treatment of the dead, burial rituals, post-burial cults, curses and curse tablets, and human sacrifice.

076 [006] First-Year Seminar: Art in the Ancient City (3). This course offers a comparative perspective on the archaeology of ancient Egypt and Bronze Age Greece (3000-1100 B.C.) exploring the public art produced by these two early Mediterranean societies: the Aegean Bronze Age palace centers of Crete and Mainland Greece and the territorial state of ancient Egypt.

110 [028] First-Year Seminar: The Archaeology of Palestine in the New Testament Period (JWST 110, RELI 110) (3). This course surveys the archaeology of Palestine (Modern Israel and Jordan) from the Persian Period (ca. 586 B.C.) to the Muslim Conquest (640 A.D.).

120 [020] Ancient Cities (3). An introduction to Near Eastern and classical archaeology through study of representative cities from Neolithic times to the period of the Roman Empire. May not be used to help satisfy the degree requirements for the major in classical archaeology.

241 [047] Archaeology of Ancient Near East (3). A survey of the cultures of the ancient Near East, Mesopotamia, Anatolia (modern Turkey) and the Levant, from the first settled villages of the ninth millennium to the Persian conquest of Babylon in 539 B.C.

242 [048] Archaeology of Egypt (3). A survey of the archaeological remains of ancient Egypt, from the earliest settlements of the neolithic period until the second century B.C.

243 [041] Minoans and Mycenaeans: The Archaeology of Bronze Age Greece (3). The course is a survey of the material culture of Greece, the Cyclades and the eastern Mediterranean from the neolithic period (ca. 50,000 years ago) until the end of the Bronze Age (ca. 1200 B.C.). The primary focus will be the urbanized palatial centers that emerged in mainland Greece (Mycenaean) and the island of Crete (Minoan) in the second millennium B.C.

244 [049] Greek Archaeology (3). The historical development of the art and architecture of Greece from the Bronze Age through the Hellenistic period.

245 [050] Archaeology of Italy (3). The historical development of the Italian peninsula as seen in its physical remains, with emphasis upon Etruscan and Roman sites.

246 [051] History of Early Christian and Byzantine Art (3). An introduction to the history of Christian art in Italy and the eastern Mediterranean from the time of Constantine (c. 300) to the end of the Byzantine Empire (fall of Constantinople in 1453). Major monuments and art forms will be studied with an emphasis on their historical and cultural context.


263 [078] Roman Art (ART 263) (3). The arts of Rome, particularly architecture, sculpture and painting, proceeded by a survey of Etruscan and Hellenic art and their influence on Rome.

375 [075] The Archaeology of Cult: The Material Culture of Greek Religion (RELI 317) (3). This course examines the archaeological context of Greek religion, cults and associated rituals from the Bronze Age until the Hellenistic period with emphasis on urban, rural and panhellenic sanctuaries, and methods of approaching ancient religion and analyzing cult practices.

411 [111] Archaeological Field Methods (3). Systematic introduction to archaeological field methods, especially survey and excavation techniques.

440 [140] Problems in the History of Classical Ideas (3 each). Prerequisite, permission of the department.

445 [148] Art in the Age of Justinian and Theodora (3). Prerequisite, any course in history, art history, classics, or permission of instructor. Interdisciplinary course is based on monuments, history and contemporary writings of the Byzantine empire during the rule of Justinian I (527 - 565) and the empress Theodora (527 - 548).
Approach will be comparative, analytical, and contextual, and will include a feminist.

448 [149A] Constantinople: The City and Its Art (3). Prerequisite, any course in history, art history, classics, or permission of instructor. Interdisciplinary study of the city of Constantinople, capital of the Byzantine empire from 325 to 1453, with emphasis on the artistic, social, and cultural context. Includes study of monuments and their decoration, objects, contemporary documents and sources, all within a chronological, historical framework.

449 [149B] In Constantinople (3). Prerequisite, CLAR 448 or permission of instructor. This course, taught primarily in Istanbul, once Constantinople, capital of the Byzantine empire 325-1453, provides first-hand experience with monuments and an overview of the history, topography and culture of this great city.


464 [190] Greek Architecture (ART 464) (3). Prerequisite, CLAR 244 or permission.


475 [192] Rome and the Western Provinces (3). Survey of the material remains of the Western provinces of the Roman Empire, with attention to their historical and significant place.

488 [188] The Archaeology of the Near East in the Iron Age (3). Prerequisite, CLAR 241 or permission. A survey of the principal sites, monuments and the art of the Iron Age Near East, ca. 1200 to 500 B.C.

489 [189] The Archaeology of Anatolia in the Bronze and Iron Ages (3). Prerequisite, CLAR 242 or permission. A survey of Anatolian archaeology from the third millennium through the sixth century B.C.

512 [110] Ancient Synagogues (JWST 512, RELI 512) (3). Prerequisite, RELI 110 or consent. This course is a course on ancient synagogues in Palestine and the Diaspora from the Second Temple period to the seventh century A.D.

561 [182] Mosaics: The Art of Mosaic in Greece, Rome and Byzantium (3). Prerequisite, any course in classics, art history or religious studies. Traces the development of mosaic technique from Greek antiquity through the Byzantine Middle Ages as revealed by archaeological investigations and closely analyzes how this dynamic medium conveyed meaning.

650 [153] Field School in Classical Archaeology (6). This course is an introduction to archaeological field methods and excavation techniques. For a period of five and one-half weeks, the student will participate in all aspects of archaeological fieldwork. The purpose is to allow the student to work directly with field archaeologists and specialists in the field and to do the actual digging and data processing, while reflecting on the broader aims of archaeological research.

CLAS Classics in English/Classical Civilization

053 [006M] First-Year Seminar: Famous Courtroom Trials of Antiquity (3). This first-year seminar will look at speeches delivered in some of the most famous trials of antiquity. Students will examine the facts of the case, the laws relevant to it, legal procedure used in the ancient world, and, most importantly, how the speaker presents his case, including types of argument, structure of speeches and stylistic considerations.

054 [006M] First-Year Seminar: Crime and Violence in the Ancient World (3). Crime and violence are all too familiar aspects of modern Western societies. Movies like "Gladiator" or "The Passion of the Christ" suggest that Greek and Roman civilization were nothing but gory. This first-year seminar will challenge this view and approach this topic from various perspectives. By reading sources in translation students will investigate what forms of violence were common.

055 [006M] First-Year Seminar: Three Greek and Roman Epics (3). This first-year seminar will involve a close reading of Homer's "Iliad" and "Odyssey" and Vergil's "Aeneid," and as a transition from Homer to Vergil, students will also read the tragedies of Sophocles from fifth-century Athens.

056 [006M] First-Year Seminar: Women and Men in Euripides (3). What can be learned from Greek tragedy about human nature? This first-year seminar will serve, first of all, as an introduction to Euripidean drama in its cultural and historical setting in fifth-century Athens.

058 [006M] First-Year Seminar: What's So Funny? Women and Comedy from Athens to Hollywood (3). This first-year seminar will consider what Greeks and Romans found funny, as well as how that humor translated (or not) into modern America. Students will write and present publicly a short comic play that represents the themes they identify and study in this seminar.

059 [006M] First-Year Seminar: Plutarch and the Roots of Modern Biography (3). This first-year seminar is an investigation into the telling of lives: the methods, purposes and characteristics of biographies both ancient and modern.

060 [006M] First-Year Seminar: Love, War, Death and Family Life in Classical Myth (3). This first-year seminar studies parent-child relations, gender dynamics and conflict in mythic families. Students will study these mythic families, looking especially at parent-child relations, gender dynamics and conflict; the seminar will ask what aspects of ancient culture are revealed by these legends and stories.

062 Barbarians in Greek and Roman Culture (3). A study of Greek and Roman depictions of non-Greeks and non-Romans in both literary and visual sources, with consideration of their origin, development and social roles.

064 [006K] First-Year Seminar: Cinema and the Ancient World (3). In this first-year seminar, students will investigate what films set in classical Roman antiquity say about contemporary culture, and will also attempt to understand their impact on the shaping of our sense of history.

065 [006K] First-Year Seminar: The City of Rome (3). This first-year seminar is an introduction to the history and art of the city of Rome from antiquity through the present. Students will survey the entire period, but will look in particular at four specific periods
in the city's life: the early second century AD (the height of the Roman Empire); the early ninth century AD (the Middle Ages; Charlemagne); the early 15th century (the Renaissance; Raphael, Michelangelo and the new St. Peter's); and the last 15 years, from about 1990 to the present.

065 First-Year Seminar: Plutarch and Modern Biography (3). This course is an investigation into the telling of lives: the methods, purposes and characteristics of biographies both ancient and modern.

066 [066K] First-Year Seminar: Sailing to Byzantium (3). This first-year seminar will explore selected aspects of Byzantium as hinted at in W.B. Yeats' famous poem, "Sailing to Byzantium" (1927) such as: icons, goldsmithing, monasticism, poetry, mosaics and people of the imperial court.

071 [006G] First-Year Seminar: The Architecture of Empire (3). The goal of the first-year seminar will be to examine the architecture of ancient empires, beginning with that of Egypt and ending with the Roman Empire. Analysis will be particularly concerned with the use of architecture as an instrument of empire.

072 [006G] First-Year Seminar: Greek and Roman Education (3). This first-year seminar introduces students to forms of education in Greek and Roman antiquity, including education practices from early childhood to higher education.

073 [006G] First-Year Seminar: Life in Ancient Pompeii (3). A study of this well-preserved ancient site provides an understanding of life in an Italian town during the early Roman empire. Students will study town planning, architecture, the arts, social organization, politics, entertainment, artisanry, commerce and family life in this first-year seminar.

111 [011] Grammar (1). This course provides a systematic review of English grammar and style for students of Latin and Greek.

121 [020] The Greeks (3 each). Introduction to the history, literature, religion, philosophy, science, art and architecture of Greece from Homer to Alexander the Great. Emphasis on primary sources.

122 [021] The Romans (3 each). A survey of Roman civilization from the beginning to the late empire, dealing with history, literature, archaeology, philosophy and religion, technology, the economy, and social and political institutions.

125 [026] Word Formation and Etymology (3). Systematic study of the formation of words from Greek or Latin to build vocabulary and recognition. For medical terminology see CLAS 126.

126 [025] Medical Word Formation and Etymology (3). Systematic study of the formation of medical terms from Greek and Latin roots, to build vocabulary and recognition. For general etymology see CLAS 125.

131 [077] Myth, Story and Belief in Greek Literature (3 each). An introduction to myth, heroic lore and religion through the study of major works of Greek literature. Core readings: Homer, Hesiod and selections from tragic drama.

231 [031] The Theater in the Greek and Roman World (3). The physical setting and techniques of classical theater: tragedy, comedy and other public spectacles in Greece and Rome.

240 [051] Women in Greek Art and Literature (WMST 240/WMST 240H) (3 each). Course examines law, religion, medicine, social practices and ideologies in the lives of women in ancient Greece, from Homer to Hellenistic Egypt, using literature, art and epigraphy.

241 [053] Women in Ancient Rome (WMST 241/WMST 241H) (3 each). Course examines the life of women in ancient Rome, from the first beginnings of the organized community in Rome through the early Empire, a period of about 900 years. Also explores aspects of the lives of women in provinces governed by Rome.

242 [042] Sex and Gender in Antiquity (WMST 242) (3). Exploration of gender constructs, what it meant to be a woman or a man, in antiquity, as revealed in literary, historical and archaeological sources. Readings from Homer, Euripides, Plato, Ovid, Virgil, Juvenal, Petronius and other ancient authors.

245 [045] Women of Byzantium (WMST 245) (3). A study of women's roles and influence in the Late Antique and Byzantine world, through analysis of contemporary Byzantine texts by and about women, historical testimonies and works of art.

253 [033] The Age of Pericles (3 each). An introduction to classical civilization through study of its most important period in Greece. Attention to history, philosophy and art. Lecture and discussion.

254 [034] Alexander and the Age of Hellenism (3). An introduction to classical civilization through study of the period in which it spreads beyond mainland Greece to influence and partially merge with the cultures of the Near East, Egypt and Rome. Attention to history, literature, philosophy and art. Lectures and discussion.

257 [035] The Age of Augustus (3 each). An introduction to classical civilization through study of the literature, history and art of one of the most crucial periods in Roman history. Lectures and discussion.

258 [036] The Age of the Early Roman Empire (3). An introduction to the civilization of the Roman Empire through study of the literature, history and archaeology of its most colorful period.

259 [037] Pagans and Christians in the Age of Constantine (3). Introduction to the literature and culture of the time of the Roman Emperor Constantine. Special attention to the fundamental cultural and social changes resulting from the Christianization of the Empire.


265 [044] Technology and Culture in the Roman Empire (3). A survey of the state of technology in Rome during the first three centuries A.D. Consideration of the interrelationships of technology and government, art, economics and the quality of life.

269 [069] Representations of Cleopatra (CMPL 269, WMST 269) (3). Study of the life of Cleopatra and how her story has been reinvented in postclassical societies, often as a mirror image of their own preoccupations, in literature, art, movies and opera.

361 [061] Homer and the Heroic Age of Greece (3). The Iliad, the Odyssey. Hesiod, heroic and oral poetry. The archaeology of Homeric Greece, the study and influence of the Homeric poems in modern times.

363 [063] Latin and Greek Lyric Poetry in Translation (3). Introduction to the lyric and elegiac poetry of antiquity in English translation, including Hesiod, Sappho, Catullus, Ovid and Horace.


390 [091] Topics in Classical Studies (3). Students may suggest to the chair of the department topics for individual or group study. Advance arrangements required.

391 [090] Junior Seminar (3). Prerequisite, junior standing. All departmental majors will jointly explore the history, archaeology, art and literature of one or more geographical regions of the Mediterranean. Several oral and written reports; seminar format.

409 [109] Historical Literature Greek and Roman (3). The study in English translation of selections from Herodotus, Thucydides, Livy, Tacitus and others, with consideration of their literary qualities and their readability as historians.

415 [115] Roman Law (3). Introduction to Roman Law, public and private. On the basis of Roman texts in translation (or the original if desired), consideration of (a) the principles of Roman constitutional law and (b) the legal logic and social importance of Roman Civil Law.

418 [118] Byzantine Civilization (3). Introduction to Intellectual and social history of the Byzantine Empire from Justinian to 1453, noting the interaction of classical and Christian culture and Byzantium's influence on neighboring peoples and on the Renaissance.

540 [140] Problems in the History of Classical Ideas (3 each). Prerequisite, permission of the department.

547 [147] Approaches to Women in Antiquity (3). Prerequisite, instructor approval. Graduate students and senior classics majors. Intensive interdisciplinary introduction to women in antiquity, using literary, historical and visual materials.

691H [097] Honors Course (3 each). Honors course for departmental majors in classical archaeology, classical civilization, Greek and Latin.

Grek Greek

101 [001]/102 [002] Elementary Classical Greek (4 each). Comprehensive coverage of basic grammar and syntax in two semesters, preparing students for reading Plato or Xenophon in GREK 203 (and with instructor's permission New Testament Greek in GREK 205).

121 Elementary Modern Greek (4). The course introduces the essential elements of structure, vocabulary of the modern Greek language and aspects of Greek culture. Aural comprehension, speaking, reading and writing are stressed in that order. It continues with the proficiency-based instruction, with emphasis on further development and refinement of speaking, listening, reading and writing skills including a review and continuation of grammar.

122 Elementary Modern Greek (4). Continuation of GREK 121.

203 [003]/204 [004] Intermediate Greek (3 each). Prerequisite, GREK 101-102 or equivalent. Review of fundamentals; reading in selected classical texts, such as Xenophon, Plato, Euripides or others.

205 [005] Greek New Testament (3). Prerequisite, GREK 203 or equivalent.

221 [021] Advanced Greek I (3). Substantial readings from Homer's Iliad or Odyssey, the remainder of the selected poems to be read in translation.

222 [022] Advanced Greek II (3). Readings from one or more Greek Tragedies.

351 [051] Classical Greek Prose (3). Prerequisite, GREK 221. Readings in Herodotus, Thucydides, Plato or other authors. With permission of the department, this course may be repeated for credit.

352 [052] Greek Poetry (3). Prerequisite, GREK 222. Readings in Sappho, Aeschylus and other authors. With permission of the department, this course may be repeated for credit.

396 [091] Special Readings in Greek Literature (3). Prerequisite, GREK 222.

409 [458] Greek New Testament (3). Prerequisite, GREK 221 or equivalent. On application by five or more students.

506 [726] Greek Dialects (3). Prerequisite, permission of the instructor. Survey of the major dialects of Classical Greek and study of their derivation from Common Greek. Texts include both literary and epigraphical sources from the eighth century BCE to the Hellenistic Period.

507 [107] Greek Composition (3). Prerequisite, GREK 221.

508 [108] Readings in Early Greek Poetry (3). Prerequisite, GREK 221 or GREK 222.

509 [109] Readings in Greek Literature of the Fifth Century (3). Prerequisite, GREK 221 or GREK 222.

510 [110] Readings in Greek Literature of the Fourth Century (3). Prerequisite, GREK 221 or GREK 222.

540 [140]/541 [141] Problems in the History of Classical Ideas (3 each). Prerequisite, permission of the department.

LATN Latin

101 [001]/102 [002] Elementary Latin (4 each). The basic elements of Latin grammar, practice in reading and writing Latin, introduction to Roman civilization through a study of the language of the Romans.

111 [013] Accelerated Beginning Latin (4). Prerequisites, permission of the instructor and the director of the elementary Latin program. Taught in conjunction with 601 in the fall and independently in the spring. Undergraduates accelerate through Latin grammar, acquiring in a single semester the material covered in LATN 101 and LATN 102 - that is, introductory grammar as presented in Wheelock's Latin. Students meet for a fourth session, which is dedicated to Latin prose composition. Students who successfully complete the course may enter either LATN 203 or LATN 212. Course can be counted toward the fulfillment of the language requirement.

203 [003]/204 [004] Intermediate Latin (3 each). Review of fundamentals. Reading in selected texts such as Catullus, Ovid, Cicero or others.
205 [005] Medieval Latin (3). Prerequisite, LATN 203 or equivalent.

212 [014] Accelerated Intermediate Latin (4). Prerequisites, LATN 102 or LATN 111 and permission of the director of the intermediate Latin program. Taught in conjunction with 602 in the spring. Undergraduates reinforce their understanding of Latin grammar, increase their vocabulary and improve their skills in reading and translation. Students meet for a fourth session, which is devoted to grammar, style and poetry.


222 [022] Cicero: The Man and His Times (3). Prerequisite, LATN 204 or placement. Careful reading of selected works of Cicero, exercises in Latin composition.

331 [031] Roman Historians (3). Prerequisite, LATN 221. Readings in Caesar, Sallust and/or Livy.

332 [032] Roman Comedy (3). Prerequisite, LATN 221. Readings in Plautus and Terence, or both.

333 [033] Lyric Poetry (3). Prerequisite, LATN 221. Reading in Catullus and Horace.

334 [034] Augustan Poetry (3). Prerequisite, LATN 221. Reading in Ovid, Tibullus, Propertius or other poets.

335 [035] Roman Elegy (3). Prerequisite, LATN 221 or permission of instructor. This course studies Ovid, Propertius and Tibullus, focusing on themes such as love, male-female relations, politics, war, Roman culture and poetry itself.

351 [051] Lucretius (3). Prerequisite, LATN 221. Reading in Lucretius and related works.

352 [052] Petronius and the Age of Nero (3). Prerequisite, LATN 221.

353 [053] Satire (Horace and Juvenal) (3). Prerequisite, LATN 221.

354 [054] Tacitus and Pliny’s Letters (3). Prerequisite, LATN 221.

396 [091] Special Readings in Latin Literature. Prerequisite, LATN 221 or permission of instructor.

510 [110] Introductory Latin Composition (3). Prerequisite, LATN 222 or the equivalent. Review of Latin grammar and idiom, exercises in composition, introduction to stylistics.

511 [111] Readings in Latin Literature of the Republic (3). Prerequisite, LATN 221 or LATN 222.

512 [112] Readings in Latin Literature of the Augustan Age (3). Prerequisite, LATN 221 or LATN 222.

513 [113] Readings in Latin Literature of the Empire (3). Prerequisite, LATN 221 or LATN 222.

514 [114] Readings in Latin Literature of Later Antiquity (3). Prerequisite, LATN 221 or LATN 222 or the equivalent.

530 [130] An Introduction to Medieval Latin (3). Prerequisite, LATN 221 or LATN 222, or equivalent. Survey of Medieval Latin literature from its beginnings through the high Middle Ages.

540 [140]/541 [141] Problems in the History of Classical Ideas (3 each). Prerequisite, permission of the department.

Department of Communication Studies
comm.unc.edu

DENNIS K. MUMBLY, Chair

Professors

Associate Professors
Cori Dauber, Kenneth Hillis, D. Soyini Madison, Steven K. May, Patricia Parker, Francesca Talenti, Michael S. Waltman, Eric K. Watts.

Assistant Professors

Adjunct Professors

Lecturer
Stephan Neigher.

Professors Emeriti
Elizabeth Czech-Beckerman, Howard D. Doll, Robert J. Gwyn, William M. Hardy, Beverly Whitaker Long, James W. Pence Jr.

Introduction
The study of communication is essential for participating in an increasingly complex and mediated global environment. Through its teaching, research, and service, the Department of Communication Studies addresses the many ways communication functions to create, sustain, and transform personal life, social relations, political institutions, economic organizations, and cultural and aesthetic conventions in society; promotes competencies required for various modes of mediated and nonmediated communication; and develops skills for analyzing, interpreting, and critiquing communication problems and questions.

The program of study offered by the department thus provides a firm foundation for enriched personal living, for professional effectiveness regardless of the specific career one may pursue, and for informed participation in the human community.

Programs of Study
The degree offered is bachelor of arts in communication studies. The minor in writing for the screen and stage is an interdisciplinary program drawing upon the faculties and resources of the Department of Dramatic Art, Department of Communication Studies, and the Creative Writing Program of the Department of English. For information, see the Department of Dramatic Art in this bulletin.

Majoring in Communication Studies:
Bachelor of Arts

Majors in the Department of Communication Studies must take a total of 30 credit hours in the department, including three of the four courses identified as core courses and at least three courses numbered 400 or higher. The core courses are COMM 120, 140, 160, and 270. Students must successfully complete these core requirements with a C or better. The core courses also serve as prerequisites for further work within each concentration.
Additionally, each major must have a coherent program of study, defined as at least four courses in an area of study/concentration identified by the department, or at least four courses selected and justified by the student and approved by the director of undergraduate studies.

**Option A: Pre-Selected Concentrations in Communication Studies**

Students should select one of the following concentrations and take a minimum of four courses within that concentration. Note: core courses do not count as one of the four required courses within the selected concentration.

- Interpersonal and Organizational Communication (Note: COMM 120 is a prerequisite for most of the IOC courses; consult course descriptions.)
- Media and Production (Note: COMM 140 is a prerequisite for most of the Media courses; consult course descriptions.)

COMM 223 (MNGT 223) Small Group Communication
COMM 234 (WMST 224) Gender and Communication
COMM 325 (MNGT 325) Introduction to Organizational Communication
COMM 410 Introduction to Quantitative Research
COMM 411 Introduction to Critical Perspectives
COMM 312 Persuasion
COMM 620 Interpersonal Communication
COMM 521 Communication and Social Cognition
COMM 525 Communication in Organizations
COMM 522 Family Communication
COMM 523 Communication and Leadership
COMM 526 Nonverbal Communication
COMM 629 Topics in Interpersonal and Organizational Communication

**Option B: Specialized Concentration in Communication Studies**

A student may create her or his own concentration by selecting at least four courses that constitute a coherent program of study. The courses selected in this option must be justified by the student and must be approved by the director of undergraduate studies.

**Option C: Concentration in Speech and Hearing Sciences**

Students majoring in Communication Studies with a concentration in speech and hearing sciences shall take the following sequence for their concentration:

- COMM 530 (SPHS 530) recommended spring of junior year
- COMM 582 (SPHS 582) recommended spring of junior year
- COMM 540 (SPHS 540) recommended fall of senior year
- COMM 570 (SPHS 570) recommended fall of junior year
- Three COMM electives

Also, the following courses are strongly recommended in accordance with the pre-professional standards for the American Speech-Language-Hearing Association (www.med.unc.edu/ahs/sphs/ms_prepro.htm):

**Fall Junior Year**
LINC 101 or PSYC 432 (Prerequisites of PSYC 230 or LING 101 or LING 400)
Fall Senior Year
LING 523

Spring Senior Year
STOR 151 or PSYC 210

Students in this concentration should be aware that the required and recommended courses will satisfy the pre-professional school expectations of UNC-Chapel Hill as well as many other graduate programs; however, completing this concentration does not guarantee admission to the UNC-Chapel Hill program, nor do these courses fulfill requirements for all graduate schools. Students should examine and investigate the specific requirements for each graduate school and program to which they intend to apply.

Students are encouraged to join NSLLHA, the National Student Speech Language Hearing Association: A Sertoma Collegiate Club. NSLLHA is a UNC-Chapel Hill student group of people interested in the speech and hearing sciences.

A maximum of 45 hours of COMM courses will count toward graduation.

Students are invited to work closely with faculty in courses and through independent study, cocurricular programs, and research projects. The department offers major programs leading to the B.A. and M.A. degrees. Courses are also open to non-majors whose personal and professional goals require understanding of human communication.

Honors in Communication Studies
The department participates in the University’s Honors Program. Students eligible for the program (see University requirements) may consult with the departmental honors advisor about enrolling in COMM 693H and 694H.

Special Opportunities in Communication Studies

Independent Study
Opportunity for independent study is available through enrollment in COMM 396. Interested students should consult a faculty advisor in the department.

Internships
The department offers an extensive internship program in media related industries, business, public service, and other organizations. Internships allow students to explore the relationship between communication theory and its practice in everyday life. Credit can be obtained through consultation with the internship advisor and enrollment in COMM 397. More than 100 organizations participate in the program. Note: Internship credit counts as elective hours and does not count toward the 30 credit hours required for the major.

WUNC Radio and WUNC-TV
Limited opportunities exist for internships and employment with the public radio and television stations in Chapel Hill and in the Research Triangle Park.

Performance Opportunities
Student groups adapt scripts, direct, and stage productions for the public. Additionally, individual students often appear in regular performance hours sponsored by graduate students in Communication Studies and in productions directed by faculty members.

Student Television (STV)
STV is a student-run video production operation that provides hands-on opportunities in a variety of programming assignments.

Study Abroad
Students may take course work toward the major through the University’s study abroad program. Departmental approval for major credit is required. The department also offers a London-based summer internship in media production and performance studies for qualified students.

Undergraduate Awards
The department offers a number of awards for leadership and contribution to the field, including the Lucia Morgan Award for excellence in the discipline of communication studies, the Sherrill-Pence Award for outstanding work in applied communication, the Wallace Ray Peppers Award in Performance for outstanding work in African and African American literature, and awards for outstanding work in media production, such as the James C. Lampley Award.

Facilities
The department has extensive media production and performance studies facilities located in Swain Hall and Bingham Hall. Swain Hall is home to state-of-the-art media production equipment, classroom space, and editing suites, and it houses Studio 6, where numerous live performances are staged. Bingham Hall contains the Martha Nell Hardy Performance Space.

Graduate School and Career Opportunities
Advanced study and research may be pursued in any of the concentrations specified above. A substantial number of graduate assistantships allow master of arts (M.A.) and Ph.D. candidates to gain experience in research, teaching, production, and administration. Graduate study is characterized by intensive participation in seminars, original research and creative activities, and close work with individual faculty members.

The career outlook for students with degrees in communication studies is promising, and graduates enter a variety of professions that value communication knowledge and skills. Communication studies majors are prepared to serve as communication specialists in business; in federal, state and local governments and agencies; and in public service. Some of the more specific areas in which majors pursue careers are teaching, social advocacy, public relations and advertising, personnel management and training, video and film production, and emerging technologies. Students are also prepared for graduate study and research in communication studies and in related academic disciplines such as law.

An understanding of communication provides a strong base for a wide range of career options. The mission of the department is to go beyond narrow technical training by providing a liberal arts approach to communication. This provides the student with maximum latitude for promotion and advancement and avoids limited career opportunities resulting from narrow approaches to the field.

The burgeoning growth of communication industries and support fields provides a wide range of career opportunities.

Graduates of the department, who number over four thousand, are engaged in a variety of occupations ranging from work for international corporations to jobs at local nonprofit organizations.

Contact Information
COMM

050 [006E] First-Year Seminar: Helping Families Manage the Effects of Disasters (3). Considers the effects of disasters on children, families, and communities, and offers an understanding of and practice in how to lessen victims' trauma and decrease chances of long-term damage when disaster strikes.

051 First-Year Seminar: Organizing and Communicating for Social Entrepreneurs (3). This first year seminar is designed to show how we can better understand organizational communication through the medium of different metaphors (e.g., machine, organism, culture, political system, psychic prison).

052 [006F] Cynicism, Politics and Youth Culture (3). After initially exploring the meaning of cynicism and apathy and the problem of cultural diagnosis, this seminar will look at these issues in the political arena.

060 [006M] First-Year Seminar: Organizing and Communicating for Social Entrepreneurs (3). This course examines the historical and current development of social entrepreneurship as a field of study and practice, with particular attention to successful organizational communication strategies designed to solve community problems.

061 First-Year Seminar: The Politics of Performance (3). In this course students will explore the possibilities of making political performances, or making performances political. We will be particularly concerned with how performance may contribute to processes of social change.

062 First-Year Seminar: African American Literature and Performance (3). The course examines—through performance—the question of what characterizes “Blackness” as it is manifest through experience, history and symbol in the United States (as well as the impact of African practices and identities upon Blackness in the U.S.). The course is concerned with what has been termed the “black literary imagination.”

063: First-Year Seminar: The Creative Process in Performance (3). The Memorial Hall Carolina Performing Arts Series sets the stage for this course, and students will be engaged with its multimedia, music, dance and theater performances. We will explore the creative processes and cultural contexts of these performances and compare the arts as a way of knowing the world to the creative processes of academic scholarship.

070 [006F] First-Year Seminar: Southern Writing in Performance (3). A performance-centered seminar focusing on the works of North Carolina writers, especially those who write fiction and poetry, and on researching, discussing, adapting, and performing that content.

071 First-Year Seminar: Conflict, Culture and Rhetoric: The Search for Peace in Northern Ireland (3). This seminar will explore culture, conflict, and rhetorical practice through an extended case study of the conflict in Northern Ireland. The discourse will include speeches, pamphlets, political flyers, music, poetry, fiction, film, and graffiti.

074 First-Year Seminar: Remembering Dixie: Exploring Rhetoric, Memory and the South (3). We will begin by looking at controversies over such issues as public display of the Confederate battle flag, public commemorative displays like Silent Sam, arguments over “Southern Heritage,” and other controversial issues.

082 First-Year Seminar: Globalizing Organizations (3). In this course, we explore the communication issues that arise within international contexts. Through the analysis of readings and films, we will delve into the contentious debates surrounding globalization and explore the ethical and social issues that arise within global forms of communicating and organizing.

100 [010] Communication and Social Process (3). Addresses the many ways our communication— including language, discourse, performance, and media—reflects, creates, sustains, and transforms prevailing social and cultural practices.

109 Oral Communication (1). Prerequisite, test out of ENGL 101 and ENGL 102. Required of all first-year students testing out of ENGL 101 and ENGL 102 with the exception of those satisfying the first-year honors literature requirement (ENGL 135H, ENGL 135HW, CLAS 133H, SLAV 029, GERM 190H, or ROML 229). Includes theory and practice in small group problem solving, oral argument, and public speaking.

120 [022] Introduction to Interpersonal and Organizational Communication (MNGT 120) (3). An introduction to communication theory, research, and practice in a variety of interpersonal and organizational contexts. This course examines the role of communication in both personal and professional relationships.

130 [014] Introduction to Media Production (3). Prerequisite for all production courses. Introduces students to basic tools, techniques, and conventions of production in audio, video, and film. Interactive laboratory work included.

131 [030] Writing for the Stage and Screen (DRAM 131) (3). Introduction to the fundamentals of writing for the screen and stage, including how to create story, structure, scenes, character, and dialogue. Students will also complete a short play and screenplay.

140 [041] Introduction to Media History, Theory, and Criticism (3). An introduction to the critical analysis of film, television, advertising, video and new media texts, contexts, and audiences.

142 [042] Popular Music and Youth Culture (3). Prerequisite, COMM 140; or for nonmajors, permission of instructor. This class explores the historical, social, political, and cultural significances of popular music as a communicative practice in the United States from 1950 to the present.

160 [060] Introduction to Performance Studies: Performing Literature (3). Study of a variety of literary texts (lyric, epic, dramatic) through the medium of performance.

162 [062] Oral Traditions (3). Introductory course in the form and functions of oral traditional practices. Topic areas may include: dynamics of orality, slang, childlore, storytelling, the trickster, and oral history.

171 [071] Argumentation and Debate (3). Prerequisite, COMM 270; or for nonmajors, permission of instructor. Analysis of issues, use of evidence, reasoning, brief making, and refutation. Argumentative speeches and debates on legal cases and on current issues. Designed for prospective law students, public policy students, speech teachers, and college debaters.

223 [023] Small Group Communication (MNGT 223) (3). Prerequisite, COMM 120 or for nonmajors, permission of instructor. Introduction to the theory and practice of communication in the small group setting. Topics may include group development,
conformity, and deviation, gender, problem solving, and power and leadership.

224 [024] Introduction to Gender and Communication (WMST 224) (3). Examines multiple relationships between communication and gender. Emphasizes how communication creates gender and power roles and how communicative patterns reflect, sustain, and alter social conceptions of gender.

230 [034] Audio/Video/Film Production and Writing (3). Prerequisites, COMM 130 and 140. The material, processes, and procedures of audio, video, and film production; emphasis on the control of those elements of convention that define form in the appropriate medium. Lecture and laboratory hours.

260 [061] Introduction to Group Performance (3). Prerequisite, COMM 160 or permission of instructor. Performance theory and rehearsal techniques explored through ensemble performance.

261 [063] African and African American Literature and Performance (3). Prerequisite, COMM 160; or for nonmajors, permission of instructor. Study and performance of African American literary expressions and literary movements ranging variously from antebellum, reconstruction, Harlem renaissance, Black aesthetic, and post-modern.

270 [070] Rhetoric and Social Controversy (3). Examines the basic nature and importance of rhetoric and argumentation. Attention is devoted to interpreting the persuasive function of texts and their relation to modern forms of life.

275 History of German Cinema (GERM 275) (3). This course explores the major developments of German cinema. All films with English subtitles. Readings and discussions in English.

312 [112] Persuasion (3). Prerequisite, COMM 120; or for nonmajors, permission of instructor. Examines contemporary theory and practice of influencing others' attitudes, beliefs, and actions. Focuses particularly on analyzing and developing persuasive messages.

318 [080] Cultural Diversity (3). Introduction to basic paradigms of thinking about cultural difference, encouraging students to examine how these paradigms shape how we think, act, and imagine ourselves/others as members of diverse cultures.

325 [025] Introduction to Organizational Communication (MNGT 325) (3). Prerequisite, COMM 120; or for nonmajors, permission of instructor. The course explores the historical and theoretical developments in the research and practice of organizational communication.

330 [033] Introduction to Writing for Film and Television (3). Prerequisite; COMM 140; or for nonmajors, permission of instructor. An introduction to screenwriting for film and television.

364 [064] Production Practices (1-3). Prerequisite, departmental permission required. The design and application of technical production concepts to a literary text. Includes lighting, set design, costuming, and stage management.

372 [072] The Rhetoric of Social Movements (3). Explores the discourse of dissenting voices in American society, particularly as they speak about grievances pertaining to race, gender, the environment; focuses on rhetorical strategies that initiate and sustain social movements.

374 [074] The Southern Experience in Rhetoric (3). Examines recurrent themes in the rhetoric of significant Southerners and important campaigns. Considers both the rhetoric of the establishment and the rhetoric of change.

375 [075] Environmental Advocacy (ENST 375) (3). Explores rhetorical means of citizens' influence on practices affecting our natural and human environment; also, study of communication processes and dilemmas of redress of environmental grievances in communities and workplace.

376 [073] The Rhetoric of War and Peace (FWAD 376) (3). Explores philosophical assumptions and social values expressed by advocates of war and peace through a critical examination of such rhetorical acts as speeches, essays, film, literature, and song.

390 [095] Special Topics in Communication Study (3). A special topics course on a selected aspect of communication studies.

396 [091] Independent Study and Directed Research (1-3). Departmental permission required. For the COMM major who wishes to pursue an independent research project or reading program under the supervision of a selected instructor. Intensive individual research on a problem designed by instructor and student in conference.

397 [090] Internships (1-3). Departmental permission required. Individualized study closely supervised by a faculty advisor and by the departmental coordinator of internships. Cannot count toward the COMM major.

410 [110] Introduction to Qualitative Research (3). Basics of data collection, measurement instrument development, and data analytic approaches to communication research are presented to the student. Emphasis is placed on practical application of research.

411 [111] The Critical Perspectives (3). This course explores theories of criticism and symbolic action through readings, lecture, and practical criticism of literature, media, discourse, and other symbolic acts.

431 [130] Advanced Audio Production (3). Prerequisite, COMM 230, COMM 140, or permission of instructor. Advanced analysis and application of the principles and methods of audio production.

432 [131] Directing for Media (3). Prerequisites: COMM 140 and COMM 230 or permission of instructor. Overview of, and intensive practice in, advanced directing techniques for film, video, and digital media.

433 [132] Advanced Scriptwriting for Television, Film, and Stage (3). Prerequisite, COMM 330 or permission of instructor. A major writing project will be completed by each student, either dramatic or nonfiction for radio, television, film, or stage.

434 [152] Minorities and the Media (3). Prerequisite, COMM 140; or for nonmajors, permission of instructor. The course traces the development of minorities in film, radio and television, and the press, looking at trends and treatment of minorities by the media, and how and if they have changed.

436 [117] Gender, Science Fiction and Film (WMST 437) (3). Greater attention has been given to the role of gender in scientific fields, examining the role of subjectivity of the researcher and its impact on research questions and study outcomes, as well as the construction of gender identities through scientific research.
Similarly, contemporary science fiction films also address these issues of gender identity. The course will combine these fields in an inquiry of the role and making of gender in and through science, science fiction, and film.

440 [140] Media Theory and Criticism (3). Prerequisite, COMM 140; or for nonmajors, permission of instructor. Intensive investigation of the nature and role of theory in media studies, as well as the nature and role of the critical encounter with particular media texts.

441 [141] Audio Theory Criticism and Aesthetics (3). Prerequisite, COMM 140; or for nonmajors, permission of instructor. An examination of theories of aurality, psycho-acoustics, and the development of the audio aesthetic. Course includes, but is not limited to, audio in film, video, and multimedia.

442 Cultural Studies (3). Prerequisite, COMM 140; or for nonmajors, permission of instructor. This class will introduce students to the major theoretical and methodological commitments of cultural studies as a perspective on communication, culture, and society.

450 [150] Media and Popular Culture (3). Prerequisite, COMM 140; or for nonmajors, permission of instructor. Examination of communication processes and cultural significance of film, television, and other electronic media.

451 Special Topics in Media and Popular Culture (3). Prerequisite, COMM 140; or for nonmajors, permission of instructor. A special topics course on a selected aspect of media and cultural studies.

452 Film Noir (3). Prerequisite, COMM 140; or for nonmajors, permission of instructor. Course combines reading about and viewing of 1940s and 1950s films combining narrative techniques of storytelling, novels, and the stage with purely filmic uses of spectacle, light, editing, and image.

464 [164] Poetry in Performance (3). Prerequisite, COMM 160 or permission of instructor. Critical, aesthetic, and rhetorical approaches to performed poetry.

466 [166] Narrative Fiction in Performance (3). Prerequisite, COMM 160 or permission of instructor. Study of selected short stories and novels in performance with emphasis on narrative point of view.

470 [133] Political Communication and the Public Sphere (3). A course covering the relationship between communication and political processes and institutions. Topics include media coverage and portrayal of political institutions, elections, actors, and media influence on political beliefs.

521 [121] Communication and Social Memory (3). An investigation of psychological aspects of communication, particularly the perceptual and interpretive processes underlying the sending and receiving of messages.

522 [124] Family Communication (3). Prerequisite, COMM 120; or for nonmajors, permission of instructor. Analysis and exploration of personal experiences, family systems theory, and communication theory to describe, evaluate, and improve family communication patterns.

523 [125] Communication and Leadership (3). Prerequisite, COMM 120; or for nonmajors, permission of instructor. Critical examination of alternative theories of leadership and trends in the study of leadership; focuses on the communicative dimensions of leaderships.

524 Gender, Communication, and Culture (3). Prerequisites, COMM 224 and 372; or for nonmajors, permission of instructor. Course examines the speeches and other texts that announced and embodied the goals and political strategies of multiple branches of three waves of feminist activism in the United States.

525 [123] Organizational Communication (3). Prerequisites, COMM 120 and 325; or for nonmajors, permission of instructor. Provides a critical exploration of organizational communication theory, research, and application, examining the factors involved in the functioning and analysis of complex organizations.

526 [126] Nonverbal Communication (3). Prerequisite, COMM 120; or for nonmajors, permission of instructor. Examines the roles and functions of nonverbal behavior in the communication process. Topic areas may include physical appearance; body, face, and eye movements; paralinguistics; haptics; nonverbal deception; the effects of environment; and personal space.

530 [127] Introduction to Phonetics 127 (SPHS 530) (3). A detailed study of the international phonetic alphabet with emphasis on the sound system of American English. Application of phonetics to problems of pronunciation and articulation. Includes broad and narrow phonetic transcription.

532 [133] Media Acting and Performance (3). Study and practice in acting and performance for radio, television, and motion pictures.

534 [134] Narrative Production (3). Prerequisite, COMM 230 and corequisite, one of COMM 645, 546, or 547. The course focuses on narrative, representational, and aesthetic strategies of narrative production.

540 [182] Speech Science (SPHS 540) (3). Introduction to the science of speech, including production, acoustics, and perception.

543 [143] History of National Media in the West (3). Study of the development of the art and craft of the film through examining individual films and topics stressing the interaction of aesthetic considerations with sociocultural and institutional settings.

544 [144] Electronically Mediated Communication and Information Machines (3). Prerequisite, COMM 140; or for nonmajors, permission of instructor. A survey of developing telecommunication systems and technologies and their impact on the traditional electronic media and society.

545 [138] Pornography and Culture (3). Examines the social, cultural, political, legal, historical, and aesthetic implications of pornography.

546 [146] History of Film I, 1895 to 1945 (3). Prerequisite, COMM 140. Study the development of the art of film through World War II by examining individual films and filmmakers and the emergence of national cinemas through interaction among aesthetic, social, economic, and technological factors.

547 [147] History of Film II, 1945 to Present (3). Prerequisite, COMM 140. Study of the development of the art of film from the end of World War II to the present day by examining individual films and filmmakers and the emergence of national cinemas through interaction among aesthetic, social, economic, and technological factors.
548 Humor and Culture (3). Prerequisites, COMM 140; or for nonmajors, permission of instructor. Investigates how humor, comedy, and laughter function socially and culturally through close examination of selected U.S. popular media texts and the primary modern theoretical writings on these issues.

549 [137] Sexuality and Visual Culture (3). Examines questions about sexuality and how it has changed over time, through various media of visual communication.

553 [153] Media and Activism (3). A study of the electronic media as a feedback mechanism for community organization and social change. A variety of broadcast and nonbroadcast uses of the media are studied.

561 [160] Performance of Literature by Women of Color (WMST 561) (3). Prerequisite, COMM 160 or permission. Explores through performance, contemporary poetry, fiction, nonfiction and feminist thought by women of color in the United States.

562 [161] Oral History and Performance (FOLK 562, HIST 562, WMST 562) (3). This course combines readings and field work in oral history with study of performance as a means of interpreting and conveying oral history texts. Emphasis on women's history.

563 [163] Performance of Children's Literature (3). Prerequisites, COMM 160 and permission of instructor. The course explores advanced performance theory while focusing exclusively on contemporary poetry, prose fiction, and drama intended for young audiences. Both solo and group performances for young viewers are included.

565 [165] Ritual, Theater, and Performance in Everyday Life (FOLK 565) (3). Prerequisite, COMM 160 or ENGL 126 or permission of instructor. This course will explore the dynamics of performance as it is broadly produced within the texture of individual experiences, the interaction of community memberships, and the dramas of cultural aesthetics.

566 [168] Narrative in Fiction and Film: Adaptation and Performance (3). Study of narrative in selected short stories and novels and their adaptation for film.

570 [183] Anatomy and Physiology of the Speech and Hearing Mechanism (SPHS 570) (3). Anatomy and physiology of the speech producing and aural mechanism.

571 [171] Rhetorical Theory and Practice (3). Prerequisite, COMM 270; or for nonmajors, permission of instructor. Investigates contemporary theories of purposive symbolic behavior; focus is upon rational, psychological, and dramatistic explanations of human behavior.

572 [172] Public Policy Argument (3). Prerequisite, COMM 270; or for nonmajors, permission of instructor. Analyzes argument in a variety of contexts with an emphasis on public policy and exploring tensions involved in addressing both expert and public audience in the political sphere.

573 [173] The American Experience in Rhetoric (3). Prerequisite, COMM 270; or for nonmajors, permission of instructor. Examines public discourse from the colonial period to the present. Discourses, critical perspectives, and historical periods studied will vary.

574 [174] War and Culture (PWAD 574) (3). Examines American cultural myths about war generally and specifically about the causes of war, enemies, weapons, and warriors, and the way these myths constrain foreign and defense policy, military strategy, and procurement.

582 [180] Introductory Audiology I (SPHS 582) (3). Theory and practice of the measurement of hearing, causative factors in hearing loss, evaluation of audiometric results, and demonstration of clinical procedures.

596 [191] Advanced Independent Study/Directed Reading (1-3). Prerequisites, completion of at least one 300-level COMM course, departmental permission. For the communication studies major who wishes to pursue an advanced independent research project or reading program under the supervision of a selected instructor. Intensive individual research on a problem designed by instructor and student in conference.

617 [684] Introduction to Communication Disorders (3). Explores the etiology, epidemiology, assessment, and educational implications of speech and language disorders.

620 [120] Theories of Interpersonal Communication (3). Prerequisite, COMM 120; or for nonmajors, permission of instructor. Course focuses on how communication is used to build and sustain interpersonal relationships. Forms and functions of communication are examined as a means of testing and defining relationships.

622 Impact of Disasters on Families (3). Examination of the effects of disasters on children, families, and communities. Course considers strategies for disaster relief and methods for decreasing long-term psychosocial damage.

629 [129] Topics in Interpersonal and Organizational Communication (3). Prerequisite, COMM 120; or for nonmajors, permission of instructor. Designed for advanced students, course provides in-depth examination of particular theories of human communication. Course focus varies. May be repeated.

635 [135] Documentary Production (3). Prerequisite, COMM 230 and corequisite, one of COMM 645, 546, or 547. A workshop in the production of video and/or film nonfiction or documentary projects. The course will focus on narrative, representational, and aesthetic strategies of documentary production.

636 [136] Interactive Media (ART 406) (3). Prerequisite, COMM 230, COMM 140, or permission of instructor. Explores interactive media through creative projects that include sound, video, and graphic elements. Technical information will serve the broader goal of understanding the aesthetics and critical issues of interactive media.

639 [139] Special Topics in Media Production (3). Prerequisite, COMM 140. A special topics course on a selected aspect of media production or writing. May be repeated.

642 Special Topics in Cultural Studies (3). Prerequisites, COMM 442; or for nonmajors, permission of instructor. This course will explore various specific topics, theories, and methodologies in cultural studies.

645 [142] The Documentary Idea (3). Prerequisite, COMM 140; or for nonmajors, permission of instructor. Historical and theoretical examination of expressions of the documentary idea in different eras and various modes including film, television, and radio.

646 [118] Animation (3). Prerequisite, COMM 130 and 230; or for nonmajors, permission of instructor. An introduction to the art and mechanics of two-dimensional digital animation.
649 [149] Third World Media (3). The cultural and educational uses of radio and television are studied in the developing countries of Africa, Latin America, and India. Emphasis will be placed on the new electronic media and their effectiveness in serving developing countries.

651 [151] Contemporary International Media (3). Study of contemporary film/television within a specific international context, such as Great Britain, with particular attention to contrasts with the United States and Hollywood.

652 Media and Difference (3). Prerequisites, COMM 140; or for nonmajors, permission of instructor. This course examines critical and theoretical issues concerning the study of various modes of difference, such as sexuality, race, and gender, in specific media texts.

656 [156] Women and Film (WMST 656) (3). This course examines the representation of women in contemporary American film, and also considers women as producers of film.

658 [158] Latin American Cinema (3). This course examines the films, audiences, and social contexts of Latin American cinema from the 1930s to the present.

659 [159] Special Topics in Media Studies (3). Prerequisite, COMM 140; or for nonmajors, permission of instructor. A special topics course on a selected aspect of media studies, including but not limited to media texts, contexts, and/or reception. May be repeated.


662 [262] Literature/Performance of Black Diaspora (3). Focuses on interpreting the literature and culture of black people in Africa, the Caribbean, Europe, and the Americas, including fiction, nonfiction, and film, through performance. Participants may anticipate performing every class session.

667 [167] The Politics of Performance (3). Prerequisite, COMM 160 or COMM 162 or permission of instructor. Course will address the relationship between performance and power, focusing on topics concerned with the potential for performance to contribute to social change.

669 [169] Special Topics in Performance Studies (3). Prerequisites, COMM 160 and one 100-level performance course or permission of instructor. Advanced study of selected topics drawn from performance history, theory, and practice. May be repeated.

675 [175] Environmental Communication and the Public Sphere (ENST 675) (3). Examines communication practices that accompany citizen participation in environmental decisions, including public education campaigns of nonprofit organizations, “risk communication,” media representations, and mediation in environmental disputes.

679 [179] Special Topics in Rhetoric and Cultural Studies (3). Prerequisite, COMM 270; or for nonmajors, permission of instructor. A special topics course on a selected aspect of rhetoric and cultural studies. May be repeated.

684 [184] Introduction to Communication Disorders (EDUC 617) (3). Explores the etiology, epidemiology, assessment, and educational implications of speech and language disorders.

693H [098] Honors (3). Departmental permission required. Individual projects designed by students and supervised by faculty member.

694H [099] Honors (3). Departmental permission required. Individual projects designed by students and supervised by faculty member.

Curriculum of Comparative Literature

The curriculum of comparative literature now forms part of the Department of English and Comparative Literature. For a discussion of the comparative literature minor, and descriptions of courses in comparative literature, see the section of the Undergraduate Bulletin dedicated to the Department of English and Comparative Literature.

Department of Computer Science

www.cs.unc.edu

JAN F. PRINS, Chair

Professors

Associate Professors

Assistant Professors
Jasleen Kaur, Montek Singh.

Research Professors
Diane Pozefsky, F. Donelson Smith, Russell M. Taylor II.

Research Associate Professors
Gregory F. Welch, Mary C. Whitton.

Research Assistant Professors
Michael Rosenthal, Martin Styner.

Lecturers
Timothy L. Quigg, Leandra Vicci, Jeannie M. Walsh.

Adjunct Professors

Adjunct Associate Professors

Adjunct Assistant Professors
Morgan Giddings, Sarang C. Joshi, Hye-Chung (Monica) Kum, Maria Papadopoulou.

Adjunct Research Professors
Nick England, John Poulton.

Adjunct Research Associate Professor
Lars S. Nyland.

Adjunct Research Assistant Professor
Mark Foskey.

Professors Emeriti
Peter Calingaert, Gyula A. Magó, Donald F. Stanat.
Introduction

The Department of Computer Science offers instruction and performs research in the essential areas of computer science, including software, Web and Internet computing, networking, hardware systems, operating systems, compilers, parallel and distributed computing, theory of computing, and computer graphics. The bachelor of science in computer science is the preferred degree both for graduate study in computer science and for technical careers in software development, computational science, networking, information systems, and electronic commerce. Graduates of the program are well suited for professional employment in traditional computer and communications industries, as well as in such diverse industries as financial services and consulting practices in which computing and information management are central to the operation of the enterprise.

Majors receive rigorous training in the foundations of computer science and the relevant mathematics, then have ample opportunity to specialize in software systems, programming languages, theoretical computer science, or applications of computing technology in science, applied mathematics, medicine, or business. (Students whose interest lie more in the area of digital system design should consider the computer engineering track of the Curriculum in Applied and Materials Sciences. Students with interests in the cognitive, social, and organizational roles of information should consider the information science major in the School of Information and Library Science. Both programs are described elsewhere in this bulletin.)

Students may not declare the computer science major until they have satisfactorily completed a set of nine introductory mathematics, physics, and computer science courses (see "Of special note" below). Until these courses have been completed, prospective computer science students are strongly encouraged to declare the "pre-computer science" major (a formal major available to first-year students and sophomores only). This will ensure that prospective computer science students receive the appropriate advising within the General College until they are able to declare the computer science major.

Students who wish to use computers vocationally and desire a technical introduction to computing should take one or more of the introductory courses, COMP 110, 116, and 401, and one or two more advanced courses such as COMP 410, 411, and 416. Students can minor in computer science with five courses, as described below.

The department offers COMP 101 for all students who wish to develop the ability to use a personal computer for common applications. COMP 380 (Computers and Society) is a philosophical and moral reasoning Approaches course that has no programming prerequisite. Many other courses satisfy General Education quantitative requirements.

Programs of Study

The degree offered is bachelor of science in computer science. A minor in computer science is also offered.

Majoring in Computer Science: Bachelor of Science

B.S. majors in computer science must fulfill all Foundations, Approaches, and Connections requirements and also complete the following courses:

- COMP 401, 410, 411, and 550
- MATH 231, 232, 233, 381 (or STOR 215), and 547
- PHYS 116 and 117
- STOR 435

Six courses from the computer science distribution requirement list (see below), with at least one course in each of the programming languages group, systems group, theory group, and applications group, with no more than one course from the interdisciplinary group.

The following courses may be used to satisfy the distribution requirement:

**Theory group** (at least one course):
- MATH 566, COMP 455

**Systems group** (at least one course):
- COMP 431, 530, 541, INLS 578

**Programming languages group** (at least one course):
- COMP 520, 523, 524

**Applications group** (at least one course):
- COMP 416, 421, 521, 575

**Interdisciplinary group** (at most one course):

Any MATH course numbered greater than 520; STOR 415, 445, 515; LING 540; INLS 510, 512, 599; BMME 410, 430, 440

Computing-related courses other than those listed in the interdisciplinary group may be counted as interdisciplinary courses, with the advance approval of the director of undergraduate studies. Note that students are not required to take a course from the interdisciplinary group.

Of special note are the following requirements:

Completion of PHYS 116 and 117; MATH 231, 232, 233, and 381 (or STOR 215); COMP 401, 410, and 411, with a grade of C or better in each course is required for admission into the computer science major.

In order to graduate, students must earn a GPA of 2.0 or higher and receive no grade lower than a C- in the nine required junior/senior courses: COMP 550, MATH 547, STOR 435, and the six required distribution courses.

The following is a suggested plan of study for B.S. majors. The nine required first-year/sophomore courses must be taken no later than the year listed, or students will be unable to declare the computer science major during the nominal major declaration period in the second semester of their sophomore year.

**First year.**

- ENGL 101, 102 (composition and rhetoric Foundations); foreign language level 2 and 3 (Foundations); MATH 231, 232 (quantitative reasoning Foundations and quantitative intensive Connections courses); first-year seminar or COMP 110; COMP 401

**Sophomore year.**

- Foreign language 4 (if needed); PHYS 116, 117 (physical and life sciences Approaches course); MATH 233, 381 (or STOR 215); COMP 410, 411; three additional Approaches and Connections courses

**Junior year.**

- Non-computer science elective (one course); MATH 547; COMP 550; computer science distribution requirement (four courses); three additional Approaches and Connections courses
Senior Year

Non-computer science elective (three courses); STOR 435; computer science distribution requirement (two courses); Connections and free elective courses (four courses)

Notes on the Suggested Plan of Study

COMP 110 (Introduction to Programming) is a required prerequisite for COMP 401. Students with no programming experience should begin their program of study with COMP 110. The department assumes (but does not require) that prospective majors will have acquired sufficient knowledge of programming basics prior to enrolling at UNC-Chapel Hill to start with COMP 401. Students who are able to begin with COMP 401 may take it in their first semester and either advance the suggested program of study by one semester (giving themselves an extra free elective in their junior/senior years) or take another appropriate course such as a first-year seminar as an elective in the first year. (In either case, neither COMP 110 nor a first-year seminar is a required course in the major.)

This plan of study further assumes that students will place out of foreign language 1. If this is not the case, then the student should start with foreign language 1 (and have one fewer free elective in the senior year.)

"Non-computer science electives" refer to a set of four courses taken outside of computer science. The four courses are selected according to the following general requirements:

- Humanities/fine arts, one course
- Social and behavioral sciences, one course
- Natural sciences, one course
- Elective, one course

The fourth elective can be any non-computing related course taken outside of computer science, mathematics, applied math, and statistics and operations research. None of these electives may be taken pass/fail.

Minor in Computer Science

A student may minor in computer science by completing five courses within these restrictions:

- COMP 401
- COMP 410 or COMP 411
- Any three additional COMP courses above COMP 400

Students with the appropriate prerequisites (for example, from a mathematics major) may include MATH 381/STOR 215 and MATH 566 in their selection of courses. A grade of C or better is required in at least twelve hours of the minor courses. Including "Topics" courses, such as COMP 590 and 390, requires approval of the undergraduate studies committee in the computer science department. Alternatives to these requirements must be approved by the undergraduate studies committee. No course may be counted for both the computer science minor and any major.

Honors in Computer Science

Students are eligible for graduation with honors if they complete the following requirements:

- Accumulation of a 3.2 or better cumulative GPA.
- Accumulation of a 3.2 or better GPA from among the set of COMP/MATH/PHYS/STOR courses taken to fulfill the graduation requirements for the major.
- Successful completion of an honors independent study or research project.

Successful completion of an honors independent study or research project requires completion of one or two sections of COMP 396, the construction of a written honors thesis, and a presentation of the thesis.

Students interested in pursuing honors in computer science are encouraged to contact the director of undergraduate studies to arrange an independent study or research project.

Graduation with highest honors in computer science is possible for those students who accumulate GPA of 3.6 or higher both overall and in the major and write an honors thesis that is acceptable for graduation with highest honors.

Special Opportunities in Computer Science

Departmental Involvement

Undergraduates participate in many department and university activities. Department-organized activities, such as the annual ACM programming contest, give students the chance to test their skills and knowledge against their peers at other universities.

Experiential Education

When arranged in advance with a supervising faculty member, COMP 392 can be used to get credit for appropriate work experience in the summer. COMP 392 satisfies the experiential education requirement. Another possibility is through study abroad (see below).

Laboratory Teaching Internships and Assistantships

In addition to their classroom experiences, undergraduates may enhance their learning experience as lab assistants or teaching assistants for computer science courses. They can gain valuable work experience as assistants on the department's computer services staff. The department also encourages students to pursue internships and summer co-op experiences. Carolina's proximity to Research Triangle Park means that computer science majors have many internship and post-graduation opportunities in their own backyard.

Study Abroad

A study abroad opportunity with priority for computer science (CS) students is offered through University College London (UCL). UCL can accept UNC-Chapel Hill students for either spring semester or yearlong exchange. Many courses satisfying the computer science B.S. requirements can be completed at UCL. UCL is located in the heart of London and is just a few blocks away from UNC-Chapel Hill's European Study Center in Winston House. Application is through the University's Study Abroad Office and takes place early in the spring of each year. Applicants for exchange participation must have completed at least one year of study at UNC-Chapel Hill and must have declared a computer science or pre-computer science major. Study abroad satisfies the experiential education requirement of the undergraduate curriculum.

Undergraduate Awards

The department, in conjunction with SAS Institute, annually awards the Charles H. Dunham Scholarship to an outstanding computer science major. The scholarship includes a cash award to the student and a summer internship at SAS.

Undergraduate Research

Undergraduates can participate in nationally recognized research programs or use the department's facilities to pursue self-directed research with a faculty member. The department has built peaks of excellence in several areas, including computer graphics, distrib-
uted and collaborative systems, hardware design, medical imaging, networking, and parallel computing. Much of its research is accessible to undergraduates and focuses on solving real world problems.

Facilities
The department maintains a number of computer servers to support programming projects in advanced COMP courses. Within Sitterson Hall, computer science majors have access to additional facilities, including projection facilities for pair programming, and research computing equipment for students engaged in supervised research projects.

Graduate School and Career Opportunities
The computer science program provides an excellent preparation for students interested in advanced study in computing in graduate school. The department’s graduates are competitive nationally for admission to the top graduate schools (including UNC-Chapel Hill’s graduate program).

Graduates typically have a wide range of career opportunities as computing professionals in such diverse fields as software development, information systems management, electronic commerce, education, and financial transaction processing. In addition, computer science majors have consistently ranked at or near the top of recent surveys of starting salary offers.

Contact Information
For the latest information about the B.S. in computer science and for additional details about requirements, courses, advising, and other relevant information, please see www.cs.unc.edu/academic/Programs/Bachelors; or contact: Director of Undergraduate Studies, CB# 3175, Sitterson Hall, (919) 962-1700.

COMP
050 First-Year Seminar: Computers Make It Possible (3). The goal of this seminar is to teach students how computers have affected society and how those uses have changed computers.

051 First-Year Seminar: Technology and Entrepreneurship: Propitious Partners (3). This course will look at the fundamental technologies important to an entrepreneurial endeavor. The course will include case studies and the design of technology in a new venture.


060 First-Year Seminar: Robotics with LEGO (3). Prerequisite, knowledge of elementary computer programming. The goal of this seminar is to give students a feel for the physical aspects of computing.

061 First-Year Seminar: 3D Animation with Computers – Your Cinematic Debut (3). This course is designed to combine some math, physical science, and computer graphics with the fun and creative aspects of movie making.

065 [006D] First-Year Seminar: Folding, From Paper to Proteins (3). Explore the art of origami, the science of protein, and the mathematics of robotics through lectures, discussions, and projects involving artistic folding, mathematical puzzles, scientific exploration, and research.

066 [006D] First-Year Seminar: Random Thoughts (3). Explore in depth notions of randomness and its antithesis, structure. Students will collectively conduct several classic experiments to explore the nature of randomness. Computer programming skills helpful, but not required.

070 First-Year Seminar: Computability, Unsolvability, and Consciousness (3). The course will introduce Turing machines, which have a finite control, can move back and forth on a one dimensional tape, and can read and write on the tape. The students will construct Turing machines to convince themselves that Turing machines are in principle as powerful as any other computer.

071 First-Year Seminar: Problem Solving and the World Wide Web (3). This is not a course in computer programming and credit may be earned for both this course and COMP 14 (Introduction to Programming). Coregistration in ENGL 11 or 12 is required.

072 First-Year Seminar: Introduction to Computers (3). We will explore the process of design, and the nature of computers, by designing, building and programming LEGO robots. Previous programming experience is required.

080 First-Year Seminar: Enabling Technology - Computers Helping People (3). Service learning course exploring issues around computers and people with disabilities. Students work with users and experts to develop ideas and content for new technologies. No previous computer experience required.

101 [004] Computers: Power Tools for the Mind (3). The nature of computers, their capabilities, and limitations. How computers work; popular applications; problem-solving skills; algorithms and programming; potential use and abuse in society. Lectures, weekly readings, and laboratory assignments. Students can receive credit for only one of COMP 101, 116, or 121.

110 [014] Introduction to Programming (3). Introduction to computer use. Approaches to problem-solving; algorithms and their design; fundamental programming skills.

116 [016] Introduction to Scientific Programming (3). Prerequisite, MATH 231. An introduction to programming for computationally oriented scientists. Fundamental programming skills, using MATLAB and another imperative programming language (such as C). Problem analysis and algorithm design, with examples drawn from simple numerical and discrete problems. Students can receive credit for only one of COMP 101, 116, or 121.

121 [015] Introduction to Functional Programming (3). An introduction to programming in the functional programming style, e.g., using a dialect of LISP. A brief introduction to an imperative language such as Pascal. A first course for prospective majors or students with some programming background. Students can receive credit for only one of COMP 101, 116, or 121.

371 [171] Language and Computers (LING 301) (3). Prerequisite, LING 101. Uses simple linguistic problems to introduce students to the use of programming languages especially suited to analyze and process natural language on the computer. No prior programming knowledge is presupposed.

392 [192] Practicum (1-3). Prerequisites, computer science major and permission of instructor. Work experience in non-elementary computer science. Pass or fail grade depends on a substantial written report by student and evaluation by employer. May be repeated for up to six credits.

396 [196] Independent Study in Computer Science (1-3). For advanced majors in computer science, computer science track of mathematical sciences, or computer engineering track of applied sciences who wish to conduct an independent study or research project with a faculty supervisor. May be taken repeatedly for up to a total of six credit hours.


410 [121] Data Structures (4). The analysis of data structures and their associated algorithms. Abstract data types, lists, stacks, queues, trees, and graphs. Sorting, searching, hashing.


416 [117] Introduction to WWW Programming (3). Client-side programming in Java for the WWW. Introduction to TCP/IP, HTTP, and WWW architecture. Emphasis on applet programming and component programming using threads, simple client-server applications, and XML.


455 [181] Models of Languages and Computation (3). Prerequisites, MATH 381 or other evidence of mathematical maturity, and COMP 410 or equivalent experience. Introduction to the theory of computation. Finite automata, regular languages, pushdown automata, context-free languages, and Turing machines. Undecidable problems.

485 [171] Natural Language Processing (INLS 510) (3). Prerequisite, COMP 110, 116, or 121. See course listings for School of Information and Library Science for details.

486 [170] Applications of Natural Language Processing (INLS 512) (3). Prerequisite, COMP 110, 116, or 121, or graduate standing in information and library science. See course listings for School of Information and Library Science for details.

487 [172] Information Retrieval (INLS 509) (3). Prerequisite, INLS 261, COMP 110, or COMP 121. See course listings for School of Information and Library Science for details.


521 [130] Files and Databases (3). Prerequisites, COMP 410, COMP 411, MATH 381. Placement of data on secondary storage. File organization. Database history, practice, major models, system structure and design.

523 [145] Software Engineering Laboratory (3). Prerequisites, COMP 410, 411. Organization and scheduling of software engineering projects, structured programming, and design. Each team designs, codes, and debugs program components and synthesizes them into a tested, documented program product.


541 [160] Digital Logic and Computer Design (4). Prerequisite, COMP 411. This course is an introduction to digital logic as well as the structure and electronic design of modern processors. Students will implement a working computer during the laboratory sessions.


590 [190] Topics in Computer Science (1-21). Prerequisite, permission of the instructor. This course has variable content and may be taken multiple times for credit.

631 [234] Computer Networks (3). Prerequisites, COMP 431, COMP 530, and knowledge of probability and statistics. Topics in computer networks, including link layer protocols, switching, IP, TCP, and congestion control. Additional topics may include peer-to-peer infrastructures, network security, and multimedia applications.


651 [281] Computational Geometry (3). Prerequisite, undergraduate analysis of algorithms course (e.g., COMP 550) or permission of instructor. Design and analysis of algorithms and data structures for geometric problems. Applications in graphics, CAD/CAM, robotics, GIS, and molecular biology.

662 [250] Scientific Computation (MATH 662) (3). Prerequisites, linear algebra and introductory numerical analysis, or


Curriculum in Contemporary European Studies

www.unc.edu/depts/europe

JOHN STEPHENS, Director

Ruth Mitchell-Pitts, Associate Director

Tanya Kinsella, Curriculum Advisor

Steering Committee

Martine Antle (Romance Languages), Stanley Black (Economics), Konrad Jarasch (History), Gary Marks (Political Science), Francois Nielsen (Sociology), John Pickles (Geography), Donald Searing (Political Science), Richard Soloway (History), John Stephens (Political Science and Sociology).

Affiliated Faculty

Nicholas Allen (English), Sahar Amer (Asian Studies), Anita Angelone (Romance Languages; Italian), Christopher Armitage (English), Susan Bickford (Political Science), Christopher Browning (History), Chad Bryant (History), Erin Carlson (English), Pablo Casado (Romance Languages, Spanish), Dino Cervigni (Romance Languages, Italian), Marsha Collins (Romance Languages, Spanish), Patrick Conway (Economics), Pamela Cooper (English), Carole Crumley (Anthropology), Eric Downing (Comparative Literature), Alfred Field Jr. (Economics), Dominique Fisher (Romance Languages, French), Jonathan Hess (Germanic Languages and Literatures), Beth Holmgren (Russian and East European Studies), Liesbet Hooghe (Political Science), Laura Janda (Russian and East European Studies), Robert Jenkins (Russian and East European Studies), Clayton Koelsch (Germanic Languages and Literatures), Lloyd Kramer (History), Alice Kuzniar (Germanic Languages and Literatures), Diane Leonard (Comparative Literature), Madeline Levine (Russian and East European Studies), Timothy McKeown (Political Science), Hassan Melahy (Romance Languages, French), Thomas Oatley (Political Science), Jose Polo de Barnebe (Romance Languages, Spanish), Gerald Postema (Philosophy), Peter Redfield (Anthropology), Donald Reid (History), Jay Rosenberg (Philosophy), Mary Sheriff (Art and Art History), Jurg Steiner (Political Science), Milada Vachudova (Political Science), Ivana Vuletic (Russian and East European Studies), Xiaodong Wu (Economics).

Introduction

The goal of the Curriculum in Contemporary European Studies (EURO) is to provide a structured undergraduate program on the politics, economics, society and culture of contemporary Europe. The curriculum is designed as a complementary major for students wishing to deepen their understanding of the issues and events currently shaping Europe. Students majoring in EURO are therefore strongly encouraged also to complete a major in an academic department.

A combination of courses and extensive language training will enable students to study contemporary Europe through a sophisticated interdisciplinary framework. In addition to the core and quantitative analysis requirements, contemporary European studies majors must complete six semesters of a European language, bringing them to a level of linguistic proficiency sufficient to operate effectively and conduct undergraduate research in the second language. Other coursework for the major in contemporary European studies focuses on three thematic groupings:

I. Contemporary Europe: Integration and Enlargement

II. Contemporary Europe: Histories and Cultures

III. Contemporary Europe: Images, Narratives and Ideas

Program of Study

The degree offered is bachelor of arts in contemporary European studies.

Majoring in Contemporary European Studies: Bachelor of Arts

To ensure that students take maximum advantage of using General Education requirements to count toward contemporary European studies requirements, the curriculum encourages students who are planning to major in contemporary European studies to visit the Center for European Studies and to consult with the contemporary European studies advisor early on in their course work.

A total of 11 courses is required for a contemporary European studies major, at least four of which must be at the 400-level or above. A minimum of four and a maximum of six courses must be completed within one social science department.

1. Language requirement. Contemporary European studies majors are required to complete a minimum of six semesters of a western European language or to document sixth-semester proficiency through University placement tests. (This is two semesters beyond General College requirements.) One literature course taught in the language may count as a Theme III requirement if it is listed under the theme (see course listings below). EURO majors are strongly encouraged to apply their linguistic proficiency in Languages Across the Curriculum (LAC) courses and to consider completing a UNC-approved study abroad program in their target language.

2. Quantitative Analysis. Intermediate quantitative skills are required to study essential data about economic, social and political developments in contemporary Europe. Contemporary European studies majors are therefore required to complete either EURO 460 (ECON 460) or EURO 451 (POLI 451).

3. Core Requirements. Eight additional courses must be distributed as outlined below, with a minimum of four and a maximum of six courses in a single social science discipline.

Two introductory core courses: EURO 239 (POLI 239) and EURO 159 (HIST 159).

Six thematic courses chosen from the curriculum's three major themes. All majors must select at least one course from Theme I and at least one course from Theme II. The remaining four courses must be distributed over two themes.

I. Contemporary Europe: Integration and Enlargement

ECON 461 European Economic Integration

ECON 560 International Economics Topics

EURO 460 International Economics (ECON 460)
EURO 442 International Political Economy (POLI 442)*
FREN 378 France in Europe
FREN 504 Cultural Wars: French/U.S
GEOG 464 Europe Today
HIST 481 Eastern Europe Since WWII
POLI 232 Politics in England
POLI 236 Politics of Central Europe
POLI 430 Politics in Europe
POLI 433 European Integration in a Global Perspective
POLI 438 Undivided Europe
RUSS 260 Crisis and Change in Russia and Eastern Europe
SOCI 439 Comparative European Societies

May only count as a Theme 1 course if not used to fulfill the
Quantitative Analysis requirement

II. Contemporary Europe: Histories and Cultures

ANTH 377 European Societies
FREN 331 French Civilization II
FREN 377 The Evolution of “Frenchness” since WWII
GERM 257 Society and Culture in Postwar Germany
GERM 270 German Culture and the Jewish Question
GERM 349 Die Jahrhundertwende
HIST 259 Women in Europe Since 1750
HIST 260 Eastern Europe Since 1815
HIST 262 History of the Holocaust: The Destruction of the
European Jews
HIST 458 Europe and the World Wars, 1914-1945
HIST 463 Germany since 1918
HIST 469 European Social History, 1815-1970
HIST 475 Great Britain, 20th Century
HIST 481 Eastern Europe Since WWII
INTS 452 Arab Women and Islam in Contemporary France
ITAL 343 Italian Culture Today: Modern Italy as Nation 1860-
Present
SLAV 306 Languages and Nationalism
SLAV 467 Language and Political Identity
SPAN 340 Cultures of Contemporary Spain

III. Contemporary Europe: Images, Narratives and Ideas

ANTH 449 Anthropology and Marxism
ART 274 Representing Paris
ART 283 Picturing Paris
CMPL 373 Modern Women Writers
CMPL 385 Modernist and Postmodernist Narrative
CMPL 466 Modernism
ECON 434 History of Economic Doctrines
ENGL 190 Studies in Literature: Irish Literature 1800-2000
ENGL 278 Irish Writing 1800-2000
ENGL 378 Contemporary Irish Poetry
ENGL 659 Images of War in 20th-Century Literature
FREN 372 Survey of French Literature
FREN 398 European Cinema
GERM 250 Women in German Cinema
GERM 251 Ideology and Aesthetics: Marxism in 20th-Century
Literature
GERM 255 Germany and the Cold War
GERM 275 History of German Cinema
GERM 381 Berlin: Mapping a (Post) Modern Metropolis
GERM 655 Later 20th-Century Literature
HIST 466 Modern European Intellectual History
ITAL 242 Modern Italian Literature in Translation
HIST 331 Italian Civilization II
ITAL 333 Italian Film and Culture
ITAL 335 Special Topics in Italian Film
ITAL 362 The Modern Italian Novel
ITAL 684 Modern Italian Poetry
ITAL 695 Modern Italian Fiction
ITAL 696 Modern Italian Drama
MUS 253 Studies in Music History Since 1850
MUSC 285 Musical Modernism
PHIL 224 Existential Philosophy
PHIL 229 20th-Century Philosophy
PHIL 494 Existentialism and Phenomenology
POLI 432 Tolerance in Transatlantic Perspective
POLI 472 Problems of Democratic Theory
SLAV 101 Introduction to Slavic Civilizations
SLAV 198 East European Literature
SPAN 635 Modern Spanish Drama

New courses will be added to this list annually as the Center for
European Studies funds their development. An updated list of
approved courses may be obtained from the contemporary
European studies Web site or the contemporary European studies
advisor. Other courses relevant to the study of contemporary
Europe may be taken for credit in the major by petition to the con-
temporary European studies advisor.

Honors

The Curriculum in Contemporary European Studies does not
offer an honors program. Students who wish to pursue an honors
thesis are advised to do so in an academic department in association
with a double major.

Special Opportunities in Contemporary
European Studies

Departmental Involvement

The Center for European Studies is a federally funded National
Resource Center and a European Union Center of Excellence fund-
ed by the European Commission. As such, the center has many
ongoing programs of guest speakers, film festivals, conferences and
cultural events in which contemporary European studies majors are
encouraged to participate. The center is also home to the
Transatlantic Master’s program (TAM), a good fit for contemporary
European studies majors wishing to continue in European studies at
the graduate level.

Study Abroad

Contemporary European studies majors are strongly encouraged
to apply their linguistic proficiency by completing a University-
approved study abroad program in their target language.

Graduate School and Career Opportunities

The major’s combination of courses and extensive language training
enables students to study contemporary Europe through a
sophisticated interdisciplinary framework. Graduates will be well
prepared for graduate studies in the transatlantic master’s program or
in other advanced degree programs with a contemporary
European focus.

Contact Information

Questions about the major should be directed to Tanya Kinsella,
Contemporary European Studies Advisor and Undergraduate
Academic Coordinator at the Center for European Studies, CB# 3449,
(919) 962-1602, kinsella@unc.edu.
EURO

159 20th-Century Europe (HIST 159) (3). A critical overview of 20th-century European history, with particular attention to the constant ethnic, religious, social, economic and cultural struggles (including Holocaust, Cold War) in various sub-units of the old continent.

239 Introduction to European Government (POLI 239) (3). A treatment of the political institutions and processes of Western European democracies, with special attention to France, Germany, England and Italy.

442 International Political Economy (POLI 442) (3). Prerequisites, POLI 150 and ECON 101. Theories of international political economy; major trends in international economic relations; selected contemporary policy issues.

460 International Economics (ECON 460, PWAD 460) (3). Prerequisite, ECON 310 or ECON 410. An introduction to international trade, the balance of payments and related issues of foreign economic policy.

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Cultural Studies
www.unc.edu/depts/cultstud

LARRY GROSSBERG, Director, University Program in Cultural Studies

Affiliated Faculty
Robert Allen (American Studies and History), Carole Blair (Communication Studies), Richard Cante (Communication Studies), Tyier Curtain (English and Comparative Literature), Adrienne Davis (Law), Eric Downing (English and Comparative Literature), Mark Driscoll (Asian Studies), Arturo Escobar (Anthropology and Latin American Studies), Gregory Flaxman (English and Comparative Literature), Madeleine Grumet (Education), Dorothy Holland (Anthropology), Joseph Jordan (African and African American Studies), Joy Kasson (American Studies), Scott Kirsch (Geography), Alice Kuzniar (German Languages), Richard Langston (Germanic Languages), Federico Luisetti (Romance Languages), Christopher Lundberg (Communication Studies), John McGowan (English), Christopher Nelson (Anthropology), George Noblit (Education), John Pickles (Geography and International Studies), Della Pollock (Communication Studies), Peter Redfield (Anthropology), Barry Saunders (Social Medicine), Sarah Sharma (Communication Studies), Randall Styers (Religious Studies), Jane Thraikill (English and Comparative Literature)

Introduction

Cultural studies is an innovative interdisciplinary field of research and teaching that investigates how culture creates and transforms individual experiences, everyday life, social relations, and power. Research and teaching in the field explore the relations between culture understood as human expressive and symbolic activities, and cultures understood as distinctive ways of life. Combining the strengths of the social sciences and the humanities, cultural studies draws on methods and theories from literary studies, sociology, communications studies, history, cultural anthropology, and economics. By working across the boundaries among these fields, cultural studies addresses either historical issues or the problems of today’s world. Cultural life is not only concerned with symbolic communication: it is also the domain in which we set collective tasks for ourselves and begin to grapple with them as changing communities. Cultural studies is devoted to understanding the processes through which societies and the diverse groups within them come to terms with history, community life, and the challenges of the future.

Program of Study

The degree offered is bachelor of arts in interdisciplinary studies. The diploma and transcript will state that the student received a B.A. from the University of North Carolina at Chapel Hill with a major in interdisciplinary studies/cultural studies.

Majoring in Cultural Studies: Bachelor of Arts

Cultural studies is a curricular option within interdisciplinary studies (IDST) administered by the University Program in Cultural Studies. The curriculum in cultural studies is designed for students who wish to develop an educational program that combines the strengths of various departments and curricula in the College of Arts and Sciences. Cultural studies is an area of scholarship that has emerged at the intersection of such academic disciplines as anthropology, communication studies, history, and literary studies. Students devise a personal program of study in consultation with a faculty advisor.

More specifically, cultural studies focuses simultaneously on the production, practice, and dissemination of cultural forms. Courses in cultural studies examine the multi-faceted concept of culture, as well as the history of its emergence in modern discourse. Cultural studies therefore attends closely to issues such as identity construction, forms of representation, and the production of knowledge and power. In addition to its interdisciplinary nature, cultural studies also explores critically and historically the issues and problems that produce, legitimate, and/or challenge traditional disciplinary boundaries.

The University Program in Cultural Studies supports course work and research in: theoretical developments in cultural studies, the practice of cultural studies, cultural studies and the politics of identity, cultural history and the history of “culture,” culture and the geography of power, and popular and performative circulations of culture. Students in cultural studies may address these and other areas, as appropriate.

Each student must complete at least eight courses (twenty-four hours) approved by a cultural studies advisor as fulfilling requirements for the major. Among these courses, students are required to take the cultural studies core course, IDST 350 (Practices in Cultural Studies), prior to graduation, preferably in the junior year. In addition, students are strongly encouraged to take Social Theory and Cultural Diversity offered in several departments (ANTH 380, COMM 318, INTS 380, RELI 323, SOC 380). No more than four courses (twelve hours) taken in the same department may count toward the major credits.

A student should strengthen his or her course of study by choosing Connections and elective courses that complement courses in cultural studies. The cultural studies advisors will regularly publish a list of courses that qualify for the major credits in cultural studies.

Eligibility

As in all other interdisciplinary programs, students interested in cultural studies must be strongly motivated and self-disciplined, and they must assume responsibility to ensure the success of their curricular program. The curriculum is intended for students who already have a record of solid academic performance and have a cumulative grade point average of 2.8 or better.
Each student interested in cultural studies must complete a major declaration form. When preparing to declare the cultural studies major, the student should clearly articulate the rationale for the course of study, identify the area of concentration, and list relevant courses that will be taken. This process should be completed in consultation with a cultural studies advisor, preferably in the sophomore year and no later than the first semester of the junior year. After receiving approval from the cultural studies advisor, who prepares a worksheet containing all major courses, the student should provide a copy to the associate dean for undergraduate curricula in 300 Steele Building to be placed in the official student file.

Examples of recent course of study plans are available from the cultural studies advisors.

All petitions to major in cultural studies are subject to approval.

Honors in Cultural Studies
Students with an overall GPA of 3.2 or above and a GPA of 3.3 or above in cultural studies courses are encouraged to undertake an honors thesis project during the senior year for a total of six credit hours (IDST 693 in the fall and IDST 694 in the spring). These hours will be in addition to the 24 hours (eight courses) minimally required for the major. For more information, consult the guidelines for the honors thesis in cultural studies.

Special Opportunities in Cultural Studies

Departmental Involvement
Students are highly encouraged to attend and participate in events (lectures, colloquia, conferences) sponsored by the University Program in Cultural Studies.

Study Abroad
Experience of other cultures through study abroad is encouraged and can form a crucial part of a student's program of study for the major.

Undergraduate Research
The University Program in Cultural Studies sponsors working groups of faculty and students in culture and economics, culture and science, and representation and performance. Undergraduates are encouraged to join these groups and to contribute to their ongoing research.

Graduate School and Career Opportunities
Given the growing recognition of the importance of culture in every aspect of our society, cultural studies majors are often attractive candidates for a range of innovative and creative enterprises and activities. Cultural studies majors are strong candidates for graduate programs in various disciplines, such as: anthropology, comparative literature, English, film studies and production, urban and regional planning, medical anthropology, and geography. Cultural studies majors are also well-prepared for careers in the cultural industries.

Contact Information
For information about the interdisciplinary studies major in cultural studies, please contact the University Program in Cultural Studies in 111 Bingham Hall, upcs@unc.edu or Scott Kirsch, UPCS Undergraduate Director, 306 Saunders Hall, kirsch@email.unc.edu. For general information about the interdisciplinary studies major, consult Jay M. Smith, associate dean for undergraduate curricula, in 300 Steele Building.

Department of Dramatic Art
www.unc.edu/drama

MCKAY COBLE, Chair
Professors
Mckay Coble, Raymond E. Dooley, Leon Katz (Frey Distinguished Professor), Roberta A. (Bobbi) Owen, Bonnie N. Raphael, Craig A. Turner, Adam N. Versényi.

Adjunct Professors
Judith L. Adamson, Joan Darling, Bill Svanoe.

Adjunct Visiting Professor
J. Kimball King.

Associate Professor
Michael J. Roller.

Adjunct Associate Professors
Julie Fishell, Gregory Kable.

Assistant Professor
John Harris.

Adjunct Assistant Professors
Jeffrey B. Cornell, James Robert McLeod, Kenneth P. Strong.

Visiting Assistant Professor
Jade R. Bettin.

Lecturers
David A. Adamson, Glenna Batson, Robert Fox, Zachary Hamm, Michel Marrano, Mark Perry.

Professors Emeriti
Milly S. Barranger (Alumni Distinguished Professor), Russell B. Graves.

Introduction
The study of dramatic art focuses upon the great dramatic texts of the classical and modern periods and introduces the student to the variety of artistic endeavors necessary to realize the text in theatrical performance. Majors concentrate on the literature and history of the theatre while investigating the processes involved in acting, directing, design, costume, and technical production.

Courses focus on the connections between theatre and society, between theatrical performance and the visual arts, and between dramatic literature and philosophy, history, and other literary forms. The study of theatre embraces a range of subjects in the humanities and fine arts, including literature, language, aesthetics, culture, and performance.

Programs of Study
The degree offered is bachelor of arts in dramatic art. Minors are offered in dramaturgy, theatrical design, theatrical production, and writing for the stage and screen.

Majoring in Dramatic Art
The dramatic art major has eight required courses, with Play Analysis (DRAM 120) the first course for majors. The major provides a broad basis for understanding and appreciating theatre as a cultural entity and as an artistic process. The program also provides opportunities for students to learn and develop basic skills in the various areas of theatre practice. All General Education requirements apply.

The eight-course distribution is as follows:

DRAM 120 Play Analysis
This course is a prerequisite to the acting and literature/history courses required for the major so students planning to major in dra-
matic art should complete it preferably during their first year. (CI, NA, VP) (Majors who use DRAM 120 to fulfill the General Education Requirement in Visual, Performing, and Literary Arts must choose an additional elective course in drama for the major core.)

Three Courses in Dramatic Literature/Theatre History/Criticism.

Two courses must be chosen from:
- DRAM 281 Theatre History and Literature I (CI, NA, WB)
- DRAM 282 Theatre History and Literature II (CI, LA, NA)
- DRAM 283 Theatre History and Literature III (CI, NA, VP)

The remaining course can be chosen from:
- DRAM 281 Theatre History and Literature I (CI, NA, WB)
- DRAM 282 Theatre History and Literature II (CI, LA, NA)
- DRAM 283 Theatre History and Literature III (CI, NA, VP)
- DRAM 284 Studies in Dramatic Theory and Criticism (cannot be repeated for the major core)
- DRAM 285 Modern British Drama (CI, LA, NA)
- DRAM 287 African-American Theatre (CI, VP)
- DRAM 450 Shakespeare in the Theatre (CI, NA, VP)
- DRAM 486 Latin American Theatre (BN, CI, FI, VP)

Acting, Directing, and Design.

Two courses. Only one course from each area may be counted toward the major.
Acting: DRAM 150 Beginning Acting for Majors
Directing: DRAM 300 Directing (CI)
Design:
- DRAM 465 Sound Design
- DRAM 466 Scene Design (VP)
- DRAM 467 Costume Design (VP)
- DRAM 468 Lighting Design (VP)
- DRAM 477 Theatrical Design (VP)

Costume Production or Technical Production.

One course must be chosen from the following two (both satisfy the EE and VP General Education requirements):
- DRAM 191 Technical Methods: Scenery (EE, VP)
- DRAM 192 Technical Methods: Costume (EE, VP)
Production Practicum.
- DRAM 193 Practicum with PlayMakers Repertory Company (transfer credit not allowed). This course fills the General Education EE requirement.

Because the College of Arts and Sciences allows a total of 45 credit hours (15 three-hour courses) in a student’s major to count toward graduation, as many as seven electives can be selected from the broad range of offerings in the department. Students may choose to concentrate on an area (or areas) of special interest within the major: acting, directing, voice, movement, technical production, design (scenic, costume, sound and lighting), costume history, costume construction, dramatic literature and criticism, dramaturgy, stage management, theatre management, and playwriting.

Minoring in Dramaturgy

The minor in dramaturgy consists of four courses.
Play Analysis: DRAM 120 (CI, NA, VP) and
Three courses from:
- DRAM 281 Theatre History and Literature I (CI, NA, WB, VP)
- DRAM 282 Theatre History and Literature II (CI, LA, NA)
- DRAM 283 Theatre History and Literature III (CI, NA, VP)
- DRAM 284 Studies in Dramatic Theory and Criticism (cannot be repeated for the major core)
- DRAM 285 Modern British Drama (CI, LA, NA)
- DRAM 287 African-American Theatre (CI, VP)
- DRAM 450 Shakespeare in the Theatre (CI, NA, VP)
- DRAM 486 Latin American Theatre (BN, CI, FL, VP)

Minoring in Theatrical Design

The minor in theatrical design consists of four courses.
Play Analysis: DRAM 120 (CI, NA, VP) and
Three courses from:
- DRAM 280 Period Styles for the Theatre
- DRAM 465 Sound Design
- DRAM 466 Scene Design (VP)
- DRAM 467 Costume Design I (VP)
- DRAM 468 Lighting Design (VP)
- DRAM 470 Survey of Costume History (HS, NA)
- DRAM 475 Non-Western Costume History (BN, HS)
- DRAM 477 Theatrical Design (VP)
- DRAM 480 Period Styles for Production (NA, VP)
- DRAM 566 Advanced Scene Design
- DRAM 567 Costume Design II

Minoring in Theatrical Production

The minor in theatrical production consists of four courses.
- DRAM 191 or 192 related to area of concentration, and
Three courses selected from among the following:
- DRAM 193 Production Practicum (EE)
- DRAM 465 Sound Design
- DRAM 466 Scene Design (VP)
- DRAM 467 Costume Design I (VP)
- DRAM 468 Lighting Design (VP)
- DRAM 473 Costume Construction I
- DRAM 474 Costume Construction II
- DRAM 477 Theatrical Design (VP)
- DRAM 495 Stage Management (EE)
- DRAM 567 Costume Design II
- DRAM 650 Special Studies: Costume Production

Minoring in Writing for the Stage and Screen

The minor in writing for the stage and screen is an interdisciplinary program drawing upon the faculties and resources of the Department of Dramatic Art, Department of Communication Studies, and the Creative Writing Program of the Department of English.

Director: David Sontag, Department of Communication Studies.

Application Process: Students interested in the minor must have a 2.4 GPA and must have taken ENGL 130 (Introduction to Fiction, Writing Track). All students must submit an appropriate writing sample. Continued participation in successive courses in the sequential minor is based on the student's work and the recommendation of the student's previous instructor(s).

The minor consists of six courses and a prerequisite, ENGL 130, which can be waived upon the recommendation of previous instructors and the submission of appropriate written material. The additional courses are

Fall Junior Year
- DRAM 131/COMM 131 Introduction to Screen and Playwriting
- DRAM 120 Play Analysis (CI, NA, VP)
Spring Junior Year
COMM 546 History of Film
COMM 433 Intermediate Screenwriting or DRAM 231 Intermediate Playwriting

Fall Senior Year
DRAM 331 Advanced Playwriting or COMM 639 Advanced Screenwriting

Spring Senior Year
Electives for playwrights including but not limited to DRAM 290 (Special Studies) and DRAM 195 (Dramatic Art Projects).
Electives for screenwriters including but not limited to COMM 639 Advanced Screenwriting

Honors in Dramatic Art
In order to receive departmental honors, a student must have a 3.5 GPA at the end of the junior year, enroll in DRAM 691H (three hours credit) twice during their senior year, and complete a special project (essay or creative endeavor) approved by the department. A student may then be designated as a candidate for undergraduate honors or highest honors based on department review of the special project or performance. For more information contact: Head, Honors Program, Department of Dramatic Art, CB# 3220, Center for Dramatic Art, (919) 962-1132.

Special Opportunities in Dramatic Art

Departmental Involvement
Two undergraduate students are elected each year from among the majors to serve as representatives to the faculty. They attend faculty meetings and host events that bring students and faculty together.

Performance/Production Opportunities
A major venue for undergraduate performance work is The Lab! Theatre. Each year, The Lab! produces a season of eight fully mounted productions. The Lab! is an entirely student-run organization and gives undergraduates a unique forum to apply the acting, directing, and design methods taught in dramatic art classes. These are low-budget productions with a limited number of performances. The Lab! Board, headed by three producers elected in the spring, oversees the organization; professor Gregory Kable serves as the faculty advisor. Also, there are three additional undergraduate production programs, performed in historic Playmakers Theatre or the Elizabeth Price Kenan Theatre. DDA Advanced Showcase is a venue for faculty- mentored undergraduate production. DDA Playwriting Studio provides a showcase for new student writing. DDA Mainstage is a faculty or guest directed production with student actors and designers. Casting for these production venues is open to all registered UNC students.

Playmakers Repertory Company
Several different aspects of student involvement with Playmakers Repertory Company (PRC, a professional LORT/AEA theatre on campus) are possibilities. Technical assistance, running crews, internships in administration, and assistant stage management positions are open to undergraduates. For appropriate supporting and understudy roles, auditions are held during the year for these productions. PRC engages resident and guest professionals active in regional and commercial theatres as guest actors, directors, and designers. Students have opportunities to associate with and learn from these professionals throughout the year.

Study Abroad
With more than 230 programs available in 60 countries, there are many international experiences structured to enhance the student's undergraduate career. Major/minor credit is available as well as General Education credit. Departmental approval for theatre courses is arranged with the director of undergraduate studies and is coordinated by the Study Abroad Office.

Undergraduate Awards
Each spring, the Department of Dramatic Art awards several monetary prizes, endowed by generous alumni and friends including Andy Griffith and George Grizzard, to its undergraduate majors (and graduate students) who are continuing into the next academic year. In addition, the Sam Selden Prize in Playwriting and the Wes Egan Award in Design are awarded competitively each year.

Undergraduate Research
Faculty and departmental advisors are available to help students define areas of interest, understand the existing knowledge base in a particular area, and develop a plan for meaningful undergraduate research. These goals can be realized through departmental independent study and honors research. See the director of undergraduate studies and the honors advisor for more information. Additional resources are available through the Office of Undergraduate Research at www.unc.edu/depts/our.

Facilities
The Department of Dramatic Art offices, classrooms, studios, rehearsal hall, and construction shops are located in the Center for Dramatic Art. The department also operates three theatres: The Elizabeth Price Kenan Theatre, a 280-seat flexible facility; The Paul Green Theatre, a 499-seat thrust stage, which is the home of Playmakers Repertory Company; and historic Playmakers Theatre, a 285-seat proscenium playhouse, formerly the home of the Carolina Playmakers. Majors have opportunities to work and learn in various capacities in these performance spaces.

Graduate School and Career Opportunities
The dramatic art major is associated with a variety of career opportunities, including graduate study, public relations, communications, arts management, public service, teaching, and theatre-related careers, including literary management, stage management, acting, design, publicity, marketing, fund-raising, technical production, sound and lighting technology, box office management, costuming, electrics, and stage craft.

Contact Information
Director of Undergraduate Studies, Department of Dramatic Art, CB# 3220, Center for Dramatic Art, (919) 962-1132.

For additional information about the application process for the minor in writing for the screen and stage, contact David Song at the Department of Communications Studies.

DRAM
080 [006K] First-Year Seminar: Psychology of Clothes: Motivations for Dressing-up and Dressing-down (3). The course seeks to help students find ways to articulate their own motivations for dress and then apply the ideas they have discovered to the ways in which individuality as well as group attitudes are expressed through clothing.

081 [006K] First-Year Seminar: Staging America: The American Drama (3). This seminar examines American drama
from its colonial origins to the present as both a literary and commercial art form. The focus throughout will be on the forces that shaped American drama as well as drama's ability to shed light on the national experience.

082 [006K] First-Year Seminar: All the World's a Stage: Drama as a Mirror of Society (3). This seminar examines how theatre evolves from and reflects the society that generates it, and how understanding that society can enrich our responses to plays.

115 [015] Perspectives in Drama (3). A survey of plays from the Greeks to the present, analyzed through such elements of the dramatic text as action, character, structure, and language.

116 [016] Perspectives in the Theater (3). A survey of the interrelationships of acting, directing, designing, and playwriting through the study of major periods of theatrical expression and representative plays.

117 [017] Perspectives in World Drama (3). A survey on non-Western drama and theater with emphasis on the historical and aesthetic development of those regions.

120 [020] Play Analysis (3). Development of the skill to analyze plays for academic and production purposes through the intensive study of representative plays. DRAM 120 is the first course in the major and the minors in Dramatic Art.

131 [153] Writing for the Stage and Screen (COMM 131) (3). Prerequisite, ENGL 130 or DRAM 120, or permission of instructor. Introduction to writing screen and stage plays. Required for the interdisciplinary minor in Screen and Stage Writing.

134 Practicum in Theatrical Auditions (1). Prerequisite, Permission of Instructor. Practice in the techniques necessary for successful auditions for the theatre.

135 [035] Acting for Non-majors (3). Introduction to basic processes and techniques of acting for the stage.

140 [040] Voice Training I (3). Fundamental principles underlying the effective use of voice and speech in performance.

145 [037] Acting for the Screen and Stage (3). The course focuses on developing acting techniques for use in front of the camera and the way they are differentiated from those used on stage.

150 [050] Beginning Acting for the Major (3). Prerequisite, DRAM 120. Introduction to acting tools, emphasizing playing actions and pursuing an objective by personalized given circumstances. Performance work drawn from short scripted, improvised, and contemporary scenes.

155 [056] Movement for the Actor (3). Introduction to physical training. Individual/group exercises explore relaxation, breath, concentration, flexibility, and imaginative response that become physical tools for acting. May include stage combat, juggling, mime, improvisation, games, and yoga.

160 [060] Stagecraft (3). General survey of materials, equipment, and processes used in technical theater.

164 Introduction to Stage Makeup (1). Introductory course exploring principles and applications of stage makeup for stage, film, television. May be repeated for a maximum of 3.0 credits. Students receiving credit for 164 receive no credit for 165.

165 [030] Stage Makeup (1-3). A study of principles and techniques for stage, film, and television makeup, including corrective makeup, old age, 3-D, casting for prosthetic pieces, and methods for creating fantasy forms. Also applicable to film and television. Students cannot receive credit for both DRAM 164 and 165.

191 Technical Methods: Scenery (3). Introduction to equipment, procedures, and personnel in the design and execution of plans for scenery, lighting, properties, and sound for theatrical productions. Required for the drama major, open to all undergraduate students.

192 [064] Technical Methods: Costume (3). Introduction to equipment, procedures, and personnel in the design and execution of costumes for theatrical productions. DRAM 191 or 192 required for the dramatic art major, open to all undergraduate students.

193 [066] Production Practicum (3). Prerequisite, DRAM 192 or permission of the instructor. Practicum in production with PlayMakers Repertory Company in costuming, scenery, lighting, or sound.

195 [065] Dramatic Art Projects (1-3). Prerequisite, Permission of department. Limited to juniors and seniors majoring in dramatic art. Intensive individual work in major areas of theatrical production: design, technical, directing, acting, playwriting, management. May be repeated for credit.

231 [155] Playwriting I (3). Prerequisite, permission of department. A practical course in writing for the stage with studio productions of selected works.

235 [036] Acting for Non-majors II (3). Prerequisite, DRAM 135. A further exploration of basic processes and techniques of acting for the stage.

240 [041] Voice Training II (3). Prerequisite, DRAM 140. A continuation of DRAM 140.


250 [051] Intermediate Acting for the Major (3). Prerequisite, DRAM 150. A deeper exploration of fulfilled actions prompted by an objective, with emphasis on developing techniques required by more formally structured texts such as Sophocles, Molière, Ibsen, Shaw, and Chekhov.

255 [057] Movement for the Actor II (3). Prerequisite, DRAM 155 or permission of instructor. Development of balance, flexibility, strength, focus, grace, and precision through martial art of T'ai Chi Ch'uan. Emphasis on applying T'ai Chi principles to acting. Chinese philosophical bases for T'ai Chi explored.

260 Advanced Stagecraft (3). Prerequisite, DRAM 160 or permission of instructor. The course provides practical applications of principles and techniques used in technical theatre. Lectures are supported by individually scheduled workshop sessions where techniques are applied to a theatrical production.

280 [175] Period Styles for the Theater (3). A study of visual, cultural, and social styles through history as the forms developed, and as they relate to stylistic production for the theater. Students may not receive credit for both DRAM 280 and 480.

281 [081] Theater History and Literature I (3). Prerequisite, DRAM 120. Survey of theater practice and writing from the Greeks to 1700.
282 [082] Theater History and Literature II (3). Prerequisite, DRAM 120. Survey of theater practice and writing from 1700 to 1920.

283 [083] Theater History and Literature III (3). Prerequisite, DRAM 120. Survey of theater practice and writing from 1930 to the present.

284 [084] Studies in Dramatic Theory and Criticism (3). Seminar in dramatic theory and criticism with emphasis on the modern period. May be repeated for credit.

285 Modern British Drama (3). Prerequisite, DRAM 120. Evolution of modern British drama from 1956 through the present.

287 African-American Theatre (3). Prerequisite, DRAM 120. This course investigates the history and legacy of African-American drama through the study of its literary texts, performance styles, and cultural history.

290 [192] Special Studies (0.5-3). Permission of undergraduate adviser. Credit for performance and/or production experience in Department of Dramatic Art productions, including PlayMakers Repertory Company. A minimum of 15 hours per week is required during the rehearsal period and a faculty evaluation is provided at the close of the production. May be repeated for credit.

300 [062] Directing (3). Prerequisite, DRAM 120 or permission of instructor. Generally limited to majors. An introductory course in the principles of stage directing; analysis for concept, organization of production, and methodology of staging.

331 [157] Playwriting II (3). Prerequisite, DRAM 231. A practical course in writing for the theater; taught at an advanced level.

350 [052] Advanced Acting for the Major (3). Prerequisite, DRAM 250. Development of the actor's technique in verse drama with emphasis on scansion and textual analysis as guidelines for actions, characterization, and given circumstances. Scene and monologue work drawn from the works of Shakespeare.

395 [194] Professional Theater Laboratory (1-12). Prerequisite, permission of department. Individual programs or internship in acting, directing, design, management, and playwriting under the guidance of professional practitioners in conjunction with PlayMakers Repertory Company or other professional theater organizations.

450 [150] Shakespeare in the Theater (3). Prerequisite, DRAM 120. Generally limited to majors only. A study of the literary, stage history, and production problems of representative plays.

465 [165] Sound Design (3). The study of general principles of sound design for the theater. Theory and application of sound design techniques for the stage, including script analysis, staging concepts, special effects, sound plots, and technology.

466 [166] Scene Design (3). Prerequisite, permission of instructor. General principles of visual design as applied to scenery for the theater. Instruction in standard techniques of planning and rendering scene design.

467 [167] Costume Design I (3). Prerequisite, permission of instructor. Studies and practicum in play analysis and costume design for the theater. Instruction in techniques of planning and rendering costume design.

468 [168] Lighting Design I (3). Prerequisite, permission of instructor. General principles of lighting design as applied to the performing arts. Theory and instruction in standard techniques of lighting for the stage.


473 [173] Costume Construction I (1-3). Prerequisite, permission of instructor. Beginning instruction in pattern making through flat pattern for theatrical costume.

474 [174] Costume Construction II (1-3). Prerequisite, DRAM 473 or permission of instructor. Beginning instruction in pattern making through draping on a dress form for theatrical costume.

475 [171] Costume History: Africa, Asia, and Arabia (3). A survey of the traditional costume forms on the African Continent, in Asia (China, Japan, India), and on the Arabian Peninsula.

477 [177] Theatrical Design (3). Prerequisite, DRAM 120. General principles of scenic, costume, and lighting design for the theatre.

480 [185] Period Styles for Production (3). A study of the historical development of Western minor arts and the ramifications of reproducing them for the theater. Majors may not receive credit for both DRAM 280 and 480.

484 [390] Studies in Dramaturgy and Criticism (3). This seminar seeks to introduce students to the principles of arts criticism through study of the work of a variety of different critics, by distinguishing between the nature of criticism and reviewing the arts, and through the students' own practice of critical writing.

486 [086] Latin American Theater (3). Prerequisite, DRAM 120. This course explores the historical and aesthetic development of Latin American theater, focusing on particular factors that distinguish this theater from the Western European tradition.

488 U.S. Latino/a Theater (3). Prerequisite, DRAM 120. Investigation of U.S. Latino/a theater texts and performance practices as a discrete genre. U.S. Latino/a theater will be distinguished from the dominant culture, and diversity of forms and styles discussed.

490 [190] Theater Management (3). Practicum in theater management procedures and business of the theater involving box office, audience development, research, publicity, operational, and contract procedures in regard to artists, technicians, managers, and producers. Students actively engage in management areas of the PlayMakers Repertory Company and productions of the Department of Dramatic Art.

491 Issues in Arts Management (3). Arts management issues taught through analysis of case studies. Course includes management theories, organizational structures, and current issues.

495 [101] Stage Management (3). Prerequisite, permission of department. A study of the basic principles and practices of modern stage management.

566 [176] Advanced Scene Design (3). Prerequisite, DRAM 466 or permission of instructor. Advanced study of the principles and practice of designing scenery for the theater.

567 [169] Costume Design II (3). Prerequisites, DRAM 467 and permission of instructor. Practicum in costume design for the theater focusing on the requirements of professional theater production and alternative costume design solutions.
595 [198] Costume Seminars I: Dyeing and Painting (1-3).
Prerequisite, DRAM 192, Technical Methods (costume), and
permission of instructor. Series of topics in costume for use in design and
production for the stage. May be repeated for credit for a total of six
hours for undergraduates and 12 hours for graduate students.
Taught in a four-semester rotation.

597 Costume Seminars II: Millinery and Hair (1-3).
Prerequisite, permission of instructor. Advanced costume produc-
tion techniques with an emphasis on millinery and hair design.

598 Costume Seminars III: Masks and Armor (1-3).
Prerequisite, permission of instructor. Advanced costume produc-
tion techniques with an emphasis on creating masks and armor.

599 Costume Seminars IV: Decorative Arts (1-3). Prerequisite,
permission of instructor. Advanced costume production techniques
with an emphasis on decorative arts.

650 [196] Costume Production I: Couture Methods (0.5-3).
Prerequisite, DRAM 192, Technical Methods, Costume section.
Advanced construction techniques in theatrical costuming with
an emphasis on couture methods.

667 [245] Advanced Costume Design I (1-3). Prerequisite, per-
mission of instructor. Study of costume design for students con-
centrating in costume production.

691H [099] Honors Project in Dramatic Art (3). Prerequisites,
3.5 Cumulative GPA and permission of department. The completion
of a special project (essay or creative endeavor), approved by the
department, by a student who has been designated a candidate for
undergraduate honors.

697 [094] Senior Seminar (3). Close study of the interrela-
tionships between theory and practice in contemporary world theater;
placing developments in their cultural contexts, and exploring cur-
rent theatrical trends in an international framework.

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**Department of Economics**

[www.unc.edu/depts/econ](http://www.unc.edu/depts/econ)

**JOHN S. AKIN, Chair**

**Professors**

John S. Akin, Gary A. Biglaiser, Stanley W. Black, Patrick J.
Conway, Alfred J. Field Jr., Richard T. Froyen, Eric Gyssels,
David K. Guilkey, Thomas A. Mroz, James L. Murphy, Edward
Norton, Eric Renault, Steven S. Rosefield, Michael K. Salemi,
John F. Stewart, Helen V. Tauchen.

**Lecturers**

Rita Balaban, Burton Goldstein, Stephen Lich-Tyler.

**Adjunct Professors**

Richard Billsborrow, Ralph Byrns, Peter Coclani, Jennifer
Conrad, Barry Popkin, Frank Sloan.

**Associate Professors**

Donna B. Gilleskie, Peter Norman, William Parke, Boone A.
Turchi.

**Adjunct Associate Professors**

James Anton, Scott Baker, Robert Connolly, Sally Stearns,
Rachel A. Willis.

**Assistant Professors**

Sandra Campo, Neville Francis, Thomas Geraghty, Vijay
Krishna, Oksana Leukhina, Sergio Parreiras, Xidong Wu.

**Professors Emeriti**

Dennis Appleyard, Arthur Benavie, James Friedman, A. Ronald
Gallant, James Ingram, David McFarland, Thomas Orsagh,
Ralph Pfouts, Vincent Tarascio, Roger Waud, James Wilde.

**Introduction**

Economics is commonly defined as the study of how society allo-
cates scarce resources to satisfy unlimited wants. In other words,
economics focuses upon the fact that we wish to maximize our satis-
faction through the consumption of goods and services (including leisure time); however, the resources available for production are
limited. Hence, decisions must be made regarding what to produce,
how to produce it most efficiently, and how to distribute the output
among the various members of the society. Economics analyzes the
market framework for making such choices.

At the microeconomic or "individual unit" level, economics
examines the behavior of consumers, business firms, workers and
individual markets. At the macroeconomic or "aggregate" level,
attention is given to the national and international problems of
unemployment, inflation, balance of payments, and economic
growth. The role of government with respect to these issues is also
considered because the market cannot properly allocate all goods
and services without allowances for non-competitive forces, exter-
nal effects such as pollution, and concern over the distribution of
income. Additionally, non-market or "command" economies are
compared with market economies.

In recent years, many students have chosen to double major in
economics and another academic discipline. Combinations of eco-
nomics with majors such as mathematics, international studies, for-

gn language, and political science can be useful to students con-
templating private employment, government employment, or gra-
duate work in economics, planning, law, or business administration.

The courses leading to a B.A. degree with a major in economics
comprise a large area of inquiry into the problems and structure of
the economic segment of society. The curriculum provides the
opportunity to achieve one or more of the following objectives:

A. General education for intelligent citizenship with special
emphasis on understanding the principles and problems of
modern economic life.

B. Preparation for private employment. In pursuing this objective,
supplementary courses in business administration (especially
accounting courses) may be selected and integrated with the stu-
dent's program.

C. Preparation for governmental employment.

D. Preparation for graduate programs in economics, business
administration, international studies, law, health and hospital
administration, city planning, public policy, and other fields.
Specialized undergraduate programs incorporating double
majors and interdisciplinary studies.

**Program Restrictions**

ECON 101 or equivalent is a prerequisite to all courses numbered
above the 100 level. In addition, University graduation credit will be
given for only one in each of the following sets of courses:

- ECON 310 and 410
- ECON 320 and 420
- ECON 320 and 423
- ECON 330 and 430
- ECON 340 and 440
- ECON 345 and 445
- ECON 380 and 480
Programs of Study
The degree offered is bachelor of arts in economics. A minor in entrepreneurship is offered.

Majoring in Economics: Bachelor of Arts
Students must complete all General Education requirements, including at least one calculus course (MATH 231 or STOR 112 is recommended; MATH 116 is not acceptable) and ECON 101, with a grade of C or better. ECON 101 will satisfy the SS requirement, and the calculus course, the QR requirement. ECON 400 may be taken after completion of a calculus course.

To complete the B.A. in economics in the College of Arts and Sciences, a minimum of 40 courses, or 120 semester hours, must be completed in accordance with the following distribution:

A. At least seven courses in economics, in addition to ECON 101, are required. They must include ECON 400, 410, and 420. The remaining four economics courses must be at the 400, 500, or 600 level, and include at least one course above the 400 level. Note that 200 and 300 level courses do not count toward the major. A grade of C must be attained in at least six of the seven major courses numbered above 101. (Note: One exception to this course requirement is that the completion of STOR 155, BUSI 410, and 411 will substitute for ECON 400. If this substitution is made, another major-level economics course must be taken in its place so there are seven economics courses in addition to ECON 101.)

B. For majors in the department's Honors Program, the minimum is eight economics courses rather than seven courses, in addition to ECON 101. The same provisions apply except that ECON 691H and 692H must constitute two of the eight courses.

C. Maximum number of economics courses: An economics major may take as many as 15 courses in economics, or 45 hours, toward the B.A. degree.

D. Both ECON 400 and 570, appropriate for majors, satisfy the QR requirement.

E. Either the Distributive or Integrative option for B.A.-level arts and sciences majors is required.

F. Sufficient free elective courses to reach the 120 credit hours are required for graduation.

Minoring in Entrepreneurship
This minor is designed for students wishing to remain in another discipline, but who have an interest in the process of entrepreneurship. There are two tracks in the minor. One track is for students who have an interest in business entrepreneurship, and the other is for students with an interest in social entrepreneurship. Entrepreneurship is the mechanism by which new products, services, and organizational processes are identified, refined, and ultimately realized as a sustainable part of the society. There is a common process for the realization of both new commercial and social ventures. The minor will provide the student with the background to undertake entrepreneurial activity in either the business or social realm. An internship opportunity is a key component of the minor.

The minor is not open to undergraduate business majors. ECON 325 and 328 cannot be counted toward an economics major.

The minor consists of a prerequisite of ECON 101 and four courses.

- Prerequisite: ECON 101 Principles of Economics
- ECON 325 Introduction to Entrepreneurship
- PLCY 326 Social Ventures or ECON 327 Business Venturing Workshop
- ECON 328 Internship in Entrepreneurship
- One elective chosen from BUSI 100; SOCI 131, 410, 412, 415, 427; COMM 325; PHIL 164; ECON 330, 430, 345, 445, 460, 465; HIST 364, 625; JOMC 130, 170, 175.

Honors in Economics
The Department of Economics Honors Program offers outstanding economics students the opportunity to work closely with an individual faculty member on a specialized research topic of the student's choice during the senior year. Generally, students with a 3.5 grade point average in economics courses and in all University course work are invited to participate in this two-course program (ECON 691H and 692H).

In the first semester (ECON 691H), students become familiar with the recent literature on topics of major interest. Each candidate formulates an honors thesis proposal and initiates work on the project. In ECON 692H, the thesis work is conducted under the supervision of a faculty advisor who is a specialist in the general topic area of the research.

Near the end of second semester (ECON 692H), the student submits to an oral examination on the thesis. Upon successful completion of the program, the student receives the bachelor of arts degree with honors or with highest honors. Students in the honors program are also required to complete at least an eight-course major rather than the minimum seven courses, including ECON 691H and 692H.

Special Opportunities in Economics
Departmental Involvement
Undergraduates in economics recently organized an active club (the Carolina Economics Club). Seminars, social activities, and greater interaction among students and with faculty have resulted from the formation of this on-going organization. The club has also helped the Department of Economics conduct an annual job fair. All majors are invited to participate in this organization's activities. In addition, the local chapter of Omicron Delta Epsilon, the national economics honor society, annually extends membership to those outstanding junior and senior economics majors who have demonstrated strong academic performance both overall and in their economics courses.

Undergraduate Awards
Each spring the Chancellor awards the Undergraduate Prize in Economics to the undergraduate student majoring in economics who has been judged the most outstanding on the basis of major and related course performances.

Graduate School and Career Opportunities
Economics students in recent years have frequently pursued graduate work in law and business administration, as well as the Ph.D. degree in economics. Others have entered international affairs/international studies programs. Students planning to pursue graduate work in economics should continue to take mathematics courses beyond the required level, and a minor or second major in mathematics is recommended.

Most students have accepted employment with commercial and investment banks, accounting and insurance firms, and a variety of other corporations. The economics major competes well with other majors (including business administration) in the job market. Employment surveys of recent graduates by UNC-Chapel Hill's University Career Services indicate a relatively high ranking for economics majors in terms of employment rates and starting salaries.
Note: Recent majors have found that job possibilities are enhanced if at least one accounting course has been completed at the undergraduate level.

Contact Information
John Stewart, Professor of Economics, (919) 966-2383, John_stewart@unc.edu; or Buck Goldstein, University Entrepreneur in Residence, (919) 843-3294, Buck_goldstein@unc.edu.

ECON

050 [006E] First-Year Seminar: Future Shock: Global Economic Trends and Prospects (3). The Asian and Russia economic crises of 1998 suggest that we may be entering a turbulent economic era. Are we heading for global depression and an intensification of international conflict as in the 1930s? Or are we on the threshold of a golden age of peace and prosperity? This course will use the tools of economics and international security analysis to examine the probable directions of that change.

051 [006E] First-Year Seminar: Current Economic Problems: The Economics of North Carolina (3). Basic concepts of economics through the study of basic economic issues facing the residents of North Carolina. Topics will include hog farming, the Carolina Panthers, the outsourcing of manufacturing jobs, the proliferation of Wal-Marts, and more.

052 [006E] First-Year Seminar: The Root of All Evil? Money as a Cultural, Economic, and Social Institution (3). It is amazing that over time people have developed the willingness to exchange valuable goods for useless pieces of paper called money. In this course, students study money as a social, economic, historical, and cultural institution.

053 [006E] First-Year Seminar: The Costs and Benefits of the Drug War (3). The basic question examined in this course will be the costs and benefits of the U.S. policy of drug prohibition. As a seminar the class will consist of discussions and debates.

054 First-Year Seminar: The Entrepreneurial Imagination: Turning Ideas Into Reality. What are the skills and competencies that great entrepreneurs have in common and how might first-year students begin to acquire such skills? This course will answer the question by combining a study of the writings of leading scholars on innovation and entrepreneurship with analytical case studies on successful entrepreneurs.

055 Economics of Sports (3). This course uses a variety of economic tools to analyze selected topics and issues related to professional and collegiate athletics.

100 [009] Economic Principles (3). Discussion of economic topics of current interest for students with little or no background in economics.

101 [010] Introduction to Economics (3). Introduction to fundamental issues in economics including competition, scarcity, opportunity cost, resource allocation, unemployment, inflation, and the determination of prices.

231 [036] Economic History of Western Europe (3). Main features of the emergence and expansion of capitalism since 1500.

234 [059] Survey of the History of Economic Thought (3). Introduction to the development of economic thought from the Mercantilists, through Smith and the Classicists, Marx, the Neoclassicists to Keynes.


285 Access to Work (AMST 285) (3). Focus on systemic and individual factors affecting access to work including gender, race, age, disability, transportation, international competition, technological progress, change in labor markets, educational institutions, and public policy.

310 [100] Microeconomics Theory and Applications (MNGT 310) (3). Analysis of the ways in which consumers and business firms interact in a market economy. Students may not receive credit for both ECON 310 and 410.

320 [130] Macroeconomics: Theory and Policy (3). Analysis of economic theory and government policy as they relate to such national economic variables as output, income, employment, inflation, investment, and budget and trade deficits. Students may not receive credit for both ECON 320 and 420 or both ECON 320 and 423.

325 [080] Introduction to Entrepreneurship (3). Prerequisites, ECON 101 and permission of instructor. A historical overview of the role and importance of entrepreneurship in the economy and society, and a survey of the critical competencies all entrepreneurs (commercial, social, or artistic) must possess.

326 [081] Social Venture Creation (PLAN 326) (3). Prerequisite, ECON 325. Continues training in marketing, finance, strategy, operations, public/community relations. Focuses on entrepreneurial enterprises, programs, or sustainable projects intended to create social value and promote positive social change.

327 Business Venturing Workshop (3). Prerequisites, ECON 325 and permission of instructor. A comprehensive survey of commercial venturing throughout the lifecycle of a venture from initial conception to execution and exit. Outlines strategies of entrepreneurs to develop ventures in different commercial markets.

328 [083] Internship in Entrepreneurship (3). Prerequisites, BUSI 599 (special section), permission of instructor. Students spend a minimum of eight weeks in an entrepreneurial environment taking on significant responsibilities and working on a specific project that results in a rigorous agreed-upon deliverable.


340 [140] Introduction to Public Finance (3). Principles and practices of the budgetary activities of American governments - federal, state, and local. Students may not receive credit for both ECON 340 and 440.

345 [145] Public Policy Toward Business (MNGT 345) (3). Prerequisite, ECON 310 or 410. Industry structure and its relation to performance; market imperfections; description and analysis of antitrust and regulation. Students may not receive credit for both ECON 345 and 445.

360 [096] Survey of International and Development Economics (INTS 360) (3). An introduction to basic economic concepts critical to understanding issues of economic development and international economics, particularly as they relate to contemporary policy issues facing both developing and industrialized countries.
380 [190] The Economics of Labor Relations (MNGT 380) (3). Prerequisite, ECON 310 or 410. An economic analysis of workplace issues, including worker quits, layoffs and unemployment, discrimination and affirmative action, and the setting of pay, fringe benefits, and working conditions. Students may not receive credit for both ECON 380 and 480.

384 [084] Introduction to Philosophy, Politics, and Economics (PHIL 384, POLI 384) (3). See PHIL 384 description.

385 Women and Economics (AMST 385, WMST 385) (3). Survey of women’s time allocation patterns, labor force participation trends, earnings, occupational selection, and economic history.

390 [092] Current Economic Problems (3). Analysis and discussion of current policy issue using an economic framework. Topics such as tax reform, environmental controls, announced prior to each offering.

395 Research Course (1-3). Topic varies from semester to semester.

396 Independent Study (1-3). Topic varies from semester to semester.

399 Experimental Course (1-3). Topic varies from semester to semester.

400 Elementary Statistics (3). Sources and collection of data, tabular and graphic presentation, averages, dispersion, time-series, correlation, index numbers, reliability of statistics, and tests of significance. A student may not receive credit for this course after receiving credit for BUSI 202.

410 [101] Intermediate Theory: Price and Distribution (3). Prerequisite, MATH 152 or equivalent. The determination of prices and the distribution of income in a market system. Students may not receive credit for both ECON 310 and 410.

420 [132] Intermediate Theory: Money, Income, and Employment (3). An introduction to contemporary macroeconomic concepts and analysis. Topics include the level, fluctuations, and growth of national income, and monetary and fiscal policies designed to achieve economic goals. Students may not receive credit for both ECON 320 and 420.

423 [185] Financial Markets and Economic Fluctuations (3). Prerequisite, ECON 420. An examination of financial institutions and markets, their role in economic conditions, and the use of macroeconomic policies in affecting those conditions. Students may not receive credit for both ECON 320 and 423.

430 [138] Economic Development of the United States (3).Prerequisites, ECON 410 and 420. Students may receive credit for either ECON 330 or 430 but not for both. This course parallels ECON 330 but is designed for students with a higher level of theoretical preparation.


440 [141] Analysis of Public Finance (3). Prerequisite, ECON 410. Application of economic analysis to the taxing and spending functions of government. Students may not receive credit for both ECON 340 and 440.

445 [147] Industrial Organization (3). Prerequisite, ECON 410. Theoretical and empirical development of structure-conduct-performance relationships in the industrial sector; description and analysis of U.S. industry. Students may not receive credit for both ECON 345 and 445.


454 [165] Economics of Population (3). Prerequisite, ECON 310 or ECON 410 or permission of instructor. Analysis of economic-demographic interrelations including demographic analysis, population and economic growth and development, economic models of fertility and migration, and population policy.

460 [161] International Economics (PWAD 460) (3). Prerequisite, ECON 310 or 410. An introduction to international trade, the balance of payments, and related issues of foreign economic policy.

461 [160] European Economic Integration (3). Prerequisite, ECON 310 or ECON 410 or permission of instructor. Economic and political aspects of European economic integration, the EC customs union, barriers to integration, convergence vs. divergence of inflation rates and income levels, enlargement of the EC.

463 [164] International Economics from the Participant's Perspective (INTS 463) (3). Prerequisite, ECON 360 or permission of instructor. This course examines the fundamental principles of international economics from the perspective of the private business firm. Rather than begin with abstract theory, the course will work with case studies of individual firms as they choose to (or are forced to) compete in an international marketplace.

465 [163] Economic Development (3). Prerequisite, ECON 310 or ECON 410 or permission of instructor. An introduction to the economic characteristics and problems of the less developed countries and to the theories and policies applicable to the developing economy.

468 [168] Principles of Soviet and Post-Soviet Economic Systems (3). Prerequisite, ECON 310 or 410. Study of the principles, design, organization, and performance of state-controlled economies relying on planning or regulated markets, with an emphasis on continuity and post-communist transition.

469 [169] Western and Asian Economic Systems (ASIA 469) (3). Prerequisite, ECON 310 or 410. Policy seminar on the systemic factors distinguishing Western economies from their rivals in the former Soviet bloc and Asia, focused on conflict resolution and global integration.

480 [194] Labor Economics (3). Prerequisite, ECON 410. An introduction to the field of labor economics with emphasis on how the interactions between firms and workers influence wages, employment, unemployment, and inflation. Students may not receive credit for both ECON 380 and 480.

490 Special Topics (1-3). Topic varies from semester to semester.

495 Research Course (1-3). Topic varies from semester to semester.

496 [199] Seminar in Economics (1-3). Detailed examination of selected problems in economics and a critical analysis of pertinent theories.
Experimental Course (1-3). Topic varies from semester to semester.


511 [183] Game Theory in Economics (3). Prerequisites, ECON 410 and MATH 233 or permission of instructor. Topics in noncooperative and cooperative game theory are covered, along with a selection of applications to economics in areas such as industrial organization, international trade, public finance, and general equilibrium.

520 [182] Advanced Macroeconomic Theory (3). Prerequisite, ECON 420. This course will emphasize theoretical and empirical topics such as growth, labor search, Phillips curves, stagflation, and optimal government policy.

540 [142] Advanced Public Finance (3). Prerequisite, ECON 340 or 440. Selected topics in taxation, public expenditures, and governmental transfer programs.


560 [162] Advanced International Economics (3). Prerequisite, ECON 460. Analysis and interpretation of selected problems and policy issues. Content varies, but attention is given to such topics as trade barriers, trade patterns, floating exchange rates, and international monetary policy.

570 [170] Economic Applications of Statistical Analysis (3). Prerequisite, ECON 400 or equivalent. Statistical methods in the construction, estimation, testing, and application of linear economic models; computer programs and interpretation of their output in empirical analysis of common economic theories.

580 [195] Advanced Labor Economics (3). Prerequisite, ECON 480. A theoretical and empirical analysis of current social problems involving individuals and their jobs. Included are such topics as poverty, discrimination, and working conditions.

586 [180] Economics of the Family (3). Prerequisite, ECON 410 or permission of instructor. Analyzes the family with respect to the marriage market; divorce; reproductive behavior; the baby black market; intrafamily allocation of goods, time, and power; labor supply; migration; and family policy.

590 Special Topics (1-3). Topic varies from semester to semester.

595 Research Course (1-3). Topic varies from semester to semester.

596 Independent Study (1-3). Topic varies from semester to semester.

599 Experimental Course (1-3). Topic varies from semester to semester.

691H [098] Honors Course (3). Prerequisite, permission of instructor. Readings in economics and beginning of directed research on an honors thesis. Required of all candidates for graduation with honors in economics.

692H [099] Honors Course (3). Prerequisites, ECON 691 and permission of instructor. Completion of an honors thesis under the direction of a member of the faculty. Required of all candidates for graduation with honors in economics.

698 Philosophy, Politics and Economics II: Capstone Course (PHIL 698, POLI 698) (3). This capstone course advances PHIL 384, focusing on the theoretical and philosophical issues, such as the analysis of rights or distributive justice and the institutional implications of moral forms.

Department of English and Comparative Literature

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JAMES P. THOMPSON, Chair

Professors

Associate Professors

Assistant Professors
Inger S. B. Brodey, Rebecka Fisher, Gregory Flaxman, Jennifer Ho, Jordynn Jack.

Adjunct Professors
Dino Cervigni, Marsha S. Collins, Alice A. Kuzniar, James L. Peacock.

Adjunct Associate Professors
Donna Bickford, Alicia Rivera.

Professors Emeriti

Introduction
To major in English at the University is to pursue the central goals of a liberal arts education by studying the most illuminating literary works of Western culture in a department known for its excellent and dedicated teachers. Traditionally, the study of English and American literature draws vitality from exploring great works in the context of other academic disciplines.
Comparative literature explores major works of literature and theory, as well as interrelations among national literatures, thereby enabling students to acquire a broad, liberal education. Sophomores planning to major in comparative literature should take the two-semester Great Books course (CMPL 121 and 122). One of these courses can be used to fulfill the literary arts Approaches requirement in General Education.

The majors in English and comparative literature foster:
1. Knowledge of major works of literature, which range in marvelous variety from traditional classics like Beowulf, Chaucer's Canterbury Tales, Shakespeare's plays, Cervantes, Wordsworth's poetry, novels by Charles Dickens, Flaubert, William Faulkner, James Joyce and Virginia Woolf, to exciting works of authors in our own time, such as Toni Morrison and Gabriel Garcia Marquez.
2. Collateral knowledge of many other fields - African American studies, anthropology, art history, biography, folk lore, economics, social and intellectual history, religious studies, classical and modern languages, linguistics, philosophy, psychology, women's studies and others - that help to recover and reveal the significance of literary works.
3. Persistent training in the techniques by which cultural phenomena of all kinds can be fruitfully studied.
4. Constant attention to the development of students' skills in reasoning and in oral and written communication.

Programs of Study
The degrees offered are bachelor of arts in English and bachelor of arts in comparative literature. Minors are offered in English, comparative literature, creative writing and Latina/o studies. The minor in writing for the screen and stage is an interdisciplinary program drawing on the faculties and resources of the Department of Dramatic Art, Department of Communication Studies and the Creative Writing Program of the Department of English. For information, see the Department of Dramatic Art in this bulletin.

Majoring in English: Bachelor of Arts
All General Education requirements apply. ENGL 101 and 102 are prerequisites to all other English courses unless exempted by placement exams. ENGL 120 and 121 are required for the major, but are not prerequisites to the upper level courses.

The major requires 10 courses.
- ENGL 120 British Literature, Chaucer to Pope
- ENGL 121 British Literature, Wordsworth to Eliot
- ENGL 225 Shakespeare
- One pre-1660 British literature: ENGL 226, 227, 228, 229, 230, 319, 320, 420
- One 1660-1900 British literature: ENGL 331, 332, 333, 338, 339, 436, 437, 438, 439, 440, 441, 442
- One American literature: ENGL 343, 344, 347, 348, 367, 443, 444
- One post-1900 British and/or American literature: ENGL 345, 350, 351, 355, 356, 360, 368, 443, 444
- Three focus courses: Students may choose focus courses (numbered between ENGL 200 and 699) in consultation with their faculty mentors. Students should view these courses (which may include any of the courses listed among the core requirements) as an opportunity to further their work in historical periods or to explore other fields, methods, themes and approaches to literature. The three courses can share a common ground - organized, for example, around a theme, a historical period or periods, a genre, a critical approach, a national, regional or ethnic grouping, or a writing focus - or they can combine a range of different interests.

English majors may choose additional focus courses in the department, though they should keep in mind that no more than 45 semester hours of English (excluding English 100, 101 and 102) may be used toward fulfillment of the B.A. graduation requirement.

Students must have a grade of C or better in at least 18 semester hours in courses numbered ENGL 120 and above to satisfy the major requirements.

Majoring in Comparative Literature: Bachelor of Arts
An undergraduate major consists of eight courses beyond CMPL 121 and 122: either one literature course in classics (not including CLAS 125, 126, 263, 265, or 415) or a course in one major author (e.g., ENGL 320 Chaucer, ENGL 225 Shakespeare, RUSS 464 Dostoevsky, ITAL 240 Dante, SPAN 280 Cervantes, etc.); two literature courses in a foreign language (beyond the General Education foreign language requirement, usually 220 or higher; these would be in addition to the major author course mentioned above if the course in the major author is taken in the original foreign language); and five courses taught as or cross-listed as comparative literature (COMP) courses, to be chosen in consultation with the undergraduate advisor. CMPL 250 (Approaches to Comparative Literature) or CMPL 251 (Introduction to Literary Theory) is required as one of the five courses. CMPL 691H and 692H can be included among the five courses.

Students may choose to take comparative literature as a second major, a particularly attractive option for students majoring in a foreign language since two of the foreign language major requirements can also count toward the eight-course major requirement in comparative literature. Undergraduates majoring in comparative literature may minor in any department, curriculum or school in which a minor program is offered. The two foreign language literature courses required for the major in comparative literature may not also be counted as part of a minor in any of the foreign language departments.

Minoring in English
The English minor consists of five courses:
- ENGL 120 or 121 (both are recommended).
- One American literature course: ENGL 343, 344, 347, 348, 367, 443, 444.
- At least three courses numbered between ENGL 200 and 699.

Minoring in Comparative Literature
The minor in comparative literature is available to any undergraduate who has completed CMPL 121 and 122. In addition to CMPL 121 and 122, the minor consists of three additional courses listed or cross-listed in comparative literature, with one exception. Courses cross-listed between comparative literature and classics
may not be counted for a minor in comparative literature by students majoring in classics.

**Minoring in Creative Writing**

The Creative Writing Program, centered in the Department of English, offers four different levels of workshop - introductory, intermediate, advanced and senior honors - which can lead to graduation with honors in creative writing and/or a minor in creative writing. The minor requires 15 hours, a total of five courses. Students need to begin work toward the minor by their sophomore year and may take one creative writing class per semester. The minor in creative writing may follow a fiction, poetry or multi-genre track.

Completion of a minor in creative writing is contingent on the student's successful advancement through the sequence. Note that enrollment in all courses beyond the introductory level is by permission only. Also note that a minor may be earned in any combination of creative writing courses and does not necessarily have to include senior honors.

The courses for the fiction track and poetry track are:

**Fiction:**
- ENGL 130 Introduction to Fiction Writing or ENGL 133H First-Year Honors in Fiction Writing
- ENGL 206 Intermediate Fiction Writing
- ENGL 406 Advanced Fiction Writing
- ENGL 693H and 694H (a yearlong two-semester senior workshop, which counts as two courses and can lead to graduation with honors or with highest honors in creative writing)

**Poetry:**
- ENGL 131 Introduction to Poetry Writing or ENGL 133H First-Year Honors in Poetry Writing
- ENGL 207 Intermediate Poetry Writing
- ENGL 407 Advanced Poetry Writing
- ENGL 693H and 694H (a yearlong two-semester senior workshop, which counts as two courses and can lead to graduation with honors or with highest honors in creative writing)

Other creative writing courses include ENGL 208 (Creative Nonfiction), ENGL 209 (Writing Children's Literature), ENGL 210 (Writing Adult Literature), ENGL 306 (Playwriting), ENGL 307 (Study in Stylistics) and ENGL 412 (Creative Writing - Contemporary Issues).

ENGL 130, 131, 132H and 133H, the introductory classes, are prerequisites to other Creative Writing Program classes. ENGL 130 and 131 are open for registration by rising sophomores only during spring semester for the following fall and for current sophomores only during fall semester for the following spring. Rising or current sophomores may register for ENGL 130 or 131, not both. Demand by sophomores regularly exceeds the number of seats available. Enrollment of juniors and seniors is on a space available basis by permission of the instructor, and they may inquire of the instructor during the first week of classes to see if seats are available. ENGL 130 and 131 are sometimes offered during summer sessions with no registration restrictions. Please always review summer session course listings for any changes or updates.

Advancement to successive courses in either the fiction or poetry sequence is by recommendation of the student's previous instructor(s) and by application for both the advanced workshops and honors seminars. If possible, the student is assigned to a different instructor for each course. Should students not advance beyond the intermediate level, they may choose to finish the minor with other classes offered in creative writing. Creative writing minors receive priority in all creative writing classes and usually fill all seats.

To receive a minor in creative writing, a student may take 15 hours in the fiction or poetry sequence, as described above, or take a collection of courses from fiction, poetry, nonfiction and so on. The Creative Writing Program also gives credit toward the minor for several courses offered in other departments, such as DRAM 231, playwriting; COMM 330 and 433, screenwriting; and JOMC 256, feature writing. A student may seek permission from the program's director to declare the minor once he or she has taken two courses and is on track to graduate with three more without doubling up in any one semester. To receive a degree with honors or highest honors in creative writing, students must maintain a 3.2 grade point average and meet all requirements to both enter and complete the Senior Honors Seminar (ENGL 693H and 694H). Students minoring in creative writing must also plan carefully when intending on studying abroad and keep in mind submission and deadline requirements for applying to successive courses.

Students completing the five courses for the minor may take additional creative writing courses only by permission of the director, providing that all other students still completing the minor are served first.

Please note that online courses do not count towards the creative writing minor.

**Transfer Students: Important Information**

The requirement for taking a minor in creative writing is five courses or 15 semester hours. Students are limited to one creative writing course at a time. Most junior transfer students have four semesters remaining. Junior transfer students wanting to minor in creative writing will need to:

1. Secure a seat in an introductory workshop (ENGL 130 for fiction writing or ENGL 131 for poetry writing), if space is available by permission of instructor, during their first fall semester at Carolina and then take their final course during an additional semester (five semesters at Carolina will be necessary).
2. OR take an introductory course via UNC-Chapel Hill Summer School if offered prior to their first fall term at Carolina and be promoted to the next level or to another creative writing class (on a space available basis).
3. OR have an introductory course already on their record that will transfer to Carolina as credit - i.e., an introductory course in fiction writing or poetry writing taken at their former college or university that is transferring in as credit for ENGL 130 or 131.

Permission to move forward with transfer credit for an introductory course requirement will require a review of the syllabus and work completed in the course by the creative writing faculty and is dependent on space availability, which cannot be guaranteed. Students must provide hard copies of syllabi and samples of course work as early as possible in order to ensure time for review and to schedule a meeting with the director.

Junior transfers who are able to minor in creative writing via option 1 above would not be eligible to apply for Advanced Fiction or Poetry (ENGL 406 or 407) or the senior honors seminars and would need to complete the minor using the multi-genre approach. Students fitting options 2 and 3 would be eligible for those courses if provided to and there is space available in
Intermediate Fiction (206) or Intermediate Poetry (207) their first fall semester.

**Minoring in Latina/o Studies**

Latina/o studies as a field is constituted out of the interdisciplinary or transdisciplinary study of Latina/o cultural production and experience in terms of a whole variety of factors. Latinas/os are defined as people of Latin American and, possibly, Iberian descent living in the United States or U.S.-based, but moving between the United States and the rest of the Americas. Latina/o studies takes as its primary concern the presence of Latin America, Spain and the myriad combinations of Hispanic-Native-American cultures within the borders of the United States. However, Latina/o studies is not confined within those borders either to the extent that its subjects of study (and the very creators of the field itself) are in motion and in flux, coming and going, continually crossing borders and boundaries. In this respect it does share some of the transnational and transcultural scope, momentum and issues of Latin American studies but with its own foci, its own perspectives. Latina/o studies does not duplicate the work of Latin American studies; it draws on it and complements it.

Latina/o studies is characterized by heterogeneity. Latina/o studies encompasses Chicana/o studies, Puerto Rican studies, Cuban American studies, Dominican studies and so forth, and it must take into account the cultural production and the socio-economic and political experiences of a diverse population located in many parts of the country, not just in the Southwest borderlands, though, of course, those are of primary importance. As such, it offers plenty of opportunity for specialization.

The main stipulation of the minor is that students must take a combination of courses in the humanities (literatures and cultural production) and the social sciences (communities and cultural space), some of which have been designated as core courses and others as electives. Students who feel they need a basic introduction to Latina/o studies should take ENGL 364 (Introduction to Latina/o Studies).

Requirements for the five course minor in Latina/o studies are as follows:

**Two Core Courses**
- One humanities/fine arts course in Latina/o literatures and cultural production chosen from ENGL 265/AMST 390, ENGL 364, ENGL 465, ENGL 665, ENGL 666, ENGL 885, MUSC 147, AFAM 293, SPAN 398, HISTR 490, HISTR 561, DRAM 488, MUSC 286
- One course in social sciences or Latina/o communities and cultural space chosen from GEOG 50 or 51 (first-year students only), GEOG 452, ANTH 130, AFAM 278, PLCY 249/INTS 249

**Three Electives**
- Courses chosen from the core or from AFAM 254, DRAM 468. At least one elective must be from the humanities and at least one from social sciences.

**Honors in English and in Creative Writing**

The department offers at least two honors seminars each semester. Students seeking a degree with honors (GPA of 3.6 required) also undertake a yearlong independent senior project (ENGL 693H and 694H), usually a 40-50-page thesis. Students working on these projects normally meet every week with the professors supervising their projects. This opportunity for individually directed research and writing often proves to be a high point of the student’s academic career.

**Honors in Comparative Literature**

 Majors who have a minimum overall grade point average of 3.2 or higher at the end of their junior year will be invited by the director of undergraduate studies to do honors work in comparative literature. To receive departmental honors, students in their senior year sign up for a two-semester sequence of independent study courses (CMPL 691H, 692H) under the direction of an advisor. During the two semesters, the student will write an honors thesis and defend it in an oral examination on the basis of which honors or highest honors will be awarded. Both CMPL 691H and 692H may count among the CMPL courses required for the major.

**Special Opportunities in English and Comparative Literature**

**Creative Writing**

One of the English Department’s special strengths is in creative writing. Excellent fiction and poetry writers are members of the permanent staff, and because many famous writers live in or near Chapel Hill, others periodically teach in the department. Recent students – Kaye Gibbons, Jill McCorkle and Bland Simpson are among them – have developed national reputations for creative writing after studying in the English Department with professors such as Daphne Atias, Doris Betts, William Harmon and Jim Seay.

**Departmental Involvement**

The department provides opportunities for students to get to know each other and faculty members in informal settings. Each year the department sponsors events that mingle social, educational and career-oriented discussions and activities. Visit the department’s Web page for information. Students will have the opportunity to participate in lectures, colloquia and conferences, including events sponsored by CLOUD (the Comparative Literature Organization for Undergraduate Discussion), such as the annual Comparative Literature International Film Series. For information on CLOUD, see www.unc.edu/cloud and www.unc.edu/depts/complit.

**Faculty Directors**

Students have an opportunity to request a faculty mentor with whom they can consult regarding their career as an English major. To request a mentor, students should visit english.unc.edu/undergrad/mentoring.html.

**Study Abroad**

Some of the best programs offered at the University for study overseas are especially appropriate and useful to English majors. These include semester- or yearlong programs at Bristol, Manchester, Sussex, Edinburgh, Glasgow and certain Australian universities. Students who have a minimum GPA of 3.3 at the end of their sophomore year can participate in the King’s College Exchange Program at King’s College, London. Special opportunities are also available at Oxford University. For information on all overseas programs, see the Study Abroad Office or visit the Web site studyabroad.unc.edu.

**Graduate School and Career Opportunities**

As in the past, many English majors go on to graduate programs in business, law, medicine, education and other fields; some pursue careers as college professors of English. Chapel Hill English majors have been welcomed by the best graduate programs in the country, including those at Berkeley, Chicago, Harvard, Princeton, Virginia and Yale. The University’s own strong graduate program admits
undergraduates who have majored here. The English major provides essential preparation for numerous career paths in business and government as well as in educational, legal and medical professions in a society whose leaders increasingly value breadth of information; the capacity to comprehend complex situations from multiple perspectives; and readiness to describe, evaluate and promote—in clear and forceful language—new ideas as well as civilizing influences of a shared past.

Recent English and comparative literature majors have consequently found profitable careers in virtually all professions, including business and government consulting, investment banking, financial management, journalism, law, medicine, magazine and book publishing, and teaching (elementary, secondary and university levels). Majors should take General Education and elective courses in fields that bear on careers they may wish to pursue. For instance, the combination of an English or comparative literature major with some courses in economics and business will long been recognized as one of the best ways to prepare for careers in the business world or in law. Today business leaders often prefer to hire people who have such preparation rather than an undergraduate degree in business administration. Many medical schools now show a marked preference for students who major in disciplines like English, as long as they also take a prescribed number of courses in chemistry and biology. The possibilities are limitless, though first-time job seekers must plan to search energetically to locate jobs after graduation. Work experience and serious extracurricular activities undertaken during college years often prove especially helpful for liberal arts majors seeking to enter the work force directly after college. A bachelor of arts in comparative literature may be particularly useful to anyone considering a career that involves cross-cultural communication or international perspectives, including a career in international business or international law. Students wishing to pursue a teaching or research career within English or comparative literature must generally do graduate work, preferably on the PhD level; however, some students have used their degrees as part of their preparation to teach literature in secondary schools.

English and comparative literature majors will find that they will have many opportunities for graduate study. Not only is the major excellent preparation for graduate programs in many areas of the humanities, it is also ideal for those students wishing to enter professional schools. For example, the interpretation of literary texts is analogous to the interpretation of legal texts that a student will encounter in law school. Medical schools often search for students who can understand the human side of medicine. English and comparative literature can provide special insights into the human condition in its various cultural and historical settings, preparing the prospective physician for dealing with the larger ethical issues of medicine.

For the student wishing to continue study in comparative literature, the importance of foreign language preparation cannot be overemphasized. Requirements for admission to most M.A. programs in comparative literature include mastery of English and one other language, and most PhD programs require mastery of English and two other languages. Thus a second major in a foreign language offers good preparation for graduate study in comparative literature.

Contact Information

Director of Undergraduate Literature Courses, CB# 3520, 211 Greenlaw Hall, (919) 962-6922. Web site: english.unc.edu.
worldwide, considering the varieties that have developed in Singapore, South Africa, the Caribbean islands and the American South and their histories.

060 [006M] First-Year Seminar: Awakenings: Coming of Age in Modern American Literature and Film (3). Through a study of modern novels, films, essays and occasionally a poem, this seminar will study moments of awakening to a life-defining concept of the self.

061 [006M] First-Year Seminar: Turner, Wagner, Hardy: An Interactive Conspectus of All the Arts (3). Scrutiny of graphic art (by Turner), music and music drama (by Wagner), and literature (Hardy); comparisons and correlations: materials for a lifetime of self-education.

062 [006M] First-Year Seminar: Martin Luther King Jr.: His Legacy in African American Literature (3). Seminar will tie together history, politics, the civil rights movement and literature in an exploration of King's impact upon the nation and particularly upon the South.

064 [006M] First-Year Seminar: Ethics and Children's Literature (3). An investigation of how the tradition of children's books addresses and negotiates central questions of existence and conduct, focusing on the ways ethical problems are formed in such literature.

065 [006M] First-Year Seminar: The Sonnet (3). Students will read more than 100 sonnets, learn the sonnet's different forms and relate them to the cultural environments in which they were written over the past four centuries.


067 [006M] First-Year Seminar: Travel Literature (3). Students will read examples of several kinds of travel literature, e.g. voyage, pilgrimage, exploration, tour and mission. Special attention to North Carolina as a tourist venue.

068 [006M] First-Year Seminar: Radical American Writers, 1930-1960 (3). The evolution of leftist American literature from the Depression through the early Cold War. Authors include Mary McCarthy, Clifford Odets, Arthur Miller, Saul Bellow and others.

070 [006M] First-Year Seminar: Courtly Love – Then and Now (3). Study of the medieval concept of courtly love, tracing its classical antecedents, its expression in Renaissance literature (especially Shakespeare) and its influence in modern culture.

071 [006M] First-Year Seminar: Doctors and Patients (3). This course explores the human struggle to make sense of suffering and debility. Texts are drawn from literature, anthropology, film, art history, philosophy and biology.


074 [006M] First-Year Seminar: Epic/Anti-Epic in Western Literature (3). In this course, students will study epic and anti-epic strains in Western literature, reading key texts in the epic tradition from Homer and Virgil through the 20th century in light of various challenges to that tradition and tensions within it.

075 [006M] First-Year Seminar: Interpreting the South from Manuscripts (3). The aim of the course is to give beginning university students the requisite research skills to allow them to appreciate and to contribute to an understanding of the past by directly experiencing and interpreting records from the past. Students will actually get to work with historical documents, some more than 200 years old.

076 [006M] First-Year Seminar: Decadence, Nihilism and Aestheticism: 1870-1910 (3). This course will explore four writers of this period in order to examine a range of responses to what each writer saw as a crisis in the West's ability to provide both a prosperous and a meaningful life for all people.

077 [006M] First-Year Seminar: Seeing the Past (3). This course will introduce students to practices of critical analysis that inform academic work in all the core humanistic disciplines: how do we ask analytical questions about texts, artwork and other cultural artifacts that come down to us from the past or circulate in our own culture?

078 [006M] First-Year Seminar: The Life and Writing of William Butler Yeats (3). This course will explore the range of Yeats' work, of first editions, pamphlets, manuscripts and essay collections to assess how Yeats' practice evolved from Mosada (1886) to Last poems and plays (1939), with special emphasis on group research.

079 [006M] First-Year Seminar: Globalization/Global Asians (3). This course will explore the concept of globalization by focusing on the Asian diaspora, particularly the artistic and cultural productions that document, represent and express Global Asians.

080 [006M] First-Year Seminar: The Politics of Persuasion: Southern Women's Rhetoric (3). Narratives of women spies, social reformers, missionaries, teachers, blockade runners and escapees from slavery help uncover persuasive strategies used to challenge the limited roles to which women were assigned.

081 A Century of W. H. Auden (3). An examination of Auden's work as a poet, playwright, critic, librettist, documentarian, travel writer and exemplary literary figure who was at home in Europe and America.

100 Basic Writing (3). Required for incoming students with SAT I Writing of 460 or lower. Provides frequent practice in writing, from short paragraphs to longer papers, focusing on analysis and argument. Workshop format.

101 [011] English Composition and Rhetoric (3). Required of all students except those exempted by placement tests. Students practice the writing conventions that define social, cultural and professional communities. Up to nine papers, including research projects.

102 [012] English Composition and Rhetoric (3). Required of all students except those exempted by placement tests. Students practice the writing conventions that define various academic disciplines. Up to nine papers, including research projects.

1021 English Composition and Rhetoric (Interdisciplinary) (3). Required of all students except those exempted by placement tests. Students practice the writing conventions that define various academic disciplines. Up to nine papers, including research projects.


122 Introduction to American Literature (3). Representative authors from the time of European colonization of the New World through the 20th century.

123 [023] Introduction to Fiction (3). First-year and sophomore elective, open to juniors and seniors. Novels and shorter fiction by Defoe, Austen, Dickens, Faulkner, Wolfe, Fitzgerald, Joyce and others.

124 [024] Contemporary Literature (3). First-year and sophomore elective, open to juniors and seniors. The literature of the present generation.

125 [025] Introduction to Poetry (3). First-year and sophomore elective, open to juniors and seniors. A course designed to develop basic skills in reading poems from all periods of English and American literature.

126 [026] Introduction to Drama (3). First-year and sophomore elective, open to juniors and seniors. Drama of the Greek, Renaissance and modern periods.

127 Writing About Literature (3). Course emphasizes literature, critical thinking and the writing process. Students learn how thinking, reading and writing relate to one another by studying poetry, fiction, drama, art, music and film.

128 [028] Major American Authors (3). A study of approximately six major American authors drawn from Emerson, Thoreau, Hawthorne, Melville, Stowe, Whitman, Clemens, Dickinson, Chesnutt, James, Eliot, Stein, Hemingway, O'Neill, Faulkner, Hurston or others.


131 [025W] Introduction to Poetry Writing (3). A course in reading and writing poems. Close study of a wide range of published poetry and of poetic terms and techniques. Composition, discussion and revision of original student poems.

140 [022Q] Introduction to Gay and Lesbian Culture and Literature (WMST 140) (3). Introduces students to concepts in queer theory and recent sexuality studies. Topics include queer lit, AIDS, race and sexuality, representations of gays and lesbians in the media, political activism/literature.

141 World Literatures in English (3). This course will be a basic introduction to literatures in English from Africa, the Caribbean, South Asia, Canada, Australia, New Zealand and other Anglophone literary traditions.

142 [042] Film Analysis (3). This course offers an introduction to the technical, formal and narrative elements of the cinema.

143 Film and Culture (3). Examines the ways culture shapes and is shaped by film. This course uses comparative methods to contrast films as historic or contemporary, mainstream or cutting-edge, English- or foreign-language, etc.

144 Popular Genres (3). Introductory course on popular literary genres. Students will read and discuss works in the area of mystery, romance, westerns, science fiction, children’s literature and horror fiction.

145 Literary Genres (3). Studies in genres including drama, poetry, prose fiction or nonfiction prose, examining form, comparing that genre to others (including popular genres), placing works within a tradition or a critical context.

146 Science Fiction/Fantasy/Utopia (3). Readings in and theories of science fiction, utopian and dystopian literatures and fantasy fiction.

147 Mystery Fiction (3). Studies in classic and contemporary mystery and detective fiction.

148 Horror (3). From its origins in Gothic and pre-Gothic literatures and arts, this course examines the complexities and pleasures of horror. Topics include psychology, aesthetics, politics, allegory, ideology and ethics.

190 [027] Introduction to Literary Studies (3). Introduces students to the field of literary studies while emphasizing a single writer, group, movement, theme or period. Students conduct research, develop readings and compose literary interpretations.

206 [034] Intermediate Fiction Writing (3). Prerequisites, ENGL 130 or 132H; permission of the director of the Creative Writing Program. Substantial practice in those techniques employed in introductory course. A workshop devoted to the extensive writing of fiction (at least two short stories), with an emphasis on style, structure, dramatic scene and revision.

207 [034P] Intermediate Poetry Writing (3). Prerequisites, English 131 or 133H; permission of the director of the Creative Writing Program. An intensification of the introductory class. A workshop devoted to close examination of selected exemplary poems and the students' own poetry, with an emphasis on regular writing and revising.

208 [035N] Reading and Writing Creative Nonfiction (3). Prerequisite, English 130, 131, 132H, or 133H; or permission of instructor. A course in reading and writing creative nonfiction, focusing on three of its most important forms: the personal essay, nature writing and travel writing.

209 [039] Reading and Writing Children's Fiction (3). Prerequisite, English 130, 131, 132H, or 133H; or permission of instructor. A course in reading and writing children's fiction, focusing on five important forms: folk tale, fairy tale, picture book, young adult and biography.

210 Writing Young Adult Literature (3). Prerequisite, ENGL 130, 131, 132H, or 133H; or permission of instructor. A course in reading and writing young adult fiction, with a focus on the crafting of a novel.


226 [045] Renaissance Drama (3). A survey of Renaissance drama focusing on contemporaries and successors of Shakespeare during the Elizabethan and Jacobean periods.

228 [060] Literature of the Later Renaissance (3). Poetry and prose from the late Elizabethan years through the "century of revolution" into the Restoration period after 1660: Donne, Jonson, Bacon, Herbert, Burton, Browne, Marvell, Herrick and others.

229 [049B] Renaissance Women Writers (3). This course introduces students to a variety of Renaissance English texts authored by women. Topics include historical perspectives on women and gender and methodological approaches to Renaissance feminist study.


246 Introduction to American Indian Literatures (3). Students will develop a working knowledge of American Indian cultural concepts and historical perspectives utilizing poetry, history, personal account, short stories, films and novels.

261 [090] An Introduction to Literary Criticism (3). An introduction to literary criticism in English studies, with an emphasis on historical developments from Plato to the present.

262 Literature and Cultural Difference (3). Studies in the diversity within and between African American, Asian American, Latina/o, Native American, Anglo-Indian, Caribbean, GLBTQ, feminist, proletarian and other literatures in English. Intended for ENGL majors.

263 [050] Literature and Gender (WMST 263) (3). Intensive study, focused on gender issues, of criticism and writing.

264 Literature and Sexuality (3). A literary and cultural critical examination of the role sex plays within the creation, consumption and regulation of literature.

265 [090C] Literature and Race, Literature and Ethnicity (INTS 265) (3). Considers texts in a comparative ethnic/race studies framework and examines how these texts explore historical and contemporary connections between groups of people in the United States and the Americas.

266 Science and Literature (3). Introductory exploration of the relation between science and literature, as well as the place and value of both in the contemporary world.

278 Irish Writing, 1800-2000 (3). This course introduces major texts and current themes, from Joyce to the postcolonial, in Irish writing from 1800 to 2000.

279 The Irish Literary Revival (3). Course will examine the roots and development of the Irish literary revival, in the work of Yeats, Joyce, Lady Gregory and Shaw, from 1890 to 1930.

280 The Western (3). This course offers a broad overview of the western as a literary and especially cinematic genre.

281 Literature and Media (3). This course investigates the rich and complex relationship between literature and other mass media.

282 Travel Literature (3). Students will analyze various types of travel literature, such as voyage, pilgrimage and tour, in terms of literary conventions, historical conditions and considerations of gender, ethnicity, economics, empire and religion.

283 Life Writing (3). Exploration of different forms of life writing such as autobiography, biography and autoethnography. Readings will include theories of autobiography and selected literature.

284 Reading Children's Literature (3). An overview of the tradition of children's literature, considering the ways those books point to our basic assumptions about meaning, culture, self, society, gender, economics.

285 Classical Backgrounds in English Literature (3). A survey of Greek and Roman epic and lyric poetry, literary criticism and philosophy designed for the undergraduate English major.

286 Nature Writing (AMST 313, ENST 286) (3). Introduction to the field of nature writing surveys historical periods, authors and a variety of genre; cross-cultural and multi-disciplinary; study classics in the field such as A Sand County Almanac.

287 [091C] Another Country: Homoeoticism in British Literature (3). This course will examine themes of homoeoticism, gender identity, class relations and the changes in cultural norms precipitated by World War I in literary works by British men.

288 Literary Modernism (3). In this course students will read early 20th-century poetry, fiction, films and criticism, and consider the ways these works constituted, defined and challenged the phenomenon known as literary modernism.

289 [049J] Jewish-American Literature and Culture of the 20th Century (JWST 289) (3). Through readings in a wide range of genres, this course will examine major factors and influences shaping Jewish American literature and culture in the 20th century.

300 [030] Advanced Expository Writing (3). Advanced practice with critical, argumentative and analytic writing, including forms of the essay. Special attention to style, voice and genre.

3001 [030] Advanced Expository Writing (Interdisciplinary) (3). Advanced practice with critical, argumentative and analytic writing, including the essay. Special attention to writing in the disciplines of life and applied sciences, social sciences (including business) and humanities.

301 Advanced Expository Writing for the Humanities (3). Advanced practice with the oral and written discourse of the humanities. Special attention to disciplinary rhetoric, style, genre, format and citation.

302 Advanced Expository Writing for the Social Sciences (3). Advanced practice with the oral and written discourse of the social sciences. Special attention to disciplinary rhetoric, style, genre, format and citation.

303 [033] Advanced Expository Writing for the Natural Sciences (3). Advanced practice with the oral and written discourse of the natural sciences. Special attention to disciplinary rhetoric, style, genre, format and citation.

304 [032] Advanced Expository Writing for Business (3). Advanced practice with business and professional oral and written discourse. Special attention to disciplinary rhetoric, style, genre, format and citation.

305 Advanced Expository Writing for Law (3). Advanced practice with legal oral and written discourse. Special attention to disciplinary rhetoric, style, genre, format and citation.

306 Playwriting (3). Prerequisite, ENGL 130, 131, 123H, or 133H; or permission of instructor. A workshop for people interested in
writing plays, focusing on elements that make them work on stage, such as: characterization, climax, dialogue, exposition, momentum, setting and visual effects.


313 [036] Grammar of Current English (3). An introductory course in descriptive English linguistics that studies the sounds, word-building processes and sentence structures of current English as well as general notions of correctness and variation.

314 [038] History of the English Language (3). A study of the development of English from its Proto-Indo-European origins to modern English, with emphasis on how events and contacts with other languages influenced the vocabulary of English.

315 [094A] English in the U.S.A. (3). A historical and critical examination of regional, social and stylistic variation in English in the United States, including correctness, legal and educational issues and the influence of mass media.

319 [051] Introduction to Medieval English Literature, Excluding Chaucer (3). An introduction to English literature from the eighth century to the 15th, focusing on the primary works of Old English and Middle English literature.

320 [052] Chaucer (3). An introduction to Chaucer's major poetry: Troilus and Criseyde, the "dream" poems (e.g., Parliament of Fowls) and The Canterbury Tales.

321 Medieval and Modern Arthurian Romance (CMPL 321) (3). Representative examples of Arthurian literature from the Middle Ages and 19th and 20th centuries, with some attention to film, art and music.

322 Medieval England and Its Literary Neighbors (3). A study of the external literary influences which shaped Old and Middle English, notably the vernacular literatures of England's Celtic neighbors (Wales, Brittany, Scotland and Ireland) and/or France.

325 Shakespeare and His Contemporaries (3). This course explores the wide range of drama produced in England between the 1570s and 1640s, including work by Shakespeare and his many rivals.

326 Renaissance Genres (3). This course traces the historical evolution/devolution of Renaissance literary genres. Each offering will focus on a single genre or set of kinds.

327 Renaissance Literature and its Intellectual Contexts (3). A focused study of one or two intellectual movements of the Renaissance through the literary and nonliterary texts of the period.

328 Renaissance Authors (3). This course involves the detailed study of a substantial author of the English Renaissance, such as Sidney, Spenser, Marlowe, Raleigh, Bacon, Jonson, Donne, Browne or Herbert.

330 Perspectives on the Renaissance (3). Students will study Renaissance literature while assessing the usefulness and status of a theoretical approach, such as feminist theory, queer theory, cultural materialism, new historicism or psychoanalytic theory.

331 [066] 18th-Century Literature (3). A survey of British literature from Dryden to Paine.


338 19th-Century British Novel (3). Important novelists in the tradition, from Austen to Wilde.

339 English Romantic-Period Drama (3). Covers history of the British theater, 1780-1840, with representative plays and closet dramas, by playwrights such as Holcroft, Cowley, Inchbald, Baillie, Coleridge, P.B. Shelley and Byron.

343 [080] American Literature before 1860 (3). Selected topics or authors in American literature from the period of European colonization of the New World through the onset of the Civil War.

344 [081] American Literature, 1860-1900 (3). Instructors choose authors or topics from the period 1860-1900. The course may be organized chronologically or thematically, but is not intended as a survey.

345 [082] American Literature, 1900-2000 (3). Instructors choose authors or topics from the period 1900-2000. The course may be organized chronologically or thematically, but is not intended as a survey.

347 [083] The American Novel (3). The development of the American novel, from the late 18th century through the 20th century. May proceed chronologically or thematically.

348 American Poetry (3). Content of course varies with instructor, but students are given a sense of the chronological, stylistic and thematic development of American poetry over two centuries.

350 [093] 20th-Century British and American Poetry (3). Poetry in English from the middle of the 19th century to the present, approached historically, thematically, technically, politically and aesthetically; concentration on analysis, comparison and synthesis.

351 [095] British and American Drama of the 20th Century (3). The course focuses on modern drama in English. Most of the plays will come from the British and American theaters, though a few may exemplify the European background of modern drama or the colonial reach of the English language.

353 Modern Women's Literature (3). This course will examine literature written in English by women, focusing on issues of style and genre and their relation to gender.

355 [091] The British Novel from 1870 to World War II (3). Students will read novels in English, including Joyce, Woolf and Proust, to explore how writers from across cultures created new strategies to represent the late 19th and 20th century worlds of imperialism, science and experiment.

356 [092] British and American Fiction since World War II (3). Course studies contemporary British and American fiction through representative works. Intellectual and aesthetic, historical and cultural emphases. May include works from the Anglophone diaspora.

360 [070] Introduction to Contemporary Asian American Literature and Theory (ASIA 360) (3). This course will provide an introduction to contemporary Asian American literature and the-
ory and examine how Asian American literature fits into, yet extends beyond, the canon of American literature.

361 Literature and Diaspora (3). Course looks at diaspora movements as expressed in literary, cultural, historical and theoretical sources. Topics include cultural constructions of race, transnational circulations of ideology and transformative potential of imagined communities.

362 Theories of Language (3). A sustained examination of what is meant by “language,” this course reads major philosophical and critical-theoretical texts from Plato to contemporary evolutionary biological accounts of language/representation.

363 [090B] Feminist Literary Theory (WMST 363) (3). Theories of feminist criticism in relation to general theory and women’s writing.

364 [079] Introduction to Latina/o Studies (INTS 364) (3). Introduction to the major questions within Latina/o studies in terms of transnationalism, transculturation, ethnicity, race, gender, sexuality, systems of value and aesthetics.

365 Migration and Globalization (3). Covers literary works associated with one or more of the major historical migrations, forced and voluntary and present-day works engaged with globalization.

366 Literature and the Other Arts (3). Course examines relationships of literature to the other arts, especially music and the visual arts, in terms of similar period characteristics and of distinct material and formal constraints.

367 [084] African American Literature to 1930 (3). Survey of writers and literary and cultural traditions from the beginning of African American literature to 1930.


370 [088] Southern American Literature (3). An introduction to Southern literature, with emphasis on the 20th-century: fiction, poetry, drama, essays. Representative authors include Faulkner, Wolfe, Williams, Warren, Hurston, Wright, Ransom, Tate, Welty, Chappell, McCullers, O’Connor.

374 [087] Southern Women Writers (WMST 374) (3). The study of fiction, poetry, plays and essays by Southern American women writers of the past 200 years, continuing to the present.


377 Introduction to the Celtic Cultures (3). A broad survey of the cultures of the Celtic-speaking areas, notably, Ireland, Wales, Scotland and Brittany, with special emphasis on language and literature.

378 Contemporary Irish Poetry: Heaney and After (3). Students will read modern Irish poetry from Seamus Heaney to the present, addressing issues of language, culture and society.

379 Irish Prose from Joyce to Doyle (3). Students will read modern Irish poetry from Seamus Heaney to the present, addressing issues of language, culture and society.

380 Film History (3). The course offers an introduction to the history of cinema and, in particular, to a period of film history.

381 [142] Literature and Cinema (3). The course introduces students to the complex narrative and rhetorical relationship between literature and cinema.

382 Regionalism (3). This course introduces students to the organization and conceptualization of American literatures by geography and local culture. The course looks at literature from a diverse array of groups and locales.

383 Literary Nonfiction (3). An introduction to the many forms of creative nonfiction by contemporary writers. Will include nonfiction literature as well as theoretical and critical responses to such literature.

384 The Lesbian Novel (3). In this course, students will discuss the formation and evolution of lesbian identities as manifested in novels in English in the 20th century.

385 Literature and Law (3). Explores various connections of literature and law, including: literary depictions of crime, lawyers and trials; literary conventions of legal documents; and/or shared problems in interpretation of law and literature.

387 [089] Canadian Literature (3). A study of Canadian literature in English from the late 18th century to the present, with emphasis on 20th-century writing and on the novel.

388 Modernism: Movements and Moments (3). What was Modernism? When was Modernism? Where was Modernism? Reading literature and visual art from 1890 to 1940 in Europe, America and Africa will be key to finding answers.

390 [091] Studies in Literary Topics (3). An intensive study of a single writer, genre, movement, theme or period.

396 [096] Directed Readings in English or Creative Writing (3). Intensive reading on a particular topic under the supervision of a member of the staff. Section 001 (English) requires special permission of committee on honors. Section 002 (creative writing) requires special permission of the director of the Creative Writing Program.

400 [031] Advanced Composition for Teachers (3). This course combines frequent writing practice with discussions of rhetorical theories and strategies for teaching writing. The course examines ways to design effective writing courses, assignments and instructional materials.

401 [031E] Advanced Composition for Elementary Teachers (3). This course introduces students to the teaching of writing and reading in the elementary grades. Students explore composition theory and learn about effective practices for improving writing.

405 Writing Literary Genres (3). Focuses on producing writing in a particular genre or form such as personal essay, autobiography or creative nonfiction.

406 [035] Advanced Fiction Writing (3). Prerequisites, English 206 and permission of the director of the Creative Writing Program. A continuation of the intermediate workshop with emphasis on the short story, novella and novel. Extensive discussion of student work in class and in conferences with instructor.

407 [035P] Advanced Poetry Writing (3). Prerequisites, English 207 and permission of the director of the Creative Writing Program. A continuation of the intermediate workshop, with increased writ-
ing and revising of poems. Extensive discussion of student poetry in class and in conferences with instructor.

412 Creative Writing – Contemporary Issues (3). Prerequisite, permission of instructor. Restricted to creative writing minors. An occasional course, which may focus on such topics as: editing and revising; short-short fiction; contemporary poetry; short stories of the modern South; the one-act play; the lyric in song.

418 The English Language – Contemporary Issues (3). Focus study of a specific subfield or issue of current or historical English linguistics not covered in depth in other courses, e.g., dictionaries, North Carolina dialects, language of advertising.

423 Old English Literature – Contemporary Issues (3). This course investigates themes or issues in Old English literature, thought and culture.

424 Middle English Literature – Contemporary Issues (3). This course investigates themes or issues in Middle English literature, thought and culture.

430 Renaissance Literature – Contemporary Issues (3). This course investigates cultural themes or problems across a wide spectrum of Renaissance authors.

436 [049C] Contemporary Approaches to 18th-Century Literature and Culture (3). Focuses on particular forms, authors or issues in the period.

437 [072] Chief British Romantic Writers (3). Survey of works by Blake, Wordsworth, Coleridge, Byron, Percy and Mary Shelley, Keats and others.

438 19th-Century Women Writers (3). An investigation of important texts by 19th-century British women writers that considers issues of gender in relation to other important considerations: tradition, form, culture.

439 [073] English Literature, 1832-1890 (3). Poetry and prose of the Victorian period, including such writers as Tennyson, the Brownings, Arnold, the Brontes, Dickens, G. Eliot.

440 [078] English Literature, 1870-1910 (3). The Pre-Raphaelites, Wilde, Conrad, Shaw and Yeats.

441 Romantic Literature – Contemporary Issues (3). Devoted to British Romantic-period literature’s engagement with a literary mode (such as the Gothic) or a historical theme (such as war or abolition) or to an individual author.

442 Victorian Literature – Contemporary Issues (3). The study of an individual Victorian writer, a group (such as the Pre-Raphaelites), a theme (such as imperialism) or genre (such as Victorian epic, or the serialized novel).

443 American Literature before 1860 – Contemporary Issues (3). A junior or senior level course devoted to in-depth exploration of an author, group of authors or topic in American literature to 1860.

444 American Literature, 1860-1900 – Contemporary Issues (3). Intensive study of one or more authors or a topic in American literature from the Civil War through 1900.

445 American Literature, 1900-2000 – Contemporary Issues (3). A junior or senior level course devoted to in-depth exploration of an author, group of authors or a topic in American literature from 1900 to 2000.

446 [086] American Women Authors (WMST 446) (3). American women authors from the beginnings to the present.

451 [041] Aesthetics (3). Examines the question of what defines art and what describes art’s social and human significance through a reading of classic texts on these issues.

452 [040] Contemporary Poetry and Theory (3). This course introduces the student to historical and contemporary thinking about poetry and poetic language. Examines the place of poetry in theoretical thinking and theoretical thinking about poetry.

463 [092C] Postcolonial Literature (3). This course is a multi-genre introduction to postcolonial literatures. Topics will include postcolonial Englishes, nationalism, anti-imperialism, postcolonial education and the intersections between national and gender identities in literature.

464 Queer Texts, Queer Cultures (3). The literary and cultural critical arts of gay, lesbian, bisexual, transvestite and other communities of sexual dissidents of the contemporary United States, United Kingdom and other Anglophone cultures.

465 Difference, Aesthetics and Affect (3). Examines interrelations between cultural difference, aesthetic form and the representation, production and conveyance of subjectivity (in particular affect or states of feeling) in texts, other media and material culture.

466 Literary Theory – Contemporary Issues (3). Examines current issues in literary theory such as the question of authorship, the relation of literary texts to cultural beliefs and values and to the formation of identities.

472 African American Literature – Contemporary Issues (3). Study of particular aspects of African American literature, such as the work of a major writer or group of writers, an important theme, a key tradition or a literary period.

478 Projecting Ireland (3). This course will examine the relationship between literary and cinematic versions of Ireland, exploring how written and visual texts negotiate the difficulties of representation in a decolonizing society.

479 Ireland and Modernism (3). This course explores Ireland’s contribution in literature and art to movements in 20th-century modernism.

481 Media Theory (3). This course investigates the ramifications of the development of mass media and popular culture, paying special attention to the transformation of literature.

485 Introduction to Folklore (ANTH 485, FOLK 485) (3). Introduction to the study of folklore, surveying the range of verbal, material, musical, medical and festive genres and exploring the significance of traditional and self-constructed culture in contemporary life.

486 Literature and Environment (3). Multi-disciplinary, thematic investigations into topics in literature and environment that cut across boundaries of history, genre and culture. Junior/senior level. Taught in alternating years.

487 [186] Folk Narrative (FOLK 487) (3). The study of three genres of folk narrative – fairytale, personal narrative and legend – and their distinctive roles in contemporary life.

489 Cultural Studies – Contemporary Issues (3). The student will have an opportunity to concentrate on topics and texts central to the study of culture and theory.
525 Senior Seminar in Renaissance Literature (3). Senior-level survey of one or two key themes or issues in the literature of the English Renaissance.

564 Interdisciplinary Approaches to Literature (3). Examines the ways knowledge from other disciplines can be brought to bear in the analysis of literary works. Questions of disciplinary limits and histories will also be addressed.

566 Literature and Psychoanalysis (3). This course offers an introduction to the theoretical intersection of psychoanalysis and literature and to the spectrum of what is called "psychoanalytic theory."

578 Irish Americas, American Irelands (3). Course will explore the cultural connections between Ireland and America in literature and film to examine how each has imagined the other.

580 Film – Contemporary Issues (3). This course is designed to introduce students to a particular historical or cultural aspect of the cinema.

581 [047] Contemporary Approaches to Fiction (3). Examines the formal features of narrative and its role in shaping social values, groups and identities through readings in literary theory, short stories and novels.

582 [048] Contemporary Approaches to Poetry (3). The course is an introduction to the genre of poetry and its subgenres, the practice of reading it in both form and content and to the work of selected poets or individual poets.

583 [046A] Drama on Location (3). Offered as part of summer study abroad programs in Oxford, London and Stratford-on-Avon. Students experience plays in performance and as texts, and discuss their literary, dramatic, cultural and historical aspects.

585 [147] British and American Folksong (FOLK 585) (3). Explores the forms, functions and relationships of British and American folksongs, charting the emergence of Anglo- and African American vernacular musics and the dynamic processes of tradition, creolization, innovation and revival.

587 [187] Folklore in the South (FOLK 587) (3). An issue-oriented study of Southern folklore, exploring the ways that vernacular artistic expression (from barns and barbecue to gospel and well-told tales) come to define both community and region.

589 [189] African American Folklore (FOLK 589) (3). Focuses on the richness and variety of oral traditions that define African American culture, with some emphasis on African origins.

600 [130] Advanced Expository Writing (3). The course, restricted to graduate students in English, offers students practice writing vitae and job application letters, grant or conference proposals, dissertation or thesis chapters, book reviews or journal articles.

605 [132] History of Rhetoric and Composition (3). A survey of major figures in the history of rhetoric, beginning with classical rhetoric, but emphasizing contemporary rhetorical theory.

606 [131] Rhetorical Theory and Practice (3). A study of rhetorical theories and practices from classical to modern times. Emphasis is on translation of theories into instructional practice for teaching in the college writing classroom.

613 [136] Modern English Grammar (LING 613) (3). A study of current English structure and usage using a traditional approach modified by appropriate contributions from structural and generative grammar, with some attention to the application of linguistics to literary analysis.

619 [151] Survey of Old and Middle English Literature (3). An introduction to English literature from the eighth century to the 15th, focusing on the primary works of Old English and Middle English literature.

621 [153] Arthurian Romance (CMPL 621) (3). British and continental Arthurian literature in translation from the early Middle Ages to Sir Thomas Malory.

625 [258] Shakespeare (3). A study of selected plays and poetry by Shakespeare and some of the key critical and theoretical approaches to his work.

626 [255] Renaissance Drama (3). A study of a representative group of plays by dramatists writing between the establishment of the permanent theaters in the 1570s and the closing of those theaters in 1642.


628 [260] Literature of the Later Renaissance (3). In this course, students will interrogate the social, historical and representational dimensions of 17th-century literature and culture in England.


630 [358] Shakespeare and His Contemporaries (3). This course will examine drama written and performed in England from 1570 to 1640, situating Shakespeare's plays in relation to others in his generation.

631 [166] 18th-Century Literature (3). Studies in a variety of British writers from Rochester to Cowper.

637 [172] Chief British Romantic Writers (3). A survey of the major British Romantic writers, including Blake, Wordsworth, Coleridge, Byron, Percy and Mary Shelley, Keats, with an introduction to the chief scholarly and critical problems of this period.

639 [174] Victorian Literature (3). Survey of major Victorian writers, such as Tennyson, the Brownings, Arnold, Dickens, the Brontes, G. Eliot, Mill, Ruskin.

643 Introduction to American Literature to 1860 (3). A graduate-level survey of American literature from the European settlement of the New World through 1860. Consideration of authors in their aesthetic, historical and contemporary critical contexts.

644 Introduction to American Literature, 1860-1900 (3). A graduate-level introduction to the range of American writing from the Civil War through 1900. Attention given to major critical concerns, e.g., the cultural force of realism, etc.


659 [196] War in 20th-Century Literature (PWAD 659) (3). A study of literary works written in English concerning World War I, or the Spanish Civil War and World War II, or the Vietnam War.
660 [196D] War in Shakespeare’s Plays (PWAD 660) (3). The focus is on Shakespeare’s various treatments of war in his plays: all his Roman histories, most of his English histories, all his tragedies, even some of his comedies.

661 [140] Introduction to Literary Theory (3). Examines contemporary theoretical issues and critical approaches relevant to the study of literature.

662 [240] History of Literary Criticism (3). A history of literary criticism from the Greeks to mid-20th century, focusing on recurrent concerns and classic texts that are indispensable for understanding the practice of literary criticism today.

663 Postcolonial Theory (3). This course covers major works of and topics in postcolonial theory.

664 [190Q] The Challenge of Queer Theory to Literary Studies, Cultural Studies and the Humanities (3). An advanced-level investigation of queer theory’s challenges to literary criticism, cultural studies and questions of critical methodology in the humanities. Cutting-edge research and just published articles will be used.

665 [155] Queer Latina/o Literature, Performance and Visual Art (WMST 665) (3). This course explores literature, performance art, film and photography by Latinas and Latinos whose works may be described as “queer” and that question terms and norms of cultural dominance.

666 [180] Queer Latina/o Photography and Literature (WMST 666) (3). This course explores Latina/o literature about photography in relation to photography by “queer” Latina/o artists and, through this double focus, poses certain questions about identity, subjectivity and culture.

673 [188] Literature of the U.S. South (3). A study of the literature of the U.S. South, in most cases focusing on 20th-century southern literature and on prose fiction.

680 Film Theory (3). This course offers a rigorous introduction to the various theories (aesthetic, narratological, historiographic, ideological, feminist, poststructuralist) inspired by the cinema.

684 Women in Folklore and Literature (FOLK 684, WMST 684) (3). An exploration of representations of women in oral traditions as well as in literature based on oral traditions.

685 [179] Literature of the Americas (AMST 685, CMPL 685) (3). Prerequisite, two years of college-level Spanish or the equivalent. Multidisciplinary examination of texts and other media of the Americas, in English and Spanish, from a variety of genres.

686 Readings in Literature and Environment (3). Readings course selects an author, genre or method as a means of deepening awareness of the politics, poetics and paradoxes in the field of literature and environment.

687 [191] Canadian Literature in English (3). A study of Canadian literature in English, with emphasis on writing since 1940, particularly the novels, by, for example, Margaret Laurence, Robertson Davies, Mordecai Richler and Margaret Atwood.


693H [099A] Creative Writing Senior Honors Thesis, Part 1 (Fall) (3). Prerequisite, ENGL 406. The first half of a two-semester seminar. Each student begins a book of fiction (25,000 words) or poetry (1000 lines). Extensive discussion of student work in class and in conferences.

694H [099B] Creative Writing Senior Honors Thesis, Part 2 (Spring) (3). Prerequisites, ENGL 406 and ENGL 693H. The second half of a two-semester seminar. Each student completes a book of fiction or poetry. Extensive discussion of student work in class and in conferences with instructor.

697 [094D] Capstone Course: The Romantic Revolution in the Arts (3). Examines the technical and aesthetic revolutions in the fine arts of the English Romantic period, focusing on lyrical poetry, landscape painting, and original printmaking and works by Wordsworth, Turner and Blake.

CMPL


141 Introduction to Comparative Literature (3). An introduction to the methodology of comparative literature, especially insofar as it struggles to reconcile its predominantly western lineage with the recognition of non-western textual.

151 [031] Literature and Society in Southeast Asia (ASIA 151) (3). This course is an introduction to the societies of Southeast Asia through literature. Background materials and films will supplement the comparative study of traditional works, novels, short stories and poems.

250 [050] Approaches to Comparative Literature (3). This communications-intensive course familiarizes students with the theory and practice of comparative literature: the history of literary theory; translation; and literature combined with disciplines such as music, architecture and philosophy.

251 [051] Introduction to Literary Theory (3). Familiarizes students with the theory and practice of comparative literature. Against a background of classical poetics and rhetoric, explores various modern literary theories, including Russian Formalism, Frankfurt School, Feminism, Psychoanalysis, Decoronstruction, New Historicism and others. All reading in theory is paired with that of literary texts drawn from a wide range of literary periods and national traditions.

252 [062] Popular Culture in Modern Southeast Asia (ASIA 252, INTS 252) (3). This course examines popular culture in Southeast Asia as a response to colonialism, nationalism, modernization, the state and globalization. Topics include: theater, film, pop songs, television, rituals and the Internet.
269 [069] Representations of Cleopatra (CLAS 269, WMST 269) (3). Study of the life of Cleopatra and how her story has been reinvented in postclassical societies, often as a mirror image of their own preoccupations, in literature, art, movies and opera.

321 Medieval and Modern Arthurian Romance (ENGL 321) (3). Representative examples of Arthurian literature from the Middle Ages and 19th and 20th centuries, with some attention to film, art and music.


379 [094] Cowboys, Samurai and Rebels in Film and Fiction (ASIA 379) (3). Cross-cultural definitions of heroism, individualism, and authority in film and fiction, with emphasis on tales or images that have been translated across cultures. Includes films of Ford, Kurosawa and Visconti.

380 [084] Almost Despicable Heroines in Japanese and Western Literature (ASIA 380, WMST 380) (3). Authors' use of narrative techniques to create the separation between heroines and their fictional societies and sometimes also to alienate readers from the heroines. Austen, Flaubert, Ibsen, Arishima, Tanizaki, Abe.

383 [0831] Literature and Medicine (3). Examines the presentation of medical practice in literature from the mid-19th century to the present. Readings include some medical history, novels, stories and recent autobiographies of medical training.

385 [090] Modernist and Postmodernist Narrative (3). A study of the structure of various types of modernist and postmodernist narrative, including texts by such writers as Proust, Faulkner, Camus, Hesse, Duras, Mann, Woolf, Robbe-Grillet, Kundera, Simon.

390 [095] Special Topics in Comparative Literature (3). Course topics vary from semester to semester.

392 [092] Women and Work, 1850-1900 (WMST 392) (3). An explanation of the problems of work for women in the later 19th century, drawing on historical and fictional materials to illuminate each other.


435 [135] Consciousness and Symbols (ANTH 435, FOLK 435) (3). This course explores consciousness through symbols. Symbols from religion, art, politics and self are studied in social, psychological, historical and ecological context to ascertain meanings in experience and behavior.

450 [150] Major Works of 20th-Century Literary Theory (3). Comparative study of representative works on literary and cultural theory or applied criticism to be announced in advance.

452 [170] The Middle Ages (3). Study of selected examples of Western medieval literature in translation, with particular attention to the development of varieties of sensibility in various genres and at different periods.

454 [172] Literature of the Continental Renaissance in Translation (3). Discussion of the major works of Petrarch, Boccaccio, Machiavelli, Castiglione, Ariosto, Tasso, Rabelais, Ronsard, Montaigne, Cervantes and Erasmus.

456 [174] The 18th-Century Novel (3). English, French and German 18th-century narrative fiction with emphasis on epistolary novel. The relation of the novel to the Enlightenment and its counterpart, the cult of sentimentality and on shifting paradigms for family education, gender and erotic desire.

458 [173] Sense, Sensibility, Sensuality 1740-1810 (3). The development of the moral aesthetic of sensibility or Empfindsamkeit in literature of Western Europe in the late 18th and early 19th centuries.

460 [175] Romanticism (3). An exploration of the period concept of Romanticism, using selected literary works by such writers as Blake, Wordsworth, Coleridge, Goethe, Novalis, Schlegel, Hugo, Nerval, Chateaubriand.

462 [176] Realism (3). An exploration of the period concept of Realism through selected works by such writers as George Eliot, Dickens, James, Dostoevsky, Tolstoy, Balzac, Stendhal, Flaubert, Zola.

464 [177] Naturalism (3). The Naturalist movement in European and American literature of the late 19th and early 20th centuries, focusing on its philosophical, psychological and literary manifestations in selected plays and novels.

466 [178] Modernism (3). An exploration of the period concept of modernism in European literature, with attention to central works in poetry, narrative and drama, and including parallel developments in the visual arts.

468 [181] Aestheticism (3). Aestheticism as a discrete 19th-century movement and as a major facet of modernism in literature and literary theory. Authors include Kierkegaard, Baudelaire, Nietzsche, Huysmans, Wilde, Mann, Rilke, Nabokov, Dinesen, Barthes, Santag.

470 [180] Concepts and Perspectives of the Tragic (3). History and theory of tragedy as a distinctive literary genre and as a more general literary and cultural problem. Authors include Aeschylus, Sophocles, Euripides, Shakespeare, Racine, Goethe, Nietzsche, Wagner, Mann, Samuel I and II, Faulkner. Also engages theorists, ancient and modern.

472 [184] The Drama from Ibsen to Beckett (3). The main currents of European drama from the end of the 19th century to the present. Includes Chekhov, Strindberg, Pirandello, Lorca, Brecht, Anouilh.

476 [191] Autobiography as a Literary Form (3). The rise and evolution of interest in the self in literary forms from St. Augustine's to Rousseau's Confessions and from Abelard through Dante, Petrarch, Cellini and Montaigne.

481 [182] Rhetoric of Silence: Cross-Cultural Theme and Technique (ASIA 481) (3). The uses of literary silence for purposes such as protest, civility, joy, oppression, nihilism, awe or crisis of representation. Authors include Sermé, Cocteau, Austen, Kawabata, Soseki, Oe, Toson[GB1] Camus, Mann.

482 [142] Philosophy in Literature (PHIL 482) (3). Selected literary classics from ancient times to the present, emphasizing changing approaches to such perennial problems as human nature and destiny, evil, freedom and tragedy.
483 [183] Cross-Currents in East-West Literature (ASIA 483) (3). The study of the influence of Western texts upon Japanese authors and the influence of conceptions of “the East” upon Western writers. Goldsmith, Voltaire, Soseki, Sterne, Arishima, Ibsen, Yoshimoto, Ishiguro.


486 [186] Literary Landscapes in Europe and Japan (ASIA 486) (3). Changing understandings of nature across time and cultures, especially with regard to its human manipulation and as portrayed in novels of Japan and Europe. Rousseau, Goethe, Austen, Abe, Mishima.

487 [190] Literature and the Arts of Love (3). Love and sexuality in literary works from various historical periods and genres. Authors include Sappho, Plato, Catullus, Propertius, Ovid, Dante, Petrarch, Shakespeare, LaClos, Goethe, Nabokov and Roland Barthes.

490 [195] Special Topics (3). Topics vary from semester to semester.


496 [140] Reading Course (1-21).Readings vary from semester to semester. The course is generally offered for three credits.

535 Boccaccio and European Narrative (ITAL 535) (3). Boccaccio’s Decameron within the context of previous narrative traditions and subsequent development of narrative in Europe. Class discussion in English; readings in Italian for majors and in translation for nonmajors.

560 [160] Reading Other Cultures: Issues in Literary Translation (SLAV 560) (3). Starting from the proposition that cultural literacy would be impossible without reliance on translations, this course addresses fundamental issues in the practice, art and politics of literary translation.

621 [153] Arthurian Romance (ENGL 621) (3). British and continental Arthurian literature in translation from the early Middle Ages to Sir Thomas Malory.

685 [179] Literature of the Americas (AMST 685, ENGL 685) (3). Prerequisite, two years of college-level Spanish or the equivalent. Multidisciplinary examination of texts and other media of the Americas, in English and Spanish, from a variety of genres.

691H [097] Honors Course (3). Required of all students reading for honors in comparative literature.

692H [098] Honors Course (3). Prerequisite, CMPL 691H. Required of all students reading for honors in comparative literature.

**Professors**
- Richard Andrews (Public Policy)
- Larry Band (Geography)
- Larry Benninger (Geological Services)
- Philip Berke (City and Regional Planning)
- Phil Bromberg (Medicine)
- Douglas Crawford-Brown (Environmental Sciences and Engineering)
- Carole Crumley (Anthropology)
- William Gray (Environmental Sciences and Engineering)
- Rich Kamens (Environmental Sciences and Engineering)
- Joel Kingsolver (Biological)
- Richard Luettich (Institute for Marine Sciences)
- Christopher Martens (Marine Sciences)
- Timothy McKeown (Political Science)
- Doug McLean (Philosophy)
- Hans Paelrl (Institute for Marine Sciences)
- David Peden (Pediatrics)
- Robert Peet (Biological)
- Frederick Pfendler (Environmental Sciences and Engineering)
- Jose Rial (Geological Sciences)
- Peter Robinson (Geography)
- Al Segars (Kenan-Flagler Business School)
- Peter White (Biological)

**Associate Professors**
- Marc Alperin (Marine Sciences)
- Chip Konrad (Geography)
- Aaron Moody (Geography)
- Andreas Teske (Marine Sciences)

**Assistant Professors**
- Flora Holt (Anthropology)
- Charles Mitchell (Biological)
- Rachel Noble (Institute for Marine Sciences)
- Karin Pfennig (Biological)
- Daniel Rodriguez (City and Regional Planning)
- Mort Webster (Public Policy)

**Research Professors**
- Frank Binkowski (Carolina Environmental Program)
- Adel Hanna (Carolina Environmental Program)
- David McNelis (Carolina Environmental Program)
- Tom Shay (Carolina Environmental Program)

**Research Associate Professors**
- Kiran Alapaty (Carolina Environmental Program)
- William Stott (Carolina Environmental Program)
- Aljun Xu (Carolina Environmental Program)

**Research Assistant Professors**
- Saravanan Arunachalam (Carolina Environmental Program)
- Gregory Gangi (Carolina Environmental Program)

**Introduction**

The undergraduate majors in environmental science (B.S.) and environmental studies (B.A.) are administered jointly by the Carolina Environmental Program and the College of Arts and Sciences, with the degrees conferred by the College of Arts and Sciences. Faculty from throughout the University, including the College of Arts and Sciences and the Schools of Public Health, Medicine, Law, Government, and Business, guide the majors. This unique approach provides students an opportunity to explore the base of knowledge needed to understand the environment and its relationship to society, as well as the applications of that knowledge in areas such as environmental modeling; earth system science; environmental behavior and decisions; environmental change and human health; ecology, conservation, and biodiversity; and environmental arts and humanities. The degrees combine traditional classroom teaching with extensive use of interdisciplinary, team-based projects; internships; study abroad opportunities; and research.

The B.S. in environmental science is appropriate for students wanting rigorous preparation in the basic sciences of the environment and the application of those principles to the analysis of environmental processes and problems. It focuses on the ways in which material and energy are moved and transformed in complex environmental systems, the role of society in perturbing those processes, and the techniques of science and engineering that might be used to improve environmental quality. All students take core courses in the relevant sciences and in the application of those sciences to environmental analysis; they then select a minor in one of the traditional sci-

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**Environmental Science and Studies**

www.cep.unc.edu/students/degree.html

**DOUGLAS J. CRAWFORD-BROWN, Director**
ence or math disciplines. In addition, students select a concentration area for specialized study of the environment, in consultation with an advisor. The degree provides strong preparation for graduate or professional training, as well as for jobs in government, consulting, industry, etc.

The B.A. in environmental studies is appropriate for students wanting rigorous preparation in the methods of the social sciences and humanities needed to understand how society affects the environment, how it organizes itself to respond to environmental problems, and how understanding of the environment is created and transmitted through culture. All students gain a sufficient base of scientific and mathematical expertise to allow them to work effectively with environmental scientists and engineers. The degree focuses on the social, political, economic, and cultural forces that guide society’s role in both causing and solving environmental problems. All students take core courses in the relevant sciences, social sciences, and humanities. In addition, students, in consultation with an advisor, select a concentration area for specialized study of the environment and society. Each may result in a minor in one of several disciplines. The degree provides strong preparation for graduate and professional training, as well as for jobs in environmental policy, journalism, education, etc.

Programs of Study
The degrees offered are bachelor of science in environmental science and bachelor of arts in environmental studies. A minor in environmental science and studies is also offered.

Majoring in Environmental Science: Bachelor of Science
For the B.S. in environmental science the following courses are required:

First and Second Years
Foreign language through level III (Foreign Language Foundations requirements)
ENGL 101 and ENGL 102 (Composition and Rhetoric Foundations requirements)
MATH 231 and MATH 232 and MATH 233 (Quantitative Reasoning Foundations and Quantitative Intensive Connections requirements)
BIOL 101/101L (Physical and Life Sciences with lab Approaches requirement)
CHEM 101/101L and CHEM 102/102L (Physical and Life Sciences Approaches requirement)
ECON 101 (recommended)
ENST 201
ENST 203
PHYS 116, 117
One course in STOR and one course in COMP (contact ENST advisor for options)

Third and Fourth Years
Remaining Approaches and Connections requirements
One of the following four sets of courses:
MATH 283 and ENST 415
Two GIS/remote sensing courses: GEOG 370, GEOG 477, GEOG 577, GEOG 491, and/or GEOG 591
Two advanced statistics courses: STOR 355, STOR 356, and/or ENST 562
BIOL 202 and CHEM 261

Three of the following six courses:
BIOL 201
GEOG 253/ENST 253
MASC 470/ENST 222
GEOL 111/ENST 111 or GEOL 213/ENST 213
ENST 402
ENST 698 (Capstone) is required of all students.
Four courses in an approved concentration area (contact ENST advisor for options)
An approved course sequence in an allied science leading to the minor in biology, chemistry, physics, mathematics, physical geography, marine science, mathematical decision sciences, computer science, or geological science. Contact the director of undergraduate studies for approval of the minor courses.

Majoring in Environmental Studies: Bachelor of Arts
For the B.A. in environmental studies the following courses are required:

First and Second Years
All Foundations, Approaches, and Connections requirements must be satisfied, some with specific courses:
Foreign language through level III (Foreign Language Foundations requirements)
ENGL 101 and 102 (Composition and Rhetoric Foundations requirements)
MATH 231 (Quantitative Reasoning Foundations requirements)
ECON 101 (Social and Behavioral Sciences Approaches requirement)
BIOL 101/101L (Physical and Life Sciences with lab Approaches requirement)
CHEM 101/101L or PHYS 104/104L or PHYS 105/105L (Physical and Life Sciences Approaches requirement)
STOR 155 or ECON 400 (Quantitative Intensive Connections requirement)
ENST 201
ENST 202

Third and Fourth Years
Remaining Approaches and Connections requirements
An additional science course is required, chosen from BIOL 201, ENST 222, ENST 111, ENST 213, or ENST 253
ENST 305 or GEOG 370 or GEOG 477 or GEOG 491
ENST 698
ENST 307
Five courses in an approved concentration area (contact ENST advisor for options)
Supplemental General Education requirements (three courses)

Minor in Environmental Science and Studies
The minor is designed for students wishing to remain in another discipline, but who have an interest in the environmental field as an area of application. It provides a basic grounding in the principles and methods of environmental science and/or studies. Students may focus on the science aspects or the studies aspects. Students in the minor in environmental science and studies must take two core courses designed to give a grounding in the scientific and societal dimensions of environmental issues and problems and the tools for their solution.
Required Courses
ENST 201 and either ENST 202 or ENST 203
Three other ENST courses (at least one at the 400 level)
Students must see an ENST advisor to discuss potential courses. Depending on the courses selected, the minor would require between 17 and 20 hours.

Honors in Environmental Science or Studies
Students in either degree may participate in a program of honors research leading to graduation with honors or highest honors. This distinction is earned by participation in honors research, with an associated honors research seminar, culminating in ENST 694H. The CEP maintains a listing of faculty with projects in which undergraduate honors candidates may participate.

Special Opportunities in Environmental Science and Studies

Departmental Involvement
Carolina Student Environmental Alliance; see www.unc.edu/student/orgs/cesa for more information.

Field Sites
The CEP maintains a series of field sites in North Carolina and around the world at which students may take course work and conduct research. These range from coastal studies in Manteo, North Carolina, to studies of biodiversity in Highlands, North Carolina, to studies on atmospheric pollution and engineering solutions in Thailand, and to studies on international risk assessment and energy policy in Cambridge England.

Experiential Education
Possibilities for experiential education include field site programs, APPLES Service Learning Course (ENST 203), Coral Reef Ecology and Management (ENST 259), Sierra Nevada Program (ENST 208 and ENST 404), Siberian Field Studies (ENST 191, ENST 261, ENST 263), Internships (ENST 206), and Research and Honors Research (ENST 395, ENST 694H).

Internships
Students are encouraged to apply for internships in local, state, national, and international environmental organizations. The CEP maintains an office from which information on internships may be obtained. These internships provide valuable practical experience, and some may be conducted for academic credit.

Study Abroad
The CEP and other organizations have developed a series of exchange and other study abroad programs in which B.A. and B.S. students may conduct environmental studies at other universities.

Undergraduate Awards
Undergraduates may be considered for the Watts and Betsy Carr Awards, Mary and Watts Hill Jr. Awards, and Robert Alonzo Winston Scholarships.

Undergraduate Research
All students are encouraged (but not required) to complete an independent or team research project. Such projects introduce students to the tools needed for graduate study. They also provide an important place where students can work directly with the world-class environmental faculty and graduate students at UNC-Chapel Hill, as well as in the many environmental organizations in the Research Triangle. The Triangle area contains one of the largest collections of environmental organizations and expertise in the world, providing unique opportunities for students to conduct research on an immense range of topics from fundamental scientific research to policy applications.

Facilities
Miller Hall, Computational and Visualization Lab (sixth floor Bank of America Building), and the facilities at our field sites in Manteo, Morehead City, and Highlands, North Carolina.

Graduate School and Career Opportunities
A degree in environmental science or studies prepares students for a variety of career options, including marine scientist, ecologist, environmental modeler, environmental policy maker, conservation advocate, land use planner, and environmental educator. Combining it with other studies, at the undergraduate or graduate level, can lead to possibilities as an environmental lawyer, epidemiologist, or environmental geneticist, to cite a few examples. Graduates have found employment in government agencies, such as the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources, in private industry, as a corporate lawyer, environmental consultant, or researcher; in educational institutions, as a science teacher or university faculty member; and in nonprofit organizations, working for an organization such as The Nature Conservancy.

Contact Information
The CEP maintains an advising system for students with an environmental interest regardless of rank. Students may use that advising system from the time they enter UNC-Chapel Hill, obtaining advice from specialists in the various environmental fields. This advising system includes opportunities each semester to meet with professionals from government, industry, consulting, etc., and learn of the skills needed to work effectively in those fields.

The Carolina Environmental Program, Office of Undergraduate Environmental Programs, 100 Miller Hall, (919) 966-9917. Web site: www.cep.unc.edu.

ENST
This course examines the ways in which scientific information, human values, and the policy process interact to produce environmental change, economic growth, and social justice in North Carolina.

111 [041] Physical Geology for Science Majors (GEOL 111) (4). Introduction to geology. Origin of minerals and rocks. Structure of the Earth. Erosion, volcanoes, earthquakes, plate tectonics. Not open to students with credit in or currently enrolled in GEOL 101, 105, or 109. Three lecture hours and two lab hours a week.

191 [063] Peoples of Siberia (ANTH 191, INTS 191, RUES 191) (3). Comparative study of the cultural and biological diversity of peoples of Siberia from prehistoric through contemporary times. Course topics include the biological diversity, culture, behavior, and history of Siberian populations.

201 Introduction to Environment and Society (4). Human-environment interactions are examined through analytical methods from the social sciences, humanities, and sciences. The focus is on the role of social, political, and economic factors in controlling interactions between society and the environment in historical and cultural contexts. Three lecture hours and one recitation hour a week.
202 Introduction to the Environmental Sciences (4). Fundamental processes governing the movement and transformation of material and energy in environmental systems are examined. The focus is on the role of these processes in environmental phenomena and on the ways in which society perturbs these processes. Methods from a wide range of scientific disciplines are integrated. Three lecture hours and one computer lab hour a week.

203 Introduction to Environmental Science Problem Solving (3). Prerequisite, MATH 231; corequisite, MATH 232. A quantitative introduction to selected topics in environmental sciences with an emphasis on developing and solidifying problem-solving skills.

204 [050] Environmental Seminar (1-3). This course will provide an intellectual focus on the interface between environment and society by examining the relationship among science, policy, and actual management practices on a chosen topic.

205 [051] Environmental Practicum (1-3). This course will provide an intellectual focus on the interface between environment and society by examining the relationship between science and management practices on a given topic. Students will receive classroom lecture and then will journey out into the field to see what role the ideas and theories they studied in the classroom actually have in management practices. Students will also have the opportunity to learn first hand from an active professional working in the chosen topic area.

206 [091] Internship in Environmental Studies or Science (1-3). Prerequisite, permission of instructor. To receive permission to sign up for ENST 206, a student must submit to the director of student affairs the completed internship program approval form (which may be obtained from the director). To receive credit, a student must submit at the end of the internship a brief summary of the work conducted, to be judged by the faculty sponsor.

207 Internship in Sustainability (3). This course provides an internship with a local organization on the topic of community sustainability, and explores the intellectual basis of public engagement. New Frontiers: Environment and Society in the United States (3-4). By employing a multidisciplinary approach, this class will give students a sense of the role that the environment has played in shaping U.S. society and the role that our society plays in producing environmental change at the national and global level.

210 Energy in a Sustainable Environment Seminar (1). This seminar series will provide a general introduction to energy sources, resources, technologies and societal use from a sustainability perspective.

211 [048] Environmental Geology (GEOL 211) (3). Prerequisites, one of the following introductory courses: GEOL 101, 103, 105, 109, 111, or 159. Environmental and human problems connected with uses of earth materials and with geological processes. Mineral resources, land-use planning, and engineering geology.


222 [054] Estuarine and Coastal Marine Science (MASC 470) (4). Prerequisites, MATH 231 and PHYS 104 or CHEM 101. Introduction to the marine environment: ocean basins, sedimentation patterns and processes, sea level changes, oceanic circulation, waves and tides, geochemistry, oceanic chemical cycles, ocean and near shore ecology. Consideration given to human interaction with and impact on the world's marine systems.

253 [053] Introduction to Atmospheric Processes (GEOG 253) (4). Prerequisites, MATH 231 and PHYS 104 or CHEM 101. Atmospheric processes including radiation, dynamics, and thermodynamics are emphasized. Circulations across a range of temporal and spatial scales are described. Links between environmental problems and the atmosphere are explored.

254 [083] International Environmental Politics (POLI 254) (3). Covers the politics of environmental issues, with a focus on issues that have become internationalized. It focuses on the special problems that arise in creating rules for environmental management and regulation when no single government has authority to enforce those rules.

259 [057] Coral Reef Ecology and Management (1). The course familiarizes students with the natural history, ecology, and physical and chemical characteristics of the coral reef environment. Policy and management issues are also examined.

261 [061] Conservation of Biodiversity in Theory and Practice (GEOG 264, INTS 261) (3). Prerequisite, ENST 201 or permission of instructor. This course will give students a multidisciplinary introduction to growing field of biodiversity preservation.

262 [064] Global Ecology: An International Perspective on Ecological and Environmental Problems (BIOL 262) (3). Prerequisite, BIOL 201. Ecological basis of global environmental problems and their solutions. Topics include: human population growth; food and water shortages; biodiversity loss, deforestation; desertification; emerging diseases; and climate change. These are elements in an interconnected ecological system at a global scale.

263 [062] Environmental Field Studies in Siberia (GEOG 263, INTS 263, RUES 263) (4). This course explores the biogeography of Siberia and gives students practical training on how to do field work in field ecology and physical geography.


286 Nature Writing (3). Cross-cultural and multidisciplinary introduction to the field of nature writing. Surveys historical periods, authors, and a variety of genres. Students will study classics in the field such as A Sand County Almanac.

305 [086] Data Analysis and Visualization of Social and Environmental Interactions (4). Prerequisites, ENST 201; MATH 231; STOR 155 or ECON 400. Principles of spatial and temporal data analysis are applied to issues of the role of society in producing environmental change. Methods include statistical analysis, model development, and computer visualization. Three lecture hours and one lab hour a week.

306 [090] Business and the Environment (3). Introduction to the methods for selecting management practices in business and industry in ways that optimize environmental quality and economic prosperity. Three lecture hours a week.
307 [107] Energy and Material Flows in the Environment and Society (3). Prerequisites, MATH 231; ENST 201 and 202; or permission of instructor. Examination of the regional to global flow of materials and energy through materials extraction, processing, manufacturing, product use, recycling, and ultimate disposition, including its relevance in policy development. Includes a review of the natural cycles in the environment, basic physics, and the technology of energy production, distribution, and utilization for conventional, nuclear, and alternative sources.

308 [087] Environmental History (3). Historical development of the system of beliefs, values, institutions, etc., underlying societal response to the environment in different cultures is analyzed. The approach is interdisciplinary, drawing on methods from history, philosophy, psychology, etc. Three lecture hours a week.

309 [088] Environmental Values and Valuation (3). Introduction to the methods for assigning value to aspects of the environment and to interhuman and human-environment interactions. The approach is interdisciplinary, drawing on methods from philosophy, ecology, psychology, aesthetics, economics, religion, etc. Three lecture hours a week.

312 [078] Risk-Based International Environmental Decisions (ENVR 312) (3). A Web-based course on the methods and roles of risk assessment in the international setting, with a primary focus on U.S.-European Union applications in environmental policy decisions.

330 Principles of Sustainability (3). An overview of science, social science and humanities perspectives on community sustainability.

331 Systems Analysis for Sustainability (3). Provides an overview of principles from science and engineering to analyze sustainability of material and energy systems.

350 [067] Environmental Law and Policy (3). This course gives students an overview of environmental law and some practical experience in environmental policy making.

351 Coastal Law and Policy (3). The utilization of common coastal resources, the management of fisheries and coastal zone management guide an examination of coastal laws, policies and regulations at the federal, state and local levels.

368 Environmental Ethics (PHIL 368) (3). Introduction to the methods for analyzing the philosophical foundations of interactions between humans and the environment, and between humans through the environment. Three lecture hours a week.

375 [075] Environmental Advocacy (COMM 375) (3). Rhetorical means of citizen influence on practices affecting our natural and human environment. Three lecture hours a week.

395 [098] Research in Environmental Sciences and Studies for Undergraduates (1-21). Prerequisite, permission of a member of the faculty of environmental studies. Research in an area of environmental science or environmental studies.

396 [095] Directed Readings (1-4). Prerequisite, permission of instructor. A specialized selection of readings from the literature of a particular environmental field supervised by a member of the Carolina Environmental Faculty group. Written reports on the readings or a literature review paper will be required. Cannot be used as a course toward the major.

403 [110] Environmental Chemistry (ENVR 403) (3). Presents important environmental topics and issues from an environmental chemistry perspective. General topics to be discussed are: global warming, stratospheric ozone, fine particles in the atmosphere, photochemical smog, acid rain, toxic chemicals in groundwater, and wastewater and soil.


405 [085] Mountain Preservation (4). Introduces students to approaches used to preserve the natural and cultural heritage of the Southern Appalachians.

410 [101] Earth Processes in Environmental Systems (GEOL 410, MASC 410) (4). Prerequisites, MATH 231; CHEM 102; PHYS 105 or 117; GEOL 111 or 213; or permission of instructor. Principles of geological and related earth systems sciences are applied to the analysis of environmental phenomena. The link between the lithosphere and other environmental compartments is explored through case studies of environmental issues. Three lecture hours and one lab hour a week.

411 [102] Oceanic Processes in Environmental Systems (GEOL 411, MASC 411) (4). Prerequisites, MATH 231; BIOL 101; CHEM 102; PHYS 105 or 117; ENST 222; or permission of instructor. Principles of analysis of the ocean, coast and estuarine environments, and the processes that control these environments, are applied to the analysis of environmental phenomena. The link between the hydrosphere and other environmental compartments is explored through case studies of environmental issues. Three lecture hours and one lab hour a week.

415 Environmental Systems Modeling (ENVR 461, GEOL 415, MASC 415) (3). Prerequisites, MATH 383; PHYS 105 or 117 (may be taken concurrently); or permission of instructor. Methods for developing explanatory and predictive models of environmental processes are explored. Includes discussion of the relevant scientific modes of analysis, mathematical methods, computational issues, and visualization techniques. Two lecture hours and one computer lab hour a week.

416 Environmental Meteorology (3). This course explores atmospheric processes most important to environmental problems such as the transport and transformation of air pollutants and weather systems involved in intercontinental transport of gases and particles.

417 [138] Geomorphology (GEOL 417) (3). Prerequisites, GEOL 101 and MATH 231 or permission of instructor. Introduction to process geomorphology with emphasis on quantitative interpretation of weathering, hill slope, fluvial, glacial, and eolian processes from topography and landscapes.

450 [105] Biogeochemical Processes (ENVR 415, GEOL 450, MASC 450) (4). Prerequisites, MATH 231; CHEM 251 or 261; PHYS 105 or 117; or permission of instructor. Principles of chemistry, biology, and geology are applied to analysis of the fate and transport of materials in environmental systems, with an emphasis on those materials that form the most significant cycles. The course examines these processes in systems that contain the hydrosphere, lithosphere, atmosphere, and biosphere. Three lecture hours and one lab hour a week.
460 [160] Historical Ecology (ANTH 460) (3). Historical ecology is a framework for integrating physical, biological, and social science data with insights from the humanities to understand the reciprocal relationship between human activity and the Earth system.

461 [112] Fundamentals of Ecology (BIOL 461, ECOL 461) (4). Prerequisite, BIOL 201. Students will develop a comprehensive understanding of the field of ecology, including modern and emerging trends in ecology. They will develop literacy in the fundamental theories and models that capture ecological processes; emphasis will also be placed on the relevance of ecology and ecological research for human society.

468 Advanced Functions of Temporal GIS (ENVR 468) (3). The course focuses on the development of advanced functions for field-based temporal geographical information systems (TGIS). These fields describe natural epidemiological, economic, and social phenomena distributed across space and time. The course is organized around four main themes: concepts, mathematical framework, computer programs, and applications.

470 [198] Environmental Risk Assessment (ENVR 470) (3). Prerequisites, ENVR 403, 430. Methods of environmental risk assessment - including hazard identification, exposure assessment, exposure-response assessment, and risk characterization are developed and applied. Three lecture hours per week.

471 [134] Human Impacts on Estuarine Ecosystems (MSC 471) (4). Prerequisites, MATH 231, CHEM 102. A cohesive examination of the human impacts on biological processes in estuarine ecosystems. Lab/field work is included and contributes two credit hours to the course.

472 [135] Coastal and Estuarine Ecology (MSC 448) (4). Prerequisites, MATH 231, CHEM 102. A field intensive study of the ecology of marine organisms and their interactions with their environment, including commercially important organisms. Lab/field work is included and contributes two credit hours to the course.

479 Landscape Analysis (3). This course utilizes GIS, GPS, and remote sensing technologies to gather data on geology, watersheds, soils, integrated moisture indices. The class also develops habitat maps and derives species diversity indices.

480 [120] Environmental Decision Making (PLCY 480) (3). Introduces factors shaping environmental decision making by individuals, businesses, governments, advocacy groups, and international institutions, and explores public policy incentives and action strategies for influencing them.

489 [103] Ecological Processes in Environmental Systems (4). Prerequisites, MATH 231; BIOL 101, 201; CHEM 102; PHYS 105 or 117; or permission of instructor. Principles of analysis of the structure and function of ecosystems are applied to the analysis of environmental phenomena. The link between the biosphere and other environmental compartments is explored through case studies of environmental issues. Three lecture hours and one lab hour a week.

490 [100] Special Topics in Environmental Science and Studies (3). Advanced topics from diverse areas of environmental science and/or environmental studies are explored.

510 [183] Policy Analysis of Global Climate Change (PLCY 510) (3). Reviews policies to deal with global climate change, including the development of assessment models and team-based role-playing projects. This course provides a real-world and relevant case study in which to apply material from multiple other courses, including public policy, economics, environmental science, and international studies.

511 [166] Stable Isotopes in the Environment (GEOL 511) (3). Prerequisite, CHEM 102. Introduction to the theory, methods, and applications of stable isotopes to environmental problems. Primary focus will be on the origin, natural abundance, and fractionation of carbon, hydrogen, oxygen, and nitrogen isotopes.

520 [184] Environment and Development (INTS 520, PLCY 520) (3). Students review environmental problems in developing countries and analyze proposed solutions such as legal remedies, market instruments, corporate voluntary approaches, international agreements, and development policies. Also to be discussed are the links between trade and environment, environmental cases from the World Trade Organization, and sustainable development.

522 [181] Environmental Change and Human Health: Introduction to Eco-Human Interconnectivities (ENVR 522) (3). Prerequisites, ENST 201 or 202. The course will provide students with a multidisciplinary perspective of environmental changes to encompass both human health and ecological health.

562 [141] Statistics for Environmental Scientists (BIOL 562, ECOL 562) (4). Prerequisite, STOR 155 or equivalent. Introduction to the application of quantitative and statistical methods in environmental science, including environmental monitoring, assessment, threshold exceedence, risk assessment, and environmental decision making.


567 [190] Ecological Analyses and Application (ECOL 567) (3). This course provides an overview of natural and social science approaches to addressing biodiversity conservation and resource management. Concepts and methods from population biology, evolutionary ecology, community ecology, and conservation biology will be complemented with approaches from common property theory, indigenous resource management, and human evolutionary ecology.

569 [199] Current Issues in Ecology (ECOL 569) (3). Prerequisites, previous course work in ecology and permission of the instructor. Topics vary but focus is on interdisciplinary problems facing humans and/or the environment.

585 [185] American Environmental Policy (ENVR 585, PLAN 585, PLCY 585) (3). Intensive introduction to environmental management policy, including environmental and health risks; policy institutions, processes, and instruments; policy analysis; and major elements of American environmental policy. Lectures and case studies.

608 [182] Continuum Mechanics in the Earth Sciences (GEOL 608) (3). Prerequisites, introductory geology course, MATH 231, and PHYS 104 or 116; or permission of instructor. Applications of continuum mechanics in the earth sciences, including stress, strain, elasticity, and viscous flow. Numerical solutions to
problems in heterogeneous finite strain including finite element analysis.

675 [175] Environmental Communication in the Public Sphere (COMM 675) (3). This course provides an overview of the evidential reasoning, methods and applications of risk assessment in understanding environmental risks and selecting effective environmental policies to protect human health.

686 [186] Policy Instruments for Environmental Management (ENVR 686, PLAN 686, PLCY 686) (3). Prerequisite, ECON 410 or PLAN 710 or equivalent. Design of public policy instruments as incentives for sustainable management of environmental resources and ecosystems, and comparison of the effects and effectiveness of alternative policies.

694II [099] Honors Project in Environmental Sciences and Studies (3). Prerequisite, permission of director of undergraduate studies. Independent project leading to the honors designation. Includes weekly research seminar.

698 [094] Capstone: Analysis and Solution of Environmental Problems (3). Interdisciplinary, team-based analyses of environmental phenomena are performed and applied to problems of the selection of effective environmental strategies. Students may select from a wide range of examples and venues. Three lecture hours a week.

Department of Exercise and Sport Science
www.unc.edu/depts/exercise

KEVIN M. GUSKIEWICZ, Chair

Professors

Associate Professors
Bonita L. Marks, Barbara J. Osborne, Darin A. Padua, Edgar W. Shields Jr.

Assistant Professors

Senior Lecturer
Sherry L. Sayer.

Lecturers
Christopher J. Hirth, Marian T. Hopkins, Eamonn G. Lanigan, Debra C. Murray, Meredith A. Petschauer, Margaret L. Pomerantz.

Adjunct Professors

Adjunct Assistant Professors
Elizabeth Hedgpeth, Daniel Hooker, Bing Yu.

Professors Emeriti
Francis Pleasants Jr., M. Deborah Bialeschki.

Introduction

Exercise and sport science examines the physics, physiology, and psychology of sport and exercise, the recognition and treatment of athletic injuries, and the administration of athletics. The athletic training track within the Department of Exercise and Sport Science (EXSS) can prepare students to work as a certified athletic trainer for high school, college, or pro sports teams. Students interested in sport administration can build a foundation in the management aspect of sport. Sport administration career options include almost anything related to amateur, interscholastic, or professional sports. The fitness professional track is designed to prepare students for careers in a variety of health-related fields, including but not limited to: entry level positions in the health-fitness industry; personal training of amateur, professional, and recreational athletes; exercise therapy for a range of clinical conditions; or graduate study in exercise physiology. Other career options for the EXSS majors include strength-conditioning coach for an athletic team; exercise research within the athletic, medical, or pharmaceutical industries; or fitness club entrepreneur. By choosing additional coursework, students can apply to schools of physical therapy, occupational therapy, public health, nursing, or medicine.

The overall mission of the Department of Exercise and Sport Science is to discover, create, and promote knowledge of human movement to improve the quality of life of individuals and society.

Programs of Study

The degree offered is bachelor of arts in exercise and sport science. In addition to the general B.A. in exercise and sport science, the department offers three tracks: athletic training, fitness professional, and sport administration. Three minors are offered in coaching education, exercise and sport science, and recreation administration.

Majoring in Exercise and Sport Science (General): Bachelor of Arts

Course requirements for the major in exercise and sport science are fulfilled by successful completion of the eight three-hour courses listed below:

Required Courses
EXSS 101 Foundations of EXSS
EXSS 175 Human Anatomy
EXSS 181 Sport Psychology
EXSS 273 Research in Exercise and Sport Science
EXSS 276 Human Physiology
EXSS 376 Physiological Basis of Human Performance
EXSS 380 Neuromuscular Control and Learning
EXSS 385 Biomechanics of Sport

A minimum of 18 hours in the eight required courses for the major must be completed with a grade of C or higher (not a C average). BIOL 101/101L also is required for the major. A maximum of 45 hours in EXSS courses may be applied toward the B.A. degree.

Majoring in Exercise and Sport Science (Athletic Training Track): Bachelor of Arts

The undergraduate athletic training track is a nationally accredited program as determined by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). Students can become involved in athletic training at UNC-Chapel Hill as early as their first year, when they are assigned observational hours in Fetzer Gymnasium Training Room. Students gain exposure to injury evaluation, treatment, and rehabilitation while working under the supervision of certified athletic trainers. Students who wish to continue with athletic training as a career path should apply to the program during the fall semester of their sophomore year. Applications are due October 15.
Prerequisites include: 1) minimum of 50 observational hours and five shadow forms; 2) successful completion (B grade minimum) of EXSS 175 (Human Anatomy) and EXSS 188 (Emergency Care of Injuries and Illness), preferably by the end of the fall semester sophomore year; and 3) minimum cumulative GPA of 2.75.

Students enrolled in the program are required to satisfy the College of Arts and Sciences General Education requirements, six of the required core classes for the Department of Exercise and Sport Science (EXSS 175, 181, 273, 276, 376, and 385), and the following athletic training courses:
EXSS 141 Personal Health
EXSS 188 Emergency Care of Injuries and Illness
EXSS 265 Fundamentals of Athletic Training
EXSS 271 Athletic Training Clinical
EXSS 275-L Human Anotomy Laboratory
EXSS 360 Sports Nutrition
EXSS 366 Evaluation of Athletic Injuries
EXSS 367 Therapeutic Modalities
EXSS 368 Therapeutic Exercise and Rehabilitation
EXSS 369 Athletic Training Seminar
EXSS 370 General Medicine in Athletic Training

Interested students should attend an organizational meeting held on the first Tuesday of every semester at 7 p.m. in room 106 Fetzer Gymnasium. For more information, interested students can access the athletic training Web site at www.unc.edu/depts/exercise/undergraduate_athletic_training.htm. They also may contact Dr. Darin Padua at (919) 843-5117, d_padua@email.unc.edu, or Dr. Meredith Petschauer at (919) 962-1110, mbuset@email.unc.edu.

**Majoring in Exercise and Sport Science (Fitness Professional Track): Bachelor of Arts**

The goal of the fitness professional track is to prepare students to assume roles as leaders in the fitness field and the area of fitness research. The blend of theoretical course work and practical experience will assist the student in preparing for career opportunities and national fitness certifications.

Students should fulfill their Physical and Life Sciences Approaches requirements with BIOL 101/101L and CHEM 101/101L. (BIOC 107 is also a recommended course for students in their first two years of study.)

The required courses for the EXSS fitness professional track:
EXSS 159 Fitness Management
EXSS 175 Human Anatomy
EXSS 181 Sport Psychology
EXSS 273 Research in Exercise and Sport Science
EXSS 276 Human Physiology
EXSS 360 Sport Nutrition (EXSS 376 Physiological Basis of Human Performance)
EXSS 379 Practicum in Physical Fitness and Wellness (one credit hour)
EXSS 385 Biomechanics of Sport
EXSS 410 Exercise Prescription and Testing in Healthy Populations
EXSS 412 Exercise Prescription in Clinical Populations (two credit hours). EXSS 476 Theory and Application of Strength Training and Conditioning for Fitness Professionals.

**Course Sequencing**

EXSS 273, 181, 385 (prerequisite, EXSS 175), and electives may be taken at any point in the major. For other courses the following sequence is required due to the building-block nature of the academic material:

**First Year**
BIOL 101/101L

**Second Year**
CHEM 101/101L and possibly BIOC 107 (may be taken first year)
Fall: EXSS 175
Spring: EXSS 276

**Third Year**
Fall: EXSS 376, 159
Spring: EXSS 410, 476, 360

**Fourth Year**
Fall: EXSS 412, 379
Spring: Remaining EXSS/elective courses

**Majoring in Exercise and Sport Science (Sport Administration Track): Bachelor of Arts**

The undergraduate sport administration track provides students with course work specific to sport related business and prepares students to work in high-level competitive sport settings. Graduates often secure jobs in professional sport, intercollegiate athletics, sport industry corporations, and youth sport organizations. Topics covered within the curriculum include sport marketing, law, finance, economics, sponsorship, licensing, sports information, facility management, media and community relations, and many other respective components of the sport industry.

Students must complete the following four exercise and sport science core courses:
EXSS 101 Foundations of EXSS
EXSS 273 Research in Exercise and Sport Science
EXSS 175 Human Anatomy
EXSS 276 Human Physiology

Students must take one additional sport science course from the following:
EXSS 181 Sport Psychology
EXSS 376 Physiological Basis of Human Performance
EXSS 380 Neuromuscular Control and Learning
EXSS 385 Biomechanics of Sport

Students must complete the following sport administration track courses:
EXSS 188 Emergency Care of Injuries
EXSS 221 Introduction to Sport and Recreation Administration
EXSS 322 Fundamentals of Sport Marketing
EXSS 324 Finance and Economics of Sport
EXSS 326 Legal Aspects of Sport

**Minoring in Exercise and Sport Science (Coaching Education Option)**

The minor in coaching education consists of five courses, distributed as follows:

Students take two core courses.
EXSS 188 Emergency Care of Injuries and Illness
EXSS 207 Coaching Principles

Three additional courses are required, including two from group A and one from group B.

**Group A:**
EXSS 141 Personal Health
EXSS 181 Sport Psychology
EXSS 211 Adapted Physical Education
EXSS 221 Introduction to Sport and Recreation Administration
EXSS 380 Neuromuscular Control and Learning
EXSS 385 Biomechanics of Sport
EXSS 476 Theory and Application of Strength Training and Conditioning
EXSS 478 Performance Enhancement Specialization for Fitness Professionals
RECR 430 Introduction to Leadership and Group Dynamics

Group B:
EXSS 205 Sport Skills I
EXSS 206 Sport Skills II

Minoring in Exercise and Sport Science (Exercise and Sport Science Option)

Students should satisfy the Physical and Life Science with lab Approaches requirement with BIOL 101 and BIOL 101L, which are prerequisites for the minor. The minor consists of five courses, distributed as follows:

One core course
EXSS 101 Foundations of EXSS

Four courses from:
EXSS 159 Fitness Management
EXSS 181 Sport Psychology
EXSS 376 Physiological Basis of Human Performance (Prerequisite: EXSS 276 or BIOL 252, with permission of instructor, both of which meet the Physical and Life Sciences Approaches requirement)
EXSS 380 Neuromuscular Control and Learning
EXSS 385 Biomechanics of Sport (Prerequisites: EXSS 175, MATH 110)

Minoring in Exercise and Sport Science (Recreation Administration Option)

The minor consists of five required courses:
EXSS 221 Introduction to Sport and Recreation Administration
RECR 311 Recreation and Leisure in Society
RECR 420 Program Planning in Recreation Services
RECR 430 Introduction to Leadership and Group Dynamics
RECR 475 Disability, Culture, and Therapeutic Recreation

Honors in Exercise and Sport Science

The senior Honors Program provides exercise and sport science majors the opportunity to pursue an independent, two semester research project. A student must have an overall GPA of 3.2 or above prior to acceptance into the departmental Honors Program and must maintain an overall average of 3.2 or above to remain in the program. Students complete EXSS 693H and EXSS 694H. Honors study involves the completion of a substantial piece of original research and the formal oral presentation of the results. Those successfully completing the program are awarded their degree with either honors or highest honors. Previous senior honors theses have researched such topics as recovery heart rate; balance and joint stability; and the effects of guided imagery.

Special Opportunities in Exercise and Sport Science

Departmental Involvement

In addition to its academic offerings, the EXSS department houses the campus recreation program (intramural sports, club sports, Carolina Fitness, Carolina Adventures, Heels Employee Fitness).

Students may also align with the Carolina Sports Business Club, the Carolina Baseball Marketing group, the Student Athletic Trainers Association, and the Chapel Hill Adaptive Sports Experience (C.H.A.S.E.) programs. The “Get Real and Heel” program provides an opportunity for qualified students to volunteer to provide exercise and recreation therapy services to women with breast cancer.

Experiential Education

EXSS 207, 271, 379, 694H, and RECR 420 satisfy the experiential education requirement.

Laboratory Teaching Internships and Assistantships

Athletic training students work with UNC-Chapel Hill sports teams and local high schools. The fitness professional students serve a practicum with local fitness organizations.

Study Abroad

The Department of Exercise and Sport Science is in the preliminary stages of developing a summer study abroad program in Montevideo, Uruguay to begin in summer 2008. Look for more information regarding the program on the EXSS departmental Web site. For other study abroad experiences the department will gladly work with its majors to determine appropriate credit.

Undergraduate Awards

The Patrick F. Earey Award, named in honor of a longtime faculty member, is given annually to the outstanding senior major in the department. The award signifies exemplary leadership, academic achievement, and extracurricular involvement by a senior exercise and sport science major.

The Ronald W. Hyatt Scholarship, named in honor of one of Carolina’s “priceless gems” and an EXSS faculty member, is a merit-based scholarship awarded annually to an outstanding full-time undergraduate exercise and sport science major with junior status.

Undergraduate Research

Students are encouraged to explore research interests by completing independent research studies and senior honors theses. For a few highly motivated and dedicated individuals, working with faculty on faculty research projects is possible.

Facilities

In addition to classroom space and physical activity area, the Fetzer Gym houses six well-equipped research and teaching laboratories:

1. The Applied Physiology Laboratory is fully equipped to measure metabolism, body composition, and aerobic fitness. Additionally, it houses a chemistry lab to study the biochemistry of exercise.
2. The Cadaver Anatomy Laboratory is designed to teach cadaver dissection in order to gain a greater knowledge about how the human body works in an athletic environment.
3. The Exercise Science Teaching Laboratory was specifically designed for teaching exercise science laboratory experiences as well as clinical exercise testing experiences.
4. The Sports Medicine Research Laboratory, equipped with the latest equipment to investigate athletic injuries related to the biomechanics and kinesiology of movement, offers as its primary research focus the prevention and treatment of athletic-related injuries.
5. The Motor Control Laboratory is designed for the study of how the central nervous system controls human movement. The lab is equipped for the measurement of electromyography, reflex modulation, and postural control.
6. The CPR laboratory is a teaching lab for CPR and first aid skills. The lab is equipped with mannequins, AED trainers, and first aid equipment.

Graduate School and Career Opportunities

Many undergraduate exercise and sport science majors are preparing for graduate work in related areas: exercise physiology, physical therapy, sports medicine, nutrition, athletic training, sports management, etc. They will be well prepared for master’s and doctoral programs at major universities. Numerous opportunities exist for graduate assistantships in these areas at UNC and other large universities. Numerous career opportunities exist in a variety of fields directly related to sport and exercise. Some graduates go directly into health/fitness/sport related employment. Others go on to attend professional schools or pursue advanced academic degrees.

Contact Information

Professor Sherry Salyer, Director of Undergraduate Studies, CB# 8700, 211 Fetzer Gym, (919) 962-6947, salyer@email.unc.edu. Website: www.unc.edu/depts/exercise.

EXSS

101 [077] Foundations of EXSS (3). Open to all students as an elective course. A study of the relationship and contribution of physical education to general education, historical background, basic biological, physiological, and sociological backgrounds of the modern program.

141 [041] Personal Health (3). Elective, open to all students. This course examines basic wellness concepts in the areas of physical fitness, nutrition, disease prevention, mental health, drug abuse, and human sexuality. Emphasis is on the individual’s responsibility for his/her own health.

159 [059] Fitness Management (3). The assessment and promotion of physical fitness including concepts and techniques of fitness testing, principles of weight training, aerobic dance, nutrition, and stress management as applied in health/fitness settings.


175 [075] Human Anatomy (3). The study of the structure of the human body with special emphasis on the musculoskeletal, articular, and nervous systems. Prosected cadaver materials are utilized to study the skeletal muscles and body viscera.


193 [093] Theory and Practice of Modern Dance Technique - Elementary Level Elective. (3). Prerequisites, PHYA 224 or equivalent. An intensive study of modern dance technique and philosophy, focusing on the physical principles of movement and their choreographic application. One hour seminar and 4-1/2 hours laboratory.

205 [055] Analysis of Sport Skills I (3). A professional preparation course in the skills, knowledge, safety, and teaching progressions of basketball, track and field, and softball/baseball.

206 [056] Analysis of Sport Skills II (3). A professional preparation course in the skills, knowledge, safety, and teaching progressions of soccer, tennis, and volleyball.

207 Coaching Principles (3). A professional preparation course for teaching and coaching. Includes basic instruction in coaching education and principles, pedagogy for coaching, conditioning for athletes and team building.

208 [074] Health and Physical Education in the Elementary School (3). This course deals with methods and materials of health and physical education in school levels kindergarten through sixth grade. Required of elementary education majors. Does not count toward physical education major.

210 [083] Physical Education for the Elementary School - Kindergarten Through Sixth Grade (3). This course deals with methods and materials of physical education in school levels kindergarten through the sixth grade.

211 [087] Adapted Physical Education (3). A study of problems related to body mechanics and the needs of the physically handicapped student.

221 [086] Administration of Athletics (3). This course deals with the policies and problems of organization and administration of physical education and athletic programs in school.

265 [065] Fundamentals of Athletic Training (3). Prerequisites, EXSS 175, 188, and permission of instructor. This course is designed to introduce the undergraduate athletic training student to the athletic training profession and provide the basic knowledge and skills necessary to recognize, evaluate, and treat injuries to the head and face, cervical spine, thoracic region, abdominal/urogenital region, and extremities.

271 [071] Athletic Training Clinical (1). Prerequisites, EXSS 175, 188, 265. This field experience offers implementation of theories and practices of athletic training and sports medicine under the supervision of a certified athletic trainer.

273 [073] Research in Exercise and Sport Science (3). Prerequisite, undergraduate math class. An introduction to research in the fields of physical education, exercise, and sport science with emphasis on understanding and application of research findings.

275L [075L] Human Anatomy Laboratory (1). Prerequisites, EXSS 175 and BIOL 101L, GPA 3.1 but not required for core. EXSS 275L is a basic human anatomy laboratory course designed to accompany EXSS 175 for students endeavoring to major in the allied health professions.

276 [076] Human Physiology (3). Prerequisite, EXSS 175 or BIOL 252. A lecture course in elementary physiology, covering the various systems of the body.

290 [099] Special Topics in EXSS (3).

293 [097] Theory and Practice of Modern Dance Technique - Intermediate Level Elective. (3). Prerequisite, EXSS 193 or permission of instructor. An intensive study of modern dance technique and philosophy, focusing on the physical principles of move-
ment and their choreographic application. One hour seminar and 4–1/2 hours laboratory.

322 [062] Fundamentals of Sport Marketing (3). This course is designed to introduce students to marketing within the sport industry, including the unique aspects of the sport product, sport consumer market, and the sport product world.

324 [094] Finance and Economics of Sport (3). Prerequisites, none but EXSS 101, 221 recommended. This course provides an understanding of the financial and economic growth of sport, economic theory applied to the sport industry, and the basic principles and methods of sound fiscal control.

326 [095] Legal Aspects of Sport (3). Prerequisites, none but EXSS 101, 221 recommended. This course provides a foundation in general legal concepts and familiarizes students with those areas they are most likely to encounter in the sports and fitness industry.

360 [060] Sports Nutrition (3). Prerequisite, EXSS 276 or NUTR 240. The role of nutrition in maximizing physical performance, promoting health, and controlling body weight. Includes individual nutritional assessments.

366 [066] Evaluation of Athletic Injuries (3). Prerequisites, EXSS 175, 188, 265. This is an advanced athletic training course, designed to provide the athletic training student with knowledge and skills necessary to recognize and evaluate athletic injuries of the spine and extremities.

367 [067] Therapeutic Modalities (3). Prerequisites, EXSS 175, 188, 265, 366. This is an advanced athletic training course, designed to provide the athletic training student with knowledge and skills necessary for treating injuries.

368 [068] Therapeutic Exercise and Rehabilitation (3). Prerequisites, EXSS 175, 188, 265, 366, 367. This is an advanced athletic training course, designed to provide the athletic training student with knowledge and skills necessary for rehabilitating injuries.

369 [069] Athletic Training Seminar (3). Prerequisites, EXSS 175, 188, 265, 276, 366, 367, 368. A presentation of the historical and current perspectives of athletic training, including techniques for organizing and administering athletic training programs.

370 [070] General Medicine in Athletic Training (2). Prerequisites, EXSS 175, 188, 265, 276. Advanced course focusing on understanding instrumentation used in assessing internal injury related to sport. Pharmacology, drug testing, psychosocial interventions, and selected emergency procedures pertaining to athletic injury are also presented.

376 [089] Physiological Basis of Human Performance (3). Prerequisites, EXSS 175; EXSS 276 or BIOL 252, must take lab section along with class; senior majors only. The application of physiological principles to sport and physical activity. Immediate and chronic adaptations to exercise are studied. Two lecture and two laboratory hours a week.

379 [108] Practicum in Physical Fitness and Wellness (1–3). Prerequisites, EXSS 159, 175, 276, 188, 376; suggested EXSS 360 and 410. An introductory practical experience course to enable the student to apply knowledge and skills obtained in EXSS coursework and in an actual worksite under the direct supervision of an experienced professional.

380 [080] Neuromuscular Control and Learning (3). Provides an understanding of the neuromuscular factors controlling movement and how changes in these factors lead to the learning of physical skills. Promotes the application of neuromuscular control and learning principles to the teaching of physical skills with examples from fields such as athletic training, physical therapy, coaching, and medicine.

385 [085] Biomechanics of Sport (3). Prerequisite EXSS 175 or permission of instructor. The study and analysis of human movement including the fundamental aspects of the musculoskeletal and articulation systems. Principles of biomechanics, including application to neuromuscular fitness activities, aerodynamics in sport, hydrodynamics, rotary motion, throw-like and push-like patterns, and the analysis of projectiles.

396 [090] Independent Studies in Exercise and Sport Science Elective (1–3). Prerequisites, any two EXSS courses with B or better, CGPA 3.0, must be a junior or senior. Individually designed in-depth study in an area of interest within exercise and sport science. Available to both majors and nonmajors under the supervision of selected EXSS faculty member.


412 [112] Exercise Prescription in Clinical Populations (2). Prerequisite, EXSS 376. An introductory course in the theoretical basis exercise testing and prescription for clinical populations, so that students can develop safe and effective exercise programs for diseased populations.

476 [114] Theory and Application of Strength Training and Conditioning for Fitness Professionals (3). Prerequisites, EXSS 175, EXSS 276, PHYA 243 or permission of instructor. This is an intermediate to upper level course designed to provide students with theoretical and practical knowledge of the physiological, biomechanical, functional, and administrative aspects of designing and supervising conditioning programs for various populations.

478 [116] Performance Enhancement for Health Professionals (3). The performance enhancement specialist (PES) course is designed for students in the allied health professions interested in creating individualized, integrated training programs.

479 Performance Enhancement Specialization for Health Professionals (1). Prerequisites, EXSS 175, 276, 366, and 368. An upper-level course designed to provide students who have a health profession background with the theoretical and practical knowledge related to the Performance Enhancement Specialization for athletics.

693 [098A] Senior Honors Thesis (3). Prerequisites, EXSS 273, CGPA 3.2, major GPA 3.4, and permission from the director of department’s Honors Program. Directed independent research under the supervision of a faculty advisor who teaches in the exercise and sport science curriculum.

6941I Senior Honors Thesis (3). Prerequisites, EXSS 273, CGPA of 3.2, major GPA of 3.4, and permission from the director of the department’s Honors Program. Preparation of an honors thesis and an oral examination on the thesis.

LFIT

Note on Lifetime Fitness Courses

One Lifetime Fitness course is a graduation requirement for all students at UNC-Chapel Hill. These courses combine practice in a sport or physical
activity with general instruction in lifelong health. The Lifetime Fitness courses are PHYA courses numbered in the 100s (e.g., PHYA 110).

102 Lifetime Fitness: Adapted Physical Activity (1). Assignments to this class are made for students with special needs in physical activities focusing primarily on acute and chronic physical limitations. Activities are assigned commensurate with interests and abilities.

103 Lifetime Fitness: Aerobics (1). This course is an introduction to fitness and wellness, and includes developing personal fitness programs and instruction in physical activity. The activity portion of the course includes various forms of aerobics.

104 Lifetime Fitness: Exercise and Conditioning (1). This course is an introduction to fitness and wellness, and includes developing personal fitness programs and instruction in physical activity. The activity portion of the course promotes cardiovascular fitness through movements to music. It develops strength, flexibility, and improved cardiorespiratory efficiency.

105 Lifetime Fitness: Indoor Sports (1). This course is an introduction to fitness and wellness, and includes developing personal fitness programs and instruction in physical activity. Activities will promote cardiovascular endurance, muscular strength and endurance, and flexibility.

106 Lifetime Fitness: Beginning Jogging (1). This course is an introduction to fitness and wellness, and includes developing personal fitness programs and instruction in physical activity. The activity portion of the course promotes cardiovascular fitness through jogging.

107 Lifetime Fitness: Intermediate Jogging (1). This course is an introduction to fitness and wellness, and includes developing personal fitness programs and instruction in physical activity. Activity portion for students who can complete 30 minutes of jogging.

108 Lifetime Fitness: Outdoor Sports (1). This course is an introduction to fitness and wellness, and includes developing personal fitness programs and instruction in physical activity. Activity portion of the course includes ultimate frisbee, flag football, and soccer.

109 Lifetime Fitness: Racquet Sports (1). This course is an introduction to fitness and wellness, and includes developing personal fitness programs and instruction in physical activity. The activity portion of the course includes badminton, tennis, and racquetball.

110 Lifetime Fitness: Beginning Swimming (1). This course is an introduction to fitness and wellness, and includes developing personal fitness programs and instruction in physical activity. The activity portion of the course includes swimming skills for beginners.

111 Lifetime Fitness: Swim Conditioning (1). This course is an introduction to fitness and wellness, and includes developing personal fitness programs and instruction in physical activity. The activity portion of the course promotes cardiovascular fitness through swimming.

112 Lifetime Fitness: Walking (1). This course is an introduction to fitness and wellness, and includes developing personal fitness programs and instruction in physical activity. The activity portion of the course promotes cardiovascular fitness through walking.

113 Lifetime Fitness: Weight Training (1). This course is an introduction to fitness and wellness, and includes developing personal fitness programs and instruction in physical activity. The activity portion includes basic techniques of weight training.

201 [001] Adapted Physical Activity (1). Assignments to this class are made for students with special needs in physical education focusing primarily on acute and chronic physical limitations. Activities are assigned commensurate with interests and abilities. Students are required to present an exercise prescription from a physician including prescribed activities and limitations.


203 [034] Aerobic Circuit Training (1). Challenges students to achieve higher levels of overall fitness in a cardiovascular program that combines stations of muscular strength with endurance while incorporating a wide variety of equipment. Students are expected to be able to participate in a minimum of 20 minutes of aerobic exercise.

205 [006] Archery (1). Designed to teach the beginning student proper techniques of target shooting with a bow and arrow. This course deals with history, terminology, safety, and equipment selection. Techniques include the stance, notching, drawing, anchoring, aiming, releasing, and following through. The use of the bow sight and target scoring are presented.

206 [004] Badminton (1). The course includes an orientation to the history and rules of the game, terminology, and equipment. Basic skills and techniques taught include the proper grip, stance, footwork, forearm and backhand, clear, long and short serves, net shots, around-the-head shot, and the smash. Basic single and double game strategies are presented.

208 [005] Beginning Ballet (1). Prerequisite, PHYA 212 (Introduction to Dance Technique) or equivalent experience. The technique and vocabulary of classical ballet are presented. Exercises at the barre are followed by practice and combinations in the center.

209 [007] Beginning Basic Training (1). Beginning physical fitness program based on the model used by the U.S. Army Physical Fitness Academy and designed to improve aerobic and anaerobic strength, endurance, and overall physical fitness.

210 [007] Beginning Bowling (1). Presents terminology of the game, various grips and stances, the delivery approach, release, and follow through. Pick up spare leaves, releasing straight, hook, and back-up balls, reading the lanes, and handicapping are also included. Rules and scoring as well as tournament bowling are learned. An additional fee is required. Students with an average of 135 or higher are not eligible for this beginner course.

211 [030] Cycling (1). The purpose of this course is to introduce students to the history and skill of cycling. The course will focus on maintenance of the bicycle, fitness acquired through the use of cycling, and the skills of climbing, descending, cornering, and balance.

212 [021] Introduction to Dance Technique (1). This course is an introduction to the positions, exercises, and steps common to ballet, jazz, and modern dance. It is designed for students with no previous dance experience and is a prerequisite for PHYA 208, PHYA 220, and PHYA 224.
213 [032] Exercise and Conditioning (1). Covers activities that promote cardiovascular endurance, muscular strength and endurance, and flexibility. The course content includes fitness evaluation, stretching, weight training, aerobic exercise, jogging, and circuit training. Individual exercise programs are developed.

214 [009] Beginning Fencing (1). Introduces students to the history, rules, and terminology of the sport of fencing. It traces the development of ancient and modern weapons, presents warm-up, stretching, and conditioning exercises that are specific to the sport, and covers the grip, basic positions, and footwork that comprise the basis of the sport. Individual and team competitions are conducted in the course.

216 [013] Beginning Golf (1). Stresses swing motion and the basic fundamentals. Techniques of the full swing and the short game are presented. Rules and etiquette are covered. Students who shoot 115 or less for 18 holes are not eligible for this beginner course.

217 [014] Beginning Tumbling and Gymnastics (1). Through proper progression, students are exposed to compulsory routines on several pieces of gymnastic apparatus, including the balance beam, parallel bars, pommel horse, rings, horizontal bar, and strength, flexibility, and gross motor coordination. Emphasis is placed on safe spotting techniques and safety awareness.

219 [008] Beginning Horseback Riding (1). Introduces students to tacking, grooming, and riding the basic gaits of walk, trot and canter. An additional fee is required; this course is taught off campus.

220 [017] Beginning Jazz Dance (1). Prerequisite, PHYA 212 (Introduction to Dance Technique). Students will explore the roots of the jazz style through rhythm, principles of isolation and opposition, shape and energy through center work, stretches, movement across the floor, and simple routines. Previous ballet training is highly recommended.

221 [016] Beginning Jogging (1). The purpose of this course is to provide students with the opportunity to develop cardiovascular fitness through a popular activity. Selection of proper clothing and equipment, the physiological effects of a jogging program, care and prevention of common injuries, and the mechanics of jogging are presented.

222 [018] Karate (1). This course offers an introduction to the basics of one of many martial art styles. Emphasis is on traditional forms, basic movements, philosophy, discipline, and proper class conduct. Students will learn horse-riding stance and forward stance, upper, middle, and lower part blocks, single punch, double punch, and hand sword, front kick and side kick, and two traditional forms.

223 [023] Lifeguard Training (1). Prerequisite, an ability to swim 500 yards continuously and retrieve a 10-pound object from a depth of seven feet. This course will prepare individuals to effectively assume the duties and responsibilities of lifeguards at swimming pools and at protected (nonsurf) open water beaches. Emphasizes saving the lives of others through increased awareness of preventive lifeguarding measures and the practice of extensive rescue techniques.

224 [019] Beginning Modern Dance (1). Prerequisite, PHYA 212 (Introduction to Dance Technique). Students will explore the principles of movement that define modern dance, gaining some understanding of the use of weight, the shape of the body in space, an awareness of timing and energy, and individual creative potential through center work, stretches, floor work and various movement phrases across the floor.

225 [020] Beginning Racquetball (1). The course introduces the beginner to basic skills, including forehand and backhand drives, grips, footwork, and serves such as the drive, Z, and the lob. Safety considerations as well as rules and terminology are covered. Basic strategy is presented involving the return of service, use of ceiling, rear wall, pass, and kill shots.

227 [035] Scuba (1). Prerequisite, strong swimming skills. This basic course prepares students for safe and enjoyable participation in recreational sport diving. It includes the skills of skin diving and scuba. Lectures cover physiology of diving, first aid, and decompression. It can lead to certification (for an additional fee) if students attend open water training dives conducted at the end of the semester. An additional fee is required.

228 [022] Self Defense (1). This course introduces the basics of self-defense techniques and will be taught with special primary emphasis on women’s self defense methods by using the weak points of attackers.

229 [010] Downhill Skiing (1). This course is conducted in Boone, N.C., for five days over the winter break. It includes orientation to proper equipment selection, such as clothing, boots, skis, and bindings, the use of lifts and towels, and the basic fundamentals, such as parallel turns, edging concepts, and rhythm. An additional fee is required.

230 [024] Beginning Soccer (1). Basic soccer skills are presented including dribbling, shooting, passing, heading, trapping, and tackling. Position play and strategies for basic offense and defense are learned as well as rules and terminology. Conditioning is achieved through drills and game play.

231 [036] Beginning Social Dance (1). The basic step patterns of popular social dances, such as fox trot, waltz, cha-cha, swing or shag, hustle, tango, and others are taught. Confidence in the ability to lead or to follow is developed. Social enjoyment of dance is emphasized.

233 [026] Beginning Squash (1). Basic shots are learned including forehand and backhand drives, corners, reverse corners, volleys, drop shots, and serves. Rules, terminology and basic strategies are presented. Appreciation of squash as a game for fitness and fun is developed.

235 [027] Beginning-Level II Swimming (1). The course consists of swimming skills for students with limited water experience. These skills include water adjustment, floating, kicking, front crawl stroke, rhythmic breathing, and elementary backstroke. Emphasis is on efficient movement through the water. Foundation skills taught enable students to enjoy swimming and other aquatic activities as a lifetime sport. Basic water safety and first aid procedures are included.

236 [038] Swim Conditioning (1). This course is designed to promote cardiovascular fitness through swimming. Conditioning and the refinement of stroke techniques will be stressed through stroke practice and workout routines. Topics will include stroke mechanisms of the four competitive strokes, starts, turns, interval, sprint, and long distance training.

238 [029] Tennis (1). Basic skills are learned including forehand and backhand groundstrokes, the volley, and the serve. Rules, ter-
minology, and basic game strategy will be taught. Through play, an increased level of fitness and skill will be gained to promote participation in tennis throughout life.

239 [028] Triathlon Training (1). The purpose of this course is to introduce students to the sport of triathlons integrating the discipline of running, cycling, and swimming. The course is physically challenging and provides information on transitions and maintenance of equipment, as well as setting up a training program.

240 [040] Ultimate Frisbee (1). Teaches the knowledge, skills, and rules of ultimate frisbee in order to develop a lasting interest in lifetime participation and to increase the student’s level of physical fitness.

241 [031] Beginning Volleyball (1). Basic skills are taught including the forearm pass, the overhead pass, setting, spiking, blocking, dinking, and serving. Rules and terminology are included. Basic offensive and defensive strategy is learned.

242 [003] Water Safety Instructor (1). The purpose of this course is to train an instructor to teach American Red Cross progressive swimming and water safety courses. Course content includes analysis of stroke mechanics, review of water safety skills, and investigation of teaching methodology. Orientation to American Red Cross administrative procedures is included. Students are expected to be proficient in the following strokes: front crawl, back crawl, elementary backstroke, breaststroke, and sidestroke.

243 [033] Beginning Weight Training (1). Basic techniques and knowledge of variable resistance and free weight systems are taught. Fitness evaluation and individual workout programs are included. Development of muscular strength and endurance is stressed. Physiological principles of fitness and their relationships to weight training are also emphasized.

290 [090] Special Topics (1). This course is designed to cover the study and practice of special topics directed by an authority in the field. Subject matter will vary per instructor and topic.

302 [011] Intermediate Aerobics (1). Challenges students to achieve higher levels of cardiovascular, flexibility, and strength fitness through dance and exercise movements to music. Students are expected to be able to participate in a minimum of 20 minutes of aerobic activities.

308 [005] Intermediate Ballet (1). For the dancer with a solid understanding of the basics of ballet and several years’ dance training. It emphasizes more sophisticated steps in longer combinations.

310 [007] Intermediate Bowling (1). Focuses on refinement of the experienced student’s delivery mechanics including the approach, release, and follow-through. Maximum quality practice time is emphasized. Alternative approaches and releases are presented and several types of tournaments are conducted.

314 [009] Intermediate Fencing (1). A review of the footwork and bladework covered in the beginning course precedes an introduction to pair exercises and individual lessons dealing with both technique and tactics. Emphasis in this course is on individual and paired exercises rather than on large group lessons. An introduction to officiating is also covered in conjunction with greater competitive opportunities.

316 [013] Intermediate Golf (1). Builds on and refines the basic fundamentals of the swing motion. Ball flight control is introduced with more in-depth swing analysis. Students who shoot 85 to 115 for 18 holes are eligible for this course.

317 [014] Intermediate Tumbling and Gymnastics (1). The purpose of this course is to provide students with the opportunity to learn more difficult gymnastics skills and to incorporate them in a fluid routine. Added emphasis is placed on muscular strength and flexibility. Safe spotting techniques, particularly for more advanced skills, are stressed throughout the course.

319 [008] Intermediate Horseback Riding (1). Students are introduced to jumping; emphasis is placed on learning more balance and control in the three basic gaits. Dressage is introduced. An additional fee is required; this course is taught off campus.

320 [017] Intermediate Jazz Dance (1). Students will explore the jazz style in greater complexity plus gain an increased understanding of jazz music as it is related to jazz dance. It includes center work, complex movement phrases across floor, adagio, and routines using a large movement vocabulary. At least two years of dance experiences and familiarity with jazz style are recommended.

321 [016] Intermediate Jogging (1). Introduces students to the cardiovascular and overall fitness benefits of running. Students will learn how running can be a lifetime activity when approached sensibly and effectively. Students are expected to be able to run three miles in under 30 minutes prior to registering for this course.

324 [019] Intermediate Modern Dance (1). Students will work to develop greater technical skill and continue a more advanced exploration of modern dance principles of effort-shape through center work and phrases of greater length and complexity in the center and across the floor. At least two years of modern dance training are recommended.

325 [020] Intermediate Racquetball (1). Students will review beginning skills. Aspects of competition will be covered, including match preparation, officiating a match, and tournament play. Specific practice will involve shot selection and placement and back wall play.

330 [024] Intermediate Soccer (1). Basic skills are reviewed and refined. Dead ball situations are studied, especially corner kicks and direct and indirect free kicks. Different systems of play are introduced and evaluated. Positional play is stressed in the development of advanced defensive and offensive tactics.

335 [027] Intermediate Swimming (1). Techniques for crawl, sidestroke, elementary backstroke, back crawl, and breaststroke are covered. Basic water rescue skills are presented including first aid procedures. Physical fitness is promoted through swimming.

338 [029] Intermediate Tennis (1). Increased proficiency in four basic skills will be developed. New shots taught include the overhead drop, the lob, and spin serve. Strategy for singles and doubles play will be stressed. Emphasis is on increased pace and ball placement.

341 [031] Intermediate Volleyball (1). Students improve execution of basic skills through practice. Stresses safe execution of dives and rolls. Teaches various offensive strategies and defensive alignments. Emphasizes team play.

343 [033] Intermediate Weight Training (1). Emphasizes the development of individualized muscular strength and endurance programs following instruction in the physiological principles and
techniques of weight training. Students should have beginning weight training skills, techniques, and knowledge prior to enrolling in this class.

402 Leading Group Fitness Activities (1). All aspects of leading group fitness activities will be explored and applied including: components of an aerobic exercise class, modifications for individual needs and special populations, health screening, fitness testing.

408 [005Z] Advanced Ballet (1). For the dancer with substantial background in ballet. Speed, endurance, multiple turns, leaps, and complicated combinations are emphasized.

409 [037Z] Advanced Basic Training (1). Advanced fitness program based on the model used by the U.S. Army Physical Fitness Academy to further improve aerobic and anaerobic fitness. Builds on conditioning level obtained in PHYA 209.

414 [009Z] Advanced Fencing (1). A review of the footwork and bladework covered in the intermediate course, pair exercises and individual lessons dealing with both technique and tactics. Emphasis in this course is on individual and paired exercises rather than on large group lessons. Officiating is also covered in conjunction with greater competitive opportunities.

416 [013Z] Advanced Golf (1). Prerequisite, a 15 or less handicap. Comprising this course are the ability to score, the analysis of strategy and shot production, and improvement of self-awareness and coping strategies.

419 [008Z] Advanced Horseback Riding (1). Provides more technical flatwork at the walk, trot, and canter, as well as jumping. Course work will be primarily jumping. An additional fee is required; this course is taught off campus.

420 Program Planning in Recreation Services (3). This experiential course covers the concepts and skills used in program planning. Students apply their program planning skills to real life situations and implement a recreation program for community agency.

424 [019Z] Advanced Modern Dance (1). This course is designed for the dancer with a solid understanding of the principles underlying modern dance and several years of dance training. It focuses on longer and more complicated phases of movement.

427 Advanced Open Water SCUBA Diving (1). Prerequisite, PHYA 227 or nationally recognized scuba certification. The course will follow the PADI Advanced Open water course curriculum which contains five specialty dives focusing on Deep, Night, Peak Performance Buoyancy, Underwater Navigation, and Underwater Naturalist.

438 [029Z] Advanced Tennis (1). Individual skill improvement in all shots with pace and accuracy of shots is stressed. Advanced strategies for singles and doubles play are learned. Analysis of opponent's strengths and weaknesses and physical fitness are stressed through drills and games.

RECR

050-089 [006E] First-Year Seminars (3). The seminars are designed to enable first year students to work closely with senior professors in classes that enroll 20 students or fewer. See the directory of classes for specific offerings.


311 [111] Recreation and Leisure in Society (3). An introduction to leisure studies and its various elements developed from historical, philosophical, and theoretical perspectives with a focus on the meanings of leisure in individual and community life.

370 [070] Recreation Services across the Lifespan (3). An analysis of the issues that affect recreation programming for persons across the lifespan. Constraints associated with age, economics, and disabling conditions will be explored.

390 [199] Selected Issues Seminar (1-12). Current issues, techniques, and research of a topical short-term nature are the focus of these seminars.

396 [096] Independent Studies in RECR (1-12). Individual readings, research, and/or field study of a recreation issue, problem, service system, or activity pattern. The course may take the form of an independent study or seminar depending upon student interests and enrollment.

430 Introduction to Group Dynamics and Community Leadership (3). An analysis of the techniques, methods, and motives of group and community leaders. Special attention is focused upon the roles of organizational structure, personnel policies, and in-service training programs.

440 [040] Outdoor Recreation and Environmental Issues (3). A survey course taught from a psychosocial perspective addressing the roles of public and private agencies in meeting increased demand for outdoor recreation. Emphasizes the implications of environmental awareness on outdoor recreation.

470 [112] Recreation and Leisure Across the Lifespan (3). An analysis of aspects that affect recreation and leisure behavior from birth to death with a focus on issues associated with race, class, gender, sexual identity, and disabling conditions.

475 Disability, Culture, and Therapeutic Recreation (3). An examination of disability from a cultural perspective with the application of theoretical and scientific knowledge to provide recreation interventions that facilitate participation in life by individuals with disabilities.

581 [181] Internship in Recreation (3). Prerequisite, three or more courses in recreation. Students will have an opportunity to receive varied practical on-the-job experience in one of many agency types.

676 [176] Clinical Skills in Therapeutic Recreation (3). Development of helping skills for the practice of therapeutic recreation emphasizing rationale, techniques, and role responsibilities of therapeutic recreation in the area of leisure education. A 20-hour practicum is required.

677 [177] Disabling Conditions and the Practice of Therapeutic Recreation (3). Prerequisites, RECR 175 and RECR 176. Instruction in the relationship between various disabling conditions and the practice of therapeutic recreation. A 24-hour practicum is required.

691 [098] Honors in RECR (3). Special studies for undergraduates. Intensive study on a particular topic under the supervision of a qualified member of the staff. For RECR majors, with special permission of the faculty members involved and the director of undergraduate studies.
Curriculum in Folklore
www.unc.edu/depts/folklore

GLENN HINSON, Chair

Core Faculty
William Ferris, Trudier Harris, Glenn Hinson, Katherine Roberts, Patricia Sawin.

Professors

Associate Professors
Robert Daniels, John Fiorin.

Assistant Professors
Marcie Ferris, Matthew Hull, Valerie Lambert, Jocelyn Neal, Christopher Nelson, Karla Slocum.

Introduction
The Curriculum in Folklore focuses on the study of creativity and aesthetic expression in everyday life, and on the social and political implications of this expression as it unfolds in the contested arenas of culture. In essence, it looks to those expressive realms that communities infuse with cultural meaning, realms that are often deeply grounded in tradition. Consequently, the curriculum studies areas as diverse as traditional pottery and African American gospel, Mardi Gras celebrations and midwifery, work-site stories and bluegrass fiddling, graffiti and barbecue and cyber-legends. Connecting all of these domains is a sense of artistry, creativity, and soulful performance, through which communities give voice to the issues and concerns that they see as central to their being. As these issues change and as communities define themselves differently in light of shifting social, political, and economic realities - so does community-based artistry. Folklore thus moves beyond the study of the old and time-honored to explore emergent meanings and unfolding re-definations of beauty, faith, and truth.

The vehicle for this exploration is fieldwork, the real-world study of people’s lives in everyday settings. Rather than relying on the distanced abstractions of survey questionnaires and library research, folklore study grounds itself in conversation and participatory engagement. Hence many of the curriculum’s courses encourage students to move beyond the University to engage experts of the everyday in the communities that they call home. Given this focus, the curriculum directs much of its teaching to regional folklore, inviting students to take advantage of the area’s rich fieldwork opportunities while complementing the University’s strengths in the study of Southern history, literature, and culture.

Structured as an interdisciplinary program, the curriculum draws many of its courses from other departments. This allows it to offer classes on music, narrative, festival, architecture, belief, language, and art across communities defined by race, gender, class, ethnicity, region, faith, and occupation. The curriculum does not offer a separate undergraduate major, but does offer a folklore minor. Students who wish to study folklore in a more intensive manner can craft an independently designed major through the interdisciplinary B.A.

Program of Study
A minor in folklore is available.

Minoring in Folklore
The undergraduate minor in folklore consists of five three-hour courses, as specified in the categories listed below.

A. Two courses on genre, drawn from: FOLK 334, 375, 470, 484, 487, 502, 550, 560, 571, 585, 610; ANTH 147, 151; MUSC 144, 145, 146.

B. One or two courses on community, drawn from: FOLK 130, 230, 340, 342, 587, 589, 684; ANTH 142, 155, 205, 226, 234; MUSC 240.

C. One or two courses on theory from: 323, 428, 429, 435, 454, 455, 473, 485, 525, 537, 562, 565, 670, 675; ANTH 120.

From time to time, current or visiting faculty will offer additional courses not listed here. The curriculum will post these on the semester’s course listing and will determine – on a course-by-course basis – which minor requirements each will fill.

Honors in Folklore
Folklore majors who wish to pursue a focused, faculty-advised research project in their senior year may opt for honors, a program that joins motivated students with faculty mentors in student-defined studies of performance and expressive culture. Honors projects are not for the faint of heart; rather, they’re designed for motivated students who wish to explore an issue to a degree not enabled by most undergraduate classes. When pursuing honors, a student dedicates two courses - FOLK 691H and 692H - in consecutive semesters to conducting independent research and writing an issue-oriented thesis. In most instances, the research will be ethnographic, drawing the candidate into intensive fieldwork in a nearby community; honors projects also can be library-based, drawing upon secondary sources or the rich resources of the Southern Folklife Collection.

To qualify for honors candidacy, students must meet the same course requirements as other folklore majors and must maintain a cumulative grade-point average of 3.2 or higher throughout their senior year. At the close of their junior year, students should contact a faculty advisor (who must be a core member of the curriculum) with whom they would like to work over the following two semesters. With the advisor’s guidance, the student will then design a research project that will culminate in a written thesis to be defended before a committee consisting of the advisor and two readers.

Students who are interested in pursuing honors in folklore should contact the chair of the curriculum in the closing months of their junior year.

Special Opportunities in Folklore

Departmental Involvement
Dedicated to an ethic of public engagement, the Curriculum in Folklore maintains close working ties with a range of programming agencies, educational organizations, and production companies across the region. If students are interested in working with these groups - in realms ranging from festival production to classroom workshops to exhibition design - the curriculum will help facilitate the relationship. It also periodically produces concerts of vernacular music, dance, and narrative for the campus community; students are certainly invited to initiate, or to assist with, these productions.

degree program in the College of Arts and Sciences. Students interested in this option should consult with the chair of Folklore, and then apply through the director of interdisciplinary studies in 300 Steele Building.
Study Abroad
The curriculum actively encourages folklore majors to enroll in study abroad programs. Offering first-hand experience in cultural settings other than one's own, these programs foster the development of cultural perspective, invariably granting new insights into the expressive worlds in which students are most interested. At the same time, they allow intensive language training and often offer compelling course work in folklore. Students interested in studying abroad should contact the curriculum chair and the University's Study Abroad Office to assess the relevance of available programs and to arrange the transfer of credit hours for their folklore major. The curriculum particularly hopes that students won't be discouraged by the cost of studying abroad; such study is often affordable even to students who require financial aid. For information about student loans and scholarships for this purpose, students should contact the Study Abroad Office.

Undergraduate Research
The study of vernacular culture— and of the everyday artifices that infuse culture with spirit and meaning — is perhaps best pursued in the real-world laboratories of community. The key to such study is emotional and analytical engagement, fostered through conversation, participation, and the crafting of partnerships that pursue shared understanding. Many folklore courses encourage such engagement by inviting students to conduct fieldwork in the communities in which they're interested. Indeed, fieldwork might be considered a keystone of most folklore classes.

Students who wish to pursue folklore study outside of conventional classroom settings, or who desire advanced work beyond current course offerings, should consider FOLK 495 or 496. The former invites students to engage in directed field research; the latter encourages them to pursue non-field-based folklore study. Both unfold under the mentorship of a faculty member, and both require the permission of that faculty member in the semester before the class is taken. Students interested in pursuing one of these independent research options must have completed prior course work in folklore or a related social science. To register, students should contact the chair of the curriculum.

Contact Information
Students should consult the chair of the curriculum, Professor Glenn Hinson, in 228 Greenlaw Hall, (919) 962-4065; ghinson@unc.edu.

FOLK
130 [133] Anthropology of the Caribbean (ANTH 130) (3). Theories and examples of how Caribbean people live, act, and see themselves within various cultural, social, economic, and political contexts across time. Attention to North American views of the Caribbean.


323 [123] Magic, Ritual, and Belief (ANTH 323) (3). Prerequisite, permission of instructor or department. Starting with the late 19th-century evolutionists, this course discusses, intensively, major anthropological theories of magico-religious thought and practice, then offers an approach of its own.


340 [040] Southern Style, Southern Culture (ANTH 340) (4). An anthropological journey into the worlds of Southern meaning, exploring the linked realms of aesthetics, faith, class, gender, and the polities of culture. An introduction to anthropology, with field work required.

342 [090] African-American Religious Experience (AFAM 342, ANTH 342, RELI 342) (3). Prerequisite, students must have taken at least one course in AFAM, ANTH, or RELI. Introduction to the diversity of African-American beliefs, experiences, and expression from the colonial era to the present. Exploration will be historical and thematic.

375 [176] Food in American Culture (AMST 375) (3). This course will examine the history and meaning of food in American culture and will explore the ways in which food shapes national, regional, and personal identity.

428 [142] Religion and Anthropology (ANTH 428, RELI 428) (3). Religion studied anthropologically as a cultural, social, and psychological phenomenon in the works of classical and contemporary social thought.

429 [129] Culture and Power in Southeast Asia (ANTH 429, ASIA 429) (3). The formation and transformation of values, identities, and expressive forms in Southeast Asia in response to the forms of power. Emphasis on the impact of colonialism, the nation-state, and globalization.

435 [135] Consciousness and Symbols (ANTH 435, CMPL 435) (3). This course explores consciousness through symbols. Symbols from religion, art, politics, and self are studied in social, psychological, historical, and ecological context to ascertain meanings in experience and behavior.

454 [154] Historical Geography of the United States (GEOG 454) (3). A study of selected past geographies of the United States with emphasis on the significant geographic changes in population, cultural, and economic conditions through time.

455 [155] Method and Theory in Ethnohistoric Research (ANTH 455) (3). Integration of data from ethnographic and archaeological research with pertinent historical information. Familiarization with a wide range of sources of ethnohistoric data and practice in obtaining and evaluating information. Pertinent theoretical concepts are explored.

470 [171] Medicine and Anthropology (ANTH 470) (3). This course examines cultural understandings of health, illness, and medical systems from an anthropological perspective with a special focus on Western medicine.

473 [173] Anthropology of the Body and the Subject (ANTH 473) (3). Anthropological and historical studies of cultural constructions of bodily experience and subjectivity are reviewed, with emphasis on the genesis of the modern individual and cultural approaches to gender and sexuality.

484 [184] Discourse and Dialogue in Ethnographic Research (ANTH 484, LING 484) (3). Study of cultural variation in styles of speaking applied to collection of ethnographic data. Talk as
responsive social action and its role in the constitution of ethnic and gender identities.

485 [146] Introduction to Folklore (ANTH 485, ENGL 485) (3). An introduction to the study of creativity and aesthetic expression in everyday life, considering both traditional genres and contemporary innovations in the material, verbal, and musical arts.

487 [186] Folk Narrative (ENGL 487) (3). The study of three genres of folk narrative (fairytale, personal narrative, and legend) and their distinctive roles in contemporary life.

488 No Place Like Home: Material Culture of the American South (3). Seminar will explore the unique worlds of southern material culture and how "artifacts" from barns to biscuits provide insight about the changing social and cultural history of the American South.

490 [195] Topics in Folklore (3). Topics vary from semester to semester.

495 [198] Field Research (3). Research at sites, which vary.

496 [199] Directed Readings in Folklore (3). Prerequisite, permission of the department. Topic varies based on instructor.


525 [121] Culture and Personality (ANTH 525) (3). Systems theory used to conceptualize relationships between cultural patterns and individual minds. Functional, dysfunctional, and therapeutic processes considered. Examples from Africa, Asia, Europe, and Native America. Lectures, films, recitations.

537 [137] Gender and Practice (ANTH 537, WMST 438) (3). A study of the ways in which individuals constitute themselves as gendered subjects in the contemporary context of economic and cultural globalization.

550 [148] Traditional Craftsmanship (3). An introduction to material folk culture, exploring the meanings that people bring to traditional arts and the artful creations with which they surround themselves (e.g., architecture, clothing, altars, tools, food).

560 [160] Southern Literature and the Oral Tradition (3). Course considers how Southern writers employ folklore genres such as folk tales, sermons, and music and how such genres provide structure for literary forms like the novel and the short story.

562 [161] Oral History and Performance (COMM 562, HIST 562, WMST 562) (3). This course combines readings and field work in oral history with study of performance as a means of interpreting and conveying oral history texts. Emphasis on women's history.

565 [165] Ritual, Theater, and Performance in Everyday Life (COMM 565) (3). Prerequisite, COMM 160 or ENGL 126. This course will explore the dynamics of performance as it is broadly produced within the texture of individual experiences, the interaction of community memberships, and the dramas of cultural aesthetics.

571 [150] Southern Music (HIST 571) (3). Explores the history of music in the American South from its roots to twentieth-century musical forms, revealing how music serves as a window on the region's history and culture.

585 [147] British and American Folk Song (ENGL 585) (3). Explores the forms, functions, and relationships of British and American folk songs, charting the emergence of Anglo-African-American vernacular musics and the dynamic processes of tradition, creolization, innovation, and revival.

587 [187] Folklore in the South (ENGL 587) (3). An issue-oriented study of Southern folklore, exploring the ways that vernacular artistic expression (from barns and barbecue to gospel and well-told tales) come to define both community and region.

589 [185] African-American Folklore (ENGL 589) (3). A study of folklore within the black community, concentrating on African and slave backgrounds, and covering rural and urban folk tales, spirituals, work songs, blues, torch songs, and folk beliefs.


670 [174] Introduction to Oral History (HIST 670) (3). Introduces students to the uses of interviews in historical research. Questions of ethics, interpretation, and the construction of memory will be explored, and interviewing skills will be developed through field work.


684 [185] Women in Folklore and Literature (ENGL 684, WMST 684) (3). The images of women depicted in the folk imagination from ancient times to the present: sorcerers, conjurers, witches, sexual objects, tricksters, healers, heroines, avengers, and carriers of family tradition.

688 [288] Observation and Interpretation of Religious Action (ANTH 688, RELI 688) (3). Prerequisite, permission of instructor. Exercises (including field work) in learning to read the primary modes of public action in religious traditions, e.g., sermons, testimonies, rituals, and prayers.

690 [295] Studies In Folklore (3). Topic varies from semester to semester.

691H [095] Honors Project in Folklore (3). Prerequisites: honors candidate and permission of the instructor. Ethnographic and/or library research, and analysis of the gathered materials, leading to a draft of an honors thesis.

692H [096] Honors Thesis in Folklore (3). Prerequisite, FOLK 691H. Writing of an honors thesis based on independent research conducted in FOLK 691H. Open only to senior honors candidates who work under the direction of a folklore faculty member.

Department of Geography
www.unc.edu/depts/geog

LAWRENCE E. BAND, Chair

Professors
Associate Professors

Assistant Professors
Banu P. Gokariksel, Conghe Song, Wendy Wolford.

Lecturer
Jason Moore.

Professors Emeriti
John D. Eyre, John W. Florin, Wilbert M. Gesler.

Introduction
Geography focuses on the evolving character and organization of the Earth's surface, on the ways in which the interactions of biophysical and human phenomena in space create distinctive places and regions, and on the influence those places and regions have on a wide range of natural and human events and processes. Within this broad vision, geographers study a myriad of different issues, including the geography of human activity, the geography of the Earth's environmental systems, and the sciences of geographic information that analyze, support, and inform the others.

Geographers of human activity are concerned with the spatial aspects of human existence: how people and their activities are distributed across the globe, how humans use and perceive space and place, and how they create and sustain the places that make up the planet's surface. These "human" geographers work in many fields, including urban and regional planning, transportation, marketing, real estate, tourism, international business, and education, among others. Interest in the human geographic domain is well represented in the UNC-Chapel Hill Department of Geography by Professors Birdsall, Cravey, Emch, Gokariksel, Kirsch, Meade, Moore, Pickle, Whitmore, and Wolford. A strength in human geography at UNC-Chapel Hill is the study globalization of culture and economy.

Biophysical geography is the study of the spatial distributions of biophysical phenomena such as the vegetation, soil, landforms, and weather of an area, and the systems that link them to create the environment at and near the surface of the Earth. Geographers are active in the study of global warming, drought and flood hazard, desertification, deforestation, loss of biodiversity, and water resources. They forecast the weather, manage land and water resources, and analyze and plan for forests, rangelands, and wetlands. A strength of UNC-Chapel Hill's Department of Geography is in the biophysical geography/environment domain. This includes Professors Band, Doyle, Konrad, Moody, Song, Robinson, and Walsh.

Both biophysical and human geographers study the interaction of humans and their environment. Indeed, geographers were among the first scientists to note and study human-induced changes to the environment. This domain of human societal and environmental interactions is also well represented by Professors Band, Doyle, Kirsch, Meade, Moody, Robinson, Whitmore, and Walsh.

Increasingly geographers use satellite and other digital images (remote sensing), as well as a range of other digital spatial data in their analysis. These images frequently form the basis for geographic information science (GISCI), which is used to analyze and display spatial and other aspects of human and environmental data. UNC-Chapel Hill has particular strengths in the use of GISCI to study land use change, human and environmental health, and global change. Geographers with these skills are employed in a wide variety of fields, including governmental agencies, various business concerns, and research and educational institutions. The key concern for techniques of data collection, analysis, and spatial representation (remote sensing and GISCI) cuts across the topical specialties and is a strength of Professors Band, Emch, Moody, Song, and Walsh.

Programs of Study
The degree offered is bachelor of arts in geography. A minor in geography is also available.

Majoring in Geography: Bachelor of Arts
To earn a bachelor of arts in geography, a student must pass a minimum of nine courses in the discipline: five foundation courses, three concentration courses, and a minimum of one elective. Elective courses may be any on the departmental list (also see below). Students wishing more information should consult a geography advisor. All General Education requirements apply.

Core Courses
All majors select one introductory core class from:
GEOG 110, 111, or 112

And one introductory core class from:
GEOG 120, 121, or 130

And take the following three additional core courses:
GEOG 370 Introduction to Geographic Information
GEOG 420 Fundamental Concepts in Geography

Concentration Courses
Each major declares a concentration in geography from the following three concentrations: earth environmental systems, geographic information sciences, and the geography of human activity. Each major is required to take three courses in their concentration from the following courses:

Earth Environmental Systems (EES) Concentration:
GEOG 391 Quantitative Methods in Geography and at least two 400-level or above EES courses (GEOG 410, 412, 414, 416, 419, 440, 441, 442, 443, 444, or 595)

Geographic Information Sciences (GISCI) Concentration:
GEOG 391 Quantitative Methods in Geography and at least two 400-level or above GISCI courses (GEOG 477, 491, 577, or 591)

Geography of Human Activity (GHA) Concentration:
one regional course (GEOG 259, 260, 261, 262, 265, 267, 268, 457, 458 or 464) and at least two 200- or 400-level GHA courses (GEOG 225, 232, 237, 423, 428, 434, 435, 445, 446, 450, 452, 453, or 454)

Elective Courses
In addition to the four common core courses and the three courses in their chosen concentration, students must take at least two further elective courses for a total minimum of nine geography courses. A maximum of 15 courses, or 45 hours, can count toward the 120 required for graduation. Elective courses may be any on the departmental list, but additional courses in the student's concentration and from among the regional/integrative courses are recommended.

Minoring in Geography
To minor in geography a student must pass a minimum of five courses in geography. These consist of any two core courses (see above) and three elective courses. Elective courses may be any on the departmental list, but students are encouraged to pursue elective courses focused in one of geography's major concentrations and from among the regional courses. Students wishing more information should consult a geography advisor.
Honors in Geography

Qualifying students are strongly encouraged to pursue an honors degree. To gain admission to the Honors Program students need a minimum GPA of 3.2. Honors students take GEOG 691H and GEOG 692H (honors readings and research and theses hours) with their honors thesis chair in their senior year. Honors study involves the completion of a substantial piece of original research and the formal presentation of the results in an honors thesis and oral defense. Those who successfully complete the program are awarded their B.A. with either honors or highest honors in geography.

Special Opportunities in Geography

Departmental Involvement

SWIG (Supporting Women in Geography), now established at a number of universities, was founded at UNC-Chapel Hill. The department also sponsors the Geography Club.

Experiential Education

The department offers three experiential education courses: GEOG 293 (Internship), GEOG 119 (Field Methods), and GEOG 452 (Migration Geographies).

Independent Study

Opportunities for independent study and research are available with many of the department's faculty. Students interested in these opportunities take GEOG 296 with the faculty member of their choice. For more information, contact the individual faculty member or the director of undergraduate studies.

Study Abroad

Experience with other cultures and environments is important to a sound background in geography, and thus the department strongly encourages a study abroad experience. Geography is one of five departments offering a joint degree in conjunction with the National University of Singapore. Students in that program will spend one or two years studying geography at NUS, and their diploma will be jointly granted by both universities. The department also participates in a junior year exchange program with Kings College London and helps coordinate the Oaxaca Summer Abroad Program.

Undergraduate Awards

The Andrew McNally Award is given each spring to the outstanding senior major in geography as chosen by a committee of the faculty.

Undergraduate Research

Opportunities for research are available with many of the department's faculty. Students interested in these opportunities take GEOG 296 with the faculty member of their choice.

Facilities

A dedicated PC lab for geography student use and a physical geography lab are available in the department.

Graduate School and Career Opportunities

There are a variety of job opportunities in government, business, and industry in technical sub-fields of geography such as GIScience, remote sensing, and cartography. Private firms, governmental agencies, and environmental organizations also hire geographers for field investigations, locational analysis, land use planning, recreation and tourism planning, and foreign area expertise, among many others. Many geographers pursue teaching at all levels. For more career information see geography's Web site at www.unc.edu/depts/geog.

Students with a B.A. in geography are well trained to go on to graduate programs in geography or other disciplines. Majors have entered graduate programs as diverse as city and regional planning, business, medicine, and ecology. For more information about careers in geography, the UNC-Chapel Hill Department of Geography, degree requirements, and connections to other sites of interest, visit the department's Web site at www.unc.edu/depts/geog.

Contact Information

For additional information, consult the geography undergraduate curriculum chair or an academic advisor in Saunders Hall.

GEOG

050 [006D] First-Year Seminar: Mountain Environments. (3). This course is on understanding the physical geography of mountain environments and the processes that have created them, shaped them, and sustained them.


054 [006D] First-Year Seminar: Global Change and the Carolinas (3). An examination of the ways in which change in the global physical environment, human induced and natural, might impact the Carolinas.

055 [006D] First-Year Seminar: Landscape in Science and Art (3). Explores viewing landscape from the perspective of science and of art, and investigates how an integration of both leads of a better understanding and appreciation of a landscape.

056 [006E] First-Year Seminar: Local Places in a Globalizing World (3). An examination of the relationship between globalization and localization in order to think about how we – as individuals and groups – can make a difference in the world.

057 (006E) First-Year Seminar: Dogs and People: From Prehistory to the Urbanized Future (3). People developed dogs as a living tool that is being modified to current urban social and demographic needs.

058 (006E) First-Year Seminar: Making Myth-leading Memories: Landscapes of Remembrance (3). This course considers memorial landscapes created to reinforce values symbolized by the person, group, or event memorialized. It looks at how disagreements and cultural changes affect memorial landscape interpretation.

059 (006E) First-Year Seminar: Space, Identity, and Power in the Middle East (3). This seminar examines the role traditional and modern spaces play in representations of the Middle East and how Middle Easterners engage these contested spaces to construct their cultural and political identities.

060 First-Year Seminar: What is Health Care? (3). This course will examine a variety of aspects of health care, including the biomedical system, health care in non-Western countries, alternative practitioners, beliefs about health, health policies, the role of various media, and healthy places. The emphasis is on the social sciences (geography, anthropology, sociology, mainly) of health.

061 First-Year Seminar: Climate Change in the American Southeast (3). Seminar participants, working in small groups, will
run climate models and investigate current climate trends, combining the results to create scenarios of future climate for the southeast United States.

062 First-Year Seminar: The Culture of Technology (3). This first-year seminar uses the lens of culture to explore systems of meaning and values, and relations of social power, that are invested in technologies.

110 [010] Geography of Environmental Systems (3). The laboratory and its parent course focus on the geomorphic, hydrologic, and biogeographical aspects of environmental systems with attention to local examples. (No lab) (Core)

111 [011] Weather and Climate (3). An introduction to the nature and causes of weather variability and climate change and their impact on human activity. (No lab) (Core)

112 [012] Environmental Conservation (3). Survey of environmental change as driven by physical processes and human activity. Problem-solving methods are explored. Focus on issues such as global warming, ozone depletion, deforestation, extinction, pollution, wetland loss. This course will provide significant background in physical geography in the context of today's most pressing environmental concerns and with reference to the societal implications and management strategies. (No lab) (Core)

120 [020] World Regional Geography (PWAD 120) (3). A survey of the geographic structure of human activity in major world regions and nations. Emphasizes current developments related to population, urbanization, and economic activity. (Core)

121 [021] People and Places (3). This course examines places and the connections between places to build critical understandings of the role of human geographies in global economic, political, social, and cultural systems. (Core)

123 [023] Cultural Geography (3). How population, environment, and human culture as expressed in technology and organization interact over space and time. (GHA)

125 [025] Cultural Landscapes (3). Explores how everyday culture helps create the landscapes and places in which we live and what these landscapes tell us about ourselves.

130 [030] Geographical Issues in the Developing World (3). Population and ecological aspects of problems in the urban, industrial, and agricultural development of developing nations from a geographical perspective. (GHA)


225 Space, Place and Difference (WMST 225) (3). Gender, race, and class are examined in terms of the spatial patterns of everyday life, regional patterns, and global patterns. (GHA)

228 [028] Urban Social Geography (3). Explores the evolution, development, and maturation of the U.S. urban system. Emphasis on the origin, growth, and spatial distribution of cities and on the internal spatial organization of activities within cities. (GHA)


237 [137] Natural Resources (3). An analysis of selected biological and mineral resources of the world with particular emphasis on their distribution, utilization, and management policies and on their social and economic implications. (GHA)

253 Introduction to Atmospheric Processes (ENST 253) (4). Prerequisites, MATH 231 and either PHYS 104 or CHEM 102. Includes one-hour lab. Atmospheric processes including radiation, dynamics, and thermodynamics are emphasized. Circulations across a range of temporal and spatial scales are described. Links between environmental problems and the atmosphere are explored.

259 [059] Geography of Latin America (3). An introduction to Latin American geography through an examination of how the region came to be distinct and how social, political, and economic processes continue to define it. (Regional)

260 [060] North America's Landscapes (3). A survey of the cultural and physical landscapes of the United States and Canada. Emphasis on landscape evolution, present distributions, and interactions between people and their environment. (Regional)

261 [161] South (3). Present-day southern United States, approached historically through a study of its physical, economic, and cultural environment. (Regional)

262 [062] Geography of North Carolina (3). A survey of the cultural, economic, and physical diversity of North Carolina. Emphasizes regional patterns, historical changes, and the appearance of the landscape. (Regional)

263 [072] Environmental Field Studies in Siberia (ENST 263, INTS 263, RUES 263) (4). This course explores the biogeography of Siberia and gives students practical training on how to do field work in ecology and physical geography.

264 [061] Conservation of Biodiversity in Theory and Practice (ENST 261, INTS 261) (3). Prerequisite. ENST 201 or permission of instructor. This course will give students a multidisciplinary introduction to the growing field of biodiversity preservation.

265 [166] Eastern Asia (ASIA 265) (3). Spatial structure of population, urbanization, agriculture, industrialization, and regional links in China, Japan, and Korea. (Regional)

267 [167] Tropical Asia (ASIA 267) (3). The cultural diversity and regional organization, emphasizing the spatial structure and contemporary dynamics of population, agriculture, urbanization, and economic development, primarily of the nations of Southeast Asia. (Regional)

268 [168] Africa (3). Primary emphasis on the dynamic spatial organization of Africa south of the Sahara. Individual countries will be studied in view of their geographic characteristics and problems. (Regional)

293 [093] Internship (3). Open to junior and senior geography majors. Geography internships combine substantive geographic work experience with an academic project designed to integrate theory and practice. Field work is included.

295 [096] Undergraduate Research in Geography (3). Prerequisite, permission of instructor. For students who wish to participate in departmental research programs. May be taken twice.

296 [095] Independent Study (1-21). Prerequisite, permission of instructor. Special reading and research in geography under the
supervision of a selected instructor. Course may not be taken more than twice.

370 [070] Introduction to Geographic Information (3). A survey of geographic data sources including maps, photos, digital images, Census information, and others. Emphasis is on appropriate uses, limitations, and skilled interpretation in physical and human geography applications. (Core)

391 [090] Quantitative Methods in Geography (3). This course provides an introduction to the application of statistical methods to geographic problems and to statistical packages in their solution. Attention given to spatial data analysis and sampling methods.

399 [109] Contemporary Topics in Geography (1-21). Exploration of topics in contemporary geography.

410 [110] Modeling of Environmental Sciences (3). Prerequisite, GEOL 110 or equivalent. Use of systems theory and computer modeling to understand general issues in climate, vegetation, geomorphology, soils, and hydrology such as across time and space scales and linear and dynamical systems. (No lab) (GSci)

412 [112] Synoptic Meteorology (3). Prerequisite, GEOL 110 or 111. An analysis of synoptic weather patterns and the processes responsible for them. Climatological aspects of these weather patterns are emphasized. (EES)

414 [114] Physical Climatology (3). Prerequisite, GEOL 110 or 111. The factors causing climates and their spatial variation are considered. Particular attention is paid to climate models and to the nature, causes, and impacts of climate change. (No lab) (EES)

416 [116] Applied Climatology (3). Prerequisite, GEOL 412 or 414. An investigation of the ways climatic information and techniques can be applied to societal problems, such as energy production, food production, and health. (EES)

419 [119] Field Methods in Physical Geography (3). Involves evaluation of landscapes by examining nature and biophysical elements influencing landscape form and function. Course emphasizes data collection, analysis, and interpretation using GIS and field methods. (EES)

420 [120] Fundamental Concepts of Human Geography (3). A systematic study of the approaches, key concepts, and methods of human geography. Emphasizes the cultural landscape and location analysis within a thematic rather than a regional framework. (Core)

423 [123] Social Geography (3). A study of the spatial components of current social problems, such as poverty, race relations, environmental deterioration and pollution, and crime. (GHA)

428 [128] Urban Geography (3). A geographical study of the spatial structure and function of urban settlements. Emphasis is on the regional relations of cities and central place theory. (GHA)

434 [134] Cultural Ecology of Agriculture, Urbanization, and Disease (3). Examines the role of the interactions of cultures, environments, and human diseases in the quest for sustainable agriculture by examining the cultural ecology of agriculture systems and their human diseases. (GHA)

435 [135] Environmental Politics (3). This course brings geographical perspectives on place, space, scale, and environmental change to the study of environmental politics. In lectures, texts, and student research, students examine topics including environmental health risks, globalization and urban environments, and the role of science in environmental politics. (GHA)

440 [140] Earth Surface Processes (GEOL 502) (3). Prerequisite, GEOL 110 or GEOL 101. This course will focus on the processes of soil formation, erosion, and landform evolution with an emphasis on the interaction of geomorphic processes with surface hydrology and ecosystems. (No lab) (EES)

441 [141] Introduction to Watershed Systems (3). Prerequisite, GEOL 110. Introduction to the hydrologic and geomorphic processes and forms in watersheds as applied to problems in flood analysis, water quality, and interactions with ecosystem processes. Course will cover the structure of drainage networks, nested catchments, and distribution and controls of precipitation, evaporation, runoff, soil, and groundwater flow. (No lab) (EES)

442 [142] Fluvial Geomorphology (3). Introduction to landforms and processes associated with flowing water at the earth's surface. Hydrology, sedimentology, and theories of channel formation, and drainage basin evolution. (EES)

444 [144] Landscape Biogeography (3). This course is concerned with the application of biogeographical principles and techniques to the study of natural and human-modified landscapes. It includes local and extra-regional case studies. (EES)

445 [145] Medical Geography (3). The human ecology of health is studied by analyzing the cultural/environmental interactions that lie behind world patterns of disease distribution, diffusion, and treatment, and the ways these are being altered by development. (GHA)

446 [146] Geography of Health Care Delivery (3). This course covers basics, including personnel and facility distributions, accessibility, regionalization, and location/allocation modeling; spatial analysis and GIS; and the cultural geography of health care, including humanist and political-economic perspectives. (GHA)

447 [147] Gender, Space, and Place in the Middle East (ASIA 447, INTS 447) (3). Examines gender, space and place relationships in the modern Middle East. Investigates shifting gender geographies of colonialism, nationalism, modernization, and globalization in this region.

448 [148] Transnational Geographies of Muslim Societies (INTS 448) (3). Examines modern Muslim geographies that are created by transnational flows, connections, and imaginaries that cross national and regional boundaries across the Middle East, Southeast Asia, and beyond.

450 [150] Population Geography (3). A study of the spatial dimensions of population growth, density, and movement and of the shifts in these patterns as they relate to changes in selected socioeconomic and cultural phenomena. (GHA)

452 [152] Mobile Geographies: The Political Economy of Migration (3). This course explores the contemporary experience of migrants. Various theoretical approaches are introduced, with the emphasis on a political economic approach. (GHA)

453 [153] Political Geography (PWAD 453) (3). The geography of politics is explored at the global, the nation-state, and the local scale in separate course units, but the interconnections between these geographical scales are emphasized throughout. (GHA)

454 [154] Historical Geography of the United States (FOLK 454) (3). A study of selected past geographies of the United States
with emphasis on the significant geographic changes in population, cultural, and economic conditions through time. (GHA)

457 [157] Rural Latin America: Agriculture, Environment, and Natural Resources (3). Prerequisite, GEOG 259 or permission. This course explores a systems and cultural-ecological view of agriculture, environment, natural resource, and rural development issues in Latin America. It serves as a complement to GEOG 458 Urban Latin America. (Regional)

458 [158] Urban Latin America: Politics, Economy, and Society (3). Prerequisite, GEOG 259 or permission. This course examines urban social issues in contemporary Latin America. Cities and their residents will be considered in relation to each other and to North American examples. (Regional)

460 [160] Geographies of Economic Change (3). This course is designed to explore changing geographies of production and consumption in theory and in practice.

464 [164] Europe Today: Transnationalism, Globalism, and the Geographies of Pan-Europe (INTS 464) (3). A survey by topic and country of Europe west of Russia. Those features that make Europe a distinct and important region today are emphasized. (Regional)

477 [177] Introduction to Remote Sensing and Digital Image Processing (3). Prerequisite, GEOG 370 or equivalent. Emphasizes methods of data analysis that offer an automated approach to spatial and nonspatial data synthesis, which combines a system of data capture, storage, management, retrieval, analysis, and display. (Gisci)

491 [191] Introduction to GIS (PLAN 491) (3). Prerequisite, GEOG 370 or equivalent. Stresses the spatial analysis and modeling capabilities of organizing data within a geographic information system. (Gisci)

577 [178] Advanced Remote Sensing (3). Prerequisite GEOG 370, GEOG 477, or equivalent. Acquisition, processing, and analysis of satellite digital data for the mapping and characterization of land cover types. (Gisci)

591 [192] Applied Issues in Geographic Information Systems (PLAN 591) (3). Prerequisite, GEOG 370, GEOG 491, or equivalent. Applied issues in the use of geographic information systems in terrain analysis, medical geography, biophysical analysis, and population geography. (Gisci)

593 [193] Geographic Information Science Programming (3). Prerequisites, GEOG 370 or 491. This course will teach students the elements of GIS software development using major GIS platforms. Students will modularly build a series of applications through the term, culminating in an integrated GIS applications program.

594 [194] Global Positioning Systems and Applications (3). Prerequisite, GEOG 370. Global Positioning Systems (GPS) fundamental theory, application design, post processing, integration of GPS data into GIS and GPS application examples (such as public health, business, etc.) will be introduced.

595 [195] Ecological Modeling (3). Prerequisites, STOR 355 and GEOG 143 (or BIOL 561) or equivalents with instructor's permission. This course focuses on modeling the terrestrial forest ecosystems processes, including population dynamics, energy, water, nutrients, and carbon flow through the ecosystem. (Gisci)

691H [098] Honors (3). Prerequisite, permission of department. Required of all students aspiring to honors in geography. Directed readings, research, and writing.

692H [099] Honors (3). Prerequisite, GEOG 691H. Required of all students aspiring to honors in geography. Preparation of a senior thesis.

Department of Geological Sciences
www.geosci.unc.edu

LARRY K. BENNINGER, Chair

Professors

Associate Professors
Louis R. Bartek, Drew S. Coleman, Jonathan M. Lees, Kevin G. Stewart.

Assistant Professors

Adjunct Associate Professor
Dennis LaPoint.

Introduction
The study of Earth's dynamic systems is a field that has seen major advances over the last few decades. Geologists investigate diverse systems that play a large role in controlling the environment at the Earth's surface. Examples include earthquakes, volcanoes, glaciers, landslides, rivers, and shorelines. Earth processes play a critical role in making our planet habitable, and geologists are constantly in demand to guide communities and nations in their search for clean drinking water and extractable energy and minerals, for example, or in decisions regarding development in fragile coastal regions or in seismically active areas. The Department of Geological Sciences at UNC-Chapel Hill provides students with a solid training in earth science so that they can advance in highly satisfying careers as professional geologists.

The Department of Geological Sciences offers two undergraduate degree programs: a B.A. in earth systems and a B.S. in geology with a concentration in traditional geology, environmental geology, geochemistry, geophysics, or paleobiology. Most students planning to do graduate work or to become professional geologists should follow the B.S. program. However, the flexibility of the B.A. program may be advantageous to students with interests in, for example, environmental studies, education, or law.

Programs of Study
The degrees offered are bachelor of arts in earth systems and a bachelor of science in geology with a concentration in traditional geology, environmental geology, geochemistry, geophysics, or paleobiology. A minor is offered in geological sciences.

Majoring in Earth Systems: Bachelor of Arts
For the B.A. degree in earth systems, the student must satisfy all General Education requirements and the following departmental requirements:

- One of the following: GEOL 101 and 101L, 103, 105 and 101L, 109 and 109L, 111, or 159 and 159L (only one of GEOL 101, 105, 109, and 111 may be taken for course credit)
- All of the following: MATH 130; CHEM 101; GEOL 202, 301
A minimum of eleven credits of the following: 204, 211, 213, 401, 402, and 404
• One of the following field-oriented courses: GEOL 390, 413, or 601-602, or (six credits over two semesters with a pre-approved field component): ANTH 451; BIOL 459; MASC 472
• At least three geology and/or allied science electives not otherwise required for the major, including any GEOL except 101, 103, 105, 109, and 111; ANTH 143, 220, 315, 317, 412, and 414; any ASTR; any BIOL except 107 and 108; any BIOL above 113; any CHEM above 101; any COMP except 050, 070 and 380; ECON 101 and 454; ENST 490 and 490; any ENVR except 600; GEOG 370, 410, 412, 414, 416, 440, 441, 444 and any GEOG above 477; any MASC above 101; any MATH above 130; any PHYS except 101, 132, and 313; any STOR 155 or above.

Majoring in Geological Sciences: Bachelor of Science

For the B.S. degree in geological sciences, students must satisfy the General Education requirements. B.S. students will elect to concentrate in traditional geology, environmental geology, geochemistry, geophysics, or paleobiology. Specific departmental requirements for each concentration are listed below.

B.S. Concentration in Traditional Geology

• One of the following: GEOL 101 and 101L, 103, 105 and 101L, 109 and 109L, or 111 (only one of GEOL 101, 105, 109, and 111 may be taken for course credit)
• All of the following: GEOL 301, 401, 402, 404, 601, 602
• CHEM 101 and 101L, plus CHEM 102 and 102L
• MATH 231 and 232, plus one of the following: GEOL 520 (note that this may also be used to satisfy one of the required GEOL courses numbered above 400), any COMP except 050, 070, and 380, any MATH above 232, any STOR 155 or above
• One of the following: PHYS 104 and 104L, or PHYS 116
• One of the following: BIOL 101 and 101L, or any CHEM above 102, or PHYS 105 and 105L, or PHYS 117
• Four geology courses numbered above 400, not otherwise required for the major (GEOL 390 counts if taken for two or three credit hours).
• At least five science electives not otherwise required for the major, including any GEOL except 101, 103, 105, 109, 111; ANTH 143, 220, 315, 317, 412, 414, and 451; any ASTR; any BIOL except 107 and 108; any BIOL above 113; any CHEM above 102; any COMP except 050, 070 and 380; any ENVR except 600; GEOG 370, 410, 412, 414, 416 and any GEOG above 477; any MASC above 101; any MATH above 132 and 313; any STOR 155 or above.

B.S. Concentration in Environmental Geology

• One of the following: GEOL 101 and 101L, 103, 105 and 101L, 109 and 109L, or 111 (only one of GEOL 101, 105, 109, and 111 may be taken for course credit)
• All of the following: GEOL 301, 401, 402, 404
• CHEM 101 and 101L, plus CHEM 102 and 102L
• MATH 231 and 232
• One of the following: GEOL 520 (note that this may also be used to satisfy one of the required GEOL courses numbered above 400); any COMP except 050, 070 and 380; any MATH above 232; any STOR 155 or above
• One of the following sets of courses: PHYS 104 with 104L and 105 with 105L, or PHYS 116 and 117
• GEOL 601 and 602; or GEOL 430 and 434; or GEOL 691H and 692H (with a field component previously approved by the department); or ANTH 451; or BIOL 459; or CHEM 481 and 481L and 482 and 482L; or MASC 472; or PHYS 201 and 211
• One of the following combinations: BIOL 201 and ENST 489, or GEOG 253 and ENST 490, or MASC 470 and GEOG 411
• At least five science electives not otherwise required for the major, including any GEOL except 101, 103, 105, 109, and 111; ANTH 139, 143, 220, 315, 317, 412, 414, 438, and 451; any ASTR; any BIOL above 113; any CHEM above 102; any COMP except 050, 070 and 380; ECON 101, 340, 410, 440, 454, 460, 465, 511, 540; GEOG 370, 410, 412, 414, 416, 478, 440, 441, 444 and any GEOG above 477; any MASC 101 and higher; any MATH above 232; any PHYS except 101, 132, and 313; any STOR 246; any STOR 155 or above.

B.S. Concentration in Geochemistry

The departmental requirements for the concentration in geochemistry are identical to those for traditional geology except that CHEM 481 and 482 substitute for GEOL 601 and 602.

B.S. Concentration in Geophysics

• One of the following: GEOL 101 and 101L, 103, 105 and 101L, 109 and 109L, 111, 159 and 159L (only one of GEOL 101, 105, 109, and 111 may be taken for course credit)
• All of the following: GEOL 301, 401, 404, 515
• CHEM 101 and 101L, plus CHEM 102 and 102L
• MATH 231 and 232, 233, 383
• PHYS 116, 117, 201, 211 and 331
• Four GEOL courses numbered above 400, not otherwise required for the major
• At least three geology and/or science electives not otherwise required for the major, including any GEOL except 101, 103, 105, 109, 111; ANTH 143, 220, 315, 317, 412, 414, and 451; any ASTR; any BIOL except 107 and 108; any BIOL above 113; any CHEM above 102; any COMP except 050, 070 and 380; any ENVR except 600; GEOG 370, 410, 412, 414, 416 and any GEOG above 477; any MASC 101 and higher; any MATH above 232; any PHYS except 101, 132, and 313; any STOR 155 or above.

B.S. Concentration in Paleobiology

• One of the following: GEOL 101 and 101L, 103, 105 and 101L, 109 and 109L, or 111 (only one of GEOL 101, 105, 109, and 111 may be taken for course credit)
• All of the following: GEOL 159 and 159L, GEOL 301, 401, 402, 413, and 478; BIOL 101 and 101L; CHEM 101 and 101L, plus CHEM 102 and 102L; MATH 231 and 232
• One of the following: GEOL 520 (note that this may also be used to satisfy one of the required GEOL courses numbered above 400); any COMP except 050, 070 and 380; any MATH above 232, any STOR 155 or above
• Either PHYS 104 and 104L, or PHYS 116
• One of the following: GEOL 434 or 390 (for four credits) or GEOL 691H and 692H with approved field component, or another approved field-oriented experience in biology or paleobiology
• Three geology courses numbered above 400, not otherwise required for the major (GEOL 390 for two or three hours credit, 431, 501, 555, and GEOL 691H-692H are specifically recommended)
• At least three geology and or science electives not otherwise required for the major, including any GEOL except 101, 103, 105, 109, 111; ANTH 143, 315, 317, 412, and 414; any ASTR; any BIOL
except 107 and 108; any BIOL above 113; any CHEM above 102; any COMP except 050, 070 and 380; any ENVR except 600; any MASC 101 and higher; any MATH above 232; any PHYS except 101, 132, and 313; any STOR 155 or above; any course in vertebrate paleontology from North Carolina State University; any systematics course from the Biology Department at Duke University. Paleobiology students are encouraged but not required to take as electives a course in systematics in the Biology Department at Duke University and a course in vertebrate paleontology at North Carolina State University. Interuniversity enrollment is possible through a UNC-Chapel Hill/Duke/N.C. State agreement.

Minoring in Geological Sciences
Students majoring in another department may elect to pursue completion of a minor in geology. The undergraduate minor in geology consists of the following four courses (minimum of twelve semester hours):

- One of the following introductory courses: GEOL 101, 103, 105, 109, 111, or 159 (only one of GEOL 101, 105, 109, and 111 may be taken for course credit)
- At least three geology courses numbered higher than GEOL 111, for a minimum of twelve semester hours.

Honors in Geological Sciences
The Honors Program in the Department of Geological Sciences is open to undergraduates with an overall grade point average of 3.2 or better as of the beginning of the fall semester of the senior year. To participate in this program, the student chooses a research topic in consultation with his or her chosen faculty sponsor and conducts the research during the last two semesters in residence. The research project must represent the equivalent time expenditure of six hours of course credit and is taken as GEOL 691H (fall semester) and GEOL 692H (spring semester).

Special Opportunities in Geological Sciences
Departmental Involvement
The Geological Sciences Department encourages active participation of the undergraduates in department research, teaching, and social life. In addition to opportunities for experiential education and teaching internships described below, the department regularly sponsors field excursions, career information sessions, and social events. Dates, times, and locations for all events are posted outside the main lobby on the first floor. Students who are interested in leading their own trips should contact the graduate students or the director of undergraduate studies.

Experiential Education
Many geology courses emphasize experiential learning through field and laboratory work. Most degree tracks include a field geology course (GEOL 601 and 602 or a similar course in another department) that fulfills the experiential education requirement for the college. Additionally, all students are encouraged to contact faculty members about conducting independent research, either as an honors thesis or a senior thesis project.

Laboratory Teaching Internships
Seniors with outstanding academic credentials and excellent communication skills may be considered for positions as Introductory Geology (GEOL 101L) laboratory instructors. These positions are not available every semester. Students interested in teaching undergraduate laboratory sections should contact the student services manager or the director of undergraduate studies.

Study Abroad
Although the department has no formalized study abroad program, many students participate in a study abroad program and some receive credit for geology course work completed abroad. Students interested in a study abroad program should contact the director of undergraduate studies. Students must receive approval from the director of undergraduate studies prior to taking courses abroad for geology credit.

Undergraduate Awards
The Op White Prize in Geology, established in 1966, consists of a cash prize and an engraved bronze plaque displayed in the geology library. The award is given annually to the outstanding senior in geology.

Undergraduate Research
The Department of Geological Sciences encourages qualified undergraduate students to conduct independent research under the direction of a geological sciences faculty member on an interesting geologic topic. This research can be conducted as a one to four credit hour project (GEOL 390, Special Problems in Geology), or in conjunction with the geology Honors Program.

Facilities
The Department of Geological Sciences houses several modern laboratory facilities that are available for undergraduate students to use for research. Many students will be introduced to the laboratory facilities through coursework. Laboratories include 1) a geochemistry lab with a thermal ionization mass spectrometer (TIMS) for isotope and geochronology research; 2) a scanning electron microscope (SEM) laboratory for image analysis, cathodoluminescence, and semi-quantitative chemical analysis; 3) a direct current plasma spectrometer (DCP) for efficient determination of major and minor elements in sample solutions; 4) equipment for geophysical research an imaging, including portable broadband seismic stations, infrasonic microphones, portable weather stations, a portable gravimeter, a chirp sonic system with sub-bottom and side-scan image, a digital seismic acquisition system, streamers, an air gun, water gun, and boomer sources; 5) a laboratory for sediment analysis including a coulometer, a rapid sediment analyzing settling tube, a laser particle size counter, and a dual x ray cabinet for sediment cores; 6) chemical and counting laboratories for quantifying natural and artificial radioactivity at environmental levels; 7) a paleoclimate/paleoecology laboratory equipped for high-resolution microsampling of carbonate samples for geochemical analysis; 8) a high-resolution sediment geochemistry laboratory, including a scanning x ray fluorescence spectrometer for semi-quantitative analysis of stratified sediments and rocks.

Graduate School and Career Opportunities
Geologists commonly are employed by private industry, public and private schools, colleges and universities and consulting firms; e.g., hydrology, environmental geology, engineering geology, petroleum geology, and mineral exploration. Geology graduates also can find jobs with federal or state geological surveys or with other federal/state environmental or energy firms. Some federal/state agencies prefer geologists with at least a master's degree. A doctoral degree usually is required for employment at colleges and universities.
Contact Information
Yvette Thompson, CB# 3315, Mitchell Hall, (919) 962-0679.

GEOL

070 [006D] First-Year Seminar: One Billion Years of Change:
The Geologic Story of North Carolina (3). A field-based course
focused on the geologic story of North Carolina. Includes local field
trips and weekend trips to the coast and mountains.

072 [006C] First-Year Seminar: Field Geology of Eastern
California (3). This seminar provides a hands-on introduction to
active geologic and environmental processes in eastern California,
including active volcanoes, earthquake-producing faults, and
extreme climate change.

073 [006D] First-Year Seminar: Global Warming and the
Future of the Planet (3). Global warming is the most important
environmental problem of the 21st century. This seminar explores
geologic history of global warming, its physical principles and
prospects for future societies.

074 [006D] First-Year Seminar: Geology of Climate Change
(3). Examination of the problem of natural versus human-induced
climate change from the perspective of the geologic record of Earth
history. Field trips to coast, Piedmont, and Blue Ridge.

(3). Origins and effects of waste in the environment. Introduces natu-
ral wastes and ecosystem recycling, but focuses on case studies of
generation, environmental impacts, and remediation of anthro-
pogenic wastes.

076 [006D] First-Year Seminar: Energy Resources for a
Hungry Planet (3). Discussions are centered on the most pressing
issues of our time: environmental deterioration and construction of
a sustainable (livable) world during and after the depletion of tradi-
tional energy resources.

077 [006C] First-Year Seminar: Volcanoes and Civilization:
An Uneasy Coexistence (3). Volcanoes provide a breathable
atmosphere, a habitable climate, and precious ores, but they have
the potential to destroy civilization. This seminar will explore the
uneasy coexistence of volcanoes and civilization.

078 [006D] First-Year Seminar: Time: Meanings, Uses, and
Experiences (3). Time: how it is viewed by different cultures; dif-
ferent ways of measuring, describing, and using time; how we sense
time biologically and psychologically.

101 [011] Introductory Geology (3). Geologic materials: minera-
als and rocks. Major geologic events: earthquakes, volcanic activity,
mountain formation, plate tectonics, and continental drifts.
Landscape development by glaciers, streams and groundwater,
ocean currents and waves, wind. Not open to students with credit
in or currently enrolled in GEOL 105, 109, or 111. (Optional lab)

101L [011L] Introductory Geology Laboratory (1). Pre-
or corequisite, GEOL 101. Study of common minerals and rocks. Use of
topographic and geologic maps to illustrate geologic processes.
Two laboratory hours a week.

103 [012] The Marine Environment (MASC 101) (3).
Introduction to physical, chemical, biological, and geologic phenom-
ena in oceanic and coastal environments. Human use of, and
impact on, marine resources. Science majors see GEOL 403.

105 [013] Violent Earth (3). Earth as a dynamic planet, changing
catastrophically through volcanoes, earthquakes, hurricanes, and
meteoric impacts. Causes and effects of these phenomena will be
addressed as well as their impact on human development. Not open
to students with credit in or currently enrolled in GEOL 101, 109, or
111. (Optional lab)

109 [018] Earth, Climate, and Life through Time (3). Origin of
the solid earth. Plate tectonics, earthquakes, and volcanic
hazards/prediction. Evolution of the atmosphere and oceans.
Climate change. Origin of life, evolution and mass extinctions,
dinosaurs and hominids. Not open to students with credit in or cur-
rently enrolled in GEOL 101, 105, or 111. (Optional lab)

109L [018L] Earth, Climate, and Life through Time
Laboratory (1). Pre- or corequisite, GEOL 109. Rocks and crustal
evolution; plate tectonics, seismology and seismic hazards; atmos-
pheric change; fossil invertebrates, the record of mass extinctions;
dinosaurs and hominids. Many of the labs will use interactive
software.

111 [41] Physical Geology for Science Majors (ENST 111)
(4). Introduction to geology for geology majors and other science
majors. Origin of minerals and rocks. Structure of the Earth. Erosion,
volcanoes, earthquakes, plate tectonics. Not open to students with
credit in or currently enrolled in GEOL 101, 105, or 109. Three lec-
ture and two laboratory hours a week.

159 [016] Prehistoric Life (BIOL 159) (3). Fossils and the origin
and evolution of life, including micro- and macroevolution, mass
extinctions, the evolution of dinosaurs and humans, and scientific
perspectives on multi-cultural creationism. (Optional lab)

159L Prehistoric Life Laboratory (BIOL 159L) (1). Normal
laboratory is one credit hour; two-credit-hour laboratory includes
internship (3-5 hours, once a week) at the North Carolina Museum
of Natural History as part of the APPLES program.

202 Earth Systems History (3). Prerequisite, one introductory
geology course numbered below GEOL 202, except first-year semin-
ars. History of the Earth (including its oceans, atmosphere, and life
forms) as deciphered from the geologic record. Birth of continents/ oceans; evolution and extinction of life forms; the chang-
ing global environment.

204 [049] Planetary Geology: Meteorites and Asteroids (3).
Prerequisite, one introductory geology course numbered below
GEOL 202, except first-year seminar. Effects and probable effects of
meteorite and asteroid impacts on Earth and other planets: craters,
new meteorites and tektites; giant sea waves; reduction of species
and extinction of organisms.

211 [048] Environmental Geology (ENST 211) (3).
Prerequisite, one introductory geology course numbered below
GEOL 202, except first-year seminar. Environmental and human
problems connected with uses of earth materials and with geologi-
cal processes. Mineral resources, land-use planning, and engineer-
ing geology.

Prerequisite, one introductory geology course numbered below
GEOL 202, except first-year seminar. Earth system science approa-
ch to the study of planet Earth. Influence of earth processes on the
environment. Earthquakes, volcanoes, plate tectonics, global climate
change. (No lab)
215 [043] Mineral Resources (3). Prerequisite, one introductory geology course numbered below GEOL 202, except first-year seminar. A consideration of the distribution, extraction, economics, and demand for mineral resources. Specific topics will include: the impact of the mineral industry on industrial and pre-industrial economies, the unique economic factors associated with the mineral industry, the realities associated with the global maldistribution of energy and metallic resources as well as the problems associated with the depletion of resources, and the environmental impact of the mineral extraction industry.

221 [046] Geology of North America (3). Prerequisite, one introductory geology course numbered below GEOL 202, except first-year seminar. A general introduction to the geologic evolution of North America, designed to provide students with an understanding and appreciation of the diverse natural regions of the United States and Canada. The geology of selected national parks will be used as case studies and examples of regional geologic history.

223 [047] Geology of Beaches and Coasts (MASC 223) (3). Prerequisite, one introductory geology course numbered below GEOL 202, except first-year seminar. Introduction to coastal processes, including waves, tidal currents, tectonics, climate, and human activity, and their influence on barrier islands, beaches, dunes, marshes, and estuaries. Involves a field trip to the Outer Banks of North Carolina.

301 [052] Earth Materials: Minerals (4). Prerequisites, GEOL 101 or 111, or permission of instructor; pre- or corequisite, CHEM 101. Minerals in sedimentary, igneous, and metamorphic environments: their properties, occurrence, and uses. Methods of identifying minerals, including use of optical properties. Three lecture and three laboratory hours a week.

390 [199] Special Problems in Geology (1-4). Prerequisite, approval of the departmental chair. For details, see geology degree requirements.

401 [058] Structural Geology (4). Prerequisite, ONE of the following introductory courses: GEOL 101, 103, 105, or 111. Introduction to the mechanical behavior and dynamic evolution of the Earth's crust through the study of deformed rocks. Includes weekend field trip to western North Carolina.

402 [057] Sedimentology and Stratigraphy (4). Prerequisites, GEOL 101 or 111, or equivalent; and GEOL 301. Introduction of principles involved in description and classification of sedimentary rocks and stratigraphic units as well as stratigraphic correlation. Students will be introduced to relationships of processes, depositional environments, and sedimentary facies.

403 [101] Oceanography (BIOL 350, ENVR 417, MASC 401) (3). Prerequisites, major in a natural science or at least two college-level courses in natural sciences. The origin of ocean basins, chemistry and dynamics of seawater, biological communities and processes, the sedimentary record, and the history of oceanography. Term paper. Intended for students with college science background; other students should consider GEOL 103.

404 [053] Igneous and Metamorphic Petrology (4). Prerequisite, GEOL 301 or permission of instructor. Studies of the origin and evolution of igneous and metamorphic rocks, including microscopic, x-ray, and field methods; volcanology; plate-tectonic interpretation of rock sequences. Three lecture and three laboratory hours a week.


413 Paleontology (4). Prerequisites, GEOL 101, 109, 111 or 159; GEOL 402 or 478; or permission of instructor. A field-oriented course on larger Ordovician through Pliocene fossil invertebrates in the central and eastern United States. Students develop a personal reference collection of over 250 genera and species, along with data of stratigraphy and biostratigraphy. Three lecture and two laboratory hours a week.


417 [138] Geomorphology (ENST 417) (3). Prerequisites, GEOL 101 or 111, and MATH 231, or permission of instructor. Introduction to process geomorphology with emphasis on quantitative interpretation of weathering, hill slope, fluvial, glacial, and eolian processes from topography and landscapes.

417L [138L] Geomorphology Laboratory (1). Pre- or corequisite, GEOL 417. Two laboratory hours per week.

421 [102] Archaeological Geology (ANTH 421) (3). Prerequisite, permission of instructor. The application of geological principles and techniques to the solution of archaeological problems. Geological processes and deposits pertinent to archaeological sites, geologic framework of archaeology in the southeastern United States, and techniques of archaeological geology and site analysis are studied. Field trips to three or more sites are conducted; written reports on geological aspects of the sites required.


430 [125] Coastal Sedimentary Environments (MASC 430) (3). Prerequisite, GEOL 402. Introduction to modern shallow-water clastic environments and their sediments, emphasizing barrier islands, deltas, estuaries, wetlands, and tidal flats. Includes local field trips and discussion/application of data-collecting techniques.

431 [133] Micropaleontology (MASC 431) (4). Prerequisite, GEOL 478, MASC 440, or permission of instructor. An in-depth study of the biostratigraphy, paleoecology, and taxonomy of various microfossil groups (i.e., Foraminifera, ostracodes, conodonts, coccoliths, Radiolaria, diatoms, acritarchs, dinoflagellates, etc.) dependent upon individual student objectives. Three lecture and three laboratory hours a week.

432 [134] Paleoclimatology (3). Prerequisite, GEOL 402 or permission of instructor. Introduction to mechanisms that drive climate. Examination of past climate reconstructions using ecological and geochemical proxies. Utility of computer models to reconstruct past climates and predict future climate change. Emphasis placed on late Quaternary.

433 [117] Paleoceanography (3). Prerequisites, GEOL 402 or GEOL 503 or permission of instructor. Origin and distribution of pelagic sediments. Review of the major Mesozoic and Cenozoic events in the world oceans. Glacial/interglacial changes in the ocean/atmosphere system.
434 [123] Marine Carbonate Environments (4). Prerequisite, permission of instructor. Chemical and biological origins of calcium carbonate, skeletal structure, and chemo-mineralogy; preservation, sedimentation, and early diagenesis are studied in a variety of deep and shallow environmental settings to understand skeletal genesis, limestone origin, and carbonate facies variability. Field trip to Florida, Bahamas, or Bermuda. Lab exercises; research report.

436 [130] Topics in Earth and Environmental Sciences (3). Key topics and resources for high school teachers preparing to teach earth and environmental sciences. Includes lithosphere, tectonic processes, hydrosphere, atmosphere, origin of solar system and life, and environmental stewardship.

440 [113] Principles of Seismology (3). Prerequisites, GEOL 101, 213, 401; MATH 231; or permission of instructor. Descriptive account of global seismology, earthquake distribution, and focal mechanics. Principles of geometrical optics and applications to imaging the Earth's interior. Principles of seismic prospecting of hydrocarbon and geothermal reservoirs.


456 [157] Problems in Vertebrate Evolution (BIOL 456) (3). Prerequisite, BIOL 276 or permission of instructor. A study of the major transitions in vertebrate evolution and associated problems in evolutionary biology, structural change, paleoecology, biogeography and earth history, physiology and behavior.

478 [419] Invertebrate Paleontology (BIOL 478b) (4). Prerequisite, GEOL 159 or BIOL 101, or permission of instructor. Introduction to the principles, methods of analysis, and major controversies within paleontology. Examination of the fossil record and its application to problems in evolutionary biology, paleoecology, paleoclimatology, and general Earth History.


483 [119] Geologic and Oceanographic Applications of Geographical Information Systems (MASC 483) (4). Prerequisites, four courses [GB2] or permission of instructor. Focus is on applying GIS concepts and techniques to mining and petroleum geology, resource assessment, hydrogeology, coastal and marine geology, physical oceanography, engineering geology, and a geologic perspective on land use. Three lecture and two laboratory hours a week.


503 [188] Geological Oceanography (MASC 503) (4). Prerequisite, GEOL 101, GEOL 111, or permission of instructor. Ocean basin origin, continental margin development, coastal geology; carbonate platforms, and pelagic sediments are subjects covered; paleo-oceanographic reconstructions are emphasized. Three lecture and two laboratory hours a week.

504 [173] Topics in Petrology (4). Prerequisite, GEOL 404. Origin of magmas and evolution of igneous and metamorphic rocks, combined with petrographic study of selected sites and individual examples. Two lecture and six laboratory hours a week.


506 [106] Physical Oceanography (MASC 506) (4). Prerequisites, MATH 231, 232; PHYS 104, 105; or permission of instructor. Descriptive regional oceanography, equations of motion, the Ekman layer, wind-driven currents, thermohaline circulation, modern observations, waves, tides. Four lecture hours a week.

507 Rhythms in Global Climate and the Stratigraphic Record (3). Prerequisite, GEOL 402. An overview of the mechanisms of cyclic climate forcing and a review of the geologic evidence for these climate rhythms, with a particular emphasis on the Milankovitch orbital cycles.

508 [163] Applied Hydrology (3). Prerequisites, GEOL 101 or 111, MATH 231, PHYS 105, or permission of instructor. An introduction to methodologies and instrumentation for quantifying the movement of water in the earth system focusing on components of the hydrologic cycle. Emphasis is divided between analytical aspects and field procedures.

509 [165] Groundwater (3). Prerequisites, GEOL 101, 105, 109, or 111; CHEM 102; MATH 231; PHYS 104, 116; or permission of instructor. Introduction to hydrogeology, and geology of groundwater.

510 [164] Geochemistry of Natural Waters (3). Prerequisites, GEOL 101, 105, 109, or 111; CHEM 102; MATH 231; or permission of instructor. Survey of processes affecting the compositions of streams, lakes, the ocean, and shallow ground waters.

511 [166] Stable Isotopes in the Environment (ENST 511) (3). Prerequisite, CHEM 102. Introduction to the theory, methods, and applications of stable isotopes to environmental problems. Primary focus will be on the origin, natural abundance, and fractionation of carbon, hydrogen, oxygen, and nitrogen isotopes.

512 [145] Geochemistry (MASC 553) (3). Prerequisites, GEOL 101 or 111, CHEM 102, or permission of instructor. Introduction to the application of chemical principles to geological problems, with emphasis on isotope methods.

514 [139] River Systems of East Coast North America (3). Prerequisites, GEOL 101 or 111; GEOL 211 or 417; at least junior status. Analysis of 23 rivers from St. Lawrence to the Everglades, from headwaters to oceanic terminus of turbidite fan. Focus on stream processes, geologic development, hydrology, utilization history, ecology, and planning.

515 [142] Introduction to Geophysics (3). Prerequisites, PHYS 104 and 105. Introduction to the fundamentals of global geophysics: gravity, seismology, magnetism, heat and plate tectonics. Both shallow and deep processes are considered. Emphasis is aimed at problem solving by applying concepts.

516 [120] Environmental Field Mapping and Information Systems (3). Prerequisite, GEOL 401. Field and laboratory methods for collection, assimilation, and manipulation of map-based earth science data within a geospatial relational database. Introduction to applications of remote sensing and analysis of digital topography.

517 [136] Sequence and Seismic Stratigraphy (3). Prerequisite, GEOL 402. Examination of lithostratigraphic principles
and the sequence stratigraphic paradigm. Students will study use of variation of well log signature reflection attributes and reflection termination patterns to identify and correlate sequences and systems and to interpret the lithology and depositional history of subsurface stratigraphic units.

518 [151] Geodynamics (3). Prerequisites, GEOL 101 or 111; MATH 232; PHYS 104, 105; CHEM 102. Interior of the Earth deduced from seismology, gravity, heat flow, magnetism; geophysics of continents and ocean basins; age of Earth.

519 [150] History of the Earth (3). Prerequisites, GEOL 101, 105, 109, or 111; plus GEOL 301, 401, 402, and 404; or permission of instructor. History of the Earth's surficial and internal systems, including: biologic evolution; development of oceans, atmosphere, and climate; plate tectonic processes; evolution of crust and mantle.

520 [152] Data Analysis in the Earth Sciences (3). Prerequisites, an introductory geology course numbered below 202, except first-year seminar; MATH 231 and 232; or permission of instructor. Introduction to quantitative analysis in earth sciences: solid earth, atmospheres, oceans, geochemistry and paleontology. Topics covered: univariate and multivariate statistics, testing, nonparametric methods, time series, spatial and cluster analysis, shapes.

522 [154] Physical Volcanology (3). Prerequisites, introductory courses in geology and physics. Course is aimed at understanding the physical properties and processes controlling volcanism and magma transport. Topics covered include volcanic processes from the formation of magma in the upper mantle to violent eruption at the surface. Emphasis is placed on dynamic processes and underlying mechanisms.

550 [140] Biogeochemical Cycling (MASC 550) (3). Prerequisites, MASC 440, 505; or GEOL 510, 512, 655; or ENV 421; or permission of instructor. Biogeochemical cycling explores interfaces of marine, aquatic, atmospheric, and geological sciences emphasizing processes controlling chemical distributions in sediments, fresh and salt water, the atmosphere, and fluxes among these reservoirs.

552 [144] Organic Geochemistry (ENV 525, MASC 552) (3). Prerequisites, MASC 505 or CHEM 261 or permission of instructor. Sources, transformations, and fate of natural organic matter in marine environments. Emphasis on interplay of chemical, biological, and physical processes that affect organic matter composition, distribution, and turnover.

555 [197] Paleobotany (BIOL 555) (4). Prerequisites, BIOL 101, BIOL/101L, or permission of instructor. An introduction to the morphology, stratigraphic occurrence, and evolutionary relationships of fossil plants. Both macrofossils and microfossils are considered. Three lecture and three laboratory hours a week.

560 [181] Fluid Dynamics (ENV 452, MASC 560, PHYS 660) (3). Prerequisite, PHYS 301 or permission of instructor. The physical properties of fluids, kinematics, governing equations, viscous incompressible flow, vorticity dynamics, boundary layers, rotational incompressible flow.

563 [143] Descriptive Physical Oceanography (MASC 563) (3). Prerequisite, MASC 506 or permission of instructor. Observed structure of the large-scale and mesoscale ocean circulation and its variability, based on modern observations. In situ and remote sensing techniques, hydrographic structure, circulation patterns, ocean-atmosphere interactions.

601 [128] Summer Field Course in Geology (3). Prerequisites, GEOL 301, 401, 402, and 404. Six-week field camp conducted in New Mexico, Arizona, and Colorado. Field interpretation of rocks and their deformation; construction of geologic maps; introduction to hydrology. Includes field trips to classic localities such as the Grand Canyon.

602 [129] Summer Field Course in Geology (3). Prerequisites, GEOL 301, 401, 402, and 404. Six-week field camp conducted in New Mexico, Arizona, and Colorado. Field interpretation of rocks and their deformation; construction of geologic maps; introduction to hydrology. Includes field trips to classic localities such as the Grand Canyon.

608 [182] Continuum Mechanics in the Earth Sciences (ENST 608) (3). Prerequisites, introductory geology course numbered below GEOL 202, except first-year seminar; MATH 231; PHYS 104 or 116; or permission of instructor. Applications of continuum mechanics in the earth sciences, including stress, strain, elasticity, and viscous flow. Numerical solutions to problems in heterogeneous finite strain including finite element analysis.

609 [184] Advanced Field Seminar in Geology (1-4). Prerequisites, GEOL 601 and GEOL 602 or equivalent. A field course that emphasizes advanced field methods. Emphasis is placed on large-scale, detailed field work in complex structural terrains and on independent mapping that will lead to thesis/dissertation and/or publication.

655 [146] Physical Geochemistry (4). Prerequisites, CHEM 102, MATH 232, or permission of instructor. An introduction to physical geochemistry and chemical thermodynamics with special emphasis on geological applications. Three lecture and three laboratory hours a week.

691H [098] Honors (3). Prerequisite, permission of the department. For details, see geology degree requirements.

692H [099] Honors (3). Prerequisite, GEOL 691H. For details, see geology degree requirements.

Department of Germanic Languages and Literatures
www.unc.edu/depts/german

CLAYTON KOEB, Chair
Professors
Clayton Koeb, Eric Downing, Jonathan Hess, Alice Kuzniar, Siegfried Mews, David Pike, Paul Roberge.
Associate Professor
Kathryn Starkey.
Assistant Professor
Richard Langston.
Lecturer
Christina Wegel.

Introduction
The department seeks to offer courses tailored to the needs of a variety of groups of students. While many courses are designed to provide a rich program for German majors (including the numerous
double majors), others are suitable for students seeking a more modest level of involvement in the language, literature and culture of German-speaking Europe. Still other courses are designed for students who have not yet achieved the prerequisite German language skills; these courses are conducted in English, with translated texts.

Many students enter UNC-Chapel Hill German courses with no prior experience in the language, but those who have had previous exposure are placed according to their skill level. Upon completion of fourth-semester German, many students take more courses to improve their proficiency or to learn more about the German language, literature and culture; others decide at this point to major or minor in German, for which purpose they must consult the departmental director of undergraduate studies. It is common for students to double major, combining German with another field appropriate to their interests and needs; in such cases, students should consult advisors both in the German Department and in the other department concerned.

Programs of Study
The degree offered is bachelor of arts in German with a concentration either in literature and culture, or German studies. A minor in German is also available.

Majoring in German: Bachelor of Arts
The German major (literature and culture concentration) requires at least eight courses beyond GERM 204, totaling 24 credit hours: GERM 301, 303 (GERM 301 may be taken concurrently with 303), 302, 257, two additional courses numbered 210 or higher, and two additional courses numbered 304 or higher. No fewer than five of the eight courses beyond GERM 204 counting toward the major must be conducted in German. GERM 290, 291, and 292 (in English) and GERM 390, 391, and 392 (in German) are topics courses, which may each be taken up to a maximum of three times and be counted toward the German major according to the guidelines above.

The department also offers a German studies concentration leading to the B.A. This concentration consists of a minimum of four courses (totaling twelve credit hours) taken in the department beyond GERM 204: GERM 301, 303, and 257, plus at least one other course numbered 304 or higher and taught in German. Four additional courses relevant to German studies, selected in consultation with the director of undergraduate studies, are to be chosen either from departmental offerings (numbered 210 or higher) or from a list of appropriate courses in such departments as history, music, philosophy, political science, religion and sociology.

Students seeking certification to teach in public schools should consult advisors in the School of Education.

Minor in German
The minor in German consists of four German courses beyond GERM 204: GERM 301 and 303, and any two additional courses numbered 210 or higher.

Transfer Credit – Study Abroad
At least four courses (12 credit hours) beyond 204, and ordinarily including 301 and 303, must be taken at UNC-Chapel Hill to fulfill the requirements of the major. German majors who study abroad or wish to transfer credit from another institution may apply for the transfer of a maximum of four courses counting toward the major (two courses for the minor). Before their departure for a Study Abroad program, students should consult with the director of undergraduate studies about appropriate courses for the major or minor to be taken abroad.

All students who wish to pursue a major in German (literature and culture, or German studies) as a minor in German should have a grade of C or higher in GERM 203 and 204. The document Guide to the Undergraduate Major and Minor (available on the departmental Web site) gives further details regarding requirements. Students may also request a copy of this document in the departmental office.

Honors in Germanic Languages and Literatures
Majors in either concentration qualified for honors work are strongly encouraged to consider taking honors in German during their senior year. Undertaking an honors project gives students the opportunity to explore a topic in depth under the direction of a faculty member. Such individually directed research and writing often proves to be a high point of the student's academic career. Seniors who wish to do honors work should confer with the director of undergraduate studies and enroll in German 691H (honors reading and special studies) followed by either 692H or 693H (writing of honors thesis). These honors courses count toward the major.

Special Opportunities in Germanic Languages and Literatures
Student Involvement and Cultural Enrichment Beyond the Classroom
All students are encouraged to apply for the German House, a section of a residence hall (a lounge and kitchen are provided) with space for eight male and eight female students. The German House brings together students with a common interest in speaking German and exploring cultural and political issues related to Germany. Numerous social and educational events hosted by the German honor society Delta Phi Alpha, the German Club and the department provide an atmosphere for effective learning and for enjoyment of cultural aspects of German life. An example is the weekly Kaffeestunde, where students find an opportunity for informal conversation suitable for both beginning and advanced students. The department also periodically sponsors lectures, of both scholarly and popular nature, and a film series. Students anticipating further study in business, law, medicine and other professional programs are encouraged to study German as a practical preparation for flexible career options in the increasingly international community of professionals. Those considering an undergraduate major or minor should ask to be added to our majors and minors email listserve so that they will receive information regarding special events and opportunities.

Languages Across the Curriculum
The department participates in the Languages Across the Curriculum (LAC) program and encourages both majors and minors to enroll in one-credit-hour recitation or discussion sections that are conducted in German but associated with a variety of courses offered in English by other departments, including history, sociology, political science and international studies. These recitation and discussion sections encourage students to use their German-language skills in a broader scope of intellectual endeavor. Additionally, the department offers similar German recitation sections in conjunction with several of its own courses that are offered in English. Each of these discussion and recitation sections counts as one credit (in addition to the credit granted for the course) and may count toward the major.
**Study Abroad**

The department encourages all students of German to study or engage in internships abroad in order to maximize their linguistic and cultural proficiency. The Study Abroad Office offers a wide variety of programs addressing different student interests and needs at all universities in the German state of Baden-Württemberg; at Georg August University of Göttingen, Germany; at the Vienna (Austria) University of Economics and Business Administration; and at the Science Exchanges in Berlin or Jena (Germany), Vienna, and Zurich (Switzerland). Internships are available in Berlin, Bonn, Cologne and Dresden. Most programs require that participating students have successfully passed German 4; however, students with no prior knowledge of German may attend programs in Berlin (including especially the new European studies program at the Free University of Berlin), Tübingen, or Freiburg. These programs generally include intensive language instruction in addition to content courses taught in English. Most programs offer an intensive language and orientation course prior to the start of the semester. Students may participate for a whole year, a single term, or a summer. The year-long term typically begins in late August and ends in late July. There is a two-month vacation between semesters, which many students use for travel. Due to the German university schedule, students choosing to go abroad for only one term generally do so in the spring semester, which typically begins in late February and ends in late July.

Internships are available through Educational Programs Abroad (in Berlin, Bonn and Cologne), and through Boston University (in Dresden), in a variety of fields, including museum and art administration, advertising and public relations, journalism, business, law, health and social sciences, and politics. Students interested in applying for an internship in Germany should consult with the Study Abroad Office and with the director of undergraduate studies about the various programs available. The department also provides information on other fellowship and job opportunities in Germany. Both majors and minors should consult with the director of undergraduate studies in advance of going abroad about courses they plan to take for the major or minor.

**Undergraduate Awards and Honors Society**

Membership in the Beta Rho chapter of Delta Phi Alpha, the German honors society, is available to majors and minors who have completed GERM 101-102 and 203-204 and have maintained grades of B or better. The department also selects one outstanding graduating senior each year to receive the Undergraduate Ria Stambaugh Award for Excellence in German, a cash award that is presented at the Chancellor’s Awards Ceremony each spring.

**Graduate School and Career Opportunities**

In an age of rapid internationalization and globalization, proficiency in a foreign language is no longer just an auxiliary skill, but a necessary one. Thus, double majoring in German and another discipline uniquely qualifies students to pursue flexible career options in the increasingly international community of professionals. Recent graduates of our program have entered careers in international business, journalism, publishing and the travel industry. The presence of over one hundred German and Swiss firms in the Carolinas testifies to the demand for a high degree of linguistic and cultural literacy in college graduates.

A bachelor of arts in German (or German studies) qualifies graduates for career paths in which a linguistic and cultural literacy is necessary, such as positions in the U.S. State Department and other government agencies, educational organizations and foundations and travel organizations. Increasingly, international businesses also value and reward such skills, and a graduate who has received the “Zertifikat Deutsch für den Beruf” at UNC has a special edge in seeking such positions. In addition, the demand for language teachers provides career opportunities for those German majors who receive teaching certification from the School of Education.

German majors often go on to graduate programs in business, law, medicine, education and other fields. Some pursue careers as college professors of German. Chapel Hill German majors have been welcomed by the most prestigious graduate programs in the country. The University’s own strong graduate program admits undergraduates who have majored here. The department’s faculty members assist and advise undergraduate majors interested in graduate work in their selection of programs.

**Contact Information**

Questions should be directed to the director of undergraduate studies, who has responsibility for advising all undergraduate majors and minors. The director also has the responsibility to approve study abroad, internship and transfer credit, and serves as the honors advisor.

**GERM**

050 [006M] First-Year Seminar: Literary Fantasy and Historical Reality (3). The intersection of literary fantasy with historical reality considered in two ways: (1) fantastic-looking tales based on historical reality; and (2) stories describing fantastic situations that actually came true.


052 [006M] First-Year Seminar: Canine Cultural Studies (3). Explores philosophical and imaginary connections and imasses between human and animal. Examines literary and visual arts including contemporary media to see how our relationship to dogs tests limits of expression.

053 [006G] First-Year Seminar: Early Germanic Culture: Myth, Magic, Murder and Mayhem (3). Introduction to pre-Christian culture of Germany, Anglo-Saxon England and Scandinavia from the late Roman Empire through the Viking Age, as preserved in myths, sagas, charms, inscriptions and historical documents.

054 First-Year Seminar: Once Upon a Fairy Tale: Fairy Tales and Childhood, Then and Now (3). Fairy tales from different national traditions and historical periods read through various critical lenses, against backdrop of changing historical conceptions of the child. Works from Grimm, Anderson, Bronte, Disney, etc.

055 [006G] First-Year Seminar: Fantasies of Rome: Gladiators, Senators, Soothsayers and Caesars (3). Introduces students to study of humanities by examining how the idea of Rome evolved through poetry, history, philosophy, opera, even forgery into a concept that has long outlasted the Romans.

056 [006I] First-Year Seminar: Germans, Jews and the History of Anti-Semitism (3). This course seeks to explore the
historically difficult position of minorities in the modern world, using the situation of Jews in Germany from the 18th century to the Holocaust as a case study.

058 [006G] First-Year Seminar: Love in the Middle Ages (3). Examines development of notion of love from antiquity through Middle Ages to today. Discusses marriage, adultery, violence, power, gender roles. Introduces the study of humanities through reading, analysis and research.

059 [006E] First-Year Seminar: Moscow 1937: Dictatorships and Their Defenders (3). Stalinist Soviet Union serves as a case study to examine how dictatorships develop and how they tend to be enveloped in justifications and kept in existence by outside observers.

060 First-Year Seminar: Avant-Garde Cinema: History, Themes, Textures (3). Students explore the international history, filmic techniques and cultural meanings of non-narrative cinema of the 20th century. Students also transform in-class discussions and individual essays into video projects.

061 First-Year Seminar: Berlin: Old and New Capital: 150 Years of German Culture and Politics (3). In the course we will examine one of the chief questions of German history and politics, the striving for national unity - both externally and internally - from 1871 to the end of our century.

101 [001] Elementary German (4). Develops the four language skills (speaking, listening, reading, writing) in a cultural context. In addition to mastering basic vocabulary and grammar, students will communicate in German about everyday topics.

102 [002] Advanced Elementary German (4). Prerequisite, GERM 101, placement exam, the equivalent at another college or university, or permission of instructor. This continuation of GERM 101 emphasizes speaking, listening, reading, writing in a cultural context. Students enhance their basic vocabulary and grammar, and will regularly communicate in German about everyday topics.

105 Intensive Elementary German (8). Prerequisite, permission of director of elementary language instruction. An accelerated, intensive course that essentially covers materials of GERM 101 and GERM 102 in one semester.

203 [003] Intermediate German (3). Prerequisite, GERM 102, placement exam, the equivalent at another college or university, or permission of director of elementary language instruction. Students acquire necessary materials and opportunities to develop further their language skills in a cultural context. They review and expand upon the basic grammar covered in beginning German.

204 [004] Borders and Bridges: Advanced Intermediate German (3). Prerequisite, GERM 203, placement exam, the equivalent at another college or university, or permission of director of elementary language instruction. Emphasizes further development of the four language skills (speaking, reading, writing, listening) within a cultural context. Discussions focus on the idea of borders and bridges in German literature and film.

206 Intensive Intermediate German (6). Prerequisite, GERM 102, placement exam, the equivalent at another college or university, and permission of director of elementary language instruction. An accelerated intensive course that covers the materials of GERM 203 and GERM 204 in one semester.

210 [052] Getting Medieval: Knights, Violence and Romance in the Middle Ages (3). Offers a historical perspective on the portrayal of medieval culture in film from the 1920s to today. Specific topics include the ideal hero, the quest, etiquette, chivalry, rituals and love. Readings and discussions in English.

216 [051] The Viking Age (3). Lecture/discussion course on Viking culture, mythology, exploration and extension of power in northern Europe (approx. 750-1050 C.E.) as represented in sagas, the Eddas, runic inscriptions and chronicles. Readings and discussions in English.

220 [066] Women in the Middle Ages (WMST 212) (3). This interdisciplinary course examines representations of women, concepts of gender and women's participation in the economic, political, religious and cultural life of the Middle Ages. Discussion and texts in English.

245 [050] Marx, Nietzsche and Freud (3). An introduction to the writings of three great German writers of the 19th century who have had enormous impact on the lives of people around the world. Readings and discussions in English.

246 Reality and its Discontents: Kant to Kafka (3). An examination of "reality," as defined and redefined by Kant and his successors, in the context of European culture of the late 18th, 19th and early 20th centuries. Readings and discussions in English.

250 [044] Women in German Cinema (WMST 250) (3). Introduction to feminist aesthetics and film theory by the examination of the representation of women in German cinema from expressionism to the present. All materials and discussions in English.

251 [094A] Ideology and Aesthetics: Marxism and Literature (SLAV 251) (3). Examines clash between 20th-century writers and the state in countries where a single government or party used an exclusive ideology as justification for interference in cultural and literary affairs. Discussions and texts in English.

252 [094B] South Africa in Literary Perspective (3). Course aims at an understanding of the South African experience as represented by that country's important writers. Readings include works by Gordimer, Coetzee, Mphahlele, Breytenbach, Fugard, Ndabe, Paton, la Guma. All materials in English.

255 [060] Germany and the Cold War: From Allied Occupation to Division and Reunification (1945-1990) (3). This course will investigate the central role played by the "German question" in the break-up of the wartime alliance and the political division of western and eastern Europe. Readings and discussions in English.

257 [090A, 090B] Society and Culture in Postwar Germany (HIST 257, POLI 257, SOCI 257) (3). The interdisciplinary, team-taught seminar will explore cultural, historical and political issues of contemporary Germany and analyze German developments from the postwar period to the present. Readings and discussions in English.

265 [062] Hitler in Hollywood: Cinematic Representations of Nazi Germany (3). An examination of selected cinematic representations (both American and German) of Nazi Germany in terms of their aesthetic properties and propagandistic value. Films with English subtitles; readings and discussions in English.

270 [061] German Culture and the Jewish Question (JWST 239, RELI 239) (3). A study of the role of Jews and the "Jewish
question” in German culture from 1750 to the Holocaust and beyond. Discussions and texts (literary, political, theological) in English.

275 History of German Cinema (COMM 275) (3). This course explores the major developments of German cinema. All films with English subtitles. Readings and discussions in English.

290 [046] Studies in German Literature (3). Study of a literary genre, theme, writer, period, movement, or problem. Readings and discussions in English.

291 [048] Topics in German Studies (3). Examines selected themes in the history, culture, society, art and/or literature of German-speaking countries. Readings and discussions in English.

292 [047] Studies in Germanic Linguistics (3). Investigations into the structure, history, variation, or use of one or more of the Germanic languages. Readings and discussions in English.

301 [011] Conversation and Composition (3). Prerequisite, GERM 204, placement exam, the equivalent at another college or university, or permission of director of elementary language instruction/director of undergraduate studies. Emphasis is on speaking and writing, with shorter readings on contemporary German life to provide subject matter for in-class discussion and regular written compositions. Further goals include improvement of pronunciation and a mastery of grammar.

302 [022] German Language and Culture (3). Prerequisite, GERM 301 or permission of director of elementary language instruction/director of undergraduate studies. Introduction to issues shaping modern German culture and history through a wide range of texts and media while expanding and strengthening reading, writing and speaking skills.

303 [021] Introduction to German Literature (3). Prerequisite, GERM 204 or equivalent, or permission of director of undergraduate studies. Presents major authors (such as Goethe, Mann, Kafka and Brecht), periods, genres and analysis. An appropriate conclusion to GERM 101-GERM 204, it also provides the background for more advanced undergraduate literature courses. Readings, discussions and essays in German.

304 [023] Business German (3). Prerequisite, GERM 301 or permission of instructor. An introduction to the language and culture of German business, commerce and industry. Special emphasis is given to the acquisition of advanced business-related language skills.

305 [024] Business German (3). Prerequisite, GERM 301 or permission of instructor. As a continuation of GERM 304 the course offers a more advanced treatment of the current German economic and business debates and events while further strengthening relevant German language skills.

310 [085] Höfische Kultur/Courtly Culture (3). Prerequisites, GERM 301 and 303, or permission of instructor. Introduces students to the rich culture and exciting literature of medieval Germany. Topics include knights and ladies, castles, weaponry, clothing, food and fantasy. All materials and discussions in German.

311 [087] The Crusades (3). Prerequisites, GERM 301 and 303, or permission of instructor. Examination of the medieval notion of the crusade, conflicts and exchange between East and West, and the ambiguous portrayals of the East in Western medieval literature. Readings and discussions in German.

330 [070] The Age of Goethe (3). Prerequisites, GERM 301 and 303, or permission of instructor. German literature from the Enlightenment to Romanticism. Readings include works by Lessing, Goethe, Schiller, Kleist and the Romantics. Readings and lectures in German.

349 [073] Die Jahrhundertwende (3). Prerequisites, GERM 301 and GERM, or permission of instructor. Investigation of the inter-connectedness of turn-of-the-century arts, philosophy, psychoanalysis with focus on Berlin and Vienna. Works by Nietzsche, Hauptmann, Schnitzler, Freud, Hesse, Hofmannsthal/Strauss, Kafka, Rilke, T. Mann. Readings and lectures in German.

350 [071] Modern German Literature (3). Prerequisites, GERM 301 and 303, or permission of instructor. Study of major works of German literature from 1890 to the present by such authors as Thomas Mann, Kafka, Brecht, Hesse, Böll and Grass. Readings and lectures in German.

370 [076] Readings in German Intellectual History (3). Prerequisites, GERM 301 and 303, or permission of instructor. Introduction to German intellectual history from the Enlightenment to the rise of fascism. Close readings and discussions of texts by Kant, Schiller, Hegel, Marx, Nietzsche, Freud and Benjamin. Readings and lectures in German.

371 [080] The German Novella (3). Prerequisites, GERM 301 and 303, or permission of instructor. Famous novellas by authors such as Kleist, Brentano, Meyer, Keller and Kafka, from the early 19th century to the middle of the 20th century. Readings and discussions in German.

372 [081] German Drama (3). Prerequisites, GERM 301 and 303, or permission of instructor. German drama from the late Enlightenment to the present. Texts include plays by dramatists such as Goethe, Schiller, Kleist, Hauptmann, Brecht and Dürenmatt. Readings and lectures in German.

373 [082] German Lyric (3). Prerequisites, GERM 301 and 303, or permission of instructor. Survey of German poetry from the Middle Ages to the present. Major poets, forms and literary movements will be discussed. Readings and class discussions in German.

380 [074] Austrian Literature (3). Prerequisites, GERM 301 and 303, or permission of instructor. Presents Austria from the Biedermeier period to the end of the monarchy. Readings of works by authors such as Stifter, Schnitzler, Roth, Freud, Herzl, that articulate artistic, political, historical themes. Readings and lectures in German.

381 [086] Berlin: Mapping a (Post-) Modern Metropolis (3). Prerequisites, GERM 301 and 303, or permission of instructor. Exploration of the rich cultural and turbulent political history of 20th-century Germany by focusing on the literature, film, art and architecture produced in and about the city of Berlin. All materials and discussions in German.

388 Discussion Section in German (1). Prerequisites, GERM 204 or permission of instructor. Students may enroll only in conjunction with a German Department course offered in English that features an accompanying discussion section. All materials and discussions in German. May count toward the major or minor in German.

389 [091] LAC Recitation (1). Prerequisites, GERM 204 or permission of instructor. A recitation section for selected courses that promote foreign language proficiency across the curriculum (LAC).
Readings and discussions in German. May count toward the major and minor in German.

390 [095] Studies in German Literature (3). Prerequisites, GERM 301 and 303, or permission of instructor. Study of a literary genre, theme, writer, period, movement, or problem. Readings and discussions in German.

391 [093] Topics in German Studies (3). Prerequisites, GERM 301 and 303, or permission of instructor. Examines selected themes in the history, culture, society, art and/or literature of German-speaking countries. Readings and discussions in German.

392 [092] Studies in Germanic Linguistics (3). Prerequisites, GERM 301 and 303, or permission of instructor; LING 101 helpful. Investigations into the structure, history, variation, or use of one or more of the Germanic languages. Readings and discussions in German.

396 [097] Independent Readings in German (3). Prerequisite, permission of instructor and director of undergraduate studies. Special readings and research in a selected field or topic under the direction of a faculty member.

400 [100] Advanced German Grammar (3). Prerequisites, GERM 301, 302, and 303, or equivalent or permission of instructor. A study of current German structure and usage. Course strengthens the writing of graduate students and helps them confront the problems most frequently faced in speaking and teaching.

500 [160] History of the German Language (3). Prerequisites, GERM 301, 302, and 303, or equivalent or permission of instructor. Development of phonology and morphosyntax from ancient times to present. Political, social and literary forces influencing the language.

501 [165] The Structure of Modern German (3). Prerequisites, GERM 301, 302, and 303, or equivalent or permission of instructor. Introduction to formal analysis of German grammar (phonology, morphophonemics, prosodics, morphology, syntax) within the framework of generative grammar.

502 [171] Middle High German (3). Prerequisites, GERM 301, 302, and 303, or equivalent or permission of instructor. Introduction to medieval German language and literature. Readings in medieval German; lectures in English.

505 [272] Early New High German (3). Reading and linguistic analysis of Early New High German texts, with study of phonology, morphology and syntax. (On demand.)

508 [270] Old High German (3). Reading and linguistic analysis of Old High German texts, with study of phonology, morphology and syntax; comparison of the various dialects with other older dialects of Germanic. (On demand.)

511 [275] Old Saxon (3). Reading and linguistic study of biblical texts (Heliand, Genesis) in Old Saxon, with study of phonology, morphology and syntax; comparison with Old English, Old High German and other Germanic dialects. (On demand.)

514 [260] Old Norse I (Old Icelandic) (3). Reading and linguistic analysis of Old Norse (Old Icelandic) texts, with study of phonology, morphology and syntax; comparison with other older dialects of Germanic. (On demand.)

515 [261] Old Norse II (Old Icelandic) (3). Continuation of Old Norse I. (On demand.)

517 [255] Gothic (3). Reading and linguistic analysis of Gothic biblical texts, with study of phonology, morphology and syntax; comparison with other older dialects of Germanic. (On demand.)

520 [155] Stylistics: Theory and Practice (3). Prerequisites, GERM 301, 302, and 303, or equivalent or permission of instructor. Study of stylistic theories and practices in literature and linguistics, analysis of a large variety of texts, written exercises, training in the use of stylistic devices.

521 [175] Variation in German (3). Prerequisites, GERM 301, 302, and 303, or equivalent or permission of instructor. Major topics in sociolinguistics: development of the German language, traditional dialects, variation in contemporary speech, German as a minority language (Alsace, Belgium), German outside of Germany (Austria, Switzerland, Luxembourg, Liechtenstein).

542 [172] Pidgins and Creoles (ANTH 542, LING 542) (3). Prerequisite, LING 101 or 101A or equivalent, or permission of instructor. Examination of the linguistic features of pidgin and creole languages, the sociohistorical context of their development and their impact on current theoretical issues (acquisition, universals, language change).

545 [180] Problems in Germanic Linguistics (3). Prerequisites, GERM 301, 302, and 303, or equivalent or permission of instructor. Special problems will be selected for intensive investigation. Subject matter of the course will be adapted to the particular interests of the students and instructor.

549 [285] Topics in Germanic Linguistics (3). Prerequisites, GERM 301, 302, and 303, or equivalent or permission of instructor.

601 [101X] Elementary German for Graduate Students (3). Prerequisite for undergraduates, permission of instructor. With GERM 602, a two-semester sequence designed as preparation for the reading knowledge examination for higher degrees in the humanities, social sciences, physical sciences, etc.

602 [102X] Elementary German for Graduate Students, continued (3). Prerequisite, GERM 601 and (for undergraduates) permission of instructor. Continuation of GERM 601.

605 [280] Comparative Germanic Grammar (3). Prerequisites, GERM 301, 302, and 303, or equivalent or permission of instructor. Analysis of phonological, morphological and syntactic development from Indo-European to the older stages of Germanic dialects.

615 [111] History of German Literature I (3). Prerequisites, GERM 301, 302, and 303, or equivalent and permission of instructor. First part of a two-semester sequence offering students a comprehensive, text-based survey of German literary history from the High Middle Ages to the present.

616 [112] History of German Literature II (3). Prerequisites, GERM 301, 302, and 303, or equivalent and permission of instructor. Second part of a two-semester sequence offering students a comprehensive, text-based survey of German literary history from the High Middle Ages to the present.

625 [115] Early Modern Literature (3). Prerequisites, GERM 301, 302, and 303, or equivalent (if taught in German) and permission of instructor. German literature of the 15th, 16th, and 17th centuries. Close readings, lectures, and discussions of representative texts.

630 [120] 18th-Century Literature (3). Prerequisites, GERM 301, 302 and 303, or equivalent (if taught in German) and permission of
instructor. Literature in the Age of Enlightenment. Close readings, lectures, and discussions of representative texts.

640 [125] Early 19th-Century Literature (3). Prerequisites, GERM 301, 302, and 303, or equivalent (if taught in German) and permission of instructor. Literature of the Romantic period. Close readings, lectures, and discussions of representative texts.

645 [130] Later 19th-Century Literature (3). Prerequisites, GERM 301, 302, and 303, or equivalent (if taught in German) and permission of instructor. Literature of Realism, Naturalism, and related movements. Close readings, lectures, and discussions of representative texts.

650 [135] Early 20th-Century Literature (3). Prerequisites, GERM 301, 302, and 303, or equivalent (if taught in German) and permission of instructor. Major figures of the period from the turn of the century to World War II. Close readings, lectures, and discussions of representative texts.

655 [140] Later 20th-Century Literature (3). Prerequisites, GERM 301, 302, and 303, or equivalent (if taught in German) and permission of instructor. Literature since World War II in both the Federal Republic and the former GDR. Close readings, lectures, and discussions of representative texts.

691H [098] Honors Course (3). Prerequisite, permission of director of undergraduate studies. For majors only. Reading and special studies under the direction of a faculty member.

692H [099A] Honors Course (3). Prerequisite, permission of director of undergraduate studies. For majors only. Reading and preparation of an essay under the direction of a faculty member, designed to lead to the completion of the honors thesis.

693H [099B] Honors Seminar (3). Prerequisite, permission of director of undergraduate studies. For majors only. Introduction to research techniques and preparation of an essay, designed to lead to the completion of the honors thesis.

DTCH

402 [105] Elementary Dutch (3). Rapid introduction to modern Dutch with emphasis on all fundamental components of communication.

403 [106] Intermediate Dutch (3). Prerequisite, DTCH 402 or equivalent. Focuses on increased skills in speaking, listening, reading, global comprehension, and communication. Emphasis on reading and discussion of longer texts.

404 [107] Advanced Intermediate Dutch (3). Prerequisite, DTCH 403 or equivalent. Aims to increase proficiency in language skills (reading, speaking, writing) and is constructed around a series of themes meant to introduce students to Dutch society, culture, and history.

405 Topics in Dutch Culture: A Literary Survey (3). Prerequisites, DTCH 404 or equivalent, ability to read and speak Dutch at intermediate to advanced level. Introduction to Dutch literature from Middle Ages to the present. Survey of topics in Dutch culture.

NORW

402 [181] Elementary Norwegian (3). Rapid introduction to modern Norwegian with emphasis on all fundamental components of communication.

404 [182] Intermediate Norwegian (3). Prerequisite, NORW 402 or equivalent. Focuses on increased skills in speaking, listening, reading, global comprehension and communication. Emphasis on reading and discussion of longer texts.

Department of History

LLOYD S. KRAMER, Chair


Associate Professors Daniel V. Botsman, Kathryn J. Burns, Jerma A. Jackson, Wayne E. Lee, James L. Leloudis, Lisa A. Lindsay, Terence V. McIntosh, Yasmin Saikia, Sarah D. Shields, John W. Sweet, Michael Tson.

Assistant Professors Chad Bryant, Kathleen Duval, Crystal N. Feimster, Christopher J. Lee, Brett E. Whalen, Heather A. Williams.

Joint Professors Robert C. Allen, Michael D. Green, Larry Griffin, Peter I. Kaufman

Joint Associate Professor Reginald F. Hildebrand.

Adjunct Professors Gillian T. Cell, Kenneth R. Janken.

Adjunct Assistant Professor Edward E. Curtis IV.

Professors in Phased Retirement R. Don Higginbotham, Michael H. Hunt.

Associate Professor in Phased Retirement W. James McCoy.


Introduction

The study of history is an essential part of a liberal arts education and offers valuable preparation for many careers: in law, journalism, libraries, and museums; in local, state, and national public service; in business; in international work; and, of course, in historical research and teaching. More broadly, by an exposure to a variety of cultures and human experience and by training in the interpretation of conflicting evidence, the Department of History seeks to prepare a person for the responsibilities of citizenship and for dealing with the ambiguities of human existence. Diversity in the history major program encourages a comparative approach to human problems and discourages parochialism; specialization in the program pro-
motes an appreciation of the complexity of human affairs and the difficulties involved in interpreting them. Finally, the discipline of history stimulates imagination and analytical thinking.

Programs of Study

The degree offered is bachelor of arts in history. A minor in history also is offered.

Majoring in History: Bachelor of Arts

Students must complete the following requirements for a major. Each major shall concentrate in one area (American, ancient/medieval, gender and women, modern European, third world/non-Western, or global), or students must devise a thematic concentration and have it approved by the chair of the Undergraduate Studies Committee.

A history major consists of 10 history courses. A minimum of four and a maximum of six of these 10 courses will fall in the student's field of concentration. A minimum of four and a maximum of six courses will be outside of the student's field of concentration. All majors will take at least one history department course in third world/non-Western history (most of which will satisfy the BN requirement). At least six of the 10 courses a student takes for the major must be numbered 200 or above. Each major will take an undergraduate seminar in history. These seminars are numbered between HIST 391 and 397 and satisfy both the EE and CI requirements in the General Education curriculum, effective fall 2006. Of these 10 courses, at least seven must be completed with a grade of C or higher.

All College of Arts and Sciences policies apply, including (but not limited to) the following: No history course may be taken for pass/fail credit (even if the course serves as a free elective). A maximum of 15 history courses (45 hours) may be applied toward the B.A. degree. Any courses beyond the minimal 10 (but not above the maximum of 15) will count as free electives.

No more than five courses (fifteen hours) of College Board Advanced Placement and/or transfer credit may count toward the major.

Honors in History

The departmental Honors Program is open to any qualified history major with at least a 3.2 overall average and, under normal circumstances, a 3.4 in history courses, and experience in research and writing derived from an undergraduate seminar in history (HIST 391-397). The student pursuing a degree in history with honors must take HIST 691H and 692H. The student, in consultation with the honors director, will choose a topic and locate an appropriate faculty member to supervise a senior honors thesis. In 691H the mechanics of researching and writing a senior essay will be discussed, and a start made on the essay itself. In 692H the essay will be completed, and the student examined by the supervisor and at least one additional faculty member to be agreed upon by the student and supervisor. To receive highest honors the essay must be recommended by the examiners and a review committee. The director of honors, in consultation with the examiners and review committee, will recommend that the student who has defended the essay graduate with either honors or highest honors, or merely with course credit. Students should submit applications for the Honors Program by the end of February during their junior year. For detailed guidelines, contact the director of honors in the Department of History.

Minoring in History

The minor in history consists of five courses taken in the Department of History. A maximum of two courses can be numbered below 200. Students must have a grade of C or better in at least four of the five courses; three must be taken at UNC-Chapel Hill or a program officially sponsored by the University.

Special Opportunities in History

Departmental Involvement

Students with broad interests in the intellectual and social life of the department may volunteer to serve on the department's Undergraduate Studies Committee (UGSC). Each spring, the department invites majors to volunteer for the UGSC, and the selection is made at the start of the next fall semester by the faculty members on the UGSC. Students may also plan or participate in activities organized by the Undergraduate History Club. For more information about the UGSC and the History Club, please contact the undergraduate coordinator for the History Department.

Experiential Education

In some cases, students majoring in history may wish to pursue internship opportunities; questions and requests regarding internships should be directed to the director of undergraduate studies, who has responsibility for evaluating internship proposals and deciding whether an internship may be taken for academic credit.

Study Abroad

The History Department strongly encourages its students to explore the many study abroad opportunities provided by the Study Abroad Office in the College of Arts and Sciences. Whatever the student's field of concentration within the history major, the experience of studying abroad opens intellectual horizons that can be glimpsed only in unfamiliar worlds, and it deepens one's appreciation for the enduring power of historical context and circumstance.

Undergraduate Awards

All majors who complete the required undergraduate seminar are automatically eligible for the annual Joshua Meador Prize, awarded to the author of the best seminar paper written in the preceding calendar year. A named prize is also awarded to the author of the best honors thesis; the award is announced at the annual spring honors banquet.

Undergraduate Research

The History Department encourages undergraduate research in a variety of ways. The required seminar for majors (HIST 391-397) introduces students to historical research. The senior Honors Program (HIST 691-692) gives students an opportunity to carry out a year-long research project. In both the fall and spring semesters senior honors students may apply for competitive awards, the Michael L. and Matthew L. Boyatt Awards in History for Undergraduate Research, to help support travel for the purpose of research.

Graduate School and Career Opportunities

Most history majors at UNC-Chapel Hill develop careers that do not involve practicing history in its narrow sense. These students work in a wide range of fields—for example, business, law, journalism, education, and government. These students have found that they can apply to many different tasks the skills that history teaches: analyzing, conceptualizing, investigating, researching, interpret-
ing large amounts of information, as well as communicating through writing and speaking.

Many history majors enter professional schools in a number of different areas. Law school, business school, and medical school rank high in popularity. By teaching students how to analyze problems, how to understand society and human behavior, and how to communicate effectively, a major in history provides excellent preparation for enrollment in a professional school.

Some majors end up using history directly in their vocations. Those who wish to teach history at the secondary level in public schools must obtain appropriate certification, usually through an M.A.T. degree. Other students pursue graduate study by entering a master’s degree program in history that requires a thesis and takes about two years to complete. A student can then decide whether to proceed into a Ph.D. program, which normally requires an additional two years of study and the completion of a doctoral dissertation. Students who decide to pursue a Ph.D. in history generally teach at the college level. Some complete a master’s degree in public history and work for government archives at the national, state, or local levels or for private non-profit organizations, such as groups interested in restoration work.

Contact Information
Secretary for Undergraduate Studies or the Chair of the Undergraduate Studies Committee, CB# 3195, 556 Hamilton Hall, (919) 962-9822

HIST

050 [006] First-Year Seminar: Books (3). As well as reading books, civilized people value them and not infrequently own them. This seminar will explore some of the fascinating aspects of the book – here regarded largely apart from its contents – as an object worth considering in itself.

051 [006] First-Year Seminar: Ideology and Revolution in Latin American History (3). This course explores the problem of revolutionary upheaval in Latin American history, from the revolutionary wars of the independence era (1810-1825) to revolutionary episodes of the 20th century.

052 [006] First-Year Seminar: Conflicts Over Israel/Palestine (3). This course will familiarize students with the background of this ongoing conflict. It will begin with the growth of political Zionism in Europe, continue through early Zionist settlement, the U.N. partition and resulting war, and the history of the conflict through the present.

053 [006] First-Year Seminar: Traveling to European Cities: American Writers and Cultural Identities, 1830-1930 (3). This course examines the experiences of American writers who traveled and lived in European cities during the era between 1830 and 1930 with the goal of developing historical insights into these writers’ fascination with famous European cities and the experience of travel.

054 [006] First-Year Seminar: Interpreting the French Revolution, 1789-1815 (3). In this course, students will learn about the dominant interpretations of the French Revolution – one of the foundational events in world history – elaborated over the course of the 20th century, and they will come to appreciate, even as they criticize, the work of those historians who have interpreted the evidence from the French Revolution over the past 60 years.

055 First-Year Seminar: Can War Be Just? (3). Focusing on Michael Walzer’s Just and Unjust Wars, the course will study the issues that he raises in light of historical cases taken primarily from World War II and the Vietnam War, but to some extent also taken from World War I and more recent conflicts such as the Falkland War, the Gulf War, and events in Bosnia and Kosovo.

056 [006] First-Year Seminar: World War I: History and Literature (3). This seminar will read and discuss powerful examples of literature (poetry, memoirs, and novels) produced during and after World War I that sought to come to terms with the trauma of this cataclysmic event in European history – the first experience of total war fought by modern, industrialized nations.

057 [006] First-Year Seminar: History and Memory in the Modern South, 1865 to the Present (3). This course is organized around reading about and discussing the theme of history, memory, and popular culture in the post-Civil War South.

058 [006] First-Year Seminar: Born in the U.S.A: Coming of Age in the 1950s (3). This seminar will examine what it was like to “come of age” in America during the 1950s and 1960s, when the United States emerged as a dominant world power at the same time that it experienced unprecedented changes at home.

059 [006] First-Year Seminar: Remembering the Vietnam War (3). This seminar explores the memoirs, oral histories, novels, films, and monuments by which both Americans and Vietnamese have sought to make sense of the Vietnam War as a seminal event in their respective lives.

060 [006] First-Year Seminar: Lives of Eurasian Minorities (3). While focusing on the national minorities of the former Tsarist/Soviet empire, the primary intellectual purpose of this course is to increase student understanding of issues related to national minorities, particularly problems related to the formation of national identity, the preservation of minority culture, and inter-relationships with other nationalities.

061 [006] First-Year Seminar: Southeast Asia in Global Prospective (3). The course will examine some of the principal themes that have informed Southeast Asian history and continue to shape the area today. Students will focus on the relationship between material forces – environmental and economic primarily – as well as social, political, and cultural developments.

062 [006] First-Year Seminar: Nations, Borders, and Identities (3). This seminar will explore the ways people have identified themselves in relation to specific places, nation-states, and foreign “others.” Examples may include the Kurdish nationalists, Islamist political parties, the Eritrean independence movement, and the Basque separatists.

063 [006] First-Year Seminar: Gender, War and Society (3). This course will explore the relationship between gender and war. It will start with a discussion of warrior culture in Western Europe but will focus on the United States, its participation in war, the training of its military, and the role played by civilians in the pursuit of wartime goals.

064 [006] First-Year Seminar: Gorbachev: The Collapse of the Soviet Empire and the Rise of the New Russia (3). This course will examine Mikhail Gorbachev and the astonishing transformations that took place while he was in power in the Soviet Union between 1985 and 1991. Students will explore post-Soviet Russia’s efforts at negotiating a new set of relations with the rest of the world and how post-Cold War Russia continues to shape our own destiny.
065 [0061] First-Year Seminar: Reliving Wartime: The Home Front Experience of British Society in the First and Second World Wars (3). This seminar explores comparatively the profound experiences of people in Britain during the two world wars of the 20th century. The major focus will therefore be not on military history, but on how men, women, and children lived and endured the ten years of unprecedented conflict that transformed their world and, in time, ours.

066 First-Year Seminar: Film and History in Europe and the United States, 1908-1968 (3). This course will examine major films in Europe and America from 1908-1968 in terms of how they shaped the medium and reflected important social trends.

067 First-Year Seminar: Life Histories from 20th-Century South Africa (3). This seminar introduces students to the history of 20th-century South Africa, including the rise and fall of apartheid, from the perspective of individual life histories.

068 First-Year Seminar: American Dreams: Histories of Experience and Explanation, 1620-1900 (3). In this seminar, through systematic discussion and dialogue, students will explore dreams, visions, and apparitions in American history from the early years of colonial contact to the emergence of modern psychology around 1900.

069 First-Year Seminar: Preservation and Persecution: Christian Antisemitism in the Middle Ages (3). This seminar will introduce students to the development of Christian antisemitism in Europe from around the first through the 15th centuries.

070 First-Year Seminar: The Cotton States Exposition and the New South (3). This first-year seminar will explore the world of the 1890s South through the lens of the Cotton States Exposition, which took place in Atlanta in 1895, with a particular focus on views toward race relations nationally and internationally.

071 [0061] First-Year Seminar: Film and Society in Europe and the United States (3). This course will examine how and why certain films in Europe and the United States helped to shape the medium itself at the same time they reflected broader aspects of historical change.

077 First-Year Seminar: Seeing the Past (3). This seminar will introduce students to practices of critical analysis that inform academic work in all the core humanistic disciplines: how do we ask analytical questions about texts, artwork, and other cultural artifacts that come down to us from the past or circulate in our own culture?

096 [014] Ancient History (3). A topical survey of the ancient world, especially the civilization of the Near East, Greece, and Rome.


110 [010] Introduction to the Cultures and Histories of Native North America (AMST 110) (3). An interdisciplinary introduction to Native American history and studies. The course uses history, literature, art, and cultural studies to study the Native American experience.

125 [360] The Social History of Popular Music in 20th-Century America (3). Explores the relationship between popular music and major developments in 20th-century America. The course's overarching focus is how popular music has simultaneously unified and divided the nation.

127 [021] American History to 1865 (3). A survey of various aspects of American development during the colonial, revolutionary, and national periods, with stress upon major themes and interpretations.

128 [022] American History since 1865 (3). A survey of various aspects of American development during a century of rapid industrial, social, political, and international change, with stress upon major themes and interpretations.

130 [020] Africa in the 20th Century: Transformations in Culture and Power (3). Using fiction, film, primary sources, and scholarly work, this course provides an overview of the major issues in 20th-century African history. Topics include colonialism and neocolonialism, social change, gender, and ethnicity.

131 [032A] Southeast Asia to the Early 19th Century (ASIA 131) (3). The history of Southeast Asia from prehistory to "high imperialism." Long-term political, economic, social, and religious developments, including Indianization, the impact of China, and the first contacts with Europeans.

132 [032B] Southeast Asia since the Early 19th Century (ASIA 132, PWAD 132) (3). Comparative colonialism, nationalism, revolution, and independence movements. Topics include: Indonesia and the Dutch, Indochina under French rule, United States involvement in the Philippines and Vietnam, communist and peasant movements, Cambodian revolution.

133 Introduction to Chinese History (ASIA 133) (3). Chinese history from its beginnings to the present, organized around the central theme of how the identity of China and "Chineseness" was created.

134 Modern East Asia (ASIA 134, PWAD 134) (3). Comparative and interdisciplinary introduction to China and Japan in the 19th and 20th centuries, focusing on impact of the West, nation building, industrialization, and evolution of mass society.

135 [035A] South Asian History to 1750 (ASIA 135) (3). Social, cultural, and political history of the south Asian subcontinent (popularly known as the Indian subcontinent), from classical times to the pivotal encounter with the British.

136 [035B] South Asian History since 1750 (ASIA 136) (3). Social, cultural, and political history of the south Asian (or Indian) subcontinent during and after British rule. Emphasis on encounter with Europe, colonialism, resistance struggles and independence, postcolonial order.

138 [036] Introduction to Islamic Civilization (ASIA 138) (3). A broad, comprehensive, and interdisciplinary introduction to the traditional civilization of the Muslim world.

139 Later Islamic Civilization and the Modern Muslim World (ASIA 139) (3). A broad interdisciplinary survey of the later Islamic empires since the 15th century and their successor societies in the modern Muslim world.

140 [018] The World Since 1945 (3). This introduction to the contemporary world examines the Cold War and its international aftermath, decolonization, national development across a variety of cases, and trends in the global economy.

142 [024] Latin America under Colonial Rule (3). Social and economic development under colonial rule, especially in Mexico and Peru.
143 [025] Latin America since Independence (3). A general introduction to Latin American society, culture, politics, and economics from a historical perspective. Focus will be on the events of the past two centuries.

151 [011] History of Western Civilization to 1650 (3). The emergence of western civilization from Greek antiquity to the mid-17th century.

152 [012] History of Western Civilization since 1650 (3). The development of western civilization from the middle of the 17th century to the present.

156 [027] English History to 1688 (3). Prehistoric and Roman Britain; Dark Age and medieval England; Reformation, founding of the colonies, revolutions scientific and political. An introductory survey for first-year students and sophomores.

157 [028] English History since 1688 (3). A general survey emphasizing the social, economic, political, and intellectual development of modern English society.

158 [016] Early Modern European History, 1450-1815 (3). Intellectual and social structures, dynamics of social and political change, principles of authority, and bases of revolution from the Reformation to the French Revolutionary and Napoleonic period.

159 [017] 20th-Century Europe (3). A critical overview of 20th-century European history, with particular attention to the constant ethnic, religious, social, economic, and cultural strugles (including Holocaust, Cold War) in various sub-units of the old continent.

161 [030] Russian History to 1861 (3). The major themes of this survey are: development of the unified, centralized state, the growth of serfdom, and the origins of the Russian revolutionary movement.

162 [031] History of Russia from 1861 to the Present (3). This course surveys fundamental issues affecting the Russian/Soviet/post-Soviet multinational empire in the last century and a half, emphasizing regime failures, revolutions, wars, and ethnic challenges.

176H [046H] Honors. Beyond North Atlantic World (3). Examines selected themes in the history of one or more nonwestern nations or regions of the third world. Theme(s) chosen by instructor. Possible subjects include: colonialism, resistance movements, religion, the family, economic transformations.

177H [047H] Honors Seminar in Early European History (3). Examines selected themes in the history of Europe from ancient to early modern times. Theme(s) chosen by instructor. Possible subjects: legacies of antiquity, philosophy and religion, feudal society, gender, and power.

178H [048H] Honors Seminar in Modern European History (3). Examines selected themes in the history of modern Europe. Theme(s) chosen by instructor. Possible subjects: effects of industrialism, nationalism, history of ideas, consumer society, modern revolutions, imperialism.

179H [049H] Honors Seminar in American History (3). Examines selected themes in American history. Theme(s) chosen by instructor. Possible subjects: colonial diversity, emerging nation, intellectual traditions, labor and capitalism, slavery and race relations, markets and political power, war and society.

187 [038] Arab Histories (ASIA 187, RELI 187) (3). Introduction to the sociocultural, political, economic, and religious history of the Arab Middle East. May include discussion of the meaning of Arab history to contemporary residents of the Middle East.

190 [099] Special Topics in History (3). Subject matter will vary with instructor but will focus on some particular topic or historical approach. Course description available from departmental office. Closed to graduate students.

196 [091A] Independent Studies in History (1-3). Permission required. Special reading and research, supervised by a member of the department in a selected field of history. Prior course work in the selected field is recommended.

198 [095] Topics in Comparative History (3). Each section of this course is taught jointly by two faculty. The subject matter varies with the instructors, but by definition comparative analysis forms a central feature.

202 Borders and Crossings (3). This course will examine how collective identities have been created, codified, and enforced; and explore possibilities for building bridges between groups in order to resolve conflicts.


212 [063A] History of Sea Power (PWAD 212) (3). The influence of sea power on international affairs will be surveyed from ancient times to the present. Emphasis on United States naval history and its interaction with diplomacy, economics, and technology.

213 [063B] Air Power and Modern Warfare (AERO 213, PWAD 213) (3). Examines air power theory and practice from 1914 to the present. Focuses on the application of air power as an instrument of war and the effectiveness of that application.

215 [089] Peace and War (PWAD 215) (3). The emphasis will be historical, with conceptual tools from other disciplines used when appropriate. Theoretical explanations, militarism, the international system, internal order, and the search for peace will be examined.

225 [052] History of Greece (3). A survey of Greek history and culture from the Bronze Age to the Hellenistic period.

226 [053] History of Rome (3). Origins to the first two centuries A.D. Focuses upon Rome's growth as a world power and the shift from republican government to autocracy.

227 Cathedral and Castle in Medieval England (3). An approach to the Middle Ages through the architectural masterpieces of medieval England.

231 [072A] Native American History: The East (AMST 231) (3). This course covers the histories of American Indians east of the Mississippi River and before 1840. The approach is ethnohistorical.

232 [072B] History of Native Americans in the Southeast (3). An examination of selected topics concerning the most significant Native American cultures and tribes in the southeastern United States from the earliest times to the present.


234 [072D] Native American Tribal Studies (AMST 234, ANTH 234) (3). This course introduces students to a tribally spe-
-specific body of knowledge. The tribal focus of the course and the instructor change from term to term.

235 [072E] Native America in the 20th Century (AMST 235) (3). This course deals with the political, economic, social, and cultural issues important to 20th-century Native Americans as they attempt to preserve tribalism in the modern world.

254 [468] War and Society in Early Modern Europe (PWAD 468) (3). A critical examination, from the Renaissance to the Napoleonic period, of the changes in European land and naval warfare and their impact on society and government.

255 Manor to Machine: The Economic Shaping of Europe. (3). From agriculture to industry, Europe's march to industrialization. Survey from the medieval manor through revival of trade, rise of towns, credit and capitalism, overseas expansion and mercantilism to the Industrial Revolution.

256 Origins of Modern Germany, 1356-1815 (3). A survey of Germany's political, social, and cultural history, including the Reformation and Counter Reformation, the Thirty Years' War, the development of the Prussian and Austrian states, and the Enlightenment.

257 [093] Society and Culture in Postwar Germany (GERM 257, POLI 257, SOCI 257) (3). See GERM 257.


259 [059] Women in Europe since 1750 (WMST 259) (3). The impact of industrialization on woman's work, her position in the family, her role and social status during the 19th and 20th centuries.

260 [060] Eastern Europe since 1780 (3). A study in the emergence of nations of Eastern Europe, their internal development, mutual conflicts, and struggle for independence.

262 [050] History of the Holocaust: The Destruction of the European Jews (JWST 262, PWAD 262) (3). Antisemitism; the Jews of Europe; the Hitler dictatorship; evolution of Nazi Jewish policy from persecution to the Final Solution; Jewish response; collaborators, bystanders, and rescuers; aftermath.

263 Military, War and Gender in Movies (3). The course examines the interrelations between changes in warfare, the military system, and the gender order in Europe from medieval to modern time, and its reflection in international movies.

264 [061] Women in Russian and Soviet History, 1860-Present (WMST 264) (3). This course traces the development of the woman question in tsarist Russia, how the Soviet regime affected women's lives, and how women's experiences compare to the Communist Party's claim of equality.

268 WAR, Revolution and Culture: Transatlantic Perspectives, 1750-1850 (3). The course explores the dramatic historical changes between 1750 to 1850 and their intersection with and reflection in arts, literature and music in a transatlantic perspective.

275 [077C] History of Iraq (ASIA 275, PWAD 275) (3). History of Iraq from ancient times to the present.

276 [077A] The Modern Middle East (ASIA 276) (3). This course introduces students to the recent history of the Middle East, including a comparison of the Middle East to the United States.

277 [077B] The Conflict over Israel/Palestine (PWAD 277) (3). Explores the conflict over Palestine during the last 100 years. Surveys the development of competing nationalisms, the contest for resources and political control that led to the partition of the region, the war that established a Jewish state, and the subsequent struggles between conflicting groups for land and independence. Examines the wide variety of perspectives held by participants in the region and by observers in Europe and the United States. Explores a variety of proposed resolutions to this conflict and pays particular attention to the wall/fence currently under construction.


279 [082] Modern South Africa (3). This course covers the modern history of South Africa, from the industrial revolution of the late 19th century to the fall of apartheid in 1994.

280 [080] Women and Gender in Latin American History (WMST 280) (3). Examines the experiences of women and gender relations in Latin American societies from pre-Columbian times to the present, providing a new perspective on the region's historical development.

281 [081] The Pacific War, 1937-1945: Its Causes and Legacy (ASIA 281, PWAD 281) (3). An examination of the origins of the Pacific War, the course of this bitter and momentous conflict, and its complex legacy for both Asia and the United States.

282 [083] China in the World (ASIA 282, INTS 282) (3). This course explores the evolution of China as a geopolitical entity from global perspectives, 1350 to the present.

283 [084] Revolutionary Change in Contemporary China (ASIA 283) (3). Political and economic reconstruction in China since 1949, the transition to a post-Mao order, and life and society in China today.

286 [085] Samurai, Peasant, Merchant, and Outcaste: Japan under the Tokugawa, 1550-1850 (ASIA 286). Japanese society in the last great age of samurai rule. From small villages to the largest cities of the pre-industrial world, students explore the realities of life for "traditional" Japan.

287 [087] Japan's Modern Revolution (ASIA 287) (3). Covering the period from 1600 to 1900, this course examines the causes and impact of the Meiji Restoration of 1868 which marked the start of modern Japan.

288 [088] Japan in the 20th Century (ASIA 288) (3). Topics include the Japanese Empire, the road to the Pacific War, defeat, the Allied occupation, Japan's recovery from war, and development into a democracy and the world's second largest economy.

290 [096] Historical Problems (3). This is an intensive readings course designed to introduce students to ongoing debates in the historical profession. Specific debate and theme to be chosen by instructor.

291 [097] Putting Literature and History in Dialogue (3). Dialogues between historiographic and fictional treatments of important historical problems. Explores works of history and literature to determine how different genres of writing give meaning to the past.
292 [190] Special Topics in History (3). Subject matter will vary with instructor but will focus on some particular topic or historical approach. Course description available from departmental office. Closed to graduate students.

293 [198] Topics in Comparative History (3). Each section of this course is taught jointly by two faculty. The subject matter varies with the instructors and the topic but by definition comparative analysis forms a central feature.

296 [196] Independent Studies in History (1-3). Permission required. Special reading and research, supervised by a member of the department, in a selected field of history. Prior course work in the selected field is recommended.

297 [296] Internship in History (1-3). Permission required. A supervised internship at an organization or institution engaged in the promotion of historical studies or the collection and preservation of historical documents and artifacts.

358 American Sexualities (3). An introduction to the history of sexuality in North America from the colonial period to the Sexual Revolution, this course critically examines such issues as regulation, reproduction, reform, and identity.

360 [023] The Social History of Popular Music in 20th-Century America (3). Explores the relationship between popular music and major developments in 20th-century America. The course’s overarching focus is how popular music has simultaneously unified and divided the nation.

362 Women in American History (WMST 362) (3). Women’s roles and contributions from the colonial period to the present. Themes include the family and sexuality, the impact of industrialization, reform movements, and differences of race, class, and region.

364 History of American Business (MNGT 364) (3). A survey of the rise and development of the major financial, commercial, manufacturing, and transportation enterprises that transformed the United States from an agricultural into a leading industrial nation.

365 The Worker and American Life (MNGT 365) (3). From the experience of colonial artisans to contemporary factory and office workers, organized and unorganized, this course examines the effect of the industrial revolution on the American social and political landscape.

366 [066] North Carolina History before 1865 (3). The history of North Carolina from the original Indian cultures to the end of the Civil War. Important topics include colonization, the American Revolution, evangelical religion, slavery, economic and political reform, the rise of sectionalism, and the Civil War.

367 [067] North Carolina History since 1865 (3). The history of North Carolina from the end of the Civil War to the present. Important topics include Reconstruction, agrarian protests, disfranchisement and segregation, industrialization and workers’ experience, the civil rights movement, and 20th-century politics.

368 [068] War and American Society to 1903 (PWAD 368) (3). The American military experience from colonial times to the early 20th century. Major themes include the problem of security, the development of military policies and institutions, and the way in which the country waged and experienced war.

369 [069] War and American Society, 1903 to the Present (PWAD 369) (3). Survey of America’s military experience in the 20th century, focusing on national security policy, military institutions, World Wars I and II, the Cold War, the Korean and Vietnam Wars, and recent interventions.


374 [074] The American West, 1800 to the Present (3). A survey and interpretation of the American West in the nineteenth and twentieth centuries, emphasizing the special role of the West in the evolution of American history and the development of contemporary American society.

375 [075] History of Gender in America (WMST 375) (3). See WMST 375.

376 [076A] History of African Americans to 1865 (3). Survey of African American history to abolition of slavery in North America with some attention to experiences of people of African descent in Latin America and the Caribbean.

377 History of African Americans, 1865 to Present (3). Survey of African-American history since emancipation in North America with some attention to experiences of people of African descent in Latin America and the Caribbean.

378 Slavery and Place: The South Carolina Case (3). This Maymester three-week course will examine slavery in the American South by focusing on slavery in South Carolina both on large plantations and in the urban setting of Charleston.

391 [090E] Undergraduate Seminar in History (Europe) (3). Prerequisite, permission to register from the undergraduate secretary in HM 556; the course is in general limited to fifteen students. The subject matter will vary with the instructor. Each course will concern itself with a study in depth of some problem in modern European history.

392 [090M] Undergraduate Seminar in History (Ancient/Medieval) (3). Prerequisite, permission to register from the undergraduate secretary in HM 556; the course is in general limited to fifteen students. The subject matter will vary with the instructor. Each course will concern itself with a study in depth of some problem in ancient/medieval history.

393 [090N] Undergraduate Seminar in History (Third World/Non-Western) (3). Prerequisite, permission to register from the undergraduate secretary in HM 556; the course is in general limited to fifteen students. The subject matter will vary with the instructor. Each course will concern itself with a study in depth of some problem in Third World/non-Western history.

394 [090T] Undergraduate Seminar in History (Global) (3). Prerequisite, permission to register from the undergraduate secretary in HM 556; the course is in general limited to fifteen students. The subject matter will vary with the instructor. Each course will concern itself with a study in depth of some problem in history with a global emphasis.

395 [090U] Undergraduate Seminar in History (United States) (3). Prerequisite, permission to register from the undergrad-
quate secretary in HM 556; the course is in general limited to fifteen students. The subject matter will vary with the instructor. Each course will concern itself with a study in depth of some problem in American history.

397 [090Z] Undergraduate Seminar in History (Topic Varies) (3). Prerequisite, permission to register from the undergraduate secretary in HM 556; the course is in general limited to fifteen students. The subject matter will vary with the instructor. Each course will concern itself with a study in depth of some problem in history.

421 [101] Alexander (PWAD 421) (3). The rise of Macedonia; the careers of Philip II and Alexander (with emphasis on the latter's campaigns); the emerging Hellenistic Age. The course integrates computer (including Web site) and audiovisual materials throughout.

422 [102A] Ancient Greek Warfare (PWAD 422) (3). War and the warrior in the archaic and classical Greek world, seventh to the fourth centuries B.C.


424 [102C] Ancient Athens (3). The life and times of the ancient Athenians from the sixth to fourth centuries B.C. HIST 225 strongly recommended.

425 [103] Roman History, 154 B.C.-14 A.D. (3). Explores the transition from Republic to Principate. Conducted in considerable part by student reports and classroom discussions.

427 [104A] The Early Roman Empire, 14 A.D.-193 A.D. (3). Focuses upon administrative, social, and economic themes. Conducted in considerable part by student reports and classroom discussions.


431 The Medieval Church (3). The nature and workings of the Western church between roughly 600 and 1300. Emphasis on the church "from within," organization, missionary strategies, liturgy, monasticism, popular religion.

433 [133] English Society, 1200-1700 (3). Examines critical issues in the development of English society and economy in the centuries before industrialization.


435 [110] The Medieval University (3). The origins and development of the university during the period 1100-1400; types of organization, curricula and degrees, intellectual life, town-grown and student-master relationships.

451 [111] Women and Men in the Renaissance (3). Gender roles and relationships in Europe, 1350-1550: Renaissance state and domestic patriarchy; marriage, sexuality, and religious change; new ideas about sex and gender; economic change and domestic roles.


453 [113] Mediterranean Societies and Economics in the Renaissance World (3). A picture of Mediterranean social and economic life 1300-1600, with special focus on rural and urban society, family structure, patronage, work and wages, public and private finance.

454 The Reformation (3). Examines a movement of religious reform that shattered Latin Christendom and contributed much of the conditions of early modern Europe. Emphasizes religious, political, social.

455 [115] Europe in the 17th Century (3). The century marks the watershed in European development. Emphases: statecraft, the emerging state-system, the new scientific world view, the evolution of European society.

456 [116] 18th-Century France (3). This course examines the Age of Enlightenment in France (1660-1787). The ideas of the "philosophes" will be placed in a broad social, political, and international context.


458 [119] Europe and the World Wars, 1914-1945 (3). Europe and the experience of total war, with special focus on national conflicts; ideological conflicts among fascism, communism, and liberalism; and the dictatorships of Hitler and Stalin.

459 [120A] France, 1337-1715 (3). This course covers the social, political, and cultural history of France from the later Middle Ages to 1715. The monarchy's evolution from near extinction to "absolutism" provides the main storyline.

460 Late Medieval and Reformation Germany (3). Examines the major late medieval religious, social, and political developments plus the Reformation and Counter-Reformation. Topics include Luther's theology, the German Peasants War, Jewish-Christian relations, witch-hunting, and family life.

461 Early Modern Germany, 1600-1815 (3). Examines major political, social, and cultural developments. Topics include the growth of absolutist government, Prussia's militarism and rivalry with Austria, German Jewry, Baroque music, the Enlightenment, and the Napoleonic wars.

462 [122] Germany, 1815-1918 (3). The nature of Prussian society, the rivalry between Russia and Austria for the command of German affairs, and the quality of Prussian leadership in the German Empire of 1871.

463 [123] History of Germany since 1918 (3). Politics and culture in the Weimar Republic, Nazi totalitarianism, and the shaping of East and West Germany since World War II.

464 [124] History of Spain (3). A survey of Spanish history from the Islamic invasion to Napoleon. Particular attention will be given to the period of the Hapsburgs, 1516-1700.

465 [125] Intellectual History of Europe, Early Period (3). The course examines the gradual erosion of atradition within the classical Christian tradition that led to the emergence of a new mentality by the end of the 17th century. Two lectures, one discussion per week.
466 [126] Modern European Intellectual History (3). The main developments in European thought from the Enlightenment to the 20th century, with some attention to social context. Readings include Voltaire, Rousseau, Hegel, Marx, Tocqueville, Sand, Flaubert, Nietzsche, Freud.

467 [127A] Society and Family in Early Modern Europe (3). A survey of changes in social organization, family life, courtship practices, sexual behavior, and the relations between the economy and population that occurred in preindustrial Europe, 1500-1815.

468 [127B] War and Society in Early Modern Europe (PWAD 468) (3). A critical examination, from the Renaissance to the Napoleonic period, of the changes in European land and naval warfare and their impact on society and government.

469 [128] European Social History, 1815-1970 (3). The social transformation of Europe from agrarian through postindustrial society, discussing population growth, family history, spread of education, class structure, social conflict, group ideologies, and mass politics, as well as everyday lives and popular lifestyles.

470 [129] The Scientific Revolution (3). Traces the creation of scientific thought 1500-1700, from Leonardo to Newton, examining the various strands - Greek science, art, engineering, experimentation, occultism, etc. - woven into it.

471 [130] History of Science from Newton to Einstein (3). A survey of the development since 1700 of the various branches of physical and biological science, culminating in the 20th-century revolution in physics.

472 [131] Medicine and Health in Early Modern Europe (3). Shows how the age of Shakespeare and Newton (sixteenth- to 17th-century England) fused old and new ideas about medicine and health, anticipating some of our own beliefs and practices.

473 [135] Tudor and Stuart England, 1485-1660 (3). A lecture course, open to juniors, seniors, and graduate students.

474 [137] Great Britain in the 19th Century, 1815-1901 (3). Emphasizes the social and economic foundations of the political, intellectual, religious, and cultural history of Victorian Britain.

475 [138] Great Britain in the 20th Century (3). Explores the economic and social foundations of British political, intellectual, and cultural history from 1901 to the present.

476 [184] Russia and the West in the 18th Century (3). A comparative approach. Centering on Russia’s contacts with the West, the resulting interaction, and the efforts of Russians to define the unique nature of their own society.

477 [186A] Revolution in Russia, 1900-1930 (3). A close study of Russia’s age of revolution from the reign of the last tsar to the turbulent Stalin Revolution of 1929, with emphasis on the revolutions of 1917.

478 [186B] Stalin and After: The USSR, 1929-Present (3). An in-depth examination of Soviet and post-Soviet history from 1929 to the present.

479 [079] History of Female Sexualities in the West (WMST 479) (3). Spanning the ancient, medieval, and modern West, this course explores normative and non-normative female sexualities, ideas about female bodies, and the regulation of female sexuality by families, religions, and states.

480 [185] Russia, 1796-1917 (3). The diplomatic, military, and ideological confrontations with the West; the decline and fall of the Russian autocracy; the evolution of reform thought; and revolutionary opposition.

481 [190] Eastern Europe since World War II (3). An examination of the countries of Eastern Europe, their origins and development since World War II, their cohesion and conflict.

482 [105] Russia, Eurasian Empire (3). This course examines the development of the Russian Empire, from the Mongol conquest in the 13th century to the transformation of Imperial Russia in the Soviet Union after 1917.

490 [100] Special Topics in History (3). Subject matter will vary with instructor but will focus on some particular topic or historical approach. Course description available from departmental office.

500 Gender and Nation in Europe and Beyond, from the 18th to the 20th Century (WMST 500). The course explores the growing body of research on gender and nation/nationalism by focusing on problems of national belongings, citizenship, state and nation formation, and national iconography.

501 Gender of Welfare (WMST 504). An interdisciplinary examination of issues pertaining to gender and welfare, such as the sexual division of labor and social policy, the work-family balance, and social citizenship in a transnational perspective.

504 [109] African Intellectual History. This course traces Africa’s modern intellectual history, exploring such topics as Africa’s place in history, African nationalism, pan-Africanism, the problem of colonialism, and the meaning of progress.

513 [140] Imperialism and the Third World (3). This course explores the processes by which 19th-century imperialism set the contours of the modern world, establishing relations among societies and reconfiguring both colonial cultures and European cultures.


515 [143] History of Socialist Thought (3). An examination of the origins and development of Marxist ideas and their application to specific historical conditions: in Germany, Russia, China, Algeria, Cuba, and modern industrial society.

516 Historical Time (3). This course explores the ways in which western historians and other students of the past from Adam Ferguson to Stephen Jay Gould have conceptualized and packaged historical time.

530 [175] History of Mexico (3). Topical approach to the history of Mexico, from pre-Columbian civilizations through the Spanish conquest and colonial system. Emphasis will be given to the nineteenth and twentieth centuries.

531 [176A] History of the Caribbean (3). Thematic approach to the history of the West Indies, with emphasis on the period from European conquest through the 20th century. Topics include colonialism, slavery, monoculture, U.S.-Caribbean relations, and decolonization.

532 [176B] History of Cuba (3). Thematic approach to Cuban history, from conquest to the revolution. Attention is given to socio-
economic developments, slavery and race relations, the 19th-century independence process, and the 20th-century republic.

533 [177] History of Brazil (3). This course is concerned primarily with the creation of a new society through race mixture and culture change, and with the political and economic development of Brazil.

534 [180] The African Diaspora (3). A comparative examination of the movements, experiences, and contributions of Africans and people of African decent from the period of the Atlantic slave trade to the present.

535 [182] Women and Gender in African History (AFRI 535) (3). Analysis of historical transformations in Africa and their effects on women's lives and gender relations. Particular themes include precolonial societies, colonialism, religious change, urban labor, nationalism, and sexuality.

536 [196] Revolution in the Modern Middle East (ASIA 536) (3). This course will focus on revolutionary change in the Middle East during the last century, emphasizing internal social, economic, and political conditions as well as international contexts.

537 [195] Women in the Middle East (ASIA 537, WMST 537) (3). Explores the lives of women in the Middle East and how they have changed over time. Focus will change each year.

538 [197] The Middle East and the West (ASIA 538) (3). This course explores changing interactions between the Middle East and the West, including trade, warfare, scientific exchange, and imperialism, and ends with an analysis of contemporary relations in light of the legacy of the past.

539 [192] The Economic History of Southeast Asia (ASIA 539) (3). This course is intended as a broad overview of Southeast Asian economic history from premodern times to the present day.

540 [109] African Intellectual History (3). This course traces Africa's modern intellectual history, exploring such topics as Africa's place in history, African nationalism, Pan-Africanism, the problem of colonialism, and the meaning of progress.

561 [145] The American Colonial Experience (3). Major topics: European reconnaissance; founding of new societies; character and structure of institutions; thought and feeling from Cotton to Franklin; privilege and cost of empire.

562 [173] Oral History and Performance (COMM 562, FOLK 562, WMST 562) (3). This course will combine readings and field work in oral history with study of performance as a means of interpreting and conveying oral history texts. Emphasis on women's history.

563 [147] Jacksonian America, 1815-1848 (3). The society and politics of the United States during the period dominated by President Andrew Jackson. Topics include economic development, the expansion of slavery, religion and reform, the changing roles of women, and the political movements associated with “Jacksonian democracy.”

564 [146] Revolution and Nation Making in America, 1763-1815 (PWAD 564) (3). Major topics: constitutional conflict in the British empire; independence and war; Confederation and Constitution; growth of political parties and nationality in a period of domestic change and international conflict.

565 [148] Civil War and Reconstruction, 1848-1900 (PWAD 565) (3). Focus is on causes, nature, and consequences of the Civil War.

566 [149] The History of Sexuality in America (3). A history of the sexual practices, desires, and understandings of Americans, from earliest colonial encounters to the late 20th century.


569 African American Women's History (AFAM 569, WMST 569) (3). The course covers the history of black women in the United States from the 18th century to the present. It deals with such themes as work, family, community, sexuality, politics, religion, and culture.

570 The Vietnam War (ASIA 570, PWAD 570) (3). A wide-ranging exploration of America's longest war - from 19th-century origins to 1990s legacies, from village battlegrounds to the Cold War context, from national leadership to popular participation and impact.

571 [142] Southern Music (FOLK 571) (3). Explores the history of music in the American South from its roots to 20th-century musical forms, revealing how music serves as a window on the region's history and culture.

573 [159] Public Religion in U.S. History (3). Prerequisite, introductory history or religious studies course. A study of public religion in U.S. history, including the relations of religion and government, the idea of American exceptionalism and destiny, the role of religious movements.

574 [144] Spanish Borderlands in North America (3). The history of the Spanish colonial experience north of Mexico, to 1820.

576 [153] The Ethnography of Native American Women (WMST 576) (3). Introduces students to the study of Native American women through the perspectives of anthropology, history, and autobiography.

577 [152] United States Foreign Relations in the 20th Century (PWAD 577) (3). How the United States came to occupy a leading role in world affairs as a diplomatic, military, economic, and cultural power and what that role has meant to Americans and to other peoples, especially during the Cold War.

579 [156] Popular Culture and American History (3). Study of the popular arts and entertainments of the nineteenth and twentieth centuries and the ways in which they illuminate the values, assumptions, aspirations, and fears of American society.

580 [150] United States History since 1945 (3). Diverse developments as interpreted within the framework of certain broad and open-ended themes: particularly individual freedom, social welfare, mass culture, and community.

581 [157] American Constitutional History to 1876 (3). In a classroom environment characterized by discussion, simulation, and interaction, the antecedents, formation, and interpretation of the Constitution are confronted in a broad historical matrix.

582 [158] American Constitutional History since 1876 (3). Using a classroom environment similar to HIST 581, constitutional adjustments and change are related to psychological, political, social, and economic factors, and to Supreme Court members.

586 [163] The Old South (3). Economic, cultural, and social history of the antebellum South. The region's political history will serve as a supporting part of the study.

587 [164] The South since Reconstruction (3). A survey of the South during the past 100 years, covering developments in politics, economics, culture, and society. Course begins at the end of Reconstruction.

588 [167] White Culture and Race Relations in the South (3). This course describes and analyzes the evolution of Southern white culture with emphasis on the years since 1831. It describes Southern white culture as the result of the black presence.

589 Race, Racism, and America: (U.S.) Law in Historical Perspective (3). This course will historically and critically examine the changing legal status of people of color in the United States. Within a broad historical matrix from the colonial era to the present, it will focus on African Americans, Native Americans, Asian Americans, Latina/os, and U.S. law.

621 [171] Religious History of the South (3). A historical analysis of the religious life of Southerners from the Great Awakening to the present with an emphasis on how religion, social institutions, and cultural practices interact. HIST 127, 128, or 140 recommended.

622 [172] Medicine and Society in America (3). A survey of major developments in the history of American medicine. Emphasis will be placed upon setting the practice of medicine as well as the experience of health and disease into broad social, cultural, and political contexts.


625 [161] Technology and American Culture (3). Technology's impact on American thought and society and the response it has engendered. Topics will include: the factory town; search for utopia; impact of Henry Ford; war; and depersonalization.

670 [170] Introduction to Oral History (FOLK 670) (3). Introduces students to the uses of interviews in historical research. Questions of ethics, interpretation, and the construction of memory will be explored, and interviewing skills will be developed through field work.

691H [098A] Honors in History (3). Prerequisite, permission of instructor. Introduction to the methods of historical research, designed to lead to the completion of an honors essay.

692H [098B] Honors in History (3). Prerequisite, permission of instructor. Introduction to the methods of historical research, designed to lead to the completion of an honors essay.

697 [094A] Myth and History (3). Myths and legends are the stuff of history. An interdisciplinary capstone course treating topics such as Alexander the Great and George Washington as mytho-historical heroes; the Holy Grail; and uses of myth in the modern world.

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**Interdisciplinary Studies**

**JAY M. SMITH, Associate Dean for Undergraduate Curricula**

**Introduction**

Students interested in an interdisciplinary degree program not covered by any degree-granting department or curriculum should apply to the associate dean for undergraduate curricula, who also serves as the director of interdisciplinary studies, in 306 Steele in the second week of the sophomore year or the first semester of the junior year. An IDST major has more focus than many of the more traditional majors and therefore should not be seen as a default major for someone undecided about his or her course of study. The IDST major must be well-conceived but substantially different from majors that students pursue through traditional departments, programs, and curricula. Students should have a grade point average of at least 2.800 and at least 45 hours left before graduation. Students are encouraged to meet all of the General Education Foundations and Approaches requirements before pursuing the interdisciplinary major.

In the past, students have designed their own majors in such varied fields as medieval studies, arts management, medical geography, folklore, and urban studies.

**Program of Study**

The degree offered is bachelor of arts in interdisciplinary studies. Information about the major in cultural studies, offered through interdisciplinary studies, is contained under that heading.

**Majoring in Interdisciplinary Studies: Bachelor of Arts**

Two kinds of majors are offered under the heading of interdisciplinary studies (IDST): Students interested in pursuing an interdisciplinary major in cultural studies should contact the office of the University Program in Cultural Studies in 111 Bingham Hall. The other type of IDST major, designed by the student and the IDST advisor (the associate dean for undergraduate curricula), is for students who wish to develop a major outside of those offered by the College of Arts and Sciences departments and curricula. The degree program consists of eight core courses, which must be chosen from three departments (with a maximum of four courses from any one department) and which must be appropriate for juniors and seniors majoring in those departments. The core courses should also form a coherent major to which the student is able to assign a title. Additionally, students are encouraged to select electives and General Education courses that complement these eight core courses.

With permission of the relevant professorial school, one may use up to 12 hours of professional courses (e.g., in business administration, journalism and mass communication, public health, education) in the core. This can be advantageous to students who want some concentration in these areas but who also want a degree in arts and sciences.

**Honors in Interdisciplinary Studies**

Qualified students may pursue honors through one of the departments or curricula included in their major core.
Special Opportunities in Interdisciplinary Studies

Undergraduate Research

To enhance job placement, IDST students participate in the undergraduate research opportunities available in the departments and curricula that constitute their program of study and sometimes complete an internship either in the summer or during the academic year.

Graduate School and Career Opportunities

Since IDST can provide a broad background in the liberal arts, graduate study in a number of academic disciplines is possible. Students are encouraged to contact the graduate or professional school to which they wish to gain admission to determine the specific undergraduate academic requirements necessary for admission. An IDST major is generally not recommended for students planning graduate study in the sciences.

Career opportunities for IDST are as varied as the reasons students give for selecting the major. IDST students sometimes complete an internship either in the summer or academic year.

Contact Information

Jay M. Smith, Associate Dean for Undergraduate Curricula, 300 Steele Building. For information about the interdisciplinary studies major in cultural studies, contact the University Program in Cultural Studies in 111 Bingham Hall.

Curriculum in International and Area Studies

www.global.unc.edu/ints

ADAM VERSÉNYI, Chair
Jonathan Weiler, Director of Undergraduate Studies

Adjunct Professors
John Pickles, Earl N. Phillips Distinguished Professor of International Studies, Liesbet Hooghe, Robert Jenkins, William Itoh, Robert Miles.

Adjunct Associate Professors
Sahe Arner, Eric Mlyn, Andrew Reynolds, Michael Tsin, Milada Vachudova.

Adjunct Assistant Professors
Chad Bryant, Mark Driscoll, Banu Gokariksel, Matthew Hull, Christopher Nelson, Graeme Robertson, Eunice Sahle, Mark Sorensen, Niklaus Steiner, Jonathan Weiler.

Professor Emeritus
Steven I. Levine.

Introduction

Globalization of the economy, cross-cultural relations, international media, ecological crises, and political transformations are all making international studies more important today. The Curriculum in International and Area Studies offers an interdisciplinary program of study focusing on these and many other issues. It draws on courses throughout the social sciences and humanities, and offers students the chance to concentrate on an area of the world and a theme of global significance.

Students prepare for careers in business, diplomacy, international aid, economic development, and other forms of public service. The international studies major is also excellent preparation for graduate school in one of the social sciences, in professions such as law, business, and journalism, or in international affairs and area studies. About 300 juniors and seniors major in international studies.

Program of Study

The degree offered is bachelor of arts in international and area studies.

Majoring in International and Area Studies: Bachelor of Arts

Students entering the University of North Carolina at Chapel Hill in fall 2007 or later:

International studies (INTS) majors must complete all requirements of the General College. They must also earn credit for six levels of modern language study. Students may choose six levels of one language or four levels of one language and two of another. The primary language must be relevant to the declared world area concentration (see below). Of the six required levels of language, at least three must be satisfied at UNC-Chapel Hill or as part of a UNC-approved study abroad program.

In addition to foreign language, international studies majors must take a total of ten courses. All majors are required to take INTS 210 as the gateway core course. Of the remaining nine elective courses, two are core courses representing a variety of disciplinary approaches to international and global issues. The two core courses must not come from the same academic department. The other seven courses comprise the student’s concentration in a theme and an area of the world. Of these seven courses, five must be above the survey level (courses numbered 200 and above). For the thematic requirement, students will select four courses that explore one of the four thematic concentrations: 1) international politics, nation-states, social movements; 2) global economics, trade, development; 3) global health and environment; and 4) transnational cultures, identities, arts. In addition, three courses are required that are substantially grounded in a world area, exemplifying the transnational issues explored in the chosen theme. The world areas are: Africa, Asia, Latin America, Middle East, Western Europe and the European Union, and Russia and Eastern Europe. All courses counted toward the major must have a substantially contemporary focus.

Students entering the University of North Carolina at Chapel Hill prior to fall 2007:

International studies (INTS) majors must complete all requirements of the General College. They must also earn credit for six levels of modern language study. Students may choose six levels of one language or four levels of one language and two of another. The primary language must be relevant to the declared world area concentration (see below).

In addition to foreign language, international studies majors must take a total of ten courses. All majors are required to take INTS 210 as the gateway core course. Of the remaining nine elective courses, three are core courses representing a variety of disciplinary approaches to international and global issues. The three core courses must each come from different academic departments. The other six courses comprise the student’s concentration in either area studies or international studies. Of these six courses, four must be above the survey level (courses numbered 200 and above).

A. The student who concentrates in international studies will select four courses that explore one of the four thematic concentrations:
1) international politics, nation states, social movements; 2) glob-
al economics, trade, development; 3) global health and environment (available only to students declaring the major fall 2007 or later); and 4) transnational cultures, identities, arts. In addition, two courses are required that are substantially grounded in a world area (see B, below), exemplifying the transnational issues explored in the international theme.

B. The student who concentrates in area studies will select four courses that focus on a single world area. The world areas are: Africa, Asia, Latin America, Middle East, Western Europe and the European Union, and Russia and Eastern Europe. In addition, two courses are required in one of the four thematic concentrations (see A, above) in order to contextualize the student's area-based knowledge. All courses counted toward the major must have a substantially contemporary focus.

The curriculum urges that in addition to fulfilling requirements, INTS students continue the study of a foreign language to a level as close as possible to fluency. All INTS students should also make every effort to include a study abroad program in their undergraduate education, preferably in their sophomore or junior year.

No courses fulfilling major requirements may be taken pass/fail.

Honors in International and Area Studies
Honors study involves the completion of a substantial piece of original research and the formal presentation of the results in an honors thesis and oral defense. Those who successfully complete the program are awarded their B.A. with either honors or highest honors in international studies. Students who wish to submit a thesis for honors in international studies must enroll in INTS 691H and INTS 692H during their senior year. INTS 692H may count as one of the ten required courses for the major. INTS 691H will count as elective credit only. Prospective honors students must submit a two-to-three-page prospectus outlining their project in the spring of their junior year.

Special Opportunities in International and Area Studies

Experiential Education
In conjunction with the University Center for International Studies, the Curriculum in International and Area Studies offers a one-credit APPLES service learning course (INTS 290) in international education in K-12 classrooms. International studies majors may also pursue internships toward major credit through a variety of organizations. Check the curriculum’s Web site, www.global.unc.edu/ints, for procedures.

Study Abroad (recommended, but optional)
International studies majors are strongly urged to gain experiential knowledge of the countries and thematic concerns they are studying through participation in an approved study abroad program appropriate to their areas of concentration. Every effort will be made by the curriculum to integrate study abroad courses into the major. Students must receive course approval from the director of undergraduate studies of the CIAS major prior to departure for a program abroad. No credit will be given unless programs are pre-approved.

Undergraduate Awards
All majors in the Curriculum in International and Area Studies who study abroad are considered for two study abroad awards that are presented each year. These funds may be used to defray any expenses associated with studying abroad.

The Michael L. and Matthew L. Boyatt Award Fund provides several meritious awards each year, of no more than $2,500 each. They are designated for majors who want to participate in a study abroad program pertinent to their area of concentration within international studies.

The Laura Hudson Richards Fund provides one award of $2,500 each year to a major in the Curriculum in International and Area Studies who demonstrates both academic excellence and financial need.

Each spring, the curriculum awards the Douglas Eyre Prize in International and Area Studies to the student writing the best honors thesis.

Graduate School and Career Opportunities
International studies majors are prepared for careers in business, diplomacy, international aid and economic development, and other forms of public service. The INTS major is also excellent preparation for graduate school in one of the social sciences, in professions such as law, business or journalism, or in international affairs and area studies. Career resources are available on the curriculum’s Web site, www.global.unc.edu/ints.

Contact Information
Questions should be directed to the FedEx Global Education Center, Room 2202, CB# 3263, (919) 962-5442, or to an international studies advisor in the College of Arts and Sciences and the General College.

INTS
192 [046] Contemporary Middle East (ASIA 192, RELI 192) (3). See RELI 192 course description.
196 [099] Independent Study (1-12). Prerequisite, permission of instructor and advisor. Reading and research on special topics in international studies.
210 [077] Global Issues in the 20th Century (ANTH 210, GEOG 210, HIST 210, POLI 210) (3). Survey of international social, political, and cultural patterns in selected societies of Africa, Asia, America, and Europe, stressing comparative analysis of 20th-century conflicts and change in different historical contexts. LAC recitation sections offered in French, German, and Spanish.
249 [083] Immigration Policy (PLCY 249) (3). See PLCY 249 for course description.
252 [062] Pop Culture/Modern Southeast Asia (ASIA 252, CMPL 252) (3). See ASIA 252 for course description.
265 [082] Literature and Theories of Race and Ethnicity (ENGL 265) (3). Considers texts in a comparative ethnic/race studies framework and examines how these texts explore historical
and contemporary connections between groups of people in the United States and the Americas. This course is not included on the list of approved courses for the major.


290 Current Topics in International and Area Studies (0.5-21). An interdisciplinary approach to the study of the background, current status, and future prospects for one of a series of global issues, such as the nuclear age, the environment, technological transition.

300 [030] Advanced Expository Writing (Interdisciplinary) (3). See ENGL 300 for course description.


320 [120] Anthropology of Development (ANTH 320) (3). Critical exploration of current debates in the anthropology of Third World development, the production of global inequality, and the construction of parts of the world as underdeveloped through discourses and practices of development.


376 [076] Colonial East Asia/Postcolonial Japan (JAPN 376) (3). Focusing on literary, philosophical, and media works, this course will first examine Japanese colonialism from 1895 to 1940 and then the postcolonial effects of that colonialism within Japan after 1945.

380 [080] Social Theory and Cultural Diversity (3). Introduction to basic paradigms of thinking about cultural difference (race, gender, nationality, religion, etc.), encouraging students to examine how those paradigms shape how we act, think, and imagine as members of diverse cultures.


390 [199] Current Topics in International and Area Studies (3). Topics vary from semester to semester.

393 [93] Great Decisions (1). Eight evening guest lectures, with a discussion session after each, on eight issues in current foreign policy. May be repeated for credit.

394 [094] Great Decisions and International Relations (3). Pre- or corequisite, INTS 393. This course links the Great Decisions lecture series with readings and analyses of international relations. Its purpose is to provide the students on the Great Decisions coordinating committee with a practical and intellectual engagement with U.S. foreign policy and global issues.

405 [103] Comparative Political Economics of Development (3). Political, economic dynamics of selected countries in Asia, Latin America, Caribbean, and Africa.


410 [102] Comparative Queer Politics (WMST 410) (3). See WMST 410 for course description.


438 [116] Undivided Europe (POLI 438) (3). See POLI 438 for course description.

447 [147] Gender, Space, and Place in the Middle East (ASIA 447, GEOG 447) (3). See GEOG 447 for course description.

448 [148] Transnational Geographies of Muslim Societies (GEOG 448) (3). See GEOG 448 for course description.

451 [140] Orientalist Fantasies and Discourses on the Other (ASIA 451) (3). See ASIA 451 for course description.

452 [141] Islam in France and the United States (ASIA 452) (3). See ASIA 452 for course description.


455 [142] Arabs in America (ASIA 455) (3). See ASIA 455 for description.

457 Globalization in East Asia/East Asianized Globalization (ASIA 457) (3). Through a focus on East Asia, this course will treat globalization as a truly global phenomenon and not one centered in the United States or even EuroAmerica. Here, the emphasis will be on the often overlooked impact of Japanese and Chinese pop culture, film, technology, and finance on the different fields of globalization.

463 [164] International Economics from the Participant’s Perspective (ECON 463) (3). See ECON 463 for description.


514 [132] Museums, Monuments, and Collective Memory: Public Institutions and the Commemoration of History in the Modern Era (ART 514) (3). Since the emergence of the idea of "public," museums and monuments have played a key role in the formation of cultural memory and identity, both nationally and globally. This course explores the relation between museums and monuments historically and theoretically, and relates them to national and international developments in the 19th and 20th centuries.

520 [184] International Environmental Politics (ENST 520, PLCY 520) (3). See ENST 520 for description.

691H [090] Honors in International Studies (3). Prerequisite, permission of advisor. Preparation for writing the honors thesis.
Curriculum in Latin American Studies
www.unc.edu/depts/ilas/undergrad.html

ARTURO ESCOBAR, Chair
Affiliated Faculty
Robert Adams (Institute of African-American Research), Gustavo Angeles (Maternal and Child Health), Shrikant Bangdiwa (Biostatistics), Deborah Bender (Health Policy and Administration), Brian Billman (Anthropology), Richard Billsborrow (Biostatistics), Kathryn Burns (History), Kia Caldwell (African and Afro-American Studies), Teresa Chapa (Latin American and Iberian Resources Bibliographer), John Chasteen (History), Fred Clark (Romance Languages), Richard Cole (Journalism and Mass Communication), Regina Cortina (Education), Glynnis Cowell (Romance Languages), Altha Cravey (Geography), Arturo Escobar (Anthropology), Alfred Field Jr. (Economics), Kaja Finkler (Anthropology), Erica Fontes (Romance Languages), David Garcia (Music), Juan Carlos Gonzalez-Espitia (Romance Languages), Sudhansha Handa (Public Policy), Jean Handy (Microbiology and Immunology), Jonathan Hartlyn (Political Science), Audrey Heining-Boynton (Education/Romance Languages), Joanne Hershfield (Communication Studies), Flora Holt (Anthropology), Evelyne Huber (Political Science), Julia Mack (Romance Languages), David Mora-Marín (Linguistics), Harriet Nittoli (Romance Languages), William Peck (Emeritus, Religious Studies), Rosa Perelmuter (Romance Languages), Louis Pérez Jr. (History), Monica Rector (Romance Languages), Alícia Rivero (Romance Languages), Daniel Rodriguez (City and Regional Planning), María Salgado (Emerita, Romance Languages), Lars Scholtz (Political Science), Karla Slucum (Anthropology/African and Afro-American Studies), Christian Smith (Sociology), Lucila Vargas (Journalism and Mass Communication), Adam Versényi (Dramatic Art), Deborah Weissman (Law), Thomas Whitmore (Geography), Lyneise Williams (Art), Wendy Wolford (Geography).

Introduction
There are three main goals of the Curriculum in Latin American Studies: (1) to develop students' basic knowledge and comprehension of key themes in Latin American and Caribbean history, cultures, and contemporary social, economic, and political issues; (2) to develop students' abilities to think critically, in an interdisciplinary manner, about Latin American and Caribbean issues, past and present, and to locate them within broader global perspectives; (3) to develop students' proficiency in Spanish or Portuguese, and other languages of the region as needed, as part of their program of study.

The curriculum is housed in the Institute of Latin American Studies (ILAS), created in 1940 to coordinate campus activities on Latin America and the Caribbean. ILAS and its counterpart at Duke, the Center for Latin American and Caribbean Studies (CLACS), form the Consortium in Latin American Studies at the University of North Carolina at Chapel Hill and Duke University, or "the Carolina and Duke Consortium." The Carolina and Duke Consortium is a National Resource Center under Title VI of the Higher Education Act, one of fifteen such centers devoted to Latin America and the Caribbean in the United States. UNC-Chapel Hill and Duke offer more than 400 courses dealing with Latin America and the Caribbean in a range of departments and schools. Most of these are open to undergraduates. UNC-Chapel Hill students are encouraged to enroll in Latin American and Caribbean studies courses at Duke through inter-institutional registration with the registrar. Each semester, ILAS publishes a list of courses on Latin America and the Caribbean at both universities. Further information about courses as well as the program in general can be found at the ILAS Web site, www.unc.edu/depts/ilas, and the Carolina and Duke Consortium Web site, www.duke.edu/web/carolinadukeconsortium.

Program of Study
The degree offered is bachelor of arts in Latin American studies.

Majoring in Latin American Studies: Bachelor of Arts
All General Education requirements apply. First and second year students are strongly encouraged to enroll in LTAM 101, an interdisciplinary introductory course offered each year, usually in the spring.

The Curriculum in Latin American Studies recommends the following courses for fulfillment of the General Education requirements to students interested in majoring in Latin American studies:

**Foundations: Foreign Language**
Spanish or Portuguese should be used to satisfy the foreign language requirement. The foreign language 1 through 4 sequence (PORT 101-102 and 203-204 or SPAN 101-102 and 203-204) may be completed in two semesters by enrolling in intensive courses (PORT 111-212 and SPAN 111-212).

**Approaches, Visual and Performing Arts**
DRAM 486 Latin American Theater
MUSC 146 Introduction to World Music

**Approaches, Literary Arts**
PORT 270 Modern Brazilian Literature in English Translation
PORT 275 Portuguese and Brazilian Fiction in Translation
SPAN 260 Introduction to Spanish and Spanish American Literature
SPAN 270 Contemporary Spanish American Prose Fiction in Translation
SPAN 373 Survey of Spanish American Literature

**Approaches, Social and Behavioral Sciences**
(two courses from different departments or curricula; one must be in historical analysis)
ANTH 130 Anthropology of the Caribbean
ANTH 142 Local Cultures, Global Forces
ANTH 230 Anthropology of Development
ECON 101 Introduction to Economics
GEOG 120 World Regional Geography
GEOG 130 Geographical Issues in the Developing World
HIST 142 Latin America under Colonial Rule
HIST 143 Latin America since Independence
POLI 238 Contemporary Latin American Politics
POLI 231 Latin America and the United States in World Politics
PLCY 249 New Immigration and the South

The major in Latin American studies requires the completion of ten courses, including an interdisciplinary core capstone seminar (LTAM 697), plus a minimum level of proficiency in Spanish or Portuguese.
The Curriculum in Latin American Studies is divided into two concentrations: humanities and social sciences. These concentrations are further divided into sequences: humanities into history and culture-literture sequences; social sciences into journalism-political science and anthropology-economics-geography sequences. To ensure depth in a single discipline of Latin American and Caribbean studies, four of the ten courses required for the major must be selected from one of the sequences. To ensure breadth of exposure to other areas of Latin American and Caribbean studies, two courses must be selected from each of the other three sequences. LTAM 101 and LTAM 697 may count in any sequence.

In addition to the ten required courses, each major must complete Spanish or Portuguese through the fifth semester-level (or higher), or equivalent, not including courses in translation. While this is the minimum requirement, majors are encouraged to work toward proficiency in both Spanish and Portuguese. Several courses in Spanish and Portuguese will satisfy this requirement while also fulfilling General Education requirements. There are also Language Across the Curriculum (LAC) courses, which allow students to use their Spanish or Portuguese in select courses. Students taking LAC courses with Spanish or Portuguese recitation sections may receive one hour of additional credit by enrolling in SPAN 308 or PORT 308. For details on the LAC program see www.unc.edu/~ncr/lac.

Listed below are the most commonly offered courses in each sequence. Please note that not all the courses on Latin American and Caribbean topics are listed here, and many other courses may satisfy the major requirements. Special topics courses, first-year seminars, undergraduate seminars, independent studies, and capstone courses taught by Latin Americanist and Caribbeanist faculty on Latin American and Caribbean topics may also count. Majors should check the consortium course list each semester for new offerings, as well as for a complete listing of Latin American and Caribbean courses at Duke.

Major Concentration and Sequences

I. Humanities Concentration

*History Sequence*

HIST 142 Latin America under Colonial Rule
HIST 143 Latin America since Independence
HIST 278 The Transatlantic Slave Trade
HIST 280 (WMST 280) Women and Gender in Latin American History
HIST 371 (AFAM 371) Emancipation in the New World
HIST 530 History of Mexico
HIST 531 History of the Caribbean
HIST 532 History of Cuba
HIST 533 History of Brazil
HIST 534 The Development of Latin American Society
HIST 254 The African Diaspora
AFAM 254 Blacks in Latin America

*Culture-Literature Sequence*

Portuguese
PORT 270 Modern Brazilian Literature in Translation
PORT 275 Portuguese and Brazilian Fiction in Translation
PORT 310 Composition and Conversation
PORT 323 Luso-Brazilian Civilization
PORT 503 Survey of Brazilian Literature I
PORT 504 Survey of Brazilian Literature II

PORT 435 Brazilian Drama

Spanish

SPAN 270 Contemporary Spanish American Prose Fiction in Translation
SPAN 330 Cultural History of the Hispanic World
SPAN 344 Contemporary Latin America: Mexico, Central America, and the Andean Region
SPAN 345 Contemporary Latin America: the Caribbean and the Southern Cone
SPAN 350 Advanced Conversation and Composition
SPAN 373 Survey of Spanish American Literature
SPAN 381 Masterpieces of Spanish and Spanish American Poetry
SPAN 385 Contemporary Spanish American Prose Fiction
SPAN 388 Hispanic Film and Culture
SPAN 613 Colonial and 19th-Century Spanish American Literature
SPAN 614 Modernist and Contemporary Spanish American Literature
SPAN 620 (WMST 620) Women in Hispanic Literature

Other courses

COMM 658 Latin American Cinema
DRAM 486 Latin American Theater
LTAM 403 Intensive Introductory Yucatec Maya
LTAM 505 Intensive Continuing Yucatec Maya

II. Social Sciences Concentration

*Journalism-Political Science Sequence*

Journalism

JOMC 446 International Communication and Comparative Journalism
JOMC 490 Special Topics in Mass Communication

Political Science

POLI 211 Latin America and the United States in World Politics
POLI 238 Contemporary Latin American Politics
POLI 344 Politics of Mexico, Central America, and the Caribbean
POLI 435 Democracy and Development in Latin America
POLI 436 Democracy and Development in Latin America (LAC in Spanish)
POLI 450 Contemporary Inter-American Relations
POLI 148 The United States and Mexico

*Anthropology-Economics-Geography Sequence*

Anthropology

ANTH 103 Anthropology of Globalization
ANTH 130 (FOLK 130) Anthropology of the Caribbean
ANTH 142 Local Cultures, Global Forces
ANTH 262 Population Anthropology
ANTH 330 (INTS 330) Anthropology of Development
ANTH 231 Archaeology of South America
ANTH 453 Field School in South American Archaeology

Economics

ECON 450 Health Economics: Problems and Policy
ECON 460 International Economics
ECON 560 Topics in International Economics
ECON 465 Economic Development
ECON 454 Economics of Population
Geography
GEOG 130 Third World Development Issues
GEOG 259 Geography of Latin America
GEOG 457 Rural Latin America: Agriculture, Environment, and Natural Resources
GEOG 458 Urban Latin America: Politics, Economy, and Society

Other courses
AFAM 254 Blacks in Latin America
LTAM 403 Intensive Introductory Yucatec Maya
LTAM 505 Intensive Continuing Yucatec Maya
SOCI 453 Social Change in Latin America

Honors in Latin American Studies
Latin American studies majors with an overall grade point average of 3.25 are invited to pursue a degree with honors by writing an honors thesis during the senior year. Each honors thesis is written under the direction of an appropriate faculty advisor; when completed, the thesis must be defended orally before an examining board of faculty members. Honors candidates enroll in the two honors courses (LTAM 691H and 692H). LTAM 691H counts as a course in the student’s concentration.

Special Opportunities in Latin American Studies

Experiential Education
Students who are particularly committed to field experience or experiential education in Latin America may be able to arrange for this through independent study credit. Students wishing to do so should have the academic support of a regular faculty member and contact the institute’s associate director well in advance of the semester in which the experience is to take place.

Intensive Yucatec Maya
Each summer the Carolina and Duke Consortium offers intensive instruction in modern Yucatec Maya, with a secondary focus on ancient, colonial, and modern Maya culture. The courses include classroom instruction in Chapel Hill (LTAM 160) or in Mérida, Mexico (LTAM 161), and a field study experience in Yucatán, Mexico. See the Maya program Web site at www.duke.edu/web/carolindukeconsortium/yucatec_maya/index.html for current course information.

Independent Study
Any student may enroll in Independent Study (LTAM 80) under the permission of the curriculum faculty advisor and the agreement of a Latin American or Caribbean studies faculty member who will supervise the student’s study project. This course may be used to fulfill the requirements of the major, and it is often linked to undergraduate grants for summer research travel or to internships.

Study Abroad
Study abroad is not a requirement of the major; however, living and studying in Latin America or the Caribbean is highly recommended as an experience that majors should consider. The UNC-Chapel Hill Study Abroad Office offers a broad range of programs in Latin America and the Caribbean. Visit the Study Abroad Office Web site at studyabroad.unc.edu. Thanks to a large Andrew W. Mellon Foundation endowment and the support of private donors, both ILAS and the Study Abroad Office offer new competitive scholarships for majors wishing to undertake study in Latin America and the Caribbean.

Undergraduate Awards
Each year ILAS uses funds from its endowment to recognize superior achievement by its students and to encourage them to travel and conduct research in Latin America or the Caribbean. One award, named in honor of the late Federico G. Gil, Kenan Professor Emeritus of Political Science and director of ILAS from 1959 to 1983, is for the best honors thesis on a Latin American or Caribbean topic. Each year ILAS also awards a modest travel and research grant, named in honor of the late Julia Crane, Professor Emerita of Anthropology, to an undergraduate student who plans to conduct original research in Latin America or the Caribbean. Funds from the institute’s Andrew W. Mellon Foundation endowment support additional awards for undergraduate study and research abroad. Contact the curriculum faculty advisor for information.

Undergraduate Research
Latin American Studies majors are eligible to develop a senior thesis project in their last year. The thesis may be related to a field work project the summer after the junior year. A small number of grants might be available for undergraduate field research in Latin America, especially in connection with a senior thesis.

Graduate School and Career Opportunities
The Institute for Latin American Studies (ILAS) maintains a library of contact information for careers, internships, and advanced study. This information is in the ILAS common area, and no appointment is necessary to come and browse between 8 a.m. and 5 p.m. Interested students should, however, contact the curriculum faculty advisor or the ILAS office manager for an orientation to the materials and for questions concerning career and graduate school opportunities. Students are encouraged to subscribe to the Latin American and Caribbean studies list serve for current opportunities and program news. Simply write to las@duke.edu.

The Curriculum in Latin American Studies participates in a five-year cooperative B.A./M.A. program with the Center for Latin American Studies at Georgetown University. The agreement allows qualified Latin American studies majors to earn an M.A. in Latin American studies from Georgetown in a year and a summer rather than the normal three to four semesters.

For details on the cooperative degree program see www.georgetown.edu/sfs/programs/clas/joint_cooperative.html and contact the curriculum faculty advisor.

Contact Information
Questions and requests regarding internships should be directed to the institute’s associate director, who has responsibility for advising and approval of all matters involving the major, including study abroad credits and overall requirements.

LTAM
101 [040] Introduction to Latin American Studies (3). A broad interdisciplinary introduction to the field of Latin American studies.
396 [080] Independent Study (1-3). Independent project to be arranged with an instructor.
411 Summer Intensive Introductory Course in Yucatec Maya (6). A three-part intensive introduction to spoken and written modern Yucatec Maya including classroom instruction; culture, history, and linguistics workshops; and a four-week field study in Yucatán, Mexico.
Department of Linguistics
www.unc.edu/depts/ling

H. CRAIG MELCHERT, Chair
Professors
Randall Hendrick, Laura Janda, H. Craig Melchert, Paul Roberge.
Assistant Professors

Introduction
Courses in the department are offered for the general student and for those who wish to receive the B.A. in linguistics. Courses in linguistics are intended to open up systematic perspectives on the nature of human language by means of detailed studies of language structure and language change, the sound system of language, and the syntactic/semantic system of language. Successful completion of the undergraduate major in linguistics leads to the award of the degree of bachelor of arts. The major is designed to provide a fundamental understanding of modern linguistics for the student seeking a general education in the liberal arts as well as for the student preparing for graduate study.

Programs of Study
The degree offered is bachelor of arts in linguistics. A minor is also offered in linguistics.

Majoring in Linguistics: Bachelor of Arts
Linguistics majors should fulfill one of the three Social and Behavioral Sciences Approaches requirements with LING 101, which is a prerequisite for all linguistics courses listed below. LING 101 may not be counted as one of the seven courses required for the major.

Majors are required to take three courses from the following four courses, comprised of the introductory series LING 200, 201, 202, and 203. Majors also must take at least four additional linguistics courses numbered 200-600, excluding 400. (LING 400 is closed to students taking the LING 200, 201, 202 sequence.)

Students majoring in linguistics may concentrate entirely in linguistics, following an approved program of linguistics courses beyond those listed above, or they may elect to pursue a program of study that combines the courses above with an approved sequence of courses in a field related to linguistics. Suggested second-field options are: linguistic anthropology, computer processing of language data, psychology of language, philosophy of language, sociology of language, study of a particular language or language family, and applied linguistics. The second-field option will be planned in consultation with the student’s advisor. There is a special track for pre-speech and hearing sciences students. Students interested in the linguistics major must consult with the department undergraduate advisor, Professor Jennifer Smith.

Minoring in Linguistics
The undergraduate minor in linguistics consists of four linguistics courses numbered 200 or higher. Two of these courses must be selected from LING 200, 201, 202, and 203. In order to fashion a coherent program of study that complements the student’s major, the Department of Linguistics encourages students to select the remaining two courses in consultation with the department undergraduate advisor, Professor Jennifer Smith.

Honors in Linguistics
Any linguistics major with a cumulative total GPA of at least 3.2 is eligible to attempt a degree with honors in linguistics. To graduate with honors, a student must work with a faculty supervisor, enroll in LING 691H and 692H during the senior year, and complete and defend an honors thesis according to departmental and Honors Program requirements. Interested students should contact the honors advisor, Professor Misha Becker, during their junior year.

Special Opportunities in Linguistics

Departmental involvement
Many linguistics majors and minors join Underling, the undergraduate linguistics club, which sponsors a variety of educational, outreach, social, and career-development events each year.

Study Abroad
Students in linguistics are encouraged to consider study abroad. Courses that can be applied toward the linguistics major and minor are available through many of the programs administered by the Study Abroad Office.

Undergraduate Awards
The Marc Adam Eisdorfer Award recognizes the graduating senior judged most outstanding in academic achievement in linguistics. It was established in 1998 by Sandra Eisdorfer in memory of her son, a graduate of the class of 1984.

Graduate School and Career Opportunities
The Department of Linguistics at the University offers quality M.A. and Ph.D. programs with opportunities for specialization in a number of sub-areas. Detailed information is available from the department Web site.

Additionally, more than one hundred colleges and universities offer linguistics programs, including several dozen that are considered major programs nationally. Faculty members are pleased to advise students regarding programs best suited to their needs and interests.

There are several ways to use a linguistics B.A. in planning a career. In general, the linguistics major is good preparation for a number of career paths because it develops problem-solving, the ability to find patterns in complicated data, and writing and argumentation skills. These are abilities that can be emphasized when applying for many different kinds of jobs. Law and journalism schools and other professional schools are becoming increasingly
aware that students with a linguistics degree have strengths in these important areas. U.S. citizens with a background in linguistics also may find jobs with U.S. government agencies.

Some students choose to continue specializing in linguistics teaching or research. For this, they will typically need to obtain a graduate degree in linguistics. Other possible careers for linguistics majors that have a close connection to language and linguistics include language teaching, speech pathology/speech and hearing science, language and information technologies (including speech synthesis and recognition, text-content analysis, and machine translation), information and library science, or editing and publishing; careers in these areas may require a graduate degree.

**Contact Information**

H. Craig Melchert, Chair, or Jennifer Smith, Undergraduate Advisor, CB# 3155, Dey Hall, (919) 962-1192. Web site: www.unc.edu/depts/ling.

**LING**

**050 First-Year Seminar: Language in the USA** (3). The linguistic landscape of the United States in historical and contemporary perspective; American English dialects, language maintenance and shift among Native American and immigrant groups, language politics and policy.

**101 [030] Introduction to Language** (3). A survey of the many aspects of human language, including the history of language, similarities and differences among languages, language and culture, dialects, writing systems, child language acquisition, animal "languages," and the use of computers in analyzing languages. Linguistic methods used to describe and relate languages.

**145 [222] Language and Communication (PHIL 145)** (3). See PHIL 145 for description.

**200 Phonology** (3). Prerequisite, LING 101 or consent of instructor. Description and analysis of sound patterns from languages around the world. Introduction to formal phonological models, written argumentation, and hypothesis testing.

**201 Syntax** (3). Prerequisite, LING 101 or consent of instructor. Introduction to the goals and methods of transformational analysis, using English primarily, but examining how these techniques can be used to describe syntactic processes in other languages.

**202 [062] Linguistic Variation and Language Change** (3). Prerequisite, LING 101 or consent of instructor. Introduction to the analysis and description of language change, relationships among languages, and types of linguistic structure.

**203 [063] Language Acquisition and Development** (3). Prerequisite, LING 101. Provides an introduction to first-language acquisition, focusing on the acquisition of phonology, morphology, syntax, and semantics, as well as on the social context of language acquisition and issues of atypical language development.

**296 [070] Independent Reading** (3). Prerequisite, LING 101 or consent of instructor. In-depth treatment of a selected issue or topic in linguistics. (Topic will vary with the instructor.) Course may be taken more than once when the topic varies.

**301 [071] Language and Computers (COMP 371)** (3). Prerequisite, LING 101. Uses simple linguistic problems to introduce students to the use of programming languages especially suited to analyze and process natural language on the computer. No prior programming knowledge is presupposed.

**302 [072] Language and Power (ANTH 302, WMST 302)** (3). This course provides an overview of language and power studies. Issues: sexist and sex-neutral language; languages of subcultures defined by gender, sexual orientation, ethnicity; hate speech; "politically correct" language.

**303 [073] Native Languages of the Americas (ANTH 303)** (3). This course is an introduction to languages indigenous to the Americas. The course touches on the linguistic structure and classification of Native American languages as well as social issues.

**304 [074] Introduction to Discourse** (3). Prerequisite, LING 101. Focuses on the use of linguistic forms to express communicative intentions. How language is used for the purposes of persuasion, manipulation, irony, humor, poetry, propaganda, and attitudes.

**306 [075] Language and Nationalism (SLAV 306)** (3). See SLAV 306 for description.

**310 Formal Perspectives on African American English** (3). Prerequisite, LING 101 or permission of instructor. This course treats the structural properties of African American English. Students will learn to use sentence data to test hypotheses about language structure by investigating the syntax and semantics of African American English.


**383 [083] Linguistic Structuralism: Sources and Influences** (3). Linguistic structuralism as a background for modern theories of language.

**400 [100] Introduction to General Linguistics (ANTH 400)** (3). An introduction to the scientific study of language. The nature of language structure. How languages are alike and how they differ.


**415 [115] Advanced Topics in Linguistics** (3). Directed readings on linguistic topics not covered in specific courses.


**455 [104] Symbolic Logic (PHIL 455)** (3). See PHIL 455 for description.

**484 [184] Discourse and Dialogue in Ethnographic Research (ANTH 484, FOLK 484)** (3). See ANTH 484 for description.


**520 [120] Linguistic Phonetics (ANTH 520)** (3). Introduction to the general principles of linguistic phonetics; anatomy of vocal tract, physiology of speech production, universal phonetic theory. Practice in the recognition and transcription of speech sounds.

**523 Phonological Theory I (ANTH 523)** (3). Prerequisite, LING 520 or equivalent. Introduction to the principles of modern generative phonology. Methods and theory of phonological analysis. Not normally open to those who have taken LING 200, unless permission of instructor is given.

**524 Phonological Theory II** (3). Prerequisite, LING 523. Intermediate phonological theory and analysis.
525 [101] Introduction to Historical and Comparative Linguistics (3). Theories and methods of historical and comparative linguistics, with emphasis upon the Indo-European family.

527 [127] Morphology (3). Prerequisite, LING 101, LING 400, or permission of instructor. Cross-linguistic investigation of internal word structure: inflection and derivation, word formation rules versus affixation, autosegmental morphology, morphological and morphophonemic rules, and the interaction of morphology with phonology and syntax.

528 [210] Language Acquisition (3). Child language from a theoretical perspective. Topics include segmentation problems, acquisition of phonology, morphology and syntax, lexical acquisition, and language development in blind and deaf children and in bilinguals.

529 Linguistic Acquisition II (3). Prerequisite, LING 203 or LING 528. This course focuses on the development of syntax in first language acquisition in children. Topics will include parameter setting, null subjects, root infinitives, aspect, A-movement, Binding theory and control.

530 Syntactic Theory I (3). Prerequisite, LING 400 or equivalent, or consent of instructor. Methods and theory of grammatical analysis within the transformational generative framework. Special emphasis on analyzing syntactic and semantic structures of English.

533 Syntactic Theory II (3). Prerequisite, LING 530 or equivalent. Methods and theory of grammatical analysis, with special reference to transformational grammar.

537 Semantic Theory I (3). Prerequisite, LING 101, LING 400, or permission of instructor. Semantics as a part of linguistic theory: co- and disjoint reference among nominals, “crossover” phenomena, quantifier scope, lexical semantics, Montague grammar and compositional semantics, and explanatory universals in semantic theory.

538 Semantic Theory II (3). Prerequisite, LING 537 or permission of instructor. A continuation of LING 537 (Semantic Theory I), this course prepares the student to read the formal semantic literature and to do original research in the field.

539 [139] Language of Time (3). Prerequisite, LING 101, LING 400, or permission of instructor. The representation of time and temporal relations in natural languages. Cross-linguistic study of tense and aspect distinctions, modality, temporal adverbials, temporal anaphora, and sequences of tenses.

540 [140] Mathematical Linguistics (3). Introduction to topics in logic, set theory, and modern algebra with emphasis on linguistic application. Automata theory and the formal theory of grammar with special reference to transformational grammars. No previous mathematics assumed.

541 [170] Sociolinguistics (ANTH 541) (3). Prerequisite, LING 101, LING 400, or permission of instructor. Introduction to the study of language in relation to society; variation as it correlates with socioeconomic status, region, gender, the social motivation of change; language and equality; language maintenance, planning, shift.

542 [172] Pidgins and Creoles (GERM 542, ANTH 542) (3). See GERM 542 for description.

543 [175] Language in Politics (3). Examines language as a political issue in the 19th and 20th centuries. Emphasis placed on American and British politics but attention to one other national context as well.

545 [145] Language and Mind: Linguistics and the Brain (3). Prerequisite, LING 101, LING 400, PHIL 145, ENGL 313, or permission of instructor. The course treats the relationship among linguistics, artificial intelligence, neurobiology, cognitive psychology, and the philosophies of mind, language, and science.

547 [147] Language Deficits and Cognition (3). Prerequisite, LING 101 or consent of instructor. Survey of the linguistic properties associated with aphasia, autism, Williams syndrome, dyslexia, and schizophrenia. Emphasis on the implications of these conditions for theories of mind.


551 [151] Introduction to Indo-European: Morphology (3). Prerequisite, LING 550 or permission of instructor. Introduction to the major morphological categories in the Indo-European languages and their development from the proto-language.

561 [161] Native Languages of the Americas (3). Prerequisite, LING 101, LING 400, or permission of instructor. This course explores the phonological and morphological structure of selected Amerindian languages indigenous to the Americas. Emphasis is on the linguistic analysis of original as well as published primary data.


566 [166] Structure of Modern French (FREN 566) (3). See FREN 566 for description.

583 [183] History and Philosophy of Linguistics (3). Linguistic theories from classical times to the present with special emphasis on the origins of contemporary theories.


691H [097] Senior Honors Thesis (3). See the program for honors in the College of Arts and Sciences and the department honors advisor.

692H [098] Senior Honors Thesis (3). See the program for honors in the College of Arts and Sciences and the department honors advisor.

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**Curriculum in Management and Society**

sociology.unc.edu/programs/undergrad/mngt

**CLINTON C. KEY, Director**

**Introduction**

Management and society is an interdisciplinary major that focuses on the institutional context and inner workings of organizations. The Curriculum in Management and Society prepares students for a variety of entry-level positions in private or public sector organizations. Students who want to specialize in human resource management should seek further training in graduate or professional school.
The term “management and society” in its broadest sense, encompasses not only direct dealings between management and organized labor but also matters such as governmental policy, industrial psychology, industrial sociology, personnel administration, and worker education. A broad knowledge and understanding of economics, history, sociology, psychology, and political science are essential. Work in this field also requires knowledge of techniques such as statistics, administrative practices, tests and measurements, and guidance and counseling.

The Management and Society Curriculum is an interdisciplinary social science program focusing on the modern work environment and its social context. Although essentially a liberal arts curriculum, management and society also possesses a professional orientation. Majors acquire an understanding of the conceptual foundations and principles of interpersonal and institutional relations and of the ways these principles can be applied in the work place. General areas of study are employer-employee relations, development of human resources, and the institutional context of work.

Some students have combined management and society with course work concentrations in such academic disciplines as economics, sociology, psychology, history, and political science.

Program of Study
The degree offered is bachelor of arts in management and society.

Majoring in Management and Society: Bachelor of Arts
All General Education requirements must be met. Specific courses that must be taken, and that can be used to fulfill General Education requirements, include:
ECON 101 (SS); HIST 128 (HS, NA); MATH 152 or 231 (QR) or STOR 112 or 113 (QR); PSYC 101 (PL); and SOCI 101 (SS).

In addition, students are required to complete one applied statistics course: ECON 400 (QI); PSYC 210 (QI), SOCI 252.

Core Requirements
The core consists of ten courses (30 hours) grouped into four areas. Students must earn at least 21 hours of C or higher in the core. Note that some of these courses have prerequisites; students should consult departmental listings. Some of the core courses are cross-listed. For a description of the courses below, see the listings under the department headings.

Economics
All students must complete (by the end of their junior year):
ECON 310 (MNGT 310) Applied Microeconomics or ECON 410 Intermediate Theory

Employer-Employee Relations
Three courses are required from the following:
- SOCI 131 (MNGT 131) Social Relations in the Workplace
- PSYC 531 Tests and Measurements
- PSYC 562 Social Psychology: Theory in Practice or PSYC 563 Small Groups or COMM 120 Introduction to Interpersonal and Organizational Communication or COMM 223 (MNGT 223) Small Group Discussion or COMM 325 (MNGT 325) Introduction to Organizational Communication
- SOCI 112 Social Interaction or PSYC 260 Social Psychology
- BUSI 405 Organizational Behavior

Human Resources and Labor Markets (both courses required)
ECON 380 (MNGT 380) Labor and Industrial Relations
SOCI 427 (MNGT 427) The Labor Force

The Social Context of Business (four courses required)
Group A (both courses required):
ECON 345 (MNGT 345) Public Policy Towards Business
SOCI 410 (MNGT 410) Formal Organizations and Bureaucracy

Group B (two courses from the following four choices):
Either ECON 433 (MNGT 433) History of the Labor Movement or HIST 365 (MNGT 365) The Worker and American Life
SOCI 412 (MNGT 412) Social Stratification
SOCI 415 (MNGT 415) Economy and Society

Special Note for Economics Double Majors
Economics double majors may take ECON 430 instead of ECON 330. They may take ECON 445 instead of ECON 345, and ECON 480 instead of ECON 380.

Honors in Management and Society
A student may, as a result of distinguished work (3.2 grade point average or above), be awarded a degree with honors or highest honors. This requires completion of a senior honors thesis. Interested students should contact the management and society office for more information. Honors students should enroll in MNGT 691H and MNGT 692H. (MNGT 692 will fulfill one of the course requirements from the Social Context of Business Group B, listed above.)

Special Opportunities in Management and Society

Study Abroad
Management and society or students may choose to study abroad with approved programs. Contact the University Study Abroad Office or the MNGT advisor for more information.

Summer Internships
Summer internships are available through the University Career Planning and Placement Services.

Undergraduate Research and Independent Study
Students may pursue independent research projects and independent study courses with faculty who teach in the MNGT curriculum. Honors students complete research projects for their honors theses.

Graduate School and Career Opportunities
Few college graduates obtain advanced jobs as their initial employment in industrial relations, human resource management, or personnel administration. Beyond the entry-level, most positions in these areas require graduate school training, which is available at many academic institutions across the country.

A degree in management and society prepares students for virtually any aspect of a business career that does not involve highly specialized training (such as finance and accounting). Employers are interested in students who can think on their feet, communicate effectively, write well, and make sense of the social and economic changes occurring in their industry. Management and society majors are educated in each of these skills.
Graduates with B.A. degrees in management and society are especially suited for entry-level positions in any aspect of human resource management, industry, or public sector organizations. Among recent graduates who responded to a Placement Office survey, the largest number were employed in sales, management or management training positions with at least some supervisory or personnel-related responsibilities ranked second. Other graduates are working in customer service, purchasing, and marketing research, and several hold positions in the public sector.

**Contact Information**
Management and Society, Department of Sociology, 155 Hamilton Hall, CB# 3210, (919) 962-1007. Web site: sociology.unc.edu/programs/undergrad/mngt.

**MNGT**
120 [022] Introduction to Interpersonal and Organizational Communication (COMM 120) (3). An introduction to communication theory, research, and practice in a variety of interpersonal and organizational contexts. This course examines the role of communication in both personal and professional relationships.

131 [031] Social Relations in the Workplace (SOCI 131) (3). See SOCI 131 description.


325 [025] Organizational Communication (COMM 325) (3). See COMM 325 description.


345 [145] Public Policy Toward Business (ECON 345) (3). See ECON 345 description.


410 [110] Formal Organizations and Bureaucracy (SOCI 410) (3). See SOCI 410 description.

412 [112] Social Stratification (SOCI 412) (3). See SOCI 412 description.


691H [098] Honors Fall Course (3). Directed independent research under the supervision of a faculty advisor who teaches in the Management and Society Curriculum.

692H [099] Honors Spring Course (3). Prerequisite, MNGT 691H. Preparation of an honors thesis and an oral examination on the thesis.

**Department of Marine Sciences**
www.marine.unc.edu

**FRANCISCO E. WERNER, Chair**

**Professors**
John M. Bane Jr., Christopher S. Martens, Charles H. Peterson, Francisco E. Werner.

**Joint Professors**

**Associate Professors**
Marc J. Alperin, Carol Arnosti, Harvey Seim, Andreas Teske.

**Assistant Professors**
John Bruno, Peter Marko, Rachel Noble, Alberto Scotti.

**Research Assistant Professors**
Dan Albert, Brian Blanton, Barbara MacGregor, Michael Piehlher.

**Joint Research Assistant Professor**
Thomas J. Shay.

**Professor Emeritus**
A. Conrad Neumann.

**Adjunct Professors**
Frederick Bingham (UNC-W), Mark E. Hay (GIT), William M. Kier (Biology), Kenneth J. Lohmann (Biology), Joseph Pawlik (UNC-W), Martin H. Posey (UNC-W), John J. W. Rogers (Geology), Stephen A. Skrabal (UNC-W), Mark D. Sobsey (Environmental Sciences and Engineering), Robert H. Stavn (UNC-G), Joan D. Willey (UNC-W).

**Introduction**
The Department of Marine Sciences provides instruction and conducts research in biological, chemical, geological, and physical oceanography. Although it emphasizes graduate training, the department offers basic course work, opportunities for supervised practical experience, and an academic minor to all advanced undergraduates. The minor is designed to allow students access to curriculum courses, facilities, and advisors in order to develop marine specializations related to their majors and to prepare for postgraduate study in marine sciences or a related field. The department’s director of undergraduate studies serves as primary contact for students participating in the minor program. Student advisement and approval of equivalent courses are handled through the director’s office. Introductory courses are also offered for all undergraduates who are interested in marine sciences. These courses (e.g., MASC 101) are available through the College of Arts and Sciences, Part-time Classroom Studies, and the Summer School.

**Program of Study**
A minor in marine sciences is offered.

**Minoring in Marine Sciences**
To fulfill the requirements for the marine sciences minor, a student should take four courses, as follows:

1. A course emphasizing global oceanic processes (choose one of the following):
   - MASC 101 The Marine Environment
   - MASC 401 Oceanography
2. A course emphasizing the coastal ocean (choose one of the following):
   MASC 223 Coastal Geology of North America
   MASC 411 Oceanic Processes in Environmental Systems
   MASC 430 Coastal Sedimentary Environments
   MASC 436 Coastal Processes
   MASC 440 Marine Ecology
   MACS 442 Marine Biology
   MASC 448 Coastal and Estuarine Ecology
   MASC 449 Ecology of Wetlands
   MASC 470 Estuarine and Coastal Marine Science
   MASC 471 Human Impacts on Estuaries
   MASC 472 Barrier Island Ecology and Geology
   Or equivalent course with focus on the coastal ocean [approved by the director of undergraduate studies]

3. A course featuring practical experience in marine sciences (choose one of the following):
   A field course
   MASC 430 Coastal Sedimentary Environments
   MASC 436 Coastal Processes
   MASC 448 Coastal and Estuarine Ecology
   MASC 470 Estuarine and Coastal Marine Science
   MASC 471 Human Impacts on Estuaries
   MASC 472 Barrier Island Ecology and Geology
   Or equivalent field course (approved by the director of undergraduate studies)
   A laboratory course
   MASC 410 Earth Processes in Environmental Systems
   MASC 431 Micropaleontology
   MASC 445 Marine Invertebrate Biology
   MASC 551 Biogeochemical Techniques
   Or equivalent laboratory course (approved by the director of undergraduate studies)
   A mathematical modeling or data analysis course
   MASC 415 Environmental Systems Modeling
   MASC 480 Modeling of Marine and Earth Systems
   MASC 483 Geologic and Oceanographic Applications of Geographical Information Systems
   MASC 561 Time Series and Spatial Data Analysis
   Or equivalent mathematical modeling or data analysis course
   (approved by the director of undergraduate studies)

4. A marine sciences course of the student's choosing

Special Opportunities in Marine Sciences

Experiential Education

Barrier Island Ecology and Geology (MASC 472) is taught at the UNC-Chapel Hill Institute of Marine Sciences in Morehead City (summer session) providing an experience in the field.

Undergraduate Research

The department offers opportunities to undergraduates to conduct directed research in our laboratories. Students work directly with faculty members and may enroll for credit as part of an honors or research project.

Facilities

Research laboratories are equipped for general studies in marine sciences and special research interests of faculty and students.

The Institute of Marine Sciences, located in Morehead City, houses laboratory buildings with dock and ocean access. Research vessels include the fully equipped oceanographic ship R.V. Cape Hatteras, the R.V. Capricorn, a modern 55-foot coastal vessel, and a fleet of outboard-powered boats.

Graduate School and Career Opportunities

The director of undergraduate studies advises students on graduate school and/or career opportunities in marine sciences.

Contact Information

Questions and requests should be directed to Alison Blaine, marine sciences student services coordinator, (919) 962-1252.

MASC

051 First-Year Seminar: Global Warming: Serious Threat or Hot Air? (3). Students will examine evidence that man’s activities have caused global warming, investigate scientists’ ability to predict future climate, and discuss the political and social dimensions of global climate change.

052 [006D] First-Year Seminar: Living with Our Oceans and Atmosphere (3). Modern theories of changing weather, severe weather events, oceanic hazards, interactions between the oceans and atmosphere, and changes that are linked to human activity.

053 [006D] First-Year Seminar: The Ends of the Earth: Polar Oceanography and Exploration (3). What explains the “pull of the Poles”? This seminar combines a modern survey of polar oceanography with historical views of early polar explorations, as reported by the explorers themselves.

054 [006D] First-Year Seminar: Where Did All the Fish Go? (3). Exploration of the interconnections among oceans, humans, and fish. How does the ocean work? How have humans influenced oceans? What can fish tell us about the health of the oceans?

055 [006D] First-Year Seminar: Change in the Undersea World (3). Evidence for recent changes in oceanic and tropical ecosystems resulting from natural marine and anthropogenic processes will be examined using current scientific journal publications, laboratory and field site visits, and photo trips.

056 [006D] First-Year Seminar: Extreme Microorganisms: Pushing the Limits of Life on Earth (3). Extreme microorganisms thrive under conditions that were thought to be incompatible with life, in hot springs and hydrothermal vents, and illuminate Earth’s early microbial and geochemical evolution.

057 [006D] First-Year Seminar: From “The Sound of Music” to “The Perfect Storm” (3). In this seminar, students will develop the conceptual framework necessary to understand waves of any kind, starting from laboratory observations to arrive at real world dramatic applications.

058 [006D] First-Year Seminar: Connections to the Sea: The Challenges Faced by Using and Living Near Coastal Inlets (3). Will explore the natural history of several inlets, impact of human intervention, and political/policy challenges faced; includes several group projects/presentations and a field trip to a coastal inlet.

059 FYS: Extreme Microorganisms: Pushing the Limits of Life on Earth and Beyond (3). We will expand our horizons in biology by learning about some of the most extreme microorgan-
isms on the planet – microorganisms that thrive without oxygen, under high temperatures (for example, in pressurized water above the boiling point), and under chemical stress factors (high sulfide and heavy metal concentrations) that were once thought to be incompatible with life.

060 FYS Natural History of the White Oak River Estuary (3). In this class we will take a broad view of what is within the purview of a naturalist wanting to understand her/his environment be it for purposes of scientific study, regulation, cosmic contemplation or pure enjoyment.

101 [012] (GEOL 103) The Marine Environment (3). Introduction to marine sciences emphasizing physical, chemical, biological, and geological phenomenon in oceanic and coastal environments. Human use of, and impact on, marine resources. (Science majors see MASC 401.)

223 [047] (GEOL 223) (3). See GEOL 223 description.

395 Undergraduate Research in Marine Sciences (2-4). Prerequisite, permission of a faculty research director. Directed readings with laboratory study on a selected topic.

401 [101] Oceanography (BIOL 350, ENVR 417, GEOL 403) (3). Prerequisites, major in a natural science or at least two college-level courses in natural sciences. The origin of ocean basins, chemistry and dynamics of seawater, biological communities and processes, the sedimentary record, and the history of oceanography. Term paper. Intended for students with college science background; others see ASC 101.


430 [125] Coastal Sedimentary Environments (GEOL 430) (3). See GEOL 430 for description.


436 [136] Coastal Processes (4). An interdisciplinary description and analysis of environmental processes that form and maintain coastal habitats. Coastal aspects of geology, fluid dynamics, chemistry, and biology are considered. Two lectures per week and two coastal field trips.

440 Marine Ecology (BIOL 462) (3). Prerequisite, BIOL 201 or 475. Survey of the ecological processes that structure marine communities in a range of coastal habitats. Course emphasizes experimental approaches to addressing basic and applied problems in marine systems.

442 [148] Marine Biology (BIOL 357) (3). Prerequisite, MASC 101; BIOL 201 or 475, or permission of instructor. A survey of plants and animals that live in the sea: characteristics of marine habitats, organisms, and the ecosystems will be emphasized. Marine environment, the organisms involved, and the ecological systems that sustain them.


450 [119] Introduction to Biogeochemical Processes (ENST 450, ENVR 415, GEOL 450) (4). Prerequisites MATH 231; CHEM 251 or 261; PHYS 105 or 117, or permission of instructor. Principles of chemistry, biology, and geology are applied to analysis of the fate and transport of materials in environmental systems, with an emphasis on those materials that form the most significant cycles. The course examines these processes in systems that contain the hydrosphere, lithosphere, atmosphere, and biosphere. Three lecture hours and one lab hour a week.

470 [154] Estuarine and Coastal Marine Science (ENST 222) (4). Prerequisites, MATH 231 and either PHYS 104 or CHEM 101. Introduction to the estuarine and coastal environment: geomorphology, physical circulation, nutrient loading, primary and secondary production, carbon and nitrogen cycling, benthic processes, and sedimentation. Consideration given to human impact on coastal systems with emphasis on North Carolina estuaries and sounds. Includes a mandatory weekend field trip. Three lecture and two recitation hours a week.


472 Barrier Island Ecology and Geology (6). Prerequisites, courses in general ecology or geology, or permission of instructor. An integration of barrier island plant and animal ecology within the context of physical processes and geomorphological change. Emphasis on management and impact of human interference with natural processes.

480 [152] Modeling of Marine and Earth Systems (ENVR 460, GEOL 480) (3). Prerequisite, MATH 232 or permission of instructor. Mathematical modeling of dynamic systems, linear and nonlinear. The fundamental budget equation. Case studies in modeling transport, biogeochemical processes, population dynamics. Analytical and numerical techniques; chaos theory; fractal geometry.


490 Special Topics in Marine Sciences for undergraduates and graduates (2-4). Prerequisites, science background and permission of instructor. Directed readings, laboratory, and/or field study of marine science topics not covered in scheduled courses.

503 Geological Oceanography (GEOL 503) (4). Prerequisite, GEOL 101 or 111, or permission of instructor. Ocean basin origin, continental margin development, coastal geology, carbonate platforms, and pelagic sediments are subjects covered; paleo-oceanographic reconstructions are emphasized. Three lecture and two recitation hours a week.

504 Biological Oceanography (BIOL 657, ENVR 520) (4). Prerequisite, BIOL 201 or 475, or permission of instructor. Physical, chemical, and biological factors characterizing estuarine and marine environments. Emphasizes factors controlling animal and plant populations. Includes experimental approaches and methods of analysis, sampling, and identification. Three lecture and two recitation hours a week.
505 Chemical Oceanography (ENVR 418, GEOL 505) (4). Prerequisite, one semester of physical chemistry or CHEM 480, or permission of instructor. Overview of chemical processes in the ocean. Topics include: physical chemistry of seawater, major element cycles, hydrothermal vents, geochemical tracers, air-sea gas exchange, particle transport, sedimentary processes, and marine organic geochemistry. Three lecture and two recitation hours a week.

506 Physical Oceanography (GEOL 506) (4). Prerequisites, MATH 231, 232; PHYS 104, 105; or permission of instructor. Descriptive regional oceanography, equations of motion, the Ekman layer, wind-driven currents, thermohaline circulation, modern observations, waves, tides. Three lecture and two recitation hours a week.

550 [140] Biogeochemical Cycling (GEOL 550) (3). Prerequisites, MASC 440, 505; or GEOL 510, 512, 655; or ENVR 421; or permission of instructor. Biogeochemical cycling explores interfaces of marine, aquatic, atmospheric, and geological sciences emphasizing processes controlling chemical distributions in sediments, fresh and salt water, the atmosphere, and fluxes among these reservoirs.

551 [143] Biogeochemical Techniques (2). Pre- or corequisite, MASC 505. Introduction to fundamental techniques used in biogeochemical research including sampling, instrumental and wet chemical analytical measurements, use of stable isotopes, and rate measurements using radioactive tracers.

552 [144] Organic Geochemistry (ENVR 525, GEOL 552) (3). Prerequisite, MASC 505 or CHEM 261, or permission of instructor. Sources, transformations, and fate of natural organic matter in marine environments. Emphasis on interplay of chemical, biological, and physical processes that affect organic matter composition, distribution, and turnover.

553 [145] Geochemistry (GEOL 512) (3). See GEOL 512 description.

560 [151] Fluid Dynamics (ENVR 452, GEOL 560, PHYS 660) (3). Prerequisite, PHYS 301 or permission of instructor. The physical properties of fluids, kinematics, governing equations, viscous incompressible flow, vorticity dynamics, boundary layers, irrotational incompressible flow.


562 Turbulent Boundary Layers (3). Prerequisite, MASC 506 or GEOL 560 or permission of instructor. Turbulence and transport in near-bottom boundary regions. Turbulence and mixing theory in boundary layers. Field deployment and recovery of turbulence measuring instruments. Data analysis from turbulence measurements.

563 Descriptive Physical Oceanography (GEOL 563) (3). Prerequisite, MASC 506 or permission. Observed structure of the large-scale and mesoscale ocean circulation and its variability, based on modern observations. In-situ and remote sensing techniques, hydrographic structure, circulation patterns, ocean-atmosphere interactions.

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Department of Mathematics
www.math.unc.edu

PATRICK B. EBERLEIN, Chair

Professors

Associate Professors
David Adalsteinsson, Jingfang Huang, Lev Rozansky.

Assistant Professors
Prakash Belkale, Laura Miller, Sorin Mitran, Peter Mucha, Richard Rimanyi.

Lecturers
Debra Etheridge, Mark McCombs, Elizabeth McLaughlin, Brenda Shryock.

Professors Emeriti

Introduction
Mathematics has always been a fundamental component of human thought and culture, and the growth of technology in recent times has further increased its importance. Today mathematics is an essential component in fields where once it played an active role. At the same time, mathematics itself continues to grow and develop through research, much of which is stimulated by interactions with other fields. Every educated person needs at least a familiarity with the language of mathematics, and even some more substantial knowledge of the technical aspects than in the past. People working in many fields find that areas of mathematics only recently thought to be sophisticated and advanced have become part of the everyday tools in their spheres of activity.

UNC-Chapel Hill offers a variety of degrees in mathematics and the mathematical sciences, providing students a wide choice of careers in this field. Among the jobs in industry, government, and the academic world that involve mathematics as a central aspect are: actuary, analyst, modeler, optimizer, statistician, computer analyst. Students who have an interest in working in one of these professions or who intend to pursue an advanced degree in one of the mathematical sciences should seriously consider the B.S. in mathematics (including the applied option) or one of the related degree programs in computer science or mathematical decision sciences (actuarial science, operations research, statistics).

Students intending to teach mathematics in the public schools and students enrolled in the School of Education who intend to major in mathematics should consult the School of Education section of this Bulletin or the director of mathematical education in the Department of Mathematics.

Finally, the B.A. in mathematics is a true liberal arts degree that opens the door to the continuing intellectual growth, enrichment, and self-fulfillment that are the goals of a liberal education. Students intending to enter a professional school (law, medicine, business) will find that admissions officers of such schools find an undergraduate degree in mathematics an attractive part of an applicant's history.
Students majoring in mathematics may enter either the B.A. or the B.S. program. The B.A. program is more flexible than the B.S. program; it allows one to specialize in mathematics and at the same time either to follow a broad liberal arts program or to specialize in a second area (possibly even taking a second major). The B.S. program is more comprehensive; it provides solid preparation for work or for further study in mathematics and related fields. Within the B.S. program, there is an applied option, which is designed for students who are primarily interested in using mathematics for the study of other sciences.

Both the B.A. and the B.S. degrees require, beyond first-year/sophomore calculus, courses in algebra and analysis at a higher level. Students who plan a career in a technical field should also develop familiarity with computers and statistics, for example by taking COMP 116 and some of STOR 355, 356, 435, and 555. The specific requirements for the B.A. and B.S. degrees are described below.

**Programs of Study**

The degrees offered are bachelor of arts and bachelor of science in mathematics. A minor in mathematics is also offered.

**Majoring in Mathematics: Bachelor of Arts**

All Foundations, Approaches, and Connections requirements of the General Education curriculum apply (see the General Education section of this Bulletin). The requirements specific to the major are as follows:

A. 1. MATH 231, 232, 233, 381, 383  
2. MATH 547 or 577 (preferably before the senior year)  
3. MATH 521  
4. At least three more mathematics courses numbered 435 or above 500  

B. The Supplemental General Education requirements of the College of Arts and Sciences, either the Distributive or Integrative option  
C. Eighteen hours of C or better (not C-) in mathematics courses listed in Part A (1-4) numbered 233 or higher

**Majoring in Mathematics: Bachelor of Science**

Students must complete either the B.S. or B.S.-Applied Option for a B.S. degree with a major in mathematics. All Foundations, Approaches, and Connections requirements of the General Education curriculum apply to students in both options.

**B.S. Degree with a Major in Mathematics**

**First and Sophomore Years**

A. 1. MATH 231, 232, 233, 381, 383  
2. COMP 116 or MATH 565  
3. PHYS 104 and 105 or PHYS 116 and 117  
4. Foreign language through level 4 (level 4 may be taken PS/D/F)

**Junior and Senior Years**

A. 1. MATH 547 or 577 (preferably before the senior year)  
2. MATH 521 and one of 522, 523, 528, or 566  
3. One of MATH 533, 534, 578, or 548  
4. At least three more mathematics courses numbered 435 or above 520  
C. Four or more courses in the Division of Natural Sciences and Mathematics (beyond the General Education requirements), but not in mathematics  
D. Eighteen hours of C or better (not C-) in mathematics courses numbered 435 or above 520

**B.S. Degree with a Major in Mathematics (Applied Option)**

**First and Sophomore Years**

A. 1. MATH 231, 232, 233, 381, 383  
2. COMP 116  
3. PHYS 116 and 117

**Junior and Senior Years**

B. 1. MATH 547 or 577  
2. MATH 521, 524, 528, 529, and 564  
3. MATH 522 or 523  
4. MATH 566 or 661  
5. STOR 355 and 356 or STOR 435 and 555

**C. Two or more courses in the Division of Natural Sciences and Mathematics (beyond the General Education requirements), but not in mathematics**

D. Eighteen hours of C or better (not C-) in mathematics courses numbered 435 or above 520

**Minoring in Mathematics**

A. MATH 231, 232, 233, 381, 383  
B. Three mathematics courses numbered 435 or above 500, all with a grade of C (not C-) or better

**Honors in Mathematics**

Special honors (A) sections are given in some mathematics courses when student demand is sufficient. Promising students are encouraged to work toward a bachelor's degree with honors in mathematics.

The Honors Program will consist of six or more courses approved by the departmental honors advisor. At some time during the semester in which he or she expects to graduate, the candidate for a degree with honors will either present an honors essay written under the direction of a faculty member or take an oral examination on courses approved by the honors advisor. Students writing an honors essay will be expected to make an oral presentation of the essay. Interested students should consult the departmental honors advisor as early as possible and in no case later than the beginning of their senior year.

**A Note on Advanced Placement and Sequential Credit in Mathematics Courses**

A student who makes a grade of 3 or higher on the AB Advanced Placement Examination will receive credit for MATH 231. A student who makes a grade of 3 or higher on the BC Advanced Placement Examination will receive credit for both MATH 231 and MATH 232. No credit for MATH 130 will be given on the basis of any advanced placement examination.

A student who is placed in one of the courses MATH 232 or 233 and receives a grade of C- or better in the course (on the first attempt) will be given credit (without grade) for the course in the sequence 231 and 232 that precedes the course taken.
No student can receive credit for MATH 116 or MATH 152 or MATH 130 after receiving credit for MATH 231. No student can receive credit for MATH 116 after receiving credit for MATH 152.

**Special Opportunities in Mathematics**

**Departmental Involvement**

Special activities for qualified students include an undergraduate Mathematics Club, a scholastic honorary society Pi Mu Epsilon, and a Putnam Examination Team. Students interested in these activities should consult the departmental honors advisor.

**Experiential Education**

Undergraduate honors research projects as well as some internships or study abroad programs might qualify.

**Teaching Internships and Assistantships**

Undergraduates work as research assistants in the Fluid Laboratory, as tutors in the Math Help Center and MathPort, and as homework graders.

**Study Abroad**

Opportunities include semester or year-long programs in a variety of countries.

**Undergraduate Awards**

The Archibald Henderson Prize and the Alfred Brauer Award recognize outstanding performance and promise in mathematics.

**Undergraduate Research**

Students can conduct original research with the guidance of a faculty member, usually directed at the preparation of an honors essay.

**Facilities**

An extensive computer system with up-to-date software, an outstanding mathematics-physics library, high-technology classrooms, and an undergraduate common room are available to students.

**Graduate School and Career Opportunities**

The B.S. degree program, especially if it includes the sequences MATH 521-522 and 577-578, is excellent preparation for graduate study in the mathematical sciences. The B.A. degree also can be excellent preparation for graduate study in many fields if the course program is complemented by electives in other areas. Professional schools of law, business, and medicine are becoming increasingly interested in broadly educated undergraduates, and a properly structured B.A. degree program in mathematics with additional courses is often taken as evidence that the student has good analytical abilities as well as a broad undergraduate background.

Both degrees are viewed by many employers as attractive, especially when accompanied by electives course work in areas such as statistics, computer science, economics, and operations research. Undergraduate mathematics majors are in demand in many business, industry, and government fields.

**Contact Information**

Karl Petersen, Director of Undergraduate Studies, CB# 3250, 300A Phillips Hall, (919) 962-2380, petersen@email.unc.edu; or Dylan Thurston, Assistant to the Director of Undergraduate Studies, CB# 3250, 356 Phillips Hall, (919) 962-0198, thurston@email.unc.edu. Web site: www.math.unc.edu.

**MATH**

050 [006P] First-Year Seminar: The Predictability of Chance and its Applications in Applied Mathematics (3). This seminar will examine the ways in which some types of behavior of random systems cannot only be predicted, but also applied to practical problems.

051 [006P] First-Year Seminar: “Fish Gotta Swim, Birds Gotta Fly”: The Mathematics and the Mechanics of Moving Things (3). This seminar allows students to have hands-on exposure to a class of physical and computer experiments designed to challenge intuition on how motion is achieved in nature.

052 [006P] First-Year Seminar: Fractals: The Geometry of Nature (3). Many natural objects have complex, infinitely detailed shapes in which smaller versions of the whole shape are seen appearing throughout. Such a shape is a fractal, the topic of study.

053 [006P] First-Year Seminar: Symmetry and Tilings (3). Through projects using software programs, Web sites, and readings, students will discover the geometric structure of tilings, learn to design their own patterns and explore the many interdisciplinary connections.

054 [006P] First-Year Seminar: The Science of Conjecture: Its Math, Philosophy, And History (3). Seminar will cover the history and philosophy of probability, evidence, and conjecture, consider the development of the field of probability, and look at current and future uses of probability.

055 [006P] First-Year Seminar: Geometry and Symmetry In Nature (3). The nature of space imposes striking constraints on organic and inorganic objects. This seminar examines such constraints on both biological organisms and regular solids in geometry.

056 [006P] First-Year Seminar: Information and Coding (3). With the growth of available information on almost anything, can it be reliably compressed, protected, and transmitted over a noisy channel? Students will take a mathematical view of cryptography throughout history and information handling in modern life.

057 [006P] First-Year Seminar: The Fourth Dimension (3). The idea of a fourth dimension has a rich and varied history. This seminar explores the concept of fourth (and higher) dimensions both mathematically and more widely in human thought.

058 [006P] First-Year Seminar: Math and Art: Symmetry without Fear (3). Students will mathematically classify rosette patterns, the eight frieze patterns, and the seventeen wallpaper patterns. Then they will take over exhibiting patterns from various cultures and local instances.

059 [006P] First-Year Seminar: The Mystery and Majesty of Ordinary Numbers (3). Problems arising from the arithmetic of ordinary counting numbers have for centuries fascinated both mathematicians and non-mathematicians. This seminar will consider some of these problems (both solved and unsolved).

060 [006P] First-Year Seminar: Simulated Life (3). This seminar introduces students to the thought process that goes into developing computational models of biological systems. It will also expose students to techniques for simulating and analyzing these models.

061 [006P] First-Year Seminar: The Language of Mathematics: Making the Invisible Visible (3). This course will consider mathematics to be the science of patterns and will discuss some of the different kinds of patterns that give rise to different branches of mathematics.
062 [006P] First-Year Seminar: Combinatorics (3). Students will discuss combinatorics' deep roots in history, its connections with the theory of numbers, and its fundamental role for natural science, as well as various applications, including cryptography and the stock market.

063 [006P] First-Year Seminar: From "The Sound of Music" to "The Perfect Storm" (3). In this seminar students will develop the conceptual framework necessary to understand waves, starting from laboratory observations.

064 [006P] First-Year Seminar: A View of the Sea: The Circulation of the Ocean and its Impact on Coastal Water (3). Why is the Gulf Stream so strong, why does it flow clockwise, and why does it separate from the U.S. coast at Cape Hatteras? Students will study the circulation of the ocean and its influence on coastal environments by reading the book A View of the Sea by the eminent oceanographer Hank Stommel and by examining satellite and on-site observations.

065 [006P] First-Year Seminar: Colliding Balls and Springs: The Microstructure of How Materials Behave (3). Students will follow the intellectual journey of the atomic hypothesis from Leucippus and Democritus to the modern era, combining the history, the applications to science, and the mathematics developed to study particles and their interactions.

066 [006P] First-Year Seminar: Non-Euclidean Geometry in Nature and History (3). The seminar will investigate non-Euclidean geometry (hyperbolic and spherical) from historical, mathematical, and practical perspectives. The approach will be largely algebraic, in contrast to the traditional axiomatic method.

100 [000R] Review of Basic Algebra (3). Prerequisite, placement by achievement test. Placement in this course is by the Mathematics Department based on testing that indicates that the student will have difficulty in MATH 110. Hours credit for this course cannot be used for any mathematics requirement and do not count for hours required for graduation.

110 [010] Algebra (3). Prerequisite, placement by achievement test. Provides a one-semester review of the basics of algebra. Basic algebraic expressions, functions, exponents, and logarithms are included, with an emphasis on problem solving. This course should not be taken by those with a suitable score on the achievement test.

116 [016] Intuitive Calculus (3). Provides an introduction in as non-technical a setting as possible to the basic concepts of calculus. The course is intended for the non-science major. A student may not receive credit for this course after receiving credit for MATH 152 or MATH 231.

117 [017] Finite Mathematics (3). Provides an introduction in as non-technical a setting as possible to the basic concepts of finite mathematics. Basic counting problems and finite probability problems are discussed. The course is intended for the non-science major.

118 [018] Selected Topics in Mathematics (3). Provides an introduction in as non-technical a setting as possible to selected topics in mathematics. Topics covered will vary each semester depending on the individual instructor's selection. The course is intended for the non-science major.

119 [019] Introduction to Mathematical Modeling (3). Provides an introduction to the use of mathematics for modeling real-world phenomena in a non-technical setting. Models use algebraic, graphical, and numerical properties of elementary functions to interpret data. This course is intended for the nonscience major.

130 [030] Precalculus Mathematics (3). Prerequisite, MATH 110. Covers the basic mathematical skills needed for learning calculus. Topics are: calculating and working with functions and data, introduction to trigonometry, parametric equations, and the conic sections. A student may not receive credit for this course after receiving credit for MATH 231.

152 [022] Calculus for Business and Social Sciences (3). Prerequisite, MATH 110. An introductory survey of differential and integral calculus with emphasis on techniques and applications of interest for business and the social sciences. This is a terminal course and not adequate preparation for MATH 232. A student cannot receive credit for this course after receiving credit for MATH 231.

231 [031] Calculus of Functions of One Variable I (3). Prerequisite, a grade of C or better in MATH 130 or placement by the department. Limits, derivatives, and integrals of functions of one variable.

232 [032] Calculus of Functions of One Variable II (3). Prerequisite, a grade of C or better in MATH 231 or placement by the department. Calculus of the elementary transcendental functions, techniques of integration, indeterminate forms, Taylor's formula, infinite series.

233 [033] Calculus of Functions of Several Variables (3). Prerequisite, MATH 232. Vector algebra, solid analytic geometry, partial derivatives, multiple integrals.

295 [098] Undergraduate Seminar in Mathematics (0-3). Prerequisite, permission of instructor. A seminar on a chosen topic in mathematics in which the students participate more actively than in usual courses.

296 [090] Undergraduate Reading and Research in Mathematics (1-3). Permission of director of undergraduate studies required. This course is intended mainly for students working on honors projects. No one may receive more than three semester hours credit for this course.

307 [067] Revisiting Real Numbers and Algebra (EDUC 307) (3). Central to teaching pre-college mathematics is the need for an in-depth understanding of real numbers and algebra. This course explores this content, emphasizing problem solving and mathematical reasoning.

381 [081] Discrete Mathematics (3). Prerequisite, MATH 232. This course serves as a transition from computational to more theoretical mathematics. Topics are from the foundations of mathematics: logic, set theory, relations and functions, induction, permutations and combinations, recurrence.


401 [101] Mathematical Concepts in Art (3). Mathematical theories of proportion, perspective (projective invariants and the mathematics of visual perception), symmetry, and aesthetics will be expounded and illustrated by examples from painting, architecture, and sculpture.

411 [111] Developing Mathematical Concepts (1-21). Prerequisite, consent of instructor. An investigation of various ways elementary concepts in mathematics can be developed. Applications of the mathematics developed will be considered. This course ordinarily is offered for in-service and prospective teachers.

416 [116] Linear Algebra (3). Prerequisite, MATH 232. An introduction to the theory of vector spaces, linear transformations, systems of linear equations, matrices, determinants, eigenvalues, diagonalization. A student may not receive credit for this course after receiving credit for MATH 547 or 577.

418 [118] Basic Concepts of Analysis (3). Prerequisites, MATH 232 and consent of instructor. Limits, continuity, differentiability, uniform continuity. Riemann integration. Infinite sequences and series; uniform convergence; power series. A student cannot receive credit for this course after receiving credit for MATH 563 or 521.

435 [126] Introduction to Probability (STOR 435) (3). Prerequisite, MATH 233. Introduction to mathematical theory of probability covering random variables; moments; binomial, Poisson, normal and related distributions; generating functions; sums and sequences of random variables; and statistical applications.

452 [107] Mathematical and Computational Models in Biology (BIOL 452) (4). Prerequisites, BIOL 202, BIOL 201, MATH 231, and either MATH 232 or STOR 155. This course will introduce analytical, computational, and statistical techniques, such as discrete models, numerical integration of ordinary differential equations, and likelihood functions, to explore topics from various fields of biology. Lab is included.

515 [115] History of Mathematics (3). Prerequisite, MATH 381. A general survey of the history of mathematics with emphasis on elementary mathematics. Some special problems will be treated in depth.

521 [121] Advanced Calculus I (3). Prerequisites, MATH 233 and 381. The real numbers, continuity and differentiability of functions of one variable, infinite series, integration.

522 [122] Advanced Calculus II (3). Prerequisite, MATH 521. Functions of several variables, the derivative as a linear transformation, inverse and implicit function theorems, multiple integration.

523 [123] Functions of a Complex Variable with Applications (3). Prerequisite, MATH 383. The algebra of complex numbers, elementary functions and their mapping properties, complex limits, power series, analytic functions, contour integrals, Cauchy's theorem and formulae, Laurent series and residue calculus, elementary conformal mapping and boundary value problems, Poisson integral formula for the disk and the half plane.


528 [128] Mathematical Methods for the Physical Sciences I (3). Prerequisites, MATH 383 and PHYS 104-105, or equivalent. Theory and applications of Laplace transform, Fourier series and transform, Sturm-Liouville problems. Students will be expected to do some numerical calculations on either a programmable calculator or a computer.

529 [129] Mathematical Methods for the Physical Sciences II (3). Prerequisites, PHYS 104-105, and one of MATH 521, 524, or 528 or equivalents. Introduction to boundary value problems for the diffusion, Laplace and wave partial differential equations. Bessel functions and Legendre functions. Introduction to complex variables including the calculus of residues.

533 [133] Elementary Theory of Numbers (3). Prerequisite, MATH 381. Divisibility, Euclidean algorithm, congruences, residue classes, Euler's function, primitive roots, Chinese remainder theorem, quadratic residues, number-theoretic functions, Farey and continued fractions, Gaussian integers.

534 [134] Elements of Modern Algebra (3). Prerequisite, MATH 381. Binary operations, groups, subgroups, cosets, quotient groups, rings, polynomials.

547 [147] Linear Algebra for Applications (3). Prerequisite, MATH 233. Algebra of matrices with applications; determinants, solution of linear systems by Gaussian elimination, Gram-Schmidt procedure, eigenvalues. MATH 416 may not be taken for credit after credit has been granted for MATH 547.

548 [148] Combinatorial Mathematics (3). Prerequisite, MATH 381 or equivalent, or permission of instructor. Topics chosen from: generating functions, Polya's theory of counting, partial orderings and incidence algebras, principle of inclusion-exclusion, Möbius inversion, combinatorial problems in physics and other branches of science.

550 [130] Topology (3). Prerequisite, MATH 233; corequisite, MATH 383 or permission of instructor. Introduction to topics in topology, particularly surface topology, including classification of compact surfaces, Euler characteristic, orientability, vector fields on surfaces, tessellations, and fundamental group.

551 [131] Euclidean and Non-Euclidean Geometries (3). Prerequisite, MATH 381 or permission of instructor. Critical study of basic notions and models of Euclidean and non-Euclidean geometries: order, congruence, and distance.

555 [155] Introduction to Dynamics (3). Prerequisite, MATH 383 or consent of instructor. Topics will vary and may include iteration of maps, orbits, periodic points, attractors, symbolic dynamics, bifurcations, fractal sets, chaotic systems, systems arising from differential equations, iterated function systems, and applications.

564 [145] Mathematical Modeling (3). Prerequisites, MATH 383, some knowledge of computer programming or permission of instructor. Model validation and numerical simulations using differential equations, probability, and iterated maps. Applications may include conservation laws, dynamics, mixing, geophysical flows and climate change, fluid motion, epidemics, ecological models, population biology, cell biology, and neuron dynamics.

565 [125] Computer Assisted Mathematical Problem Solving (3). Prerequisite, MATH 383. Personal computer as tool in solving a variety of mathematical problems, e.g., finding roots of equations and approximate solutions to differential equations. Introduction to appropriate programming language, emphasis on graphics.
566 [166] Introduction to Numerical Analysis (3). Prerequisites, MATH 383 and some knowledge of computer programming. Iterative methods, interpolation, polynomial and spline approximations, numerical differentiation and integration, numerical solution of ordinary and partial differential equations.

577 [137] Linear Algebra (3). Prerequisites, MATH 381 and 383. Vector spaces, linear transformations, duality, diagonalization, primary and cyclic decomposition, Jordan canonical form, inner product spaces, orthogonal reduction of symmetric matrices, spectral theorem, bilinear forms, multilinear functions. A much more abstract course than MATH 416 or 547.

578 [138] Algebraic Structures (3). Prerequisite, MATH 577 or 547. Permutation groups, matrix groups, groups of linear transformations, symmetry groups; finite abelian groups. Residue class rings, algebra of matrices, linear maps, and polynomials. Real and complex numbers, rational functions, quadratic fields, finite fields.

579 [157] Topics in Matrix Theory (3). Prerequisites, MATH 577 or equivalent, or MATH 547 or equivalent; and some knowledge of computer programming. Quadratic and Hermitian forms, Sylvestre's theorem; applications to systems of differential equations; approximation of eigenvalues and eigenvectors; non-negative matrices. Perron-Frobenius theorem; integer matrices with applications in combinatorics.

590 [175] Topics in Analysis (3). Prerequisite, MATH 522 or consent of instructor. Topics may include linear spaces, convexity, mathematical programming, duality, algorithms, or other subjects related to mathematical analysis.

591 [176] Topics in Algebra (3). Prerequisite, consent of instructor. Topics may include number theory, algebraic number theory; field theory, or algebraic geometry.

592 [177] Topics in Geometry (3). Prerequisite, consent of instructor. Topics may include non-Euclidean geometries, linear geometry, finite geometries, convexity, polytopes, topology, and algebraic geometry.

635 [195] Probability (STOR 635) (3). See course listings for Department of Statistics and Operations Research.

641 [189] Enumerative Combinatorics (3). Prerequisite, MATH 578. Basic counting, partitions, recursions and generating functions, signed enumeration, counting with respect to symmetry, plane partitions and tableaux.

643 [190] Combinatorial Structures (3). Prerequisite, MATH 578. Graph theory, matchings, Ramsey theory, extremal set theory, network flows, lattices, Mobius inversion, q-analogs, combinatorial and projective geometries, codes, and designs.


656 [196] Complex Analysis (3). Prerequisite, MATH 653. A rigorous treatment of complex integration, including the Cauchy theorem. Elementary special functions, power series, local behavior of analytic functions.


661 [191] Scientific Computation I (ENVR 661) (3). Prerequisites, some programming experience and basic numerical analysis. Error in computation, solutions of nonlinear equations, interpolation, approximation of functions, Fourier methods, numerical integration and differentiation, introduction to numerical solution of ODEs, Gaussian elimination.

662 [192] Scientific Computation II (COMP 662, ENVR 662) (3). Prerequisite, MATH 661. Theory and practical issues arising in linear algebra problems derived from physical applications; e.g., discretization of ODEs and PDEs. Linear systems, linear least squares, eigenvalue problems, singular value decomposition.


669 [199] Methods of Applied Mathematics II (ENVR 669) (3). Prerequisite, MATH 668 or permission. Perturbation methods for ODEs and PDEs, WKBJ method, averaging and modulation theory for linear and nonlinear wave equations, long-time asymptotics of Fourier integral representations of PDEs, Green's functions, dynamical systems tools.

676 [186] Modules, Linear Algebra, and Groups (3). Modules over rings, canonical forms for linear operators and bilinear forms, multilinear algebra, groups and group actions.

677 [187] Groups, Representations, and Fields (3). Internal structure of groups, Sylow theorems, generators and relations, group representations, fields, Galois theory, category theory.

680 [180] Geometry of Curves and Surfaces (3). Prerequisite, advanced calculus. Topics include: (curves) Frenet formulas, isoperimetric inequality, theorems of Crofton, Fenchel, Fary-Milnor; (surfaces) fundamental forms, Gaussian and mean curvature, special surfaces, geodesics, Gauss-Bonnet theorem.


Department of Microbiology and Immunology
microimmm.med.unc.edu

TBA, Chair

The Department of Microbiology and Immunology, a part of the School of Medicine, participates actively in the undergraduate curriculum in biology but does not offer a major leading to an undergraduate degree; however, several of the department's courses are open to students in the College of Arts and Sciences. MCRO 251 and 255 are open to some students with a minimum of science prerequisites but are specifically designed as prerequisites for the pharmacy or nursing curriculum. MCRO 631 is suggested for stu-
students considering a career in microbiology or immunology, but the entire sequence to 640 is available to the highly motivated student.

MCRO

050 First-Year Seminar: Infectious Disease in Society (3). Selected aspects of micro-organisms that cause infectious diseases, how new infectious diseases emerge, what bioterrorism is and how we are trying to counteract it in the United States, and how changes in the food supply have presented new infectious disease challenges.

052 First-Year Seminar: The Scientist in Society (3). Seminar participants discuss contemporary scientific issues that affect our daily lives from scientific and ethical viewpoints. Issues for discussion include: biological and nuclear warfare, the human genome project, animal husbandry, vaccination, emerging infectious diseases, the Tuskegee experiment, and the scientist’s responsibility to society.

251 [051] Introductory Medical Microbiology (4). Prerequisites, CHEM 101-102 or BIOL 107-108. An introductory course in microbiology that focuses on the structure, biology, and genetics of microbes in relation to human disease and the immune system. This course is oriented toward those planning careers in pharmacy, nursing, dental hygiene, and related fields. A recitation or lab is required. The recitation will cover topics such as drug resistance, the use of microbes in the development of new drugs, and the role of microbiologists in the field of biotechnology.

255 [055] Elementary Pathogenic Microbiology (4). Prerequisites, CHEM 101-102 or BIOL 107-108. An introductory course in microbiology that focuses on the structure, biology, and genetics of microbes in relation to human disease and the immune system. This course is oriented toward those planning careers in pharmacy, nursing, dental hygiene, and related fields. A recitation or lab is required. The recitation will cover topics such as drug resistance, the use of microbes in the development of new drugs, and the role of microbiologists in the field of biotechnology.

321 [124] Introduction to Immunology (Biol 321) (3). Prerequisites, BIOL 202, BIOL 205, and permission of instructor. This course provides a general overview of the evolution, organization, and function of the immune system. Instruction will be inquiry-based with extensive use of informational and instructional technology tools.

515 [112] Introduction to Microbiology (4). Open only to dental students. A course covering basic aspects of microbiology and immunology including sterilization, action of antimicrobial chemotherapeutic agents, concepts of infection and immunity, and the study of certain selected infectious agents. Twenty-eight lecture hours and seven laboratory hours.

614 [114] Immunobiology (3). Prerequisites, a strong background in molecular biology, eukaryotic genetics, and biochemistry, and permission of instructor. Advanced survey course with topics that include molecular recognition, genetic mechanisms of host resistance, development of cells and cell interactions; hypersensitivity, autoimmunity, and resistance to infection. Course material from textbook and primary literature. Three lectures.

615 [115] Special Topics in Microbiology or Immunology (three or more sections offered each semester) (1-21). Prerequisite, permission of the department except for department majors. Designed to introduce the student to research methods. Minor investigative problems are conducted with advice and guidance of the staff. Hours and credit to be arranged, any term. May be repeated for credit two or more semesters.

630 Virology (3). Prerequisites, molecular biology and cell biology. Current concepts of the chemistry, structure, replication, genetics, and natural history of animal viruses and their host cells.

631 [108] Advanced Molecular Biology I (BIOL 631, BIOL 631, GNET 631, PHCO 631) (3). Prerequisites for undergraduates, at least one undergraduate course in both biochemistry and genetics, and permission of instructor. DNA structure, function, and interactions in prokaryotic and eukaryotic systems, including chromosome structure, replication, recombination, repair, and genome fluidity. Three lecture hours.

632 [109] Advanced Molecular Biology II (BIOL 632, BIOL 632, GNET 632, PHCO 632) (3). Prerequisites for undergraduates, at least one undergraduate course in both biochemistry and genetics, and permission of instructor. RNA structure, function, and processing in biological systems including transcription, gene regulation, translation, proteins, and RNA transport.

635 Bacteriology (3). Prerequisites, course work in molecular biology and genetics. Topics include bacterial physiology, genetics, signal transduction, gene regulation, and the localization of proteins in bacteria.

640 [140] Microbial Pathogenesis (4). Prerequisite, MCRO 630, MCRO 635, or permission of the instructor. Comprehensive course encompassing the molecular and biological basis of bacterial and viral pathogenesis, including the role of the host response in contributing to the infectious disease process. Four lecture hours per week.

643 [117] Cell Structure, Function and Growth Control I (BIOL 643, CBIO 643, PHCO 643) (1-21). Prerequisites, undergraduate cell biology or biochemistry, or permission of instructor. Comprehensive introduction to cell structure, function, and transformation.

644 [118] Cell Structure, Function and Growth Control II (BIOL 644, CBIO 644, PHCO 644) (3). Prerequisites, undergraduate cell biology or biochemistry, or permission of instructor. Comprehensive introduction to cell structure, function, and transformation.

Department of Military Science

www.unc.edu/depts/armyrotc

MONTE YODER, Chair
Adjunct Professor
Monte Yoder, Lieutenant Colonel, U.S. Army

Adjunct Assistant Professors
Andy Anderson, Lieutenant Colonel, U.S. Army, Operations Officer
Scott Walton, Major, Executive Officer, U.S. Army
Mike Mullins, Lieutenant Colonel, U.S. Army, Admissions and Scholarship Officer

Introduction

The UNC-Chapel Hill Army Institute of Leadership/Reserve Officers Training Corps (ROTC) offers training to any student in the principles of leadership. In academic and hands-on environments, students learn and utilize leadership skills in demand today in the private sector and in the military. Those who complete the course of instruction, and are otherwise eligible, can be commissioned as a second lieutenant in the United States Army. In seeking the scholar-athlete-leader student, the program offers a wide variety of leadership experiences, academic challenges, and unique learning opportunities not available with any other department. Qualified students may receive scholarships, opportunities for study abroad in military exchange programs, adventure training such as Airborne and Air Assault School, or other leadership intern programs.

Students who successfully complete the program and meet Army requirements are commissioned in a branch within the Army, Army National Guard, or Army Reserve. Those choosing active duty have guaranteed job placement, worldwide travel opportunities, and an average starting salary of approximately $40,000, of which approximately one-third is tax-free. Graduates can expect to be promoted to captain and have a salary of approximately $60,000 in their fourth year of service. There is a minimum three-year commitment in exchange for receiving a commission. Different options in the program have different minimum service requirements.

Academics

Four-Year Program

Students enrolled in the four-year program take one class during each semester of the four years of college study. The first two years comprise the basic course and concentrate on leadership development, writing and communication skills, ethics and values, orientation to the profession of arms, and basic military skills such as land navigation and small unit movement. As juniors, students enter the advanced course. Academic and hands-on instruction include: application of leadership skills, advanced land navigation, military history, principles of military law, and small unit tactics. Between the junior and senior years, qualified students attend a four-week leadership development and assessment course at Fort Lewis, Washington. In their senior year, students submit their branch preferences and request either active duty or duty in the Army Reserve/National Guard (one weekend per month, two weeks a year). Those who meet all requirements for commissioning are promoted to the rank of second lieutenant upon graduation from UNC-Chapel Hill.

Two-Year Program

The two-year program provides an opportunity for students who did not attend the program in their first and sophomore years to meet the requirements for commissioning as officers in the U.S. Army. Students who have previously served in any of the armed services, active or reserve, are eligible to enroll directly into the advanced course at the Army Institute of Leadership. Others may attend a four-week leadership internship at Fort Knox, Kentucky, to complete basic course requirements. Attendance at this leaders training course is designed to introduce prospective cadets to the program and give them an understanding of the Army. A third way to receive basic course credit is through an accelerated on-campus training program tailored to prepare students for the advanced course. This option is available for select scholar-athlete-leaders. Qualifying by way of any of the above-mentioned avenues, a student is then eligible to contract and move to the advanced course leading to a commission.

Extracurricular Activities

Army ROTC offers a wide array of extracurricular activities. Students looking for excitement and action can volunteer to attend the basic airborne course, air assault, or mountain warfare training. Other opportunities include participation as a member of the Ranger Challenge Team or color guard as well as leadership opportunities in actual Army units both in the United States and around the world.

Program Eligibility

Army ROTC basic course classes are open to all first-year students and sophomores, with no eligibility requirements. Juniors and seniors may take basic course leadership classes with the permission of the course instructor. Those students who wish to obtain a U.S. Army commission upon graduation must meet minimum U.S. Defense Department requirements. These include: be a U.S. citizen; have a minimum GPA of 2.0; be medically qualified; meet the age requirement; and be recommended by the department chair.

Scholarships

Four-year scholarships are available for high school seniors. Three-and-a-half, three, two-and-a-half, and two-year scholarships are available to students already enrolled as full-time students at the University. These are merit-based scholarships. Successful candidates will meet the eligibility requirements listed above and have a GPA above 2.5. Scholarships pay full tuition, a book allowance, and a monthly stipend between $250 and $400 depending on the student’s year at the University. The North Carolina Army National Guard and the U.S. Army Reserve also have programs that can pay costs associated with attending the University. Upon graduation, cadets may become officers either in the active Army or remain in the Reserves.

Service Obligations

Upon contracting (upon receipt of a scholarship or usually in the junior year), the cadet incurs an obligation to serve in the United States Army. That service can be either active or reserve duty. Different programs have different obligations. Service obligations range from three years to eight years. The admissions and scholarship officer can provide more information.

Students seeking a commission must complete one semester of American military history and PHIL 272/PWAD 272 (Ethics of Peace, War, and Defense).

Contact Information

Prospective students are encouraged to check the departmental Web site, www.unc.edu/armyrotc, and then call the admissions officer (919) 962-5546, or cell (919) 636-2200 for an individual program assessment.

ARMY

050 [006E] First-Year Seminar: Leadership in the 21st Century (3). This seminar is for all first-year students who desire to become better leaders, both on campus and after graduation. The
course focuses on such topics as critical reasoning, creative thinking, problem solving, decision making, leadership theory and principles, followership, group dynamics, and goal setting.

100 [001] Leadership Laboratory (0). Drill and ceremony, marksmanship, land navigation exercises, first aid, small unit tactics, and confidence course training. Strongly encouraged for all basic course students and required for all advanced course students.

101 [011] Adventures in Leadership (1). This course offers an introduction to basic leadership in both corporate America and the Army, comparing and contrasting approaches. The curriculum includes: leader attributes and values; leadership styles; leadership/management structure; written and verbal communications; time management; goal setting.

102 [012] Adventures in Leadership (1). A sequel building on the material in ARMY 101, this course offers an introduction to basic leadership theories and techniques common to both corporate America and the Army: understanding your own cognitive preferences and learning style; active listening; developmental counseling; problem solving; types and formats of briefings; communicating orally and in writing; leader values.

190 [099] Seminar in Selected Topics of Military Science (1-3). Prerequisite, permission of the department chair. A detailed examination of current topics regarding the U.S. Army. Provides a course for Army ROTC cadets who require additional course work to meet commissioning and/or scholarship requirements due to extenuating circumstances.

196 [096] Independent Study (1-3). Prerequisite, permission of the department chair and an interview with the professor. Any serious student unable to schedule military science courses during their allotted time frames may sign up for any Army course through independent study.

200 [002] Leadership Laboratory (0). Drill and ceremony, marksmanship, land navigation exercises, first aid, small unit tactics, and confidence course training. Strongly encouraged for all basic course students and required for all advanced course students.

201 [031] Leadership Discovery (2). Develops leadership styles for application in small organizations. Students identify successful leadership characteristics of others through observation and self and through experiential learning exercises. Students maintain a leadership journal and discuss observations in small group settings. Required for cadre.

202 [032] Tactical Leadership (2). Introduction to planning, organizing, and leading small unit offensive and defensive operations. Also study of how application of leadership principles forges Army teams. Required for cadre.

301 [071] Military Science and Leadership (3). Prerequisite, completion of basic course (ARMY 101, 102, 201, and 202) or permission of the professor. Analyzes the profession of arms and the role of the officer. Develops abilities to organize, plan, and execute military operations. Hands-on experience in troop leading procedures, supervising other cadre. Conducts squad size battle drills. Required for cadre.

302 [072] Advanced Military Operations (3). Prerequisite, completion of ARMY 301 or permission from the professor. Study of doctrine, organization, equipment, and training of threat forces around the world. Continued development of abilities to conduct offensive and defensive operations building to platoon level. Required for cadre.

401 [091] Leadership and Management (3). Prerequisites, ARMY 301 and ARMY 302 or permission of the department chair. Theory and practice in leadership, management, and counseling. Emphasis on multitask planning and execution. Required for cadre.

402 [092] Officier (3). Prerequisites, ARMY 301 and ARMY 302 or permission of the department chair. Studies include introduction to the Uniform Code of Military Justice and establishing an ethical command climate. Emphasis is on critical areas junior officers should be familiar with to be successful future leaders. Required for cadre.

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Department of Music
music.unc.edu

TIM CARTER, Chair
Mark Evan Bonds, Associate Chair for Academic Studies
Richard Lub, Associate Chair for Applied Studies

Professors
Mark Evan Bonds, Tim Carter, Anneprett Fauser, Jon W. Finson,
Lynn D. Glasscock, Tonu Kalam, James E. Ketch, Susan A.
Klebanow, Richard Lub, James Moeser, John L. Nadas,
Severine Neff, Donald L. Osler, Terry E. Rhodes, Brooks de
Wetter-Smith, Michael Votta Jr., Brent S. Wissick.

Associate Professors
Allen Anderson, Anne MacNeil, Jocelyn Neal, Thomas Otten,
Stafford L. Wing.

Assistant Professors
Stephen Anderson, David Garcia, Mark Katz, Mayron Tseng,
Felix Woerner.

Lecturers
Jeanne Fischer, Valentin Lanzrein, Michael Kris, Susan Moeser.

Clinical Associate Professor
Daniel Huff.

Clinical Assistant Professor
Mérida Negrete.

Music Librarian and Adjunct Associate Professor
Philip Vandermeer.

Director of Band Activities
Jeffrey Fuchs.

Assistant Director of Athletic Bands
Matthew McClure.

Adjunct Faculty
Isobel Barta, Laura Byrne, John Brown, Dana Friedli, Sue
Klausmeyer, Andrew McAfee, David McChesney, Edmund
Paolonitio, Hugh Pradige, John Pederson, Barbara Peters,
Melissa Raley, Matthew Savage, Michael Schultz, Timothy
Sparks, Billy Stewart, Thomas Taylor.

Introduction
The Department of Music offers undergraduate programs to students who wish to study music within a strong liberal arts curriculum as well as to those who choose to specialize in composition, history, performance, or theory, or who wish to undertake preparation for graduate training in public school teaching. The department's graduate program in musicology (M.A. and Ph.D.) is ranked among the highest in the nation.
The bachelor of arts program provides a focus on music in the context of a broad education in the liberal arts, requiring 43 credit hours in music and at least 75 outside the major (120 total credit hours). Students completing this degree are prepared for graduate study in music, though many successfully pursue further training and/or employment in professional fields such as arts administration, business, law, librarianship, and medicine. Many B.A. candidates are double majors.

The bachelor of music degree places emphasis on specialized training in music, requiring 66 credit hours in music and 54 outside the major (120 total credit hours). This program is designed for (but not limited to) students who hope subsequently to pursue graduate study in music performance, composition, music education, or musical scholarship.

Students in both programs may pursue pathways in areas such as composition, jazz studies, music history, music theory, performance, or popular music; further advice is available from the director of undergraduate studies in music.

The department also offers academic courses designed for non-majors (for which an ability to read musical notation is not required), many of which satisfy various General Education requirements. In addition, any University student may be eligible to take applied lessons in an instrument or voice (subject to a fee; further details are given below) and may participate in the department's performance ensembles (orchestras, choirs, wind ensembles, athletic bands, jazz groups, etc.), in either case for college credit.

Admission

Students are admitted to the various degree programs through the regular admissions process established by the University. Prospective students intending to major in music are urged to contact the Department of Music for an audition during the year prior to anticipated enrollment in order to strengthen their application credentials and to compete for scholarships offered by the department, including the prestigious William R. Kenan Jr. Music Scholarship Program. Students holding these scholarships are normally required to pursue a major in music (B.A. or B.Mus.) and to participate in specified ensembles.

Programs of Study

The degrees offered are bachelor of arts in music and bachelor of music. A minor in music is also offered.

Music Core Curriculum

All students pursuing an undergraduate degree majoring in music must complete the department's core curriculum, consisting of four courses in music history, four courses of music theory, and at least four separate semesters (or the equivalent) of ensemble. The distribution of courses in each area is shown below.

Music history (12 hours):
- MUSC 251 Studies in Music History to 1650
- MUSC 252 Studies in Music History, 1650-1850
- MUSC 253 Studies in Music History since 1850
- MUSC 355 Topics in the History and Culture of Music

Music theory (15 hours):
- MUSC 131/131L Theory-Musicanship I with lab
- MUSC 132/132L Theory-Musicanship II with lab
- MUSC 232/232L Theory-Musicanship III with lab (MUSC 132/132L with a grade of C or better is a prerequisite)

MUSC 132/132L with a grade of C or better is a prerequisite.

and one course selected from: MUSC 234, 331, 332, 333, or 338.

Ensemble (four hours):

four separate semesters (or the equivalent) of large or appropriate ensemble

Majoring in Music: Bachelor of Arts

In addition to completing the Department of Music's core curriculum as described above, students pursuing the B.A. in music must complete an additional twelve hours of music elective credit. Taken together with the 31 hours required by the music core, students complete a total of 43 hours in music, which is combined with at least 75 hours outside the department for a total of 120 hours overall. Note: candidates for the B.A. may receive no more than 45 credit hours in music and must complete a minimum of 75 hours of course work outside music, including all General Education requirements (as described elsewhere in this bulletin).

Majoring in Music: Bachelor of Music

(B.Mus.)

In addition to completing the Department of Music's core curriculum described above, students pursuing the B.Mus. must complete:

- A minimum of 14 hours of applied instruction, and normally 16.
  This requirement will usually be met by advanced applied lessons
  drawn from MUSC 200-206 taken over eight semesters (two
  credit hours per semester). Up to four hours of MUSC 200-206
  lessons may be substituted by up to six hours of MUSC 300-306
  recitals. Students may petition the director of undergraduate
  studies to count toward this requirement no more than two hours
  of MUSC 100-106 applied lessons; to waive one semester of
  MUSC 200-206 lessons in the case of Study Abroad or similar
  experience; or to substitute an approved number of credit hours
  from MUSC 166 and MUSC 266.

- Four additional separate semesters (or the equivalent) of appro-
  priate departmental ensembles (four hours additional to the four
  hours in the music core)

- Additional hours of music elective credit for a total of 66 hours
  of music. Combined with 54 hours outside music, students com-
  plete 120 hours overall. All candidates for the B.Mus. must com-
  plete 54 hours outside of music, including all General Education
  requirements (as described elsewhere in this bulletin).

Students interested in gaining certification to teach music in North Carolina public schools may take a prescribed course of study in preparation to apply for the master of arts in teaching program offered through the School of Education. Admission to the M.A.T. program requires a separate application to the Graduate School in a candidate's senior year. Students who complete the M.A.T. program are eligible for North Carolina advanced level licensure. Further details of B.Mus. emphases are available from the department's undergraduate advisors.

Minoring in Music

The Department of Music offers one minor in music (15 hours). Students are required to take MUSC 121 (three hours; which may be substituted by MUSC 131 for qualified students), one of MUSC 141-147 or 188 (three hours), and one of MUSC 240, 248, 280-288, or 363 (three hours). The remaining six hours are to be taken from other
academic courses, individual applied instructions, or ensembles offered in the department, subject to prerequisites and other admission requirements, and to the approval of the director of undergraduate studies.

Honors in Music

Students interested in becoming candidates for a degree with honors in music should read the regulations governing departmental honors in the College of Arts and Sciences, found elsewhere in this bulletin, and should consult the honors advisor of the department toward the end of the sophomore year. The department has funds to support undergraduate research (defined to include creative activity) that are often used by students for honors theses and similar independent studies.

Study Abroad

The department actively encourages study abroad and has relationships with numerous institutions that permit students to pursue their musical and other interests in an international context.

Contact Information

The director of undergraduate studies is Professor Allen Anderson, CB# 3320, Hill Hall, (919) 962-2276. For information on scholarships, contact Jeffrey Fuchs, CB# 3320, Hill Hall, (919) 962-5695.

Web site: music.unc.edu

Academic and Practical Courses in Music

The following courses, plus applied instruction and ensembles (covered separately, below), are among those offered by the Department of Music. Not all of these courses will be offered in a given year or summer session; for further details, see the directory of classes.

An ability to read music notation is not normally required to complete the following courses: MUSC 51-63, 141-147, 188, 240, 248, 280-288. Such an ability is also not normally required for admission to MUSC 121.

Note that numerous courses in music also meet General Education requirements.

MUSC


052 [006K] First-Year Seminar: Building a Nation: The Stage Musicals of Rodgers and Hammerstein, 1942-9 (3). Oklahoma!, Carousel, and South Pacific in their political, social, and cultural contexts.


054 [006K] First-Year Seminar: Music and Magic (3). The perceived and actual relationships between music and magic in a range of historical periods.

056 [006K] First-Year Seminar: Early-Modern Court Spectacle (3). Music and spectacle in the late-medieval, Renaissance, and baroque courts of Europe.

057 First-Year Seminar: Music and Drama – Verdi’s Operas and Italian Romanticism (3). Textual and musical analysis of Verdi’s operas (libretto and score) in their socio-historical contexts.


062H [006K] First-Year Seminar: Vienna – City of Dreams (3). Vienna in the early 1900s as a locus for modernism.

063 First-Year Seminar: Music on Stage and Screen (3). Music on Stage and Screen is designed to offer students the tools and techniques for understanding multi-media, staged musical works like opera, musical theater, and film. The goal of the seminar is to develop students' analytical skills in verbal and non-verbal media and to encourage their visualization of the potential and implications of artistic forms and structures.

100-115. See Individual Applied Instruction and Ensembles, below.

121 [021] Fundamentals of Music I (3). Notational and theoretical materials of music, with musicianship skills developed. Intended for the nonmajor who wishes to learn to express musical ideas in clear, correct notational form.

122 [022] Fundamentals of Music II (3). Prerequisite, MUSC 121 or equivalent. Nonmajors only. A continuation of MUSC 121 with the addition of basic instrumentation and arranging.

123 [060] Diction for Singers I (English/Italian) (1). Prerequisite, permission of instructor. Basic principles of diction for singers in English/Italian presented through the use of the International Phonetic Alphabet.

124 [062] Diction for Singers II (French) (1). Prerequisite, MUSC 123 or permission of instructor. Basic principles of diction for singers in French.

125 [061] Diction for Singers III (German) (1). Prerequisite, MUSC 123 or permission of instructor. Basic principles of diction for singers in German.

131 [031L] Theory - Musicianship I (3). Corequisite, MUSC 131L. Primarily for prospective or actual music majors; other students may enroll by permission. In all cases, admission is subject to a diagnostic test. An intensive introduction to music theory and analysis for students intending to continue in the department's music theory core courses. The course also covers basic contrapuntal writing and introductory principles of harmony and voice leading.

131L [031L] Theory and Musicianship Lab I (1). Corequisite, MUSC 131 or 131H. Basic musicianship skills, including music notation, basic composition, score analysis, keyboard, sight singing, and ear training.

132 [032] Theory - Musicianship II (3). Prerequisites, MUSC 131 or 131H, MUSC 131L; corequisite, MUSC 132L. Primarily for prospective or actual music majors; other students may enroll by permission. A continuation of MUSC 131 covering aspects of diatonic harmony and voice leading.
132L [032L] Theory and Musicianship Lab II (1). Prerequisites, MUSC 131 or 131H, MUSC 131L; corequisite, MUSC 132. A continuation of MUSC 131L, with emphasis on intermediate-level musicianship skills.

135 [035] Jazz Theory (3). Prerequisite, MUSC 121, 131, or 131H. An introduction to the musical materials of jazz, including chord/scale relationships, functional keyboard skills, and harmonic analysis.


141 [041] Survey of Western Music History (3). Nonmajors only. A chronological survey of the history of Western art music from roughly 1500 to the present.

142 [042] Great Musical Works (3). Nonmajors only. The study of selected works from the Western art tradition, with an emphasis on critical understanding.


144 [044] Introduction to Country Music (3). A survey and investigation of country music from 1920 to the present. Music of Jimmie Rodgers, Hank Williams, Willie Nelson, Patsy Cline, Garth Brooks, and others. May count as elective credit beyond the core for music majors.

145 [045] Introduction to Jazz (3). A survey of jazz music from its origins to the present. The course builds skills in critical listening and blends discussion of musical materials and historical and cultural contexts. May count as elective credit beyond the core for music majors.

146 [046] Introduction to World Musics (3). The study of music in and as culture. Topics may include the performance cultures of Native America, South Asia, Australia, Africa, East Asia, Southeast Asia, Europe, and the Americas. May count as elective credit beyond the core for music majors.

147 [047] Introduction to Latin(o) American Music (3). An introduction to contemporary Latin(o) American popular music, focusing on how musicians have negotiated an increasingly global popular culture industry.

163 [063A] Jazz Improvisation I (3). Prerequisite, MUSC 121, 131, or 131H; or permission of instructor. An introductory course in the development of improvisational skills for the jazz idiom. The primary focus is the introduction of nomenclature, the development of basic jazz vocabulary, and the application of this knowledge using basic jazz tune types.

166 [066] Introduction to Composition (3). Prerequisites, MUSC 131 or 131H, MUSC 131L. The study of compositional techniques and the development of individual creative styles through imitative and original writing.

167 [067] Instrumentation (3). Prerequisite, MUSC 121, 131, or 131H. Practical exercises in scoring and arranging for various combinations from single instrumental choirs to full concert orchestra, with trial group performances.

168 Basic Conducting (3). Basic conducting techniques, score reading, and music performance evaluation for choral and instrumental groups.

169 [069] Jazz Composition and Arranging (3). Prerequisite, MUSC 121, 131, or 131H; or permission of instructor. An introduction to composing and arranging for small- and large-group jazz ensembles.

170 [070] Piano Pedagogy/Literature I (3). Prerequisite, MUSC 132 or 132H. Focus is twofold: 1) fundamentals of piano teaching; 2) survey of piano literature.

171 [071] Piano Pedagogy II (3). Prerequisite, two years of piano instruction at college level. Intended primarily for B.Mus. students. Problems, materials, and methods in teaching piano to older students of high school and early college age.

188 [048] Introduction to Women and Music (WMST 188) (3). The role of women in performance, composition, patronage and the music business across a wide range of repertories. May count as elective credit beyond the core for music majors.


226 Winds and Percussion Techniques (3). Primarily for students preparing for admission to the M.A.T. program. An introduction to basic performance skills on representative woodwind, brass, and percussion instruments.

227 Strings, Piano, and Voice Techniques (3). Primarily for students preparing for admission to the MAT program. An introduction to basic performance skills on keyboard, voice, and representative string instruments.

228 [017] Advanced Problems (3). Prerequisites, MUSC 226, 227. A continuation of MUSC 226/227, allowing students the opportunity to further develop performance skills and pedagogical techniques in music education through intensive study in wind, string, percussion, keyboard, and vocal areas.

232 [037] Theory - Musicianship III (3). Prerequisites, MUSC 132 or 132H, MUSC 132L, both with a grade of C or better; corequisite, MUSC 232L. A continuation of MUSC 132/132H covering aspects of chromatic harmony, form, and modulation.

232L [037L] Theory and Musicianship Lab (1). Prerequisites, MUSC 132 or 132H, MUSC 132L; corequisite, MUSC 232. A continuation of MUSC 132L, with emphasis on intermediate- to advanced-level musicianship skills.

234 [059] World Musics in Theory and Practice (3). Prerequisites, MUSC 132 or 132H, MUSC 132L, or permission of instructor. Through transcription and analysis, students will explore a range of non-Western musical systems. Indigenous aesthetic theories will be used as an aid in interpretation.


239 [039] Introduction to Music Technology (3). A practical study of selected aspects of computerized music technology, including one or more of music-notation software, MIDI sequencing, digital sound production and storage, and computer composition.

240 [090] Performance in Southeast Asia: Gongs, Punks, and Shadow Plays (ASIA 240) (3). The study and comparison of
contemporary Southeast Asian performance genres (music, theatre, dance, ritual) in historical and cultural contexts.

248 [091] Women in Opera (WMST 248) (3). An examination and exploration of women’s changing roles and influence, on stage and behind the scenes, in the history of opera.

251 [051] Studies in Music History to 1650 (3). Music in its historical context and the developing musical language from classical antiquity through 1650.


258 [058] Musical Movements: Migration, Exile, and Diaspora (INTERN 258) (3). Prerequisites, MUSC 132 or 132H, MUSC 132L. The musical results of migrations of all types (voluntary or forced) by way of case studies drawn from historical and/ or contemporary musics of Africa, the Americas, Asia, and Europe.

263 [063B] Jazz Improvisation II (3). Prerequisite, MUSC 163. Continuation of MUSC 163, examining more advanced improvisational techniques, harmonic materials, and compositional tone types.

266 [093] Composition (3). Prerequisite, MUSC 166 or permission of instructor. Original compositions in various forms. May be repeated for credit.

267 [074] Orchestration (3). Prerequisite, MUSC 167. Practical orchestral scoring with emphasis on understanding and imitating historical styles from Mozart through Ravel.

268 Intermediate Conducting (3). Intermediate conducting for instrumental or vocal ensembles.

280 [080] Jazz Innovators (3). Nonmajors only. Musical, historical, cultural, and social issues in jazz studied through the examination of innovative and influential jazz artists.

281 [081] Popular Song in American Culture (3). Nonmajors only. The relationship between popular song and culture in American society is explored by focusing on an important historical repertoire or interpretive theme.

282 [082] Bach and Handel (3). Nonmajors only. The culmination of baroque music, emphasizing Bach’s cantatas, concertos, organ music, and instrumental music, and Handel’s oratorios and operas, all in their cultural contexts.

283 [083] Haydn and Mozart (3). Nonmajors only. The high point in Viennese music of the late 18th century, emphasizing Haydn’s symphonies and quartets, and Mozart’s operas and piano concertos.

284 [084] Beethoven and His Era (3). Nonmajors only. Beethoven’s music will be studied in the context of social structures and concepts about artists during his lifetime.

285 [085] Musical Modernism (3). Nonmajors only. A study of the work of diverse composers characteristic of music since c1880 viewed in their broader artistic and other contexts.

286 [086] Music as Culture (3). Nonmajors only. Music in the framework of its social, political, economic, and cultural contexts. May be repeated for credit if on a different topic.

287 [087] Opera as Drama (3). Nonmajors only. An introduction to music as related to drama, especially the development of opera and related genres. Study of selected works from different periods and styles.

288 [088] The Orchestra and Its Music (3). Nonmajors only. Study of the symphony orchestra, its instruments, and its historical development from the mid-18th century to the present, and the music it plays, including selected works in a variety of styles.

289 Sounds of War (3). Music’s roles in war and revolution within various political, social, and cultural contexts. Part of the cluster ‘War, Revolution and Culture-Transatlantic Perspectives, 1750-1850.’

296 [098] Special Studies for Undergraduates (3). Available only to music majors by permission of the director of undergraduate studies. Intensive study on a particular topic under faculty supervision.

300-306. See Individual Applied Instruction and Ensembles, below.

331 [064] Form and Analysis (3). Prerequisites, MUSC 232, 232L. The study of selected musical repertories. May be repeated for credit if on a different topic.

332 [065] Counterpoint (3). Prerequisites, MUSC 232, 232L. The study of two-, three-, and four-voice counterpoint, for example, in the style of Palestrina, Bach, or 20th-century idioms.


355 [055] Topics in the History and Culture of Music (3). Prerequisites, MUSC 251, 252, 253; or permission of instructor. Topics will vary each semester and may address a particular genre, composer, compositional issue, or repertoire, including non-Western and popular musics. May be repeated for credit if on a different topic.

363 [095] Studies in Jazz (3). Advanced study on a selected topic in jazz. Topics will vary and may address a particular genre, composer, performance practice, compositional issue, or repertoire. May be repeated for credit if on a different topic.

368 [096; 097] Advanced Conducting (3). Prerequisite, MUSC 268 or permission of instructor. Advanced conducting for instrumental (sections 001, 003) or choral (section 002) ensembles. May be repeated for credit if on a different section.

390H [HNRS 027K] Honors Seminar in Music (3.0). Detailed investigation of a specific musical topic from historical and/or theoretical perspectives.

471 [171] Instrumental Performance Repertory (3). Advanced study of selected performance issues.

691H [099] Senior Honors Thesis in Music I (3). Prerequisites, grade point average of 3.5 or higher and permission of the depart-
ment's honors advisor. Independent study by a student who has been designated a candidate for undergraduate honors in music.

692H Senior Honors Thesis in Music II (3). Prerequisites, MUSC 691H. Continuance and completion of an honors thesis in music.

Individual Applied Instruction and Ensembles

Instruction for academic credit in keyboard, wind, brass, percussion, and string instruments, and in voice is available to University students. Fees are charged for lessons according to an annual schedule published by the department. Music majors are given priority, but nonmajors are also welcomed, subject to the limits of available faculty time. All students wishing to enroll must first gain the permission of the appropriate instructor or area head to register for applied instruction; this will normally involve an audition. Once permission has been granted, the registration process for academic credit can be done only by the Music Department registrar, who is also responsible for procedures leading to billing and the formal assignment to a teacher.

All students must enroll during the regular University registration period at the beginning of each semester. Music fees are to be paid during the registration period; if fees remain unpaid, lessons will be discontinued.

Individual lessons earn 0.5 or one credit hour per semester (MUSC 100-115; depending on the duration of the weekly applied lesson), two credit hours per semester (MUSC 200-207), or three credit hours per semester (MUSC 300-306).

Students pursuing the B.Mus. degree normally enroll for eight semesters of two-credit-hour lessons on their main instrument, encompassing eight semesters of weekly one-hour lessons and a weekly studio class. These lessons are numbered MUSC 200-207; they may be substituted under the terms outlined above. With the approval of the director of undergraduate studies, students may declare two main instruments. MUSC 200-207 are also available to appropriately qualified students pursuing the B.A. degree majoring in music, and also the music minor.

Students pursuing the B.Mus. or B.A. degree who wish to include a recital in their applied study should substitute lessons numbered MUSC 300-306 for their MUSC 200-206 lessons. MUSC 300-306 lessons with recital may be taken in up to two semesters during a student's degree; they replace (from fall 2007) the courses formerly known as MUSC 210 (Junior Recital) and MUSC 310 (Senior Recital). MUSC 300-306 lessons have a prerequisite of six credit hours of the equivalent MUSC 200-206 lessons.

Music majors pursuing the B.A. degree, music minors, and nonmajors, as well as students pursuing the B.Mus. degree wishing to study a second instrument, may enroll for MUSC 100-106 lessons for 0.5 or one credit hours (a 30-minute or one-hour lesson per week), subject to their availability. Group lessons (one credit hour) may also be available on selected instruments (MUSC 110-115).

MUSC 100-115, MUSC 200-207, and MUSC 300-306 are normally offered each semester and are subject to admission and other requirements being met. MUSC 100-115, MUSC 200-207, and MUSC 300-306 may be repeated for credit for degree (not within term), subject to a grade of C or better in the immediately prior enrollment in the course.

A wide variety of department ensembles under MUSC 211-215 is open to all students by audition. Each earns one credit hour per semester and may be repeated for credit for degree and in some cases within term. Students should check with the Music Department registrar for more information concerning requirements and procedures for the auditions, which are typically held during the first week of each semester. B.Mus. candidates must participate in appropriate ensembles for eight separate semesters (or the equivalent), i.e., eight hours total. B.A. candidates majoring in music must participate in appropriate ensembles for four separate semesters (or the equivalent), i.e., four hours total. "Appropriate" ensembles are normally drawn from sections of MUSC 211. Substitutions by sections of MUSC 212 may be permitted for jazz specialists (Jazz Band); guitarists (Guitar Ensemble); voice students (Opera Workshop; once, or exceptionally twice, within the degree); and pianists (Piano Ensemble I-II [once each] and Collaborative Piano).

A music major (B.Mus. or B.A.) may enroll for individual instruction in other instruments, or class instruction in applied music, or other ensembles, depending upon his or her abilities, needs, interests, and available time. Such students, however, may count no more than three additional ensemble hours towards their degree as music or general electives.

Students should note that applied lessons are identified by instrument family (keyboard, voice, strings, woodwinds, brass, percussion) with sections by instructor (details will be available at registration) and that ensembles are identified by category with sections by ensemble (details are given below). Please take particular care to enroll for the correct section(s).

Applied Area Heads

Piano: Mayron Tsong.
Strings: Brent Wissick.
Voice: Stafford Wing.
Woodwind, Brass, and Percussion: Lynn Glassock.

Directors of Ensembles, etc.

Symphony Orchestra: Tonu Kalam.
Chamber Orchestra: Tonu Kalam.
Wind Ensemble: Michael Votta.
Jazz Band: James Ketch.
Brass Chamber Music: Michael Kris.
Woodwind Chamber Music: Donald Oehler.
String Chamber Music: Brent Wissick, Richard Luby.
University Chamber Players: Donald Oehler.
Collaborative Piano: Thomas Otten.
Athletic Bands: Jeffrey Fuchs.
Guitar Ensemble: William Stewart.
Percussion Ensemble: Lynn Glassock.
Symphony Band: Jeffrey Fuchs.
Gamelan: Staff.
Viol Consort: Brent Wissick.
University Band: Matthew McClure.
Carolina Choir: Susan Klebanow.
University Chorus: Summer staff.
Chamber Singers: Susan Klebanow.
Men's Glee Club: Daniel Huff.
Opera Workshop: Terry Rhodes.
Women's Glee Club: Sue Klausmeyer.
Collegium Musicum: Staff.
Lighter Shade of Blue: Daniel Huff.
Applied Music Courses

MUSC

100 [001A-C] Individual Keyboard Lessons (0.5-1). Individual lessons in piano, organ, or harpsichord. Sections by instructor.

102 [002] Individual Voice Lessons (0.5-1). Sections by instructor.

103 [003A-F] Individual String Lessons (0.5-1). Individual lessons in violin, viola, cello, string bass, harp, or guitar. Sections by instructor.

104 [004A-F] Individual Woodwind Lessons (0.5-1). Individual lessons in flute, oboe, clarinet, saxophone, bassoon, or recorder. Sections by instructor.

105 [005A-E] Individual Brass Lessons (0.5-1). Individual lessons in French horn, trumpet, trombone, tuba, or euphonium. Sections by instructor.

106 [009] Individual Percussion Lessons (0.5-1). Sections by instructor.

107 Applied Instruction (0.5-1). Group or individual instruction in a specified instrument offered by the department. Sections by instructor.


112 [003Z] Group Lessons in Strings (1). Group lessons in violin, viola, cello, string bass, or guitar. Sections by instructor.

113 [004Z] Group Lessons in Woodwinds (1). Group lessons in flute, oboe, clarinet, saxophone, bassoon, or recorder. Sections by instructor.

114 [005Z] Group Lessons in Brass (1). Group lessons in French horn, trumpet, trombone, tuba, or euphonium. Sections by instructor.


207 Advanced Applied Instruction (2). Advanced instruction in a specified instrument offered by the department. Sections by instructor.

211 [007A, 007C, 007P, 008A, 008C-D, 008F] Core Ensembles (1). Sections by ensemble: Symphony Orchestra; Wind Ensemble; Symphony Band; Carolina Choir; Chamber Singers; Men's Glee Club; Women's Glee Club.

212 [007E, 007M, 007K, 007V-W, 008E] Core Ensemble Alternates (1). Sections by ensemble: Jazz Band; Guitar Ensemble; Piano Ensemble I: Duet/Collaborative (corequisite, MUSC 200; may be taken only once); Piano Ensemble II: Vocal/Instrumental Accompaniment (must be preceded by Piano Ensemble II; may be taken only once); Collaborative Piano (must be preceded by Piano Ensemble I–II); Opera Workshop.

213 [007B, 007L, 007N, 007Q, 007U] Enrichment Ensembles I: Large Instrumental (1). Sections by ensemble: Marching Pep Band; Jazz Lab Band; Percussion Ensemble; Gamelan; Chamber Orchestra; University Band.

214 [007D, 007E, 007G, 007H, 007J, 007R] Enrichment Ensembles II: Instrumental (1). Sections by ensemble: University Chamber Players; String Chamber Ensembles; Woodwind Chamber Ensembles; Brass Chamber Ensembles; Jazz Combos; Viol Consort; New Music Ensemble; Charanga Carolina.

215 [008B, 008G, 008H] Enrichment Ensembles III: Vocal/Choral (1). Sections by ensemble: Lighter Shade of Blue; Collegium Musicum; University Chorus.

300 Advanced Keyboard Lessons and Recital (3). Prerequisites, MUSC 200 (six credit hours) and permission of instructor. Advanced individual keyboard lessons leading to a public recital.

302 Advanced Voice Lessons and Recital (3). Prerequisites, MUSC 202 (six credit hours) and permission of instructor. Advanced individual voice lessons leading to a public recital.

303 Advanced String Lessons and Recital (3). Prerequisites, MUSC 203 (six credit hours) and permission of instructor. Advanced individual string lessons leading to a public recital.

304 Advanced Woodwind Lessons and Recital (3). Prerequisites, MUSC 204 (six credit hours) and permission of instructor. Advanced individual woodwind lessons leading to a public recital.

305 Advanced Brass Lessons and Recital (3). Prerequisites, MUSC 205 (six credit hours) and permission of instructor. Advanced individual brass lessons leading to a public recital.

306 Advanced Percussion Lessons and Recital (3). Prerequisites, MUSC 206 (six credit hours) and permission of instructor. Advanced individual percussion lessons leading to a public recital.

Department of Naval Science

www.unc.edu/depts/nrotc

STEPHEN D. MATTS, Chair
Adjunct Professor
Stephen D. Mats, Captain, USN

Adjunct Associate Professor
Timothy Nichols, Lieutenant Colonel, USMC

Instructors
Chad Fleming, Captain, USMC; Brian G. Lubitz, Lieutenant, USN; Ian J. Hildreth, Lieutenant, USN; Jeff A. Gerring, Lieutenant Junior Grade, USN
Introduction
Since its commissioning in 1941, the Naval Reserve Officers Training Corps unit of the University of North Carolina at Chapel Hill has commissioned hundreds of officers into the Navy and the Marine Corps. The proud tradition established at Chapel Hill is highlighted by the fact that at one time only the Naval Academy had commissioned more naval officers than this University.

The purpose of the Naval Reserve Officers Training Corps is to provide a source of highly qualified officers to serve on ships, as aviators and submariners, or in the Marine Corps. Additionally, the NROTC program offers scholarships for students pursuing a degree in nursing. Students (midshipmen) who obtain a baccalaureate degree and who satisfy academic and physical requirements are commissioned as either ensigns in the Navy or second lieutenants in the Marine Corps. Nursing degree students receive ensign commissions in the Navy Nurse Corps. Students may participate in NROTC in one of two programs - the NROTC Scholarship Program or the NROTC College Program. NROTC scholarships provide for books, fees, tuition, uniforms, and a monthly allowance of $250 to $400. Students participating in the college program receive their NROTC books, uniforms, and a monthly allowance of $350 to $400 during the junior and senior years. A major advantage of the college program is the excellent opportunity to win two- and three-year NROTC scholarships.

Regardless of enrollment category, many things are common to both programs:
• Most naval science courses carry academic credit.
• No military obligation is incurred until the sophomore year for scholarship midshipmen and until the junior year for college program midshipmen.
• All midshipmen who successfully complete program and graduation requirements receive commissions as officers in the Navy or Marine Corps.
• Applicants are considered without regard to race or sex.

Midshipman Life
Maximum attention is dedicated to ensuring that each midshipman leads a full and productive University life. Midshipmen are encouraged to participate on University athletic teams as well as in campus politics, fraternities, dormitories, intramurals, sororities, and other organizations. Additionally, midshipmen are provided an outstanding opportunity to examine and experience many alternative career paths, social events, and experiences through field trips, summer cruises, and the midshipman military organization.

NROTC Program
Midshipmen take the same basic naval science courses and laboratories in the first two years. This involves a combination of courses in naval science and the Curriculum in Peace, War, and Defense designed to provide a well-rounded individual to commissioned service. During the junior and senior years, students who desire a commission in the Marine Corps take NAVS 311 and 411 in place of NAVS 202, 301, 302, and 401. Midshipmen pursuing a nursing degree participate in an abbreviated NROTC curriculum.

Information about application for and admission to the UNC-Chapel Hill Naval ROTC may be obtained by visiting the Naval Armory on campus or addressing an inquiry to Professor of Naval Science, CB# 3325, The University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-3325, or by calling (919) 962-3669/1188. Information regarding the national Naval ROTC program is available from Navy or Marine Corps recruiting stations or established Naval or Marine Corps reserve units.

NAVS
101 [031] Introduction to Naval Science (1). Fundamental orientation to Naval service emphasizing the mission, organization, regulations, customs and traditions, broad warfare components, and major challenges facing Naval/Marine Corps officers. First year.
190 [090] Seminar in Topics of Naval Science (1-12). Permission of the department chair is required. Seminar of topics regarding the U.S. Navy.
196 [096] Independent Study in Naval Science (1-12). Permission of the department chair is required. Readings and research by an individual student on a subject related to the U.S. Navy.
201 [061] Naval Leadership and Management (1). A study of organizational principles, management theory, and leadership styles as they apply in the Navy and Department of Defense. Sophomore year.
202 [051] Navigation (3). A comprehensive study of the theory, principles, and procedures of ship navigation, movements, and employment. Course includes spherical trigonometry, mathematics, analysis, study and practices, spherical, triangulation, sextants, navigation publications, and report logs. Covers rules of the road, lights, signals, and navigational aids, including inertial systems. Sophomore year.
211L [055] Marine Option Naval Science Laboratory (0.5). One laboratory hour per week designed to introduce topics and activities relevant to the professional development of the prospective Marine Corps officer. Required for Marine Option 2/C.
301 [032] Naval Ships Engineering Systems (3). An introductory course and survey of ship design, characteristics, propulsion (including nuclear power) and control systems, and the principles of ship stability. Junior year.
311 [053] Evolution of Warfare (3). Survey of the evolution of warfare through the study of selected campaigns and classic battles, with special emphasis on the principles of war, the military impact of leadership, and the evolution of tactics, weapons, and weaponry. Junior year.
402 [062] Naval Leadership and Ethics (1). Capstone leadership course in NROTC curriculum, emphasizing leadership skills and their ethical implications for the competent commissioned officer in areas of human resources and material management. Senior year.
411 [054] Amphibious Warfare (3). A survey of the projection of sea power ashore, with special emphasis on the evolution of an innovation in amphibious warfare in the twentieth century, through the study of historical amphibious landings and campaigns. Senior year.

500L [070L] Naval Science Laboratory (0.5). Required of all NROTC students. Meets once a week to provide supplemental military training including close order drill, physical fitness, inspections, guest lectures, and leadership training.

Department of Pathology and Laboratory Medicine
www.pathology.unc.edu

J. CHARLES JENNETTE, Brinkhous Distinguished Professor and Chair

Pathology is the study of disease, its causes, development, and consequences. It is concerned with basic mechanisms of disease processes (pathobiology) and their structural-functional manifestations. Pathology combines the tools and the basic knowledge from many disciplines, such as molecular biology, cell biology, biochemistry, genetics, immunology, anatomy, and clinical sciences, to clarify the cause (etiologic), natural course (pathogenesis), and diagnosis of disease.

Faculty members in the Department of Pathology and Laboratory Medicine maintain active research programs, and engage in training of predoctoral students and postdoctoral fellows in a wide range of research endeavors. Undergraduate students interested in participating in pathobiological research should consider registering for PATH 462.

PATH

128 [008] Biology of Human Disease (BIOL 128) (3). Open to all undergraduates. No prerequisites. Presents an overview of basic human molecular and cellular biology in the setting of common human diseases. The course will emphasize how an understanding of disease mechanisms provides the knowledge base for informed use of modern health care.

426 [134] Biology of Blood Diseases (BIOL 426) (3). Prerequisite, BIOL 205 or permission of instructor. An introduction to the biology and pathophysiology of blood and the molecular mechanisms of some human diseases: anemias; leukemias; hemorrhagic; thrombotic; and vascular disorders; and HIV disease/AIDS.

462 [162] Experimental Pathology (1-21). Hours, credits, and instructor to be arranged on an individual basis. This course involves hands-on research experience in a predetermined instructor’s laboratory. Students have the opportunity to learn and apply specific techniques and to participate in investigations of molecular mechanisms responsible for disease processes (pathobiology). Contact director of graduate studies in pathology for more information. May be repeated.

463 [163] Electron Microscopy (3). Prerequisite, permission of instructor. Theoretical and practical aspects of electron microscopy. Application of transmission and scanning electron microscopy to pathology, with emphasis on ultrastructure of cells and organelles. Two lecture and six laboratory hours a week.

464 [164] Light Microscopy (3). Prerequisite, permission of instructor. Course focuses on practical fundamentals of light microscopy including optics, contrast mechanisms, fluorescence, laser scanning confocal microscopy, photography, and digital imaging. Three lecture hours a week.

624 [174] Genetics of Human Disease (GENET 624) (3). Prerequisites, graduate students: a previous course in genetics or permission; undergraduates: a previous genetics course and permission. Topics in human genetics including the molecular basis of genetic disease, special methods used in human genetics research, and molecular genetic principles learned from studies of humans. Three lecture hours a week.

678 [178] Human DNA Metabolism (2). Prerequisite, a basic biochemistry course. The course will examine the molecular biology of DNA replication, resorption, recombination, and repair as these processes occur in human cells. Two seminar hours per week.

CURRICULUM IN PEACE, WAR, AND DEFENSE
www.unc.edu/depts/pwad

JOSEPH T. GLATTHAAR (History), Chair
Advisory Committee
Bernard R. Boxill (Philosophy), E. Willis Brooks (History), Peter Coclanis (History), Mark Crescenzi (Political Science), Cori Dauber (Communication Studies), Don Higginbotham (History), Mark Hubbard (Aerospace Studies), Richard Kohn (History), Charles Kurzman (Sociology), Wayne Lee (History), Douglas MacLean (Philosophy), Stephen Matts (Naval Science), Eric Mlyn (Director of The Robertson Scholars Program), Russel Van Wyk (Continuing Education), Jonathan Weiler (International Studies), Monte Yoder (Military Science).

Adjunct Professors
Christopher Armitage (English), Joseph Glatthaar (History), Richard Kohn (History).

Adjunct Associate Professors
Cori Dauber (Communications Studies), Wayne Lee (History), Jim McCoy (History).

Adjunct Lecturer
Joseph Caddell (History).

Introduction

Peace and war are among the oldest dreams and most difficult challenges of human experience. The curriculum brings together faculty and courses from many disciplines to provide undergraduates with a wide range of approaches to the fundamental issues of human conflict and national and global security and defense.

The curriculum introduces majors to interdisciplinary perspectives with a core of three courses: The Ethics of Peace, War, and Defense (PWAD 272/PHIL 272), National and International Security (PWAD 350), and Global History of Warfare (PWAD 351/HIST 351) (approval pending for the latter).

A flexible program of electives permits majors to concentrate in one of three topical areas: the culture of peace and war; national and international defense and security; and the evolution of warfare. In addition to course work, the curriculum sponsors guest speakers and field trips, and provides majors with help and advice on internships and career planning.
Program of Study
The degree offered is bachelor of arts in peace, war, and defense.

Majoring in Peace, War, and Defense: Bachelor of Arts
All General Education requirements must be met. Majors should consider, in fulfilling General Education requirements, the following courses as helpful preparation for the curriculum: ANTH 101; ECON 101; HIST 127, 128, 140, 158, 159; MATH 152; PHIL 160, 170; POLI 100, 150, 239; PSYC 101; SOCI 101; and STOR 151.
A minimum of nine courses (27 hours) from the curriculum’s offerings as follows.

A. Core Requirement: three courses
PWAD 272 (PHIL 272) The Ethics of Peace, War, and Defense
PWAD 350 National and International Security
PWAD 351 (HIST 351) Global History of Warfare (approval pending)

B. Concentration Requirement:
four courses (no more than three from any one discipline) from one of the following areas:

The Culture of Peace and War
AFRI 520 Contemporary Southern Africa
ANTH 280 Anthropology of War and Peace
ARAB 452 Imagining Palestine
COMM 376 The Rhetoric of War and Peace
COMM 574 War and Culture
ENGL 659 War in 20th-Century Literature
ENGL 660 War in Shakespeare’s Plays
HIST 132 Southeast Asia Since Early 19th Century
HIST 134 Modern East Asia
HIST 254 War and Society in Early Modern Europe
HIST 262 History of the Holocaust: The Destruction of the European Jews
HIST 263 Military, War and Gender in Movies: From Medieval to Modern Times
HIST 268 War, Revolution and Culture: Transatlantic Perspectives 1750-1850
HIST 275 History of Iraq
HIST 276 The Modern Middle East
HIST 277 Israel/Palestine Conflict
HIST 281 The Pacific War, 1937-1945: Its Causes and Legacy
HIST 373 The United States in World War II
HIST 421 Alexander
HIST 422 Ancient Greek Warfare
HIST 565 Civil War and Reconstruction, 1848-1900
HIST 570 The Vietnam War
LAW 890 International Law (Permission of the instructor required)
PLCY 455 9/11 and Its Aftermath
POLI 250 Asia and World Affairs
POLI 423 Peace Settlements in Ethnically Divided Societies
POLI 450 Contemporary Inter-American Relations
POLI 456 Constitutional Policies and the Judicial Process
POLI 457 International Conflict Processes
PSYC 499 Selected Topics (with approval, based on topic)
RELI 481 Religion, Fundamentalism, and Nationalism
ROML 604 Violence and Religion in Literature from Epic to Novel
RUES 260 Crisis and Change in Russia and Eastern Europe
RUES 469 Conflict and Intervention in the Former Yugoslavia
RUSS 475 Literature of Russian Terrorism
SLAV 080 Topic Changes
SLAV 465 Literature of Atrocity: The Gulag and the Holocaust in Russia and Eastern Europe
SLAV 467 Language and Political Identity
SOCI 442 Conflict and Bargaining

National and International Defense and Security
ARAB 452 Imagining Palestine
AFRI 520 Contemporary Southern Africa
ANTH 280 Anthropology of War and Peace
COMM 370 Selected Topics
ECON 460 International Economics
GEOG 120 World Regional Geography
GEOG 453 Political Geography
HIST 134 Modern East Asia
HIST 213 Air Power and Modern Warfare
HIST 262 History of the Holocaust: The Destruction of the European Jews
HIST 277 Israel/Palestine Conflict
HIST 577 United States Foreign Relations in the 20th Century
LAW 890 International Law (Permission of the instructor required)
PHYS 131 Energy: Physical Principles and the Quest for Alternatives to Dwindling Oil and Gas
PLCY 101 Making American Public Policy
PLCY 201 Introduction to Public Policy
PLCY 220 The Politics of Public Policy
PLCY 455 9/11 and Its Aftermath
POLI 150 International Relations and World Politics
POLI 231 Latin America and United States in World Politics
POLI 250 Asia and World Affairs
POLI 252 International Organizations and Global Issues
POLI 253 Problems in World Order
POLI 259 Evolution of the International System
POLI 423 Peace Settlements in Ethnically Divided Societies
POLI 443 American Foreign Policy: Formulation and Conduct
POLI 446 Defense Policy and National Security
POLI 447 Theory of War
POLI 450 Contemporary Inter-American Relations
PSYC 499 Selected Topics (with approval, based on topic)
RELI 481 Religion, Fundamentalism, and Nationalism
RUES 260 Crisis and Change in Russia and Eastern Europe
RUES 469 Conflict and Intervention in the Former Yugoslavia
RUSS 475 Literature of Russian Terrorism: Arson, Bombs, Mayhem
SLAV 080 Topic Changes
SLAV 465 Literature of Atrocity
SLAV 467 Language and Political Identity

The Evolution of Warfare
COMM 370 Selected Topics
ENGL 660 War in Shakespeare’s Plays
HIST 212 History of Sea Power
HIST 213 Air Power and Modern Warfare
HIST 254 War and Society in Early Modern Europe
HIST 262 History of the Holocaust: The Destruction of the European Jews
HIST 263 Military, War and Gender in Movies: From Medieval to Modern Times
HIST 268 War, Revolution and Culture: Transatlantic Perspectives 1750-1850
HIST 275 History of Iraq
HIST 277 Israel/Palestine Conflict
HIST 281 The Pacific War, 1937-1945: Its Causes and Legacy
HIST 368 War and American Society to 1903
HIST 369 War and American Society, 20th Century
HIST 373 The United States in World War II
HIST 421 Alexander
HIST 422 Ancient Greek Warfare
HIST 564 Revolution and Nation-Making in America
HIST 565 Civil War and Reconstruction, 1848-1877
HIST 468 War and Society in Early Modern Europe
HIST 570 The Vietnam War
HIST 577 U.S. Foreign Relations in the 20th Century
POLI 150 International Relations and World Politics
POLI 446 Defense Policy and National Security
POLI 447 Theory of War
PSYC 499 Special Topics (with approval, based on topic)
SLAV 465 Literature of Atrocity: The Gulag and the Holocaust in Russia and Eastern Europe

C. Additional Requirement:

Two courses, one each from the two areas not chosen for the concentration.

Any course numbered 396 (Independent Study in Peace, War, and Defense), 490 (Selected Topics in Peace, War, and Defense), and PWAD 690, 691H and 692H may be substituted for courses in the major with the permission of the chair.

Honors in Peace, War, and Defense

Majors who earn at least a 3.3 overall grade point average and at least a 3.3 grade point average in the major through their junior year may apply for membership in PWAD 691H-692H (Honors in Peace, War, and Defense). Students interested in honors should take a seminar in peace, war, and defense (PWAD 690), a seminar in history (HIST 391-397), or another course that provides background in research design. For students who wish to write an honors thesis in their senior year, a thesis topic should be approved by an appropriate thesis director by the end of the junior year. Students prepare an honors thesis in PWAD 691H and 692H and defend it orally. Based on faculty evaluation, the baccalaureate degree may be conferred with honors or with highest honors, or merely with course credit.

Special Opportunities in Peace, War, and Defense

Departmental Involvement

Undergraduates can participate in the activities and programs of the Triangle Institute for Security Studies at no cost by becoming a Wickersham Scholar. To become a scholar, a student must have a faculty sponsor and a demonstrated interest in international security studies. For more information contact Carolyn Pumphrey at 919-613-9280 or pumphrey@duke.edu.

Experiential Education

With the permission of the chair, majors can under special circumstances gain academic credit for internships or employment that relates directly to national and international security.

Study Abroad

The curriculum encourages all undergraduates to study abroad, either for a summer, semester, or entire year. Students should consult the study abroad Web site at study-abroad.unc.edu and visit the Study Abroad Office as early as possible in their course of study to meet with a study abroad advisor. A number of foreign programs contain courses that qualify for major credit. Of particular usefulness is study at the King's College, University of London War Studies Department, the closest analogue to the Curriculum in Peace, War, and Defense in the English-speaking world and a program with a renowned faculty. Students with at least a 3.3 grade point average are eligible to apply to King's. While supervision arrangements do need to be negotiated and agreed with relevant faculty at King's College, students writing honors theses in their senior year may also apply to spend the year at King's.

Undergraduate Research

Students who qualify are encouraged to experience original research by writing a senior honors thesis described in the honors section above.

Graduate School and Career Opportunities

The curriculum prepares majors for graduate work in several of the humanities and social sciences, for a variety of professional schools, and for a wide range of employment. Graduates work for federal agencies, state and local governments, nongovernmental organizations, businesses, and other employers. Others have attended graduate and professional schools in government, history, international relations, and law. The curriculum's strength is its broad, interdisciplinary perspective combined with its depth of focus on topics that span the range of human experience across time and national boundaries, from science and technology to ethics and public policy.

Contact Information

The curriculum's offices are on the fourth floor of Hamilton Hall, where visitors and members of the University community are always welcome. Prospective majors should visit the chair of the curriculum, the program's administrator/manager, and visit the Web site at www.unc.edu/depts/pwad as soon as they become interested.

PWAD

080: First-Year Seminar: The Devil and the Problem of Evil in Russian Literature (3). This course will consider how the devil and other representatives of "unclean power" have been portrayed in over seven centuries of Russian literature, from the medieval period into the 20th century.

084 First-Year Seminar: Terror for the People: Terrorism in Russian Literature and History (SLAV 084) (3). Terror was used as a political weapon in 19th-century Russia. This seminar introduces the terrorists through their own writings and fictional representations in novels by Fyodor Dostoevsky and Joseph Conrad.

085 [006M] First-Year Seminar: Children and War (SLAV 085) (3). Readings for this seminar include children's wartime diaries, adult memoirs of child-survivors, and fiction from Eastern Europe and east Asia. Focused on WWII, but with attention to present-day conflicts.

101 [048] Making American Public Policy (PLCY 101) (3). Course provides an overview of the study and making of American public policy. Studies political and policy challenges in substantive areas such as health and social policy, environment, national security, education, trade and labor standards, regulation, and law and public policy.
120 [020] World Regional Geography (GEOG 120) (3). A survey of the geographic structure of human activity in major world regions and nations. Emphasizes current developments related to population, urbanization, and economic activity.


134 [034] Modern East Asia (ASIA 134, HIST 134) (3). Comparative and interdisciplinary introduction to the major political, social, and cultural traditions of China and Japan in the 19th and 20th centuries, focusing on impact of the West, nation-building, industrialization, and evolution of mass society.

150 [086] International Relations and World Politics (POLI 150) (3). The analysis of politics among nations.

201 [071] Introduction to Public Policy (PLCY 201) (3). Introduction to the elements of policy analysis by citizens, including definition of problems, criteria, alternatives, models, decision procedures, and political feasibility; illustrated by case studies.

212 [063] History of Sea Power (HIST 212) (3). The influence of sea power on international affairs, including an overview of naval history, the development of American sea power, its current status, and its modern world impact.

213 [064] Air Power and Modern Warfare (AERO 213, HIST 213) (3). Examines air power theory and practice from 1914 to the present. Focuses on the application of air power as an instrument of war and the effectiveness of that application.

215 [078] Peace and War (HIST 215) (3). The emphasis will be historical, with conceptual tools from other disciplines used when appropriate. Theoretical explanations, militarism, the international system, internal order, and the search for peace will be among the topics.


231 [087] Latin America and the United States in World Politics (POLI 231) (3). A survey of the events, institutions, and issues that have dominated relations between Latin America and the United States.

250 [085] Asia and World Affairs (ASIA 250, POLI 250) (3). A survey of relations between the United States and major Asian powers: China, the USSR, Japan.

252 [088] International Organizations and Global Issues (POLI 252) (3). Examines international organizations and their relationships with and impact upon international politics, international law, and selected global issues.

253 [081] Problems in World Order (POLI 253) (3). An examination of selected topics in international relations, such as security and defense, international integration, and north-south relations.

259 [082] Evolution of the International System (POLI 259) (3). An examination of changes in the nature of the international system from about 1870 to the present, emphasizing changing patterns of alliance politics and crisis behavior.


261 [072] Gender, Military, and Society in Europe from the 16th to the 20th Century (HIST 261, WMST 267) (3). The course examines the interrelations among changes in warfare, the military system, and the gender order in 16th to 20th-century Europe, with a focus on the modern period.


268 War, Revolution and Culture: Transatlantic Perspectives, 1750-1850 (3). The course explores the dramatic historical changes between 1750-1850 and their intersection with and reflection in arts, literature and music in transatlantic perspective.

272 [068] The Ethics of Peace, War, and Defense (PHIL 272, POLI 272) (3). The legitimacy of states; just war theory; pacifism; the ethics of revolution; terrorism; problems of war in an age of weapons of mass destruction; the moral conditions of peace.

275 [077C] History of Iraq (ASIA 275, HIST 275) (3). History of Iraq from ancient times to the present.

277 [077B] Israel/Palestine Conflict (HIST 277) (3). Course explores the history of the conflict over Israel/Palestine.

280 [080] Anthropology of War and Peace (ANTH 280) (3). Cross-cultural perspectives on war in its relation to society, including both historical and contemporary examples. Surveys political, economic, and cultural approaches to warfare and peace making.

281 [083] The Pacific War, 1937-1945: Its Causes and Legacy (ASIA 281, HIST 281) (3). An examination of the origins of the Pacific War, the course of this bitter and momentous conflict, and its complex legacy for both Asia and the United States.

350 National and International Security (3). Prerequisite, permission of curriculum. Introduction to the problem of war and violent conflict in human experience and the contemporary world, and efforts to prevent, avoid, or ameliorate war and its effects.

368 [076] War and American Society to 1914 (HIST 368) (3). The American military experience from colonial times to the early 20th century. Major themes include the problem of security, the development of military policies and institutions, and the way in which the country waged and experienced war.

369 [077] War and American Society, 20th Century (HIST 369) (3). Survey of America's military experience in the 20th century, focusing on national security policy, military institutions, World Wars I and II, the Cold War, the Korean and Vietnam Wars, and recent interventions.


376 [060] The Rhetoric of War and Peace (COMM 376) (3). Explores philosophical assumptions and social values expressed by advocates of war and peace through a critical examination of such rhetorical acts as speeches, essays, film, literature, and song.

396 Independent Study in Peace, War, and Defense (3). Prerequisite, permission of instructor and department chair. Independent study and reading. Special reading and research activities in a selected field under the supervision of a faculty member.

systems emphasizing the organization, administration, and politics of judicial bureaucracies and roles of judges, juries, counsel, litigants, and interested groups in adjudication processes.

421 [101] Alexander (HIST 421) (3). The rise of Macedonia; the careers of Philip II and Alexander (with emphasis on the latter's campaigns); the emerging Hellenistic Age. The course integrates computer (including Web site) and audiovisual materials throughout.

422 [106] Ancient Greek Warfare (HIST 422) (3). War and the warrior in the archaic and classical Greek world, seventh to fourth centuries B.C.

424 [143] Conflict and Bargaining (SOCI 442) (3). Conflict and conflict resolution behavior. Applications to labor-management relations, family, sports, community politics, international relations.

443 [144] American Foreign Policy: Formulation and Conduct (POLI 443) (3). Prerequisite, POLI 150 or permission of the instructor. The role of Congress, the press, public opinion, the president, the secretary and the Department of State, the military, and the intelligence community in making American foreign policy. Emphasis is placed on the impact of the bureaucratic process on content of foreign policy.

446 [149] Defense Policy and National Security (AERO 446, POLI 446) (3). Prerequisite, POLI 150 or permission of instructor. A study of national defense policy as affected by the constitutional and political setting, as well as its relation to foreign policy. Some attention to strategic doctrine.


450 [147] Contemporary Inter-American Relations (POLI 450) (3). Prerequisites, POLI 238 and/or POLI 231/PWAD 231. A comprehensive analysis of hemispheric international relations and foreign policies of individual Latin American nations.

452 Imagining Palestine (3). Explores how Palestine is portrayed in writings, films, and other creative works and how Palestinian portrayals of homeland affect others' perceptions of the Palestinian-Israeli conflict and the Arab world.

453 [153] Political Geography (GEOG 453) (3). Explores the geography of politics at the global, the nation-state, and the local scale in separate course units, but emphasizes the interconnections among these geographical scales throughout.

457 International Conflict Processes (3). Analysis of international conflict and the causal mechanisms that drive or prevent conflict. Emphasis on the conditions and processes of conflict incorporation between nations.

460 [161] International Economics (ECON 460) (3). Prerequisite, ECON 310 or 410. An introduction to international trade, the balance of payments, and related issues of foreign economic policy.

465 [165] Literature of Atrocity: The Gulag and the Holocaust in Russia and Eastern Europe (JWST 465, SLAV 465) (3). Literary representation in fiction, poetry, memoirs, and other genres of the mass annihilation and terror in Eastern Europe and the former Soviet Union under the Nazi and Communist regimes.

467 [167] Language and Political Identity (SLAV 467) (3). See SLAV 467 for description.

468 [127B] War and Society in Early Modern Europe (HIST 468) (3). A critical examination, from the Renaissance to the Napoleonic period, of the changes in European land and naval warfare and their impact on society and government.

469 [168] Conflict and Intervention in the Former Yugoslavia (RUES 468) (3). The course focuses on ethnic and political conflicts in the former Yugoslavia and efforts by the international community to end conflict and promote peace and reconstruction.

475 [175] Literature of Russian Terrorism: Arson, Bombs, Mayhem (RUSS 475) (3). Literary representations of Russian revolutionaries and terrorists in the 19th and 20th centuries. Readings by Dostoevsky, Chernyshevsky, Bely, Joseph Conrad, and by some of the terrorists themselves.

481 [120] Religion, Fundamentalism, and Nationalism (RELI 481) (3). An exploration of explosive combinations of religion and politics in the Islamic world, the Palestinian movement, Hindu nationalism in India, and Christian fundamentalism in America.

490 Special Topics in Peace, War and Defense (3). Subject matter will vary with instructor, but will focus on some particular topic or historical approach. Course description available from departmental office.

520 [121] Contemporary Southern Africa (AFRI 520) (3). Prerequisite, AFRI 101 or equivalent. Study of the history, politics, and economic development of southern Africa in the 20th century.

564 [146] Revolution and Nation Making in America, 1763-1815 (HIST 564) (3). Major topics: constitutional conflict in the British Empire; independence and war; Confederation and Constitution; growth of political parties and nationalities in a period of domestic change and international conflict.

565 [148] Civil War and Reconstruction, 1848-1900 (HIST 565) (3). Focus is on the causes, nature, and consequences of the Civil War.

570 [117] The Vietnam War (ASIA 570, HIST 570) (3). A wide-ranging exploration of America's longest war - from 19th-century origins to 1990s legacies, from village battlegrounds to the Cold War context, from national leadership to popular participation and impact.

574 [162] War and Culture (COMM 574) (3). Examines American cultural myths about war generally and specifically about the causes of war, enemies, weapons, and warriors, and the way these myths constrain foreign and defense policy, military strategy, and procurement.

577 [152] United States Foreign Relations in the 20th Century (HIST 577) (3). How the United States came to occupy a leading role in world affairs as a diplomatic, military, economic, and cultural power and what role that has meant to Americans and to other peoples, especially during the Cold War.

604 [190] Violence and Religion in Literature from Epic to Novel (ROML 604) (3). Prerequisite, permission of instructor. A study of the sacred character of epic violence and its historical decline through a process of religious desacralization associated with the emergence of the modern novel.

634 Public Health Issues in Community Preparedness and Disaster Management (HPAA 634) (3). Examines conventional
public health constructs of community preparedness and disaster management. Includes a review of traditional and emerging literature. Emphasizes conceptual development and application of adaptive leadership strategies.

659 [196] War in 20th-Century Literature (ENGL 659) (3). A study of literary works written in English concerning World War I, or the Spanish Civil War and World War II, or the Vietnam War.

660 [196D] War in Shakespeare’s Plays (ENGL 660) (3). The focus is on Shakespeare’s various treatments of war in his plays: all his Roman histories, most of his English histories, all his tragedies, even some of his comedies.

690 [090] Seminars in Peace, War, and Defense (3). Seminars on aspects of peace, war, and defense. Past topics have included arms control, public opinion and national security, and the Cold War.

691H [091] Honors in Peace, War, and Defense (3). Prerequisite, permission of department. Directed research, on an independent basis, for majors who are preparing an honors thesis and for the oral examination on the thesis.

692H [092] Honors in Peace, War, and Defense (3). Prerequisite, PWAD 691H. Directed research, on an independent basis, for majors who are preparing an honors thesis and for the oral examination on the thesis.

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**Department of Philosophy**

philosophy.unc.edu

**GEoffrey Sayre-McCord, Chair**

**Distinguished Professors**


**Professors**


**Associate Professors**

Thomas Hofweber, John Roberts.

**Assistant Professors**

Joshua Knobe, Ram Neta.

**Adjunct Professor**

James Lesher, Rebecca Walker.

**Senior Lecturer**

Jeanette Boxill.

**Lecturer**

Warren A. Nord.

**Professors Emeriti**


**Introduction**

The principal goal of the study of philosophy is to enable students to think more clearly, deeply, and appreciatively about themselves and their world. Study of philosophy enhances analytical, critical, and interpretive capacities that are applicable to any subject matter in almost any context. It provides opportunity for self-expression and reflection, for the exchange and focused debate of ideas, and for learning how to come to terms with problems for which there are no easy answers. A good philosophical education also helps to prepare students for responsible and intelligent participation in political and community affairs.

The most important outcome of philosophical study is the ability to engage in thinking that is at once disciplined and imaginatively creative. While such thinking lies at the heart of the philosophical enterprise, it is also needed for success in any complex intellectual or practical endeavor. Philosophy’s attention to critical thought, rigorous argument, and articulate expression makes the philosophical curriculum absolutely central to a liberal education and valuable as a basis for further training in a wide variety of pursuits.

Examples of philosophical questions are:

- How should we understand truth, existence, validity, fact, value, free will?
- What are the principles or presuppositions of science, language, political systems, religious and moral views?
- What is the nature of a person, of space and time, of a work of art?
- What is the wisdom of the past on these enduring questions (how can we learn from people like Plato and Aristotle, Descartes or Kant)?

Students are encouraged to view philosophy not as a specialized, esoteric discipline, but instead as an activity integral to a liberal arts education, helping students to think more cogently and appreciatively about themselves and their world.

The Department of Philosophy is part of the College of Arts and Sciences. Philosophy may be taken by students in the college as an elective, as a major, as a minor, as a part of a double major, or as part of an interdisciplinary minor in philosophy, politics, and economics; it also may be taken to meet certain General Education requirements as well as the Approaches requirement in Philosophical and Moral Reasoning, PHIL 101, PHIL 110, or PHIL 112 is recommended as a first course for those interested in philosophical issues and their cultural significance and for those who wish to examine a broad range of philosophical topics, problems, or historical figures. Other good starting points are: PHIL 155, which deals with logic and the analysis of argument; PHIL 160, which deals with moral thought and experience; and PHIL 190, which deals with the concepts, methods, and foundations of the biological and physical sciences.

Courses numbered 51-229 have no prerequisites and may, for many, serve as suitable first courses in philosophy. Courses numbered 101-120 are general survey courses. Courses numbered 130-290 are oriented toward particular problems or topics. Courses numbered 210-229 concern the history of philosophy. Courses numbered 300-399 are designed for advanced undergraduates and majors, and carry a prerequisite of one course in philosophy. Courses between 400 and 699 are for advanced undergraduates as well as graduate students.

PHIL 155 is recommended for all students who major or minor in philosophy.

**Programs of Study**

The degree offered is bachelor of arts in philosophy. Also offered are a minor in philosophy and an interdisciplinary minor in philosophy, politics, and economics (PPE).

**Majoring in Philosophy: Bachelor of Arts**

A major in philosophy requires nine philosophy courses - one course in each of three of the following four areas:

- History of philosophy: courses with second digit of 1 or 2
- Metaphysics, epistemology, philosophy of mind, philosophy of language: courses with second digit of 3 or 4
• Logic and philosophy of science: courses with second digit of 5
• Value theory: courses with second digit of 6, 7, or 8.

No more than three of the nine courses may be numbered 199 or below.

Within the framework of the major, one can elect a pre-law concentration designed specifically for those planning on pursuing a career in law. Professors Corrado and Postema, both of whom also hold appointments in the School of Law, are available to advise those electing this concentration. Further information is available on the department’s Web site at: www.unc.edu/depts/phildept/Pre_law_Program.htm.

Minoring in Philosophy

A minor in philosophy requires five philosophy courses, including at least one course in each of the three of the four areas listed above. No more than three may be from courses numbered 199 or below.

PHIL 155 (Introduction to Logic) is recommended for all students who major or minor in philosophy.

Minoring in Philosophy, Politics, and Economics (PPE)

The PPE minor requires five courses: PHIL 384 (Introduction to PPE), PHIL 484 (Advanced PPE), and three additional core courses - one each from philosophy, political science, and economics - selected from the PPE approved list. Detailed information is available on the program’s Web site at: philosophy.unc.edu/ppe/ppe.html.

Honors in Philosophy

Those students who have at least a 3.2 grade point average and qualify may take two semesters of courses for honors (PHIL 691H, 692H) during which they prepare and write an honors thesis. Students registered for 691H or 692H will meet periodically as a group, organized by the director of undergraduate studies, to present and discuss their research in progress. Departmental approval is required.

Special Opportunities in Philosophy

Undergraduate Philosophy Club

This group meets weekly to discuss topics of interest and the work of current faculty members. The club sponsors an Annual Undergraduate Philosophy Symposium. Listserv: philclub@listserv.unc.edu.

Phi Sigma Tau

The Eta Chapter of the international honor society in philosophy is open to students who have completed a minimum of four philosophy courses and have a cumulative 3.2 GPA.

Study Abroad

The Philosophy Department enjoys close relations with a number of departments in Australia, New Zealand, and the United Kingdom and is willing and able to work closely with the Study Abroad Office to arrange opportunities for study in these and other countries.

Undergraduate Research

The Philosophy Department offers a colloquium for majors - PHIL 395 (old number 96) and Honors PHIL 396 and 397 (old numbers 100A and 100B) - for students to work closely with faculty on an honors thesis.

Undergraduate Symposium

The Philosophy Club and Phi Sigma Tau coordinate a student conference of selected papers. The one-day conference is set in the format of a professional conference where students have an opportunity to present their research.

Intercollegiate Ethics Bowl

The Intercollegiate Ethics Bowl provides students with a unique opportunity to practice applying the moral theories and arguementation principles learned in their ethics classes. The team sent to the Ethics Bowl competition will be selected from those registered in the course. For more information contact Professor Jan Boxill, Director, Parr Center for Ethics, Caldwell 207A; (919) 962-3317, jmbxill@email.unc.edu.

Career Opportunities

A major in philosophy is an excellent preparation for many careers in which clear thinking and analytical ability are valued. Some majors choose to pursue graduate work in philosophy in preparation for college or university teaching (PhD normally required), but the philosophy major also provides the form of rigorous and systematic intellectual training that is of crucial importance in law, medicine, business, and other fields.

Contact Information

Professor John Roberts, Director of Undergraduate Studies, CB# 3125, 102 B Caldwell Hall, (919) 962-3325, johnroberts@email.unc.edu.

For more detailed information including courses and faculty, visit the department’s home page: philosophy.unc.edu.

PHIL


Socrates is the quintessential philosopher – a man for all season, a foundational figure of the West.


Students will read some of the most important philosophical reflections of the 17th and 18th centuries.


Students will explore a variety of issues that arise when human beings begin to reflect on our own natures and will be introduced to main theories that have been developed.

054 [006F] First-Year Seminar: Thinking about Time (3).

What is time? Do the past and the future exist, or only the present? Is the “flow of time” an objective feature of reality?

055 [006F] First-Year Seminar: Paradoxes (3).

Paradoxes have been a driving force in philosophy since the fourth century B.C. They force us to rethink old ideas and conceptions.

056 [006F] First-Year Seminar: Abortion (3).

A general philosophical discussion of the value of life, the evil in death, and the wrongness of killing.


The course is to get a mature and correct understanding of race, racism, and affirmative action.


This course will explore the ethical dimensions of the responses to evil that we have developed over history.
Revenge, retribution, reparation; hatred, resentment, forgiveness; punishment, pardon, mercy.

063 [006F] First-Year Seminar: Mind, Brain, and Consciousness (3). What are minds and how are they related to bodies?

065 [006F] First-Year Seminar: Philosophy through Mathematics (3). This seminar introduces several of the central problems in philosophy through reflection on the nature of mathematics.

066 [006F] First-Year Seminar: Ethics: Theoretical and Practical (3). This seminar examines theoretical issues, relativism, utilitarianism, deontological ethics, and virtue ethics.

067 [006F] First-Year Seminar: Issues in a World Society: Sports and Competition (3). This seminar examines ethical issues in sports, including Title IX, gender equity, racism, sexism, cheating, violence, and drug use.

068 First-Year Seminar: Moral Life (3). This course will explore the meaning of basic moral concepts as they are understood in philosophy, science, and art.

076 [006F] First-Year Seminar: Is Free Will an Illusion? (3). This course will examine whether our belief in freedom of action is compatible with the modern picture of ourselves.

077 [006F] First-Year Seminar: Moral Weakness and Conscience (3). Is man's reason a powerful thing: if one had knowledge or belief about something that should be done, would that be enough to position one to do it?

078 [006F] First-Year Seminar: Death as a Problem for Philosophy: Metaphysical and Ethical (3). This course explores both old and new questions regarding death. It will examine the presuppositions and cogency of the classical religious-philosophical conception of death.

079 First-Year Seminar: Words That Bind: The Structure of Constitutions (3). In this seminar we will examine a number of constitutions and try to determine what makes a constitution better or worse, and when it makes sense to borrow constitutional principles from other countries. We will also try our hand at designing a constitution.

085 [006F] First-Year Seminar: Reason, Religion, and Reality in the Copernican Revolution (3). The arguments by which Galileo and his contemporaries defended the Copernican model of the solar system puzzle philosophers even today.

101 [020] Introduction to Philosophy: Main Problems (3). What makes some things right and others wrong, and how can we tell the difference? What can we know about the world? Do we have free will?

110 [024] Introduction to Philosophy: Great Works (3). Philosophy is the love of wisdom. But what is wisdom? And what good does it do us to pursue wisdom? Can it improve our character?

112 [026] Making Sense of Ourselves (3). An examination of some of the most influential attempts to understand human beings, their lives, and their moral and political values. Authors include: Plato, Aristotle, St. Matthew, Nietzsche, Rand.

134 [032] Philosophy of Religion (RELI 126) (3). A philosophical inquiry into the problems of religious experience and belief, as expressed in philosophic, religious, and literary documents from traditional and contemporary sources.

145 [035] Language and Communication (LING 222) (3). How are natural human languages different from other communication systems? How are languages related to the world and the mind?

150 [031] Philosophy of Science (3). What is distinctive about the kind of knowledge called "science"? What is scientific explanation? How are scientific theories related to empirical evidence?

154 [036] Philosophy of the Social Sciences (3). How do social sciences explain human actions? Are there social facts over and above facts about various individuals? Do values enter into social science?

155 [021] Introduction to Mathematical Logic (3). Introduces the theory of deductive reasoning, using a symbolic language to represent and evaluate patterns of reasoning.

157 Logic and Decision Theory (3). A broader discussion of practical reasoning, including inductive and deductive logic, which provides a good introduction to decision and game theory that is important for the social sciences, especially economics.

160 [022] Introduction to Ethics (3). Exploration of different philosophical perspectives about right and wrong, personal character, justice, moral reasoning, and moral conflicts. Readings drawn from classic or contemporary sources. Critical discussion emphasized.

163 [030] Practical Ethics (3). Topics may include: war, medical ethics, media ethics, sexual ethics, business ethics, racism, sexism, capital punishment, and the environment.


165 [034] Bioethics (3). The ethical basis of issues arising in healthcare: e.g. patient rights, removing life support, euthanasia, abortion, use of human or animal subjects in experiments, genetic manipulation, cloning.

170 [037] Social Ethics and Political Thought (3). Individual rights, social responsibility, legal authority, civil authority, civil disobedience, war and peace. Readings selected from classical and contemporary writings.

185 [033] Introduction to Aesthetics (3). The nature of art and artworks and their aesthetic appraisal.

210 [056] Ancient Philosophy (3). An examination of the basic writings of the pre-Socratics, Plato, and Aristotle, with a primary focus on ethics and politics. Epicureanism, stoicism, Neoplatonism, and Greek skepticism.

213 [052] Asian Philosophy (3). An examination of some of the philosophical traditions of Asia. Possible topics include Advaita Vedanta, Nyaya-Vaisheshika, Madhyamaka Buddhism, neo-Confucianism, Mohism, and philosophical Taoism.


220 [058] Modern Philosophy: Descartes to Hume (3). Prerequisite, one course in philosophy. The writings of Descartes,
Spinoza, Locke, Berkeley, Leibniz, and Hume on such questions as: Can we know that the things we see and touch are real and not a dream?

224 [064] Existential Philosophy (3). A study of European philosophers such as Kierkegaard, Nietzsche, Husserl, Heidegger, Jaspers, Sartre, Gadamer, Habermas, and/or Foucault.

228 [059] American Philosophy (3). An exploration of the distinctively American approaches to philosophy from Jonathan Edwards to the present.

229 [065] 20th-Century Philosophy (3). Prerequisite, one course other than PHIL 155. An introductory survey of British and continental philosophy in the twentieth century.

230 [038] Experience and Reality (3). Is your mind different from your brain? Is time travel possible? What are cause and effect? What makes you today and yesterday the same person?

256 [047] Ethics of Sports (3). A conceptual and theoretical analysis of the moral significance of sport, concentrating on issues such as racism, sexism, gender equity, violence, and drug use.

272 [042] The Ethics of Peace, War, and Defense (POLI 272, PWAD 272) (3). The legitimacy of states; just war theory; pacifism; the ethics of revolution; terrorism; problems of war in an age of weapons of mass destruction; the moral conditions of peace.

273 [066] Social and Economic Justice (3). This course will focus on justice and the common good, applying theoretical justifications to contemporary social and economic issues. Readings will include classical and contemporary literature on the nature of justice and rights.

274 [055] African-American Political Philosophy (AFAM 274) (3). Race, identity, discrimination, multiculturalism, affirmative action and slave reparations in the writings of Walker, Delany, Douglass, Cooper, DuBois, King, and Malcolm X.

275 [046] Moral and Philosophical Issues of Gender in Society (WMST 275) (3). A survey of feminist perspectives on topics such as the meaning of oppression, sexism and racism, sex roles and stereotypes, ideals of female beauty, women in the workplace, pornography, rape.

280 [041] Morality and Law (3). Explores the best work in legal philosophy on such questions as: What is law? Does it serve justice or undermine it? Can punishment be justified? When is a person responsible?

285 [045] Moral and Philosophical Issues in Education (3). A critical examination of the moral and philosophical issues in education: What does it mean to be well educated? What is a liberal education?

330 [075] Metaphysics (3). An examination of general theories of the nature of reality. What kinds of things exist? What are space, time, and causation? Are abstract entities (such as numbers) real?

335 [073] Theory of Knowledge (3). What is knowledge and how does it relate to belief, justification, and truth? What makes beliefs reasonable or irrational? Can skepticism be defeated?

340 [076] Philosophy of Mind (3). The mind-body problem, the nature of thinking, the puzzles of consciousness, and the qualitative character of felt experience.

345 [074] Reference and Meaning (3). How does a noise or a mark on paper refer to something, or have a meaning?

351 [082] Philosophy of Physics (3). Prerequisite, one course in philosophy or permission of instructor. Topics may include the nature of space and time, the ontological status of fields and energy, or causation and locality in quantum physics.

352 [083] Philosophy of Biology (3). Prerequisite, one course in philosophy or in a biological science. Philosophical issues raised by biological theories, which may include the logical structure of evolutionary theory, fitness, taxonomy, the notion of a living thing, reductionism, evolutionary explanations, or teleology.

353 [077] Philosophy of Cognitive Science (3). Philosophical questions raised by linguistics, computer science, cognitive psychology, and neuroscience. Topics may include the innateness of language, artificial intelligence, and the neural correlates of consciousness.

356 [071] Topics in Mathematical Logic (3). Prerequisite, PHIL 155 or permission of instructor. Topics may include the predicate calculus with identity and the metalogic of formal systems, modal logic, decision theory, alternative logics, probability, and induction.

357 Induction, Probability, and Confirmation (3). Current accounts of evidence and observation, the confirmation of scientific theories, the logic of inductive reasoning, and the metaphysics and epistemology of chance.


362 [072] Contemporary Ethical Theory (3). Questions include: Is there a moral truth? Is there a distinction between facts and values?

364 [067] Ethics and Economics (PLCY 364) (3). Prerequisite, one course in ethics (PHIL 160, 163, or 170) or one course in economics. Issues at the intersection of ethics and economics, including value; the relation between values and preferences; rationality; the relevance to economics of rights, justice, and the value of human life.

368 [068] Environmental Ethics (ENST 368) (3). The meaning of environmental values and their relation to other values; the ethical status of animals, species, wilderness, and ecosystems; the built environment; environmental justice; ecofeminism; obligations to future generations.

370 [078] Political Philosophy (3). Advanced discussion of competing philosophical approaches to questions of justice, authority, freedom, rights, and the like, including libertarianism, liberalism, communitarianism, Marxism, and feminism.

384 [084] Introduction to Philosophy, Politics, and Economics (ECON 384, POLI 384) (3). Prerequisites, permission of instructor, PHIL 170 or POLI 276, and one course in economics. This interdisciplinary gateway course provides an introduction to subjects and quantitative techniques used to analyze problems in philosophy, political science, and economics.

390 [080] Seminar in Selected Topics (3). Intensive exploration and discussion of selected topics in philosophy.

396 [099] Directed Readings (3). See the director of undergraduate studies of the department.

397 [096] Colloquium for Philosophy Majors (3). Students will present papers on selected topics for critical discussion. Recommended for philosophy majors in their junior year.
411 [151] Aristotle (3). An examination of some representative works of Aristotle, with reference to common emphases and basic problems, together with an analysis of their philosophic content.

412 [150] Plato (3). An examination of some representative works in the context of contemporary scholarship.

415 [152] Topics in Medieval Philosophy (3). An intensive study of some medieval philosophical author (e.g., Aquinas, Scotus, or Ockham) or topic (e.g., arguments for the existence of God, universals, knowledge of individuals).

421 [153] Rationalism (3). An examination of the view of the rationalist philosophers (Descartes, Spinoza, and Leibniz) that reasoning can give us knowledge of the world and of our place in it.

422 [154] Empiricism (3). An examination of the view of the empiricist philosophers (Locke, Berkeley, and Hume) that the only way to gain knowledge of the world is by means of the senses.


427 [156] Hegel (3). In-depth study of Hegel's systematic philosophy emphasizing its roots in Kant's critical philosophy. Primary focus on Phenomenology of Spirit, supplemented by selections from the Encyclopaedia and Philosophy of Right.

428 [159] History of American Philosophy (3). Transcendentalists, pragmatists, Quine, Rorty, and others.

432 [114] The Beginnings of Analytic Philosophy (3). Prerequisites, two courses in philosophy other than PHIL 155 or permission of instructor. Frege, Russell, Moore, and Wittgenstein among other are considered.

433 [116] Current Issues in Analytic Philosophy (3). Prerequisites, two courses in philosophy other than PHIL 155 or permission of instructor. Recent work in epistemology and metaphysics.

440 [117] Philosophy of Mind (3). Prerequisites, two courses in philosophy other than PHIL 155 (PHIL 340 recommended) or permission of instructor. An examination of dualism, behaviorism, the identity theory, and forms of functionalism with special focus on the problems of mental aboutness.

445 [110] Philosophy of Language (LING 410) (3). Prerequisites, two courses in philosophy other than PHIL 155 (PHIL 345 recommended) or permission of instructor. How does language represent? Does it mirror the structure of the world? Does it reflect the structure of the mind?

450 [108] Philosophy of Natural Sciences (3). Concept formation, verifiability, law, explanation, the role of logic and mathematicics in the sciences, and other topics.

451 [122] Philosophy of Physics (3). Topics may include the nature of space and time, the ontological status of fields and energy, or causation and locality in quantum physics.

452 [123] Philosophy of Biology (3). The logical structure of evolutionary theory, fitness, taxonomy, the notion of a living thing, reductionism, evolutionary explanations, teleology.

453 [109] Philosophy of Psychology (3). Topics may include reasoning, the relationship between language and thought, concepts, moral cognition, and emotions.

454 [107] Philosophy, History, and the Social Sciences (3). The nature of historical explanation, structural and functional explanation, the weighing of historical testimony, the concept of meaning, normative judgments and predictions in the social sciences.

455 [101] Symbolic Logic (LING 455) (3). Introduction for graduates and advanced undergraduates not taking the PHIL 155-PHIL 356 sequence.

456 [111] Advanced Symbolic Logic (3). Prerequisite, PHIL 455 or permission of instructor. Presupposes propositional and quantification logic as a basis of further deductive development with special attention to selected topics: alternative systems, modal and deontic logic, inductive logic, the grammar of formalized languages, paradoxes, and foundations of mathematics.

457 [190] Set Theory and Logic (3). Prerequisite, PHIL 455 or permission of instructor. Natural and real numbers. Infinite cardinal and ordinal numbers. Alternative axiom systems and their consistency problems.

459 [106] Philosophy of Mathematics (3). Prerequisite, PHIL 455 or permission of instructor. Philosophical problems concerning logic and the foundation of mathematics.

460 [102] Selected Topics in the History of Moral Philosophy (3). Prerequisites, two courses in philosophy other than PHIL 155 (PHIL 360 recommended) or permission of instructor. Examination of classic texts of Plato, Aristotle, Aquinas, Hobbes, Butler, Hume, Kant, and Mill. Selections may vary from year to year.

462 [112] Contemporary Moral Philosophy (3). Prerequisites, two courses in philosophy other than PHIL 155 (PHIL 362 recommended) or permission of instructor. Fact and value, reason and morality, the nature of morality.

463 [120] Contemporary Moral and Social Problems (3). Prerequisites, two courses in philosophy other than PHIL 155 or permission of instructor. A detailed examination of one or more of the following contemporary issues: environmental ethics, animal rights, abortion, euthanasia, pornography, racism, sexism, public versus private morality.

465 [175] Justice in Health Care (3). Prerequisite, one course in philosophy or permission of instructor; medical students welcome. The course will focus on the question of how scarce health care resources ought to be distributed in order to meet the demands of justice.

468 [168] Risk and Society (3). Prerequisites, PHIL 155 and one other course or permission of instructor. The course examines attitudes toward risk and how they affect our preferences for different public policies in the areas of environmental protection, technology regulation, and workplace and product safety.

470 [105] Political Philosophy from Hobbes to Rousseau (3). Prerequisites, two courses in philosophy other than PHIL 155 (PHIL 170 or PHIL 370 recommended) or permission of instructor. Explores the foundations of justice and authority in the idea of contract or covenant, the nature of law, rights, liberty, and democracy in the work of Hobbes, Locke, Hume, Rousseau.

471 [104] Hegel, Marx, and the Philosophical Critique of Society (3). An examination of central issues in social and political philosophy as they figure in the work of Hegel, Marx, Nietzsche, and others.
473 [160] American Political Philosophy (3). Prerequisites: junior/senior status and one course in the Philosophy Department other than PHIL 155. The issue of unity and diversity in America is analyzed through the writings of Jefferson, the Federalists and Anti-Federalists, Calhoun, MacKinnon, Dubois, and Rawls.

475 [165] Philosophical Issues in Gender, Race, and Class (WMST 475) (3). Prerequisite, PHIL 275, WMST 101, or permission of instructor. Examines in greater depth and complexity one or more of the issues addressed in PHIL 275; investigating issues of gender, race, and class within the dominant theories of philosophy.

476 [130] Recent Developments in Political Philosophy (3). Prerequisites, two courses in philosophy other than PHIL 155 (PHIL 370 recommended) or permission of instructor. Investigation of major contemporary contributors (Rawls, Nozick, Dworkin, Cohen, Waldron, Arrow) to philosophical debate concerning justice, equality, liberty, democracy, public reason, or rights versus community.

480 [113] Philosophy of Law (3). An exploration of whether and under what conditions the state has the right to control crime by punishment of past crimes and preventive detention to prevent future crimes.

482 [142] Philosophy and Literature (CMPL 482) (3). Philosophical readings of literary texts, including novels, plays, and poems.

485 [103] Philosophy of Art (3). Competing theories of art and art criticism. The relationship between art and emotional expression, the formal character of art, and standards of taste.

494 [158] Existentialism and Phenomenology (3). A study of one or two major systematic works by Sartre, Heidegger, or Merleau-Ponty.

495 [178] Health Care, Science, and Philosophy (3). Interdisciplinary course to develop critical thinking capacities through philosophical study of the nature of scientific presuppositions and concepts, including events, causality, and determinism, with specific application to health care issues.

691H [100A] Courses for Honors (3). Prerequisite, senior honors major. See the director of undergraduate studies of the department.

692H [100B] Courses for Honors (3). Prerequisite, senior honors major. See the director of undergraduate studies of the department.

698 Philosophy, Politics and Economics II: Capstone Course (ECON 698, POLI 698) (3). Prerequisites, permission of instructor and PHIL 384. This capstone course advances PHIL 384, focusing on the theoretical and philosophical issues, such as the analysis of rights or distributive justice and the institutional implications of moral forms.

Physics and Astronomy
www.physics.unc.edu

LAURIE E. MCNEIL, Chair
Professors

Associate Professors
J. Christopher Clements, Dmitri V. Khvoshchenko, Lu-Chang Qin.

Assistant Professors
Reyco Henning, Rene Lopez, Laura Mersini, Daniel E. Reichart, Paul Tiesinga.

Lecturer
Duane Deardorff.

Research Professor
Robert K. McMahan Jr.

Research Associate Professors
Nalin R. Parikh, Russell M. Taylor II.

Research Assistant Professors
Alfred Kleinhammes, Edward Timothy O'Brien III.

Adjunct Professors

Adjunct Associate Professors
John D. Hunn, Ryan M. Rohm, Christopher Thompson.

Adjunct Assistant Professors
Brian R. Stoner, Michael R. Falvo.

Professors Emeriti

Introduction
The goal of physics is a unified description of the properties of matter and energy. The study of matter and energy encompasses a wide range of phenomena from the subnuclear to the cosmological. Physics seeks to understand the way the universe "works," from the very small scale (quarks and neutrinos) to the human scale (materials encountered in daily life) to the structure of the cosmos. Different approaches and technologies are used in these different regimes.

The areas of active research at UNC-Chapel Hill can be divided into nuclear physics and nuclear astrophysics, condensed matter and materials physics, field and particle physics, and astronomy and astrophysics. Often, the separation between subfields is not as distinct as it appears. For example, nuclear and particle physics is used to address questions in astrophysics. As scientists have learned more about the universe, they have realized that even the boundaries between the sciences have blurred. Today, physics shares interests with biology, chemistry, and computer science. Physicists are also responsible for the invention of much of our modern technology, including computers, lasers, medical imaging devices such as MRI and ultrasound, nuclear reactors, and the World Wide Web.

Physics has played a significant role in shaping modern society and culture, and some knowledge of physics is essential if one is to fully appreciate the world. As the frontiers of physics and astronomy have advanced, old questions have been answered or refined, new questions have been asked, and major surprises have been encountered. The joy of doing physics is "To see a world in a grain of sand and a heaven in a wild flower; hold infinity in the palm of your hand and eternity in an hour" (William Blake).
Programs of Study
The department offers a bachelor of science in physics and a bachelor of arts in physics (with options in standard physics, astronomy, and geophysics). A minor in astronomy and a minor in physics also are offered.

Majoring in Physics and Astronomy: Bachelor of Arts
II. Two required classes: mechanics (PHYS 201 or 301) and electromagnetism (211 or 311).
III. One additional course chosen from: any physics course numbered above 200, excluding laboratory courses.
IV. Five additional courses to satisfy one of the following three areas of concentrations.

B.A. Standard Option
CHEM 101/101L and 102/102L
One additional course chosen from III above
Two additional courses chosen from III above or from ASTR 501, 502, 519

Astronomy Option
ASTR 101/101L Descriptive Astronomy and lab
ASTR 301 Cosmic Evolution
ASTR 501 Astrophysics I
ASTR 502 Astrophysics II
ASTR 519 Observational Astronomy

Geophysical Option
CHEM 101/101L and 102/102L
One additional course chosen from #III above
Two courses chosen from
• PHYS 422 Physics of the Earth’s Interior
• GEOL 515 Geophysics
• PHYS 660 Fluid Dynamics
• GEOL 518 Geodynamics

As part of these course requirements, candidates for the B.A. degree must earn grades of C (not C-) or higher in at least 18 credit hours of physics courses (PHYS) numbered 201 or higher (and/or astronomy courses [ASTR] numbered 291 or higher for students pursuing the astronomy concentration).

Majoring in Physics and Astronomy: Bachelor of Science
I. Preliminaries:
   a. Three-semester introductory sequence of mechanics, electromagnetism, and modern physics, i.e., relativity and quantum mechanics, (PHYS 116, 117, 128/128L)
   b. MATH 231, 232, 233, 383
   c. CHEM 101/101L and CHEM 102/102L
II. Required classes:
   a. PHYS 301 Mechanics I
   b. PHYS 311 and 312 Electromagnetism I and II
   c. PHYS 331 Introduction to Numerical Techniques in Physics
   d. PHYS 351 Electronics I
   e. MATH 528 and 529 Mathematical Methods for Physical Sciences I and II
   f. PHYS 341 Thermal Physics
   g. PHYS 481 and 482 Advanced Laboratory I and II
   h. PHYS 321 Introduction to Quantum Mechanics and 521 Applications of Quantum Mechanics
III. Two additional courses from: any physics course numbered above 300, or independent research (PHYS 295 or 395; ASTR 291 or 391)

As part of these course requirements, candidates for the B.S. degree must earn grade of C (not C-) or higher in at least 18 credit hours of physics courses numbered 331 or higher.

Most students will find it advantageous to defer some of the General Education requirements to the junior and/or senior year(s).

Various substitutions can be made, with the approval of the student's advisor, for required physics courses in the sophomore, junior, and senior years. PHYS 181 and/or 182 may be substituted for other laboratory courses (PHYS 142L, 143L), and courses chosen from PHYS 352, 415, 543, 545, 573, 595, and ASTR 301, 501, 502 may be substituted for PHYS 331 or 521.

Minoring in Physics and Astronomy
The minor in physics consists of five courses (Track 1 or 2):

Track 1 (Physics)
• Three-semester introductory sequence of mechanics, electromagnetism, and modern physics, i.e., relativity and quantum mechanics, (PHYS 116, 117, 128 and 128L)
• Two physics courses numbered above 200 that have as prerequisites one or more of the three courses listed above

Track 2 (Astronomy)
• Three semesters of introductory physics and astronomy (PHYS 116, 117, ASTR 101/101L)
• Two courses chosen from ASTR 291, 301, 519

Honors in Physics and Astronomy
The department offers an Honors Program for students majoring in physics. This program involves independent study and research (or advanced course work) and an oral presentation. It requires an overall grade point average of at least 3.2 and a GPA of 3.4 for physics and mathematics at the end of the junior year.

Students who wish to enter the Honors Program should consult with their departmental advisors not later than the pre-registration period in the spring semester of their junior year.

Special Opportunities in Physics and Astronomy

Departmental Involvement
The Society of Physics Students, open to anyone interested in physics, builds connections between undergraduates, graduate students, faculty, and alumni. The society invites visitors to give talks and sponsors a number of events for students each year.

Undergraduate Awards
The department gives awards each year to the senior (Shearin Award) and junior (Johnson Award) who achieve the most.

Undergraduate Research
All majors conduct at least one semester of research under the supervision of a faculty member. Many enjoy the experience so much that they continue for several semesters.
Graduate School and Career Opportunities

Students majoring in physics who are considering marine sciences as a graduate specialty should consult the material under the Department of Marine Sciences.

Contact Information


ASTR

061 [006G] First-Year Seminar: The Copernican Revolution (3). This seminar explores the 2,000 year effort to understand the motion of the sun, moon, stars, and five visible planets. Earth-centered cosmos gives way to the conclusion that Earth is just another body in space. Cultural changes accompany this revolution in thinking.

063 [006D] First-Year Seminar: Catastrophe and Chaos: Unpredictable Physics (3). Physics is often seen as the most precise and deterministic of sciences. Determinism can break down, however. This seminar explores the rich and diverse areas of modern physics in which "unpredictability" is the norm.

101 Descriptive Astronomy (3). Corequisite, ASTR 101L. A study of the celestial sphere, time, Earth, moon, artificial satellites, eclipses, sun, solar system, stars, the Milky Way, extragalactic systems, and cosmogony.

101L Descriptive Astronomy Laboratory (1). Corequisite, ASTR 101. Laboratory exercises, elementary calculations to illustrate methods used in astronomy. Work is performed in the planetarium (ASTR 101P) and observatory night labs (ASTR 101L). Two laboratory hours a week.

291 [091] Research and Special Topics for Juniors and Seniors (1-12). Permission of instructor. To be taken by honors candidates and other qualified juniors and seniors.

301 [117] Cosmic Evolution (3). Prerequisites, MATH 232 and ASTR 101, or permission of instructor. A course in stellar and planetary astrophysics with emphasis on astronomical conditions for the development and sustenance of life.

391 [092] Research and Special Topics for Juniors and Seniors (1-12). Permission of instructor. To be taken by honors candidates and other qualified juniors and seniors.

501 [142] Astrophysics I (Stellar Astrophysics) (3). Prerequisites, PHYS 128 and MATH 383, or permission of instructor. An introduction to the study of stellar structure and evolution. Topics covered include observational techniques, stellar structure and energy transport, nuclear energy sources, evolution off the main-sequence, and supernovae.

502 [143] Astrophysics II (Interstellar Matter and Galaxies) (3). Prerequisites, PHYS 128 and MATH 383, or permission of instructor. An introduction to the study of the structure and contents of galaxies. Topics covered include the interstellar medium, interstellar hydrodynamics, supersonic flow and shock formation, star formation, galactic evolution, the expanding universe, and cosmology.

519 [137] Observational Astronomy (4). Prerequisite, ASTR 101 or permission of instructor. A course designed to familiarize the student with observational techniques in optical and radio astronomy, including application of photography, spectroscopy, photometry, and radio methods. Three lecture and three laboratory hours a week.

PHYS

051 [006D] First-Year Seminar: The Interplay of Music and Physics (3). This seminar examines musical instruments and the way in which sounds are combined to make music. Team-taught by Professor Laurie McNeil of the Department of Physics and Astronomy and Professor Brent Wisick of the Department of Music. Grand finale is a concert given by students, featuring their own compositions for instruments they have designed and built.

052 First-Year Seminar: Making the Right Connections (3). This seminar investigates the multiple roles that computers and microprocessors perform in scientific investigations and the impact of technological advances on society. Students perform experiments, take field trips to research labs, and gain hands-on experience with computer-based instrumentation.

053 [006D] First-Year Seminar: Handcrafting in the Nanoworld: Building Models and Manipulating Molecules (3). This seminar provides a general introduction to nanoscience and nanotechnology focusing on recent advances in molecular electronics, nanomaterials, and biomedical research. Course activities include group model building projects, presentations, and discussions of reading material.

054 First-Year Seminar: Physics of Movies (3). Students watch and analyze short movie clips that demonstrate interesting, unusual, or impossible physics. Group analysis emphasized.

061 First-Year Seminar: The Copernican Revolution (3). In this course we will study the two thousand year effort, beginning with the Pythagorean Greeks in 500 BC, and ending with the work of Kepler and Galileo in 1609 AD, to understand the apparent motions of celestial objects (the Sun, Moon, stars, and five visible planets).

063 First-Year Seminar: Catastrophe and Chaos: Unpredictable Physics (3). The goal of this first year seminar is to explore the richness and diversity of those important and rapidly developing areas of modern physics in which "unpredictability" is the norm.

071 [006C] First-Year Seminar: Power Down: Preparing Your Community for the Transition from Cheap Oil (3). This seminar examines waste byproducts, including the effects of greenhouse gases on global climate and the long-term storage of nuclear waste.

100 [016] How Things Work (3). Demystifying the working of objects such as CD players, microwave ovens, lasers, computers, roller coasters, rockets, light bulbs, automobiles, clocks, copy machines, x-ray and CAT scan machines, and nuclear reactors.

101 [020] Basic Concepts of Physics (4). Basic principles of physics with introduction to quantum physics, atoms, nuclei, and relativity. Not to be taken for credit after PHYS 104-105 or 116-117. Three lecture and two laboratory hours a week.

102 [024E] (3). Lecture portion of 104, awarded as AP credit.

103 [025E] (3). Lecture portion of 105, awarded as AP credit.

104 [024] General Physics I (4). Corequisite, MATH 130 or equivalent. Only one of PHYS 104 and 116 may be taken for credit. Three lecture hours and two laboratory hours a week.

104L [024L] General Physics Laboratory (1). Prerequisite, permission of department. This section is only for students who have
completed the lecture section through transfer credit, BE credit, etc. Two laboratory hours a week.

105 [025] General Physics II (4). Prerequisite, PHYS 104. Only one of PHYS 105 and 117 may be taken for credit. Three lecture hours a week and two laboratory hours a week.

105L [025L] General Physics Laboratory (1). Prerequisite, permission of department. This section is only for students who have completed the lecture section through transfer credit, BE credit, etc. Two laboratory hours a week.

116 [026] Mechanics (4). Prerequisite, MATH 231 or permission; corequisite, MATH 232. Only one of PHYS 104 and 116 may be taken for credit. Mechanics of particles and rigid bodies. Newton’s laws; conservation principles. Oscillatory and wave motion. Sound. Four hours lecture and recitation per week and two hours laboratory every second week.

117 [027] Electromagnetism and Optics (4). Prerequisites, PHYS 116, MATH 232, or permission; corequisite, MATH 233. Only one of PHYS 105 and 117 may be taken for credit. Electricity and magnetism; Laws of Coulomb, Ampere, and Faraday. Electromagnetic oscillations and waves. Light; diffraction, and interference. Four hours lecture and recitation per week and two hours laboratory every second week.

128 [028] Modern Physics (3). Prerequisite, PHYS 117 (or PHYS 105 by permission of instructor); corequisite, PHYS 128L. Special relativity theory, black body radiation, photons and electrons; wave-particle duality. Elements of atomic theory, nuclei and fundamental particles. Three lecture hours a week.

128L Modern Physics Laboratory (1). Pre- or corequisite, PHYS 128. Selected modern physics experiments. Written research reports and oral presentations. Three lab hours a week.

131 [018] Energy: Physical Principles and the Quest for Alternatives to Dwindling Oil and Gas (3). Corequisite, PHYS 131L. A quantitative exploration of the physical principles behind energy development and use within modern civilization, the stark impact of depleted fossil fuel reserves, and alternative sources.

131L Energy: Physical Principles and the Quest for Alternatives to Dwindling Oil and Gas (1). Corequisite, PHYS 131. Explore renewable and nonrenewable energy sources. Three laboratory hours per week.

132 [037] Science and Society (3). A description of the scientific community and how scientists relate to such sociotechnical issues as the space program, the arms race, the energy problem, computer technology, medical technology, and pseudosciences.

201 [052] Basic Mechanics (3). Prerequisites, PHYS 104 (or PHYS 116) and MATH 232, or permission of instructor. A one-semester course in statics, kinematics, simple harmonic motion, central forces, and applications from modern physics.

211 [058] Intermediate Electromagnetism (3). Prerequisites, PHYS 105 (or PHYS 117) and MATH 233. Electric fields and potentials; dielectrics; steady currents; magnetic flux and magnetic materials; electromagnetic induction; emphasis on Maxwell’s equations and their application to electromagnetic waves in unbounded and unbounded media. Three lecture hours a week.

295 [091] Research and Special Topics for Juniors and Seniors (1-12). To be taken by honors candidates and other qualified juniors and seniors.


311 [107] Electromagnetism I (3). Prerequisites, PHYS 117 and MATH 383 (or permission). Brief treatment of DC and AC circuit theory. Electrostatics: dielectrics, the magnetic field, magnetic materials. Maxwell’s equations and their application to electromagnetic waves.

312 [108] Electromagnetism II (3). Prerequisites, PHYS 117 and MATH 383 (or permission). Brief treatment of DC and AC circuit theory. Electrostatics: dielectrics; the magnetic field; magnetic materials. Maxwell’s equations and their application to electromagnetic waves.


331 [061] Introduction to Numerical Techniques in Physics (4). Prerequisite, PHYS 116 (or PHYS 105); corequisite, MATH 233. Applications of calculus, vector analysis, differential equations, complex numbers, and computer programming are made to realistic physical systems. Three lecture and two computational laboratory hours a week.

341 [105] Thermal Physics (3). Prerequisites, PHYS 117 (or PHYS 105 by permission) and MATH 233. Equilibrium statistical mechanics; the laws of thermodynamics, internal energy, enthalpy, entropy, thermodynamic potentials, Maxwell’s equations.

351 [101] Electronics I (4). Prerequisites, PHYS 104 and MATH 231, or permission of the instructor. DC and AC circuit analysis, PN junctions and diodes, single-transistor circuits, transducers. Analog devices. Extensive circuit building with testing, trouble shooting, and debugging.


393 [093] Senior Seminar (1-21). To be taken by seniors with permission of department advisor.

395 [092] Research and Special Topics for Juniors and Seniors (1-12). To be taken by honors candidates and other qualified juniors and seniors.


471 [140] Physics of Solid State Electronic Devices (3). Prerequisite, PHYS 117. Pre- or corequisite, PHYS 211 or 311. Properties of crystal lattices, electrons in energy bands, behavior of majority and minority charge carriers, p-n junctions related to the structure and function of semiconductor diodes, transistors, display devices.


481 [142L] Advanced Laboratory I (2). Prerequisite, PHYS 351 or PHYS 352 or permission. Selected experiments illustrating modern techniques such as the use of laser technology to study the interaction of electromagnetic fields and matter. Six laboratory hours a week.

482 Advanced Laboratory II (2). Prerequisite, PHYS 142L or permission. Independent laboratory research projects. Scientific writing and oral presentations, abstracts, and reports. Six laboratory hours per week.

491 [148L] Materials Laboratory I (APPL 491L) (2). Prerequisite, PHYS 352. Pre- or corequisite, APPL 470. Structure determination and measurement of the optical, electrical, and magnetic properties of solids.

492L [192] Materials Laboratory II (2). Prerequisite, PHYS 491 or APPL 491L. Continuation of PHYS 491 with emphasis on low- and high-temperature behavior. The physical and chemical behavior of lattice imperfections and amorphous materials, and the nature of radiation damage.

521 [163] Applications of Quantum Mechanics (3). Prerequisite, PHYS 321. Emphasizes atomic physics but includes topics from nuclear, solid state, and particle physics, such as energy levels, the periodic system, selection rules, and fundamentals of spectroscopy.

543 [161] Nuclear Physics (3). Prerequisite, PHYS 321 or equivalent. Structure of nucleons and nuclei, nuclear models, forces and interactions, nuclear reactions.


573 [169] Introductory Solid State Physics (MTSC 573) (3). Prerequisite, PHYS 321 or equivalent. Crystal symmetry, types of crystalline solids; electron and mechanical waves in crystals, electrical and magnetic properties of solids, semiconductors; low temperature phenomena; imperfections in nearly perfect crystals.

595 [175] Nonlinear Dynamics (3). Prerequisite, MATH 383 or permission. Interdisciplinary introduction to nonlinear dynamics and chaos. Fixed points, bifurcations, strange attractors, with applications to physics, biology, chemistry, finance.


632 [192] Mathematical Methods of Theoretical Physics II (3). Prerequisite, PHYS 631 or permission. Partial differential equations, special functions, Green functions, variational methods, traveling waves, and scattering.

633 [193] Scientific Programming (3). Prerequisites, MATH 528 or 529, or PHYS 631 or 632; elementary Fortran, C, or Pascal programming. Structured programming in Fortran or Pascal; use of secondary storage and program packages; numerical methods for advanced problems, error propagation and computational efficiency; symbolic mathematics by computer.

660 [151] Fluid Dynamics (ENVR 452, GEOL 560, MASC 560) (3). Prerequisite, PHYS 301 or permission. The physical properties of fluids, kinematics, governing equations, viscous incompressible flow, vorticity dynamics, boundary layers, irrotational incompressible flow.

671L [181L] Independent Laboratory I (3). Prerequisites, PHYS 301, PHYS 312, or permission. Six laboratory hours a week.

672L [182L] Independent Laboratory II (3). Prerequisites, PHYS 301, PHYS 312, or permission. Six laboratory hours a week.

Department of Political Science

EVELYNE HUBER, Chair

Professors
Thomas Case, Pamela Conover, Virginia Gray, Jonathan Hartlyn, Liesbet Hooghe, Evelyne Huber, Michael Lienesch, Michael MacKuen, Gary Marks, Stuart Elaine Macdonald, Timothy McKeown, George Rabinowitz, Lars Scholtz, Donald Searing, Jeffrey Spinner-Halev, John Stephens, James Stimson

Associate Professors
Susan Bickford, Mark Crescenzi, Michele Hoyman, Stephen Leonard, Kevin McGuire, Layna Mosley, Thomas Oatley, Andrew Reynolds, Marco Steenbergen, Terry Sullivan, Isaac Unah, Milada Vachudova, Georg Vanberg

Assistant Professors
Navin Bapat, Eric Engstrom, Stephen Gent, Cecilia Martinez-Gallardo Graeme Robertson

Adjunct Professors
John Aldrich, Michele Berger, Patrick Cronin, Roger Eatwell, Daniel Gitterman, Kevin Hewson, Jolyon Howorth, Robert Jenkins, Michael Munger, Julius Nyang’oro, Jonathan Oberlander, Thomas Risse, Sue Tolleson-Rinehart, Niklaus Steiner.

Senior Lecturer
Donna LeFevre.


To be admitted to the Honors Program, students must have at least a 3.2 overall grade point average and 3.5 in political science. They should have completed four courses in the major. Students interested in participating in the Honors Program should contact the director of political science honors during the first semester of their junior year.

**Special Opportunities in Political Science**

**Experiential Education**

Internship courses provide students with the opportunity to earn academic credit while obtaining practical work experience in agencies and organizations clearly related to the study of political science. In recent years, interns have served in these and other agencies: Domestic Legal Services, Family Violence Protection Center, Chapel Hill Police Department, Women's Center, Orange County Rape Crisis Center, Chapel Hill City Manager's Office. They have also completed internships in state and national legislative offices, as well as in political parties and policy organizations. Some students have participated as interns in international agencies, including the European Union. Students are limited to one internship, and all internships are limited to three hours of academic credit. Although some routine administrative tasks are required in any professional setting, the expectation is that a majority of the intern's work will be directed toward the substantive mission of the agency and that tasks will be of a nature to justify the award of academic credit. All internships require prior approval and, at least eight hours per week and at least 100 hours per semester. Students must sign an internship contract with their agency and faculty supervisors, setting out expectations and course requirements. In addition to keeping a daily internship journal, they are required to write a research project paper of high academic quality. Grades are determined by the faculty supervisor. Questions regarding internships should be directed to Professor Donna LeFebvre.

**Study Abroad**

Students interested in the fields of comparative politics and international relations are strongly encouraged to participate in a study abroad program. This is particularly appropriate for students who wish to work for government agencies such as the Foreign Service, for international public organizations such as agencies in the United Nations, or for internationally oriented non-governmental organizations engaged in development projects, humanitarian relief, or human rights activities. Studying abroad also will be helpful to students who are interested in pursuing a business career in a multinational corporation.

**Training for Public Service**

The undergraduate major in political science provides a sound foundation for professional master's programs in public administration such as that offered at this University and at many other universities. For students planning to enter the public service, regardless of undergraduate major, the following courses are recommended consistent with other college requirements: POLI 100, ECON 101, PSYC 101, POLI 120, ENGL 300, and courses in statistics/operations research.

**Undergraduate Awards**

Each year the Political Science Department holds an honors awards ceremony to recognize students who have successfully defended their honors thesis and to induct students into the political science honorary organization, Pi Sigma Alpha. Undergraduate students also are selected to receive the William Scott Bryant Award.
for Interns, the Shepard Jones Undergraduate Award in International Relations, the L. Richardson Preyer Award for Excellence in Political Science, and the Terry Sanford Award for Excellence.

- Pi Sigma Alpha is the national political science honorary society. Membership is restricted to those political science majors who have completed 15 hours of political science with an overall grade average of 3.2 or better and a political science grade average of 3.5 or better.
- The William Scott Bryant Award is given to an outstanding undergraduate major to enable him or her to attend internship programs in Washington, D.C.
- The Shepard Jones Undergraduate Award in International Relations is given to an undergraduate at the University of North Carolina at Chapel Hill for the best essay in international relations (any field and broadly defined).
- The L. Richardson Preyer Award for Excellence in Political Science is given to the undergraduate student with the best overall record in political science.
- The Terry Sanford Award for Excellence is given to the undergraduate student judged to have written the best political science honors thesis.
- The D'Amico Endowment Fund for Honors Students funds academic research and activities for honors students in the Department of Political Science.

Undergraduate Research

Courses in political science often include a research component, and students may engage in directed research under the supervision of a faculty advisor. The Honors Program provides political science majors the opportunity to pursue an independent research project over a two-semester period, culminating in a senior thesis. Students may apply for funding and support for research projects to the Office of Undergraduate Research. The office also sponsors a research fair where students can present their findings in panels and poster sessions open to the public.

Graduate School and Career Opportunities

Students with a major in political science may choose to continue their studies in a number of different professional areas, including law, business administration, public administration, public policy analysis, international relations, and area studies. Students seeking to become professional political scientists should pursue graduate study in a Ph.D. program in political science.

The following is a brief listing of careers for which a major in political science is valuable preparation: positions with government agencies such as the Foreign Service, with international public organizations such as agencies in the United Nations, or with internationally oriented non-governmental organizations engaged in development projects, humanitarian relief, or human rights activities; secondary- and university-level teaching of government and politics; law related professions; educational administration at all levels; federal and state government employment, with its varied administrative, management, and executive opportunities; governmental research in universities, libraries, and public affairs agencies; municipal management and general administration; and corporate positions in environmental protection, statistical analysis, and public affairs.

Contact Information

Questions and requests regarding the undergraduate program should be directed to Janet Ward, Undergraduate Studies Coordinator; Stuart Elaine Macdonald, Director of Undergraduate Studies; or Evelyne Huber, Chair, Department of Political Science, CB# 3265, Hamilton Hall, (919) 962-3041.

POLI

050 [006E] First-Year Seminar: Movies and Politics (3). Movies often reflect important social and political issues. In this course students will see a set of movies, discuss them, and put them into social and political context.

051 [006E] First-Year Seminar: Plessy v. Ferguson: The Play (3). This course will introduce students to the law, civil rights, Southern history, politics, moral questions, and culture surrounding the 1896 case of Plessy v. Ferguson, a case that has had an impact on every part of our life in America.

053 First-Year Seminar: The Politics of Shakespeare (3). Literature often provides insight into political life. Issues such as power, justice, equality, and rights have long been illuminated by authors seeking to capture a wide variety of political relationships.

054 [006E] First-Year Seminar: The American Worker: Sociology, Politics, and History of Labor in the United States (3). This course will survey a wide range of topics on the American Laborer and the American Worker unions.

055 [006E] First-Year Seminar: Democracy and the Civic Ideal (3). This course examines the emergence of the increasingly diverse and divided ethnic and racial compositions.


057 First-Year Seminar: Politics of Multiculturalism (3). This seminar will examine the challenges that religious and ethnic identity groups are posing to the principles of liberal democracy, primarily in Europe and North America but increasingly throughout the world.

58 First-Year Seminar: Global Production and Workers' Rights: North Carolina, Latin America, and East Asia (3). This course explores the politics of economic globalization, with a focus on the relationships among trade, multinational corporations, and workers' rights.

060 [006E] First-Year Seminar: International Politics and International Terrorism (3). This course will address the nature of terror and its use by private individuals and by governments.

061 [006E] First-Year Seminar: The United States and Cuba: Making Sense of U.S. Foreign Policy (3). This interdisciplinary seminar is designed for students who wish to learn about Latin America in the disciplines of history and political science.

062 [006E] First-Year Seminar: Power Politics (3). This course prepares the student for an understanding of influence and the practice of political leadership and persuasion.

064 [006E] First-Year Seminar: A Sense of U.S. Foreign Policy (3). A knowledge of inter-American relations, diplomatic history, or foreign policy, necessary for a career in any of these areas, is the focus of this course.

065 [006E] First-Year Seminar: Pressure and Power: Organized Interest in American Politics (3). This course is designed to offer students insight into how political scientists think about political phenomena.

066 [006E] First-Year Seminar: The United States and the European Union: Partners or Rivals? (3). The alliance between America and the European Union is one of the most important political relationships today.

067 [006E] First-Year Seminar: Designing Democracy (3). Introducing the study of using political institutions as levers of conflict management in ethnically plural, postconflict national states.


069 First-Year Seminar: Computer-based Analysis of International Conflict (3). This seminar will teach students computer-based methods of analyzing the history of international conflict. The objectives are (1) to gain a basic understanding of international conflict; (2) to introduce simple but powerful ways to analyze text and numerical data; and (3) to provide an opportunity to perform original research.

070 First-Year Seminar: The Politics of the European Union (3). This course examines the ongoing development of the European Union and on key policy areas.

071 First-Year Seminar: The Life and Death of Political Organizations (3). This seminar examines how the definition of scientific problems, their tentative solution via the development of scientific theories, and the testing of these theories in one discipline influence the same activity in another.

100 [041] Introduction to Government in the United States (3). An introductory course designed to explain the basic processes and issues of the American political system.

101 [042] State and Local Government in the United States (3). An introductory course on the government, politics, and policies at the state and local levels of the United States federal system.

130 [050] Introduction to Comparative Politics (3). This course highlights the comparative method by seeking to understand differences among diverse states on five continents: United Kingdom, Northern Ireland, South Africa, Burma, and Fiji.

131 [060] Political Change and Modernization (3). An overview of politics and government in the Third World, emphasizing characteristics, problems, and solutions (successful and otherwise) common to nations making the attempt to modernize.

150 [086] International Relations and World Politics (PWAD 150) (3). The analysis of politics among nations.

181 [078M] Quantitative Research in Political Science (3). An introduction to 1) conceptual foundations of scientific study of politics; 2) research design; 3) descriptive statistics; and 4) inferential statistics. To accomplish these goals, the course employs class lectures, readings, and problem set assignments.

195 [095] Undergraduate Seminar (3). A detailed examination of selected topics in the field of political science.

196 Independent Study in Political Science (1-3). Permission of director of undergraduate studies. Readings and research under the supervision of a member of the department. Open to political science majors.

197 Internship in Political Science (3). An opportunity to obtain credit for an internship in a government or public service organization. Permission of the director of internships is required before the internship commences.

200 [080] The President, Congress, and Public Policy (3). An analysis of the roles and influence of the president, the Congress, and other participants in the making of national policy.

201 [077] Politics of Bureaucracy (3). Problems of the public service; internal dynamics of public organizations; acquisition and allocation of public funds; the roles of bureaucracy in relation to public policy, clients, the citizenry, and society.

202 [079] The United States Supreme Court (3). Examination of the process of policy making on the Supreme Court. Focuses upon the selection of justices, factors affecting the court's decision making, and the impact of its policies.

206 [047] Ethics, Morality, Individual Liberty, and the Law (3). This course introduces students to moral and ethical issues that arise when individual rights conflict with the law and the central role race plays in American society's response.

207 [071] The Politics of Organized Interests (3). This course examines how interests organize themselves, enter into and then interact within interest communities, and seek to influence government policy through electoral activity and lobbying legislators, executives, and courts.

208 [075] Political Parties and Elections (3). An analysis of the dynamics of party alignment and realignment and of nomination and election to public office in American national government.

209 [070] Public Opinion and Political Participation (3). A study of forces affecting public opinion and its expression in various political activities. Emphasis on gathering and analyzing opinion data. Course may be taught in the computer classroom.


214 [096] Practicum in State Government (3). Designed to give students experience in the legislative or executive branches of state government. The course will provide the structure for an in-depth study of several contemporary issues facing state government.

215 [066] Political Psychology: An Introduction (3). Findings of the behavioral sciences are examined as they relate to politics. Includes such issues as human nature, community, political socialization, alienation, mass movements, belief systems, and personality.

216 [097] Constitutional Democracy (3). Examines the theory and practice of constitutional democracy, including the process of constitution writing, constitutional maintenance, and constitutional change, with special emphasis on the U.S. Constitution.
217 [072] Women and Politics (WMST 217) (3). A comparison of men and women as political actors at the mass and elite level in America. Topics considered include the "gender gap," the women's movement, abortion, and the Equal Rights Amendment.

218 [073] Politics of Sexuality (WMST 218) (3). Examines the role of lesbians, gays, and bisexuals as political actors in the United States, both as individuals and collectively as a social movement.

219 [076] Violence Against Women: The Legal Perspective (WMST 219) (3). This course examines violence against women by examining theories, causes, and contributing factors surrounding violence against women.

226 [054] Government and Politics of East Asia (ASIA 226) (3). The indigenous political ideas and institutions of east Asia and western influence on Asian government and politics with emphasis upon the political evolution and contemporary governments of Japan, China, and Vietnam.


231 [087] Latin America and the United States in World Politics (PWAD 231) (3). A survey of the events, institutions, and issues that have dominated relations between Latin America and the United States.

232 [053] Politics in England (3). An introduction to contemporary English politics emphasizing the political battle between Socialist and Conservative ideologies.

235 [085] Politics of the Soviet Union and its Successor States (RUES 699) (3). Factors and forces that explain the rise and demise of the Soviet political system and consideration of emerging new political configurations in the area.

236 [057] Politics of East-Central Europe (3). Examines contemporary politics in east-central Europe by looking at the communist period, the 1989 revolutions, and the political, economic, and social transformations underway in the area.

238 [056] Contemporary Latin American Politics (3). An introduction to contemporary political conditions in Latin America, including consideration of leading theoretical explanations. Country emphasis varies with instructor.

239 [052] Introduction to European Government (3). A treatment of the political institutions and processes of western European democracies, with special attention to France, Germany, England, and Italy.

241 [059] Contemporary Africa (3). Examines the development and operation of the political systems of contemporary Africa, emphasizing the period since independence and giving primary attention to sub-Saharan Africa.

250 [085] Asia and World Affairs (ASIA 250, PWAD 250) (3). A survey of relations between the United States and major Asian powers: China, the USSR, and Japan.

252 [088] International Organizations and Global Issues (PWAD 252) (3). Examines international organizations and their relationships with and impact upon international politics, international law, and selected global issues.

253 [081] Problems in World Order (PWAD 253) (3). An examination of selected topics in international relations, such as security and defense, international integration, and north-south relations.

254 [083] International Environmental Politics (ENST 254) (3). See ENST 254 for description.

255 [089] Great Decisions (2). Major issues of contemporary international relations, in conjunction with the Great Decisions lecture series. May be repeated for credit once unless credit has already been received for INTS 393. May not be taken in the same semester as INTS 393.

256 [091] Defense Policy and National Security (3). National defense policy, including strategy, weapons systems, and the bureaucracies/organizations that deal with them. Lectures and discussion sections.

257 [051] Society and Culture in Postwar Germany (GERM 257, HIST 257, SOCI 257) (3). See GERM 257 for description.

259 [082] Evolution of the International System (PWAD 259) (3). An examination of changes in the nature of the international system from about 1870 to the present, emphasizing changing patterns of alliance politics and crisis behavior.


265 [067] Feminism and Political Theory (WMST 265) (3). Introduction to feminist theory and its implications for the study and practice of political theory. Topics: women in feminist critiques of the western political tradition, schools of feminist political theory.

270 [063] Classical Political Thought (3). Survey designed to introduce students to major political thinkers and ideas of the ancient world and of the medieval period.

271 [064] Modern Political Thought (3). Survey course designed to introduce students to major political thinkers and schools of thought dating roughly from the 16th century to the present.

272 [068] The Ethics of Peace, War, and Defense (PHIL 272, PWAD 272) (3). The legitimacy of states; just war theory; pacifism; the ethics of revolution; terrorism; problems of war in an age of weapons of mass destruction; the moral conditions of peace.

273 [069] Social and Economic Justice (SOCI 273) (3). Covers theory and practice of social and economic justice, including analyses of racial-gender-ethnic-national and other forms of justice, the history of influential movements for justice, and strategies of contemporary struggles.

274 [065] African-American Political Thought (3). A consideration of the political thought of African-Americans, particularly within the context of the broader spectrum of American political thought, and both as reaction and contribution to that thought.

276 [061] Major Issues in Political Theory (3). An examination of major issues in political thought, including: equality; obedience; violence and nonviolence; justice; forms of social, economic and political life; liberty; and human nature and politics.

280 [062] American Political Thought (3). A survey course in American political ideas from the 17th century to the present, with emphasis on the role of politics, society, and economy in American thought.

384 [048] Introduction to Philosophy, Political Science, Economics (ECON 384, PHIL 384) (3). See PHIL 384 for description.

400 [172] Executive Politics (3). This course explores how presidents select policy options, how they decide timing, what shapes their congressional support, and how they build successful coalitions.


404 [102] Research in Urban Politics (3). Prerequisite, POLI 100 or 101. Examines contemporary research programs on urban politics conducted by political scientists. These topics will be examined both in terms of substantive findings and research methodology.

405 [134] North Carolina Politics and Public Policy (3). An intensive study of politics, government, and public policy in the state of North Carolina. Emphasis is placed on student research projects, with a major paper the main requirement.


408 [169] Business-Government Relations (3). Explores the nonmarket environment of firms and policymakers. Topics include the media, lobbying, antitrust, regulation, product safety, international trade, globalization, and corporate ethics. Emphasis on class discussion and presentation.

409 [154] Mock Constitutional Convention (3). Students employ their understanding of political philosophy and practical politics to write a new Constitution for the United States. Emphasis is on creative blending of theory and practice.

410 [155] The Constitution of the United States (3). A study of the fundamental principles of constitutional interpretation and practice in the United States by means of lectures, textbooks, and cases. Emphasis will be on the political context surrounding the impact following Supreme Court decisions.

411 [157] Civil Liberties under the Constitution (3). An analysis of the complex political problems created by the expansion of protection for individual liberties in the United States. Emphasis will be on contemporary problems with some supplemental historical background.


414 [151] The Adversary System (3). An overview of the theories, problems, and practices of police, courts, and corrections, and the values underlying our adversary system, especially with relation to constitutional principles, judicial integrity, and racial discrimination.

415 [159] Criminal Law (3). This course is concerned with traditional substantive criminal law: crime; defenses and excuses to criminal liability; issues of morality attached to criminal law; constitutional limitations on punishments.


417 [167] Advanced Political Psychology (3). Prerequisite, POLI 215, 216, or 697. Examines in greater depth issues in the field of political psychology, including conflict and conflict resolution, socialization, attitude formation, mass movements, leader-follower relationships, and psychobiography.

418 [174] Mass Media and American Politics (3). Prerequisites, junior-senior standing and POLI 100. Examination of the role, behavior, and influence on the mass media in American politics.

419 [171] Race, Poverty, and Politics (3). Definitions of poverty and their policy implications; the composition and causation of poverty; an examination of public policies directed at the alleviation, reduction, and elimination of poverty.

420 [178] Legislative Politics (3). Examines the politics of the U.S. Congress. Emphasis on representation, the legislative process, and policymaking.

421 Equality Under the U. S. Constitution (3). An analysis of the legal and political issues regarding equality as interpreted by the U.S. Supreme Court.

422 Constitutional Freedoms in the U.S. (3). A historical and analytic examination of the fundamental freedoms contained in the bill of rights, including speech, press, and religion.

430 [128] European Politics (3). Prerequisite, POLI 239. Active participation of students in a research project on career motives and ethical principles in European countries.

432 [113] Tolerance in Liberal States (3). Prerequisites, POLI 100, 239. This course will compare the theory and practice of tolerance in the United States and Europe, with particular attention to Great Britain and France.

433 [115] Politics of the European Union (INTS 433) (3). Prerequisites, two prior courses in political science or international studies. Examines the politics and political economy of institutional change and policy making in the European Union in comparative perspective.

434 [116] Politics of Mexico, Central America, and the Caribbean (3). Prerequisite, POLI 238 or permission of instructor. The analysis of politics in Mexico, Central America, and the Caribbean.

435 [127] Democracy and Development in Latin America (3). Prerequisite, POLI 238 or permission of instructor. The analysis of central issues of democracy and development in Latin America.

436 [127S] Democracy and Development in Latin America (Spanish) (3). Prerequisites, POLI 238 and SPAN 121 or 290 or equivalent intermediate-level language knowledge; or permission of instructor. The analysis of central issues of democracy and development in Latin America.

437 Political Change in Asia (3). Prerequisite, POLI 241 or POLI 131, or AFRI 101. Comparative analysis of state-society relations in selected post-colonial African countries.
438 [121] Democracy and International Institutions in an Undivided Europe (INTS 438) (3). Explores the collapse of communist rule in 1989 and the reaction of international institutions to the challenges of democratization, economic transition, ethnic conflict, and European integration in an undivided Europe.

439 [114] Comparative European Societies (SOCI 439) (3). Examination of commonalities and differences of European societies and of the tensions and difficulties attending the European integration process.

440 [123] Government and Politics in Japan (ASIA 440) (3). Examines the Japanese political process in the period since World War II with emphasis on popular culture and behavior, and on governmental policy making in both domestic and foreign affairs. Previous course work on east Asia recommended but not required.

442 [140] International Political Economy (3). Prerequisites, POLI 150 and ECON 101. Theories of international political economy; major trends in international economic relations; selected contemporary policy issues.

443 [144] American Foreign Policy: Formulation and Conduct (PWAD 443) (3). Prerequisite, POLI 150 or permission of the instructor. The role of Congress, the press, public opinion, the president, the secretary and the Department of State, the military, and the intelligence community in making American foreign policy. Emphasis is placed on the impact of the bureaucratic process on the content of foreign policy.

446 [149] Defense Policy and National Security (AERO 446, PWAD 446) (3). Prerequisite, POLI 150 or permission of instructor. A study of national defense policy as affected by the constitutional and political setting, as well as its relation to foreign policy. Some attention to strategic doctrine.

447 [150] Theory of War (PWAD 447) (3). Examines the nature, purposes, and conduct of war. Emphasizes interaction between political and military phenomena; introduces the study of strategy and its relationship to domestic and international politics.

449 [141] Human Rights and International Criminal Law (3). This course examines international efforts to punish genocide, crimes against humanity, and war crimes. The evolution of international criminal law, jurisdiction, remedies, problems, alternatives, and recent case studies is included.

450 [147] Contemporary Inter-American Relations (PWAD 450) (3). Prerequisite, POLI 238 and/or POLI 231 or PWAD 231. A comprehensive analysis of hemispheric international relations and foreign policies of individual Latin American nations.

451 [146] International Communications and Comparative Journalism (3). Prerequisites, six semester hours of upper-division courses in international relations or recent European history.

456 [145] Contemporary International Relations of the United States (3). Prerequisite, POLI 150 or permission of instructor. A study of selected United States foreign policy problems since World War II; analysis of the process of policy formulation and the impact of the external environment and domestic policies on the White House and Department of State.

457 International Conflict Processes (3). Prerequisite, POLI 150 or permission of instructor. Analysis of international conflict and the causal mechanisms that drive or prevent conflict. Emphasis is on the conditions and processes of conflict and cooperation between nations.

459 [122] The United States and Russia (3). A comparative inquiry into contrasting cultures, values, attitudes, and behavior patterns: why can't and why don't the Russians want to be like Americans?

469 Conflict and Intervention in the Former Yugoslavia (PWAD 469, RUES 469) (3). Focuses on ethnic and political conflicts in the former Yugoslavia and efforts by the international community to end conflict and promote peace and reconstruction.

470 [161] Social and Political Philosophy (3). An examination of the logic of social and political thought with an analysis of such concepts as society, state, power, authority, freedom, social and political obligation, law, rights.

471 [166] Recent Contemporary Political Thought (3). Survey of the historical foundations, central tenets, and political consequences of prominent 20th-century political theories. Topics include: contemporary liberalism and Marxism, fascism, theories of development, populism, feminism.

472 [165] Problems of Modern Democratic Theory (3). Major problem areas in democratic theory including definitions, presuppositions, and justifications of democracy, liberty, equality, minority rights, public interest, participation, dissent, and civil disobedience.

473 Politics and Literature (3). Identifies and interprets political ideas using historical and contemporary literary sources. Examines literature as political practice.

474 Religion and Politics (3). Examines the relationship between religion and politics, with emphasis on the United States. Topics include church-state issues, religious-political movements, religion and public policy, religion and voting.

475 [163] Marxism and Socialism (3). A consideration of the political thought of major Marxist and socialist schools, including Marxism, Leninism, contemporary democratic and revolutionary socialism – with reference to utopian socialism, and recent controversies on the left.


691H [091] Honors Course (3). Prerequisite, permission of instructor required. Required of all students in the Honors Program in political science.

692H [092] Honors Course (3). Prerequisite, permission of instructor required. Required of all students in the Honors Program in political science.

697 [094B] Theory and Practice of Representative Government (3). Theories of representative government with special emphasis upon those derived from modern social choice theory.

698 Philosophy, Politics and Economics II: Capstone Course (ECON 698, PHIL 698) (3). This capstone course advances PHIL 384, focusing on the theoretical and philosophical issues, such as the analysis of rights or distributive justice and the institutional implications of moral forms.
Department of Psychology  
www.unc.edu/depts/psychweb/under.html

KAREN M. GIL, Chair  
Donald T. Lysle, Associate Chair

Professors  

Associate Professors  

Assistant Professors  
Jennifer Arnold, Daniel J. Baur, Rita Fuchs Lokensgard, Kelly Giovanello, Melanie C. Green, Deborah J. Jones, B. Keith Payne, Lorraine C. Taylor.

Lecturers  
Elizabeth Jordan, Jeannie Loeb, Charles Wiss.

Clinical Professors  
Ann Louise Barrick, Ariane Margoils.

Clinical Associate Professors  

Clinical Assistant Professors  
Lisa Duke, Scott Schwartz, Jennifer A. Snyder, Teresa Wise.

Adjunct Professor  
Gordon Pitz.

Adjunct Associate Professor  
Richard A. Lucas.

Adjunct Assistant Professor  
Deanna Larus, Robert W. Lawson, William Sampson, Beril Ulku-Stener, Gladys Williams.

Professors Emeriti  

Introduction  
In the undergraduate study of psychology, the emphasis is on a broad acquaintance with the behavioral sciences, not specialization. The subject matter is preparatory to a career in psychology either in basic research and teaching, or in any number of professional applications to various human problems. A psychology major may prove valuable to those planning other professional careers such as medicine, law, education, or business, as well as to those who seek a broad cultural background in the behavioral sciences. The courses in the department available to undergraduate students are listed on the following pages. No courses numbered 700 or above may be taken by undergraduate students under any circumstances. As indicated, some courses in this listing will be offered only in alternate years; consult the current Directory of Classes for each semester’s offerings. PSYC 101 is prerequisite to ALL other courses offered in the Department of Psychology. Students and their advisors should take careful note of the specified prerequisites for advanced offerings in this listing. The specified courses (or their equivalents from other institutions) provide a necessary background for entry into these advanced courses.

Programs of Study  
The degrees offered are bachelor of arts and bachelor of sciences in psychology. A minor in cognitive science is also available.

Majoring in Psychology: Bachelor of Arts  
Students seeking the bachelor of arts degree in psychology must complete the following departmental requirements in addition to courses required by the College of Arts and Sciences.

- PSYC 101 with a grade of C or better
- PSYC 210 Statistics
- PSYC 270 Research Methods
- One sub-400 level course from four of the following psychology program areas: biological (PSYC 220 or 225*), clinical (PSYC 240 or 245), cognitive (PSYC 222, 225*, or 230), developmental (PSYC 250), social (PSYC 260)
- PSYC 225 can meet either the biological or cognitive requirement, but not both.
- Two psychology courses numbered 400 or above
- Two additional psychology courses (may include three hours of PSYC 395 and/or up to six hours of PSYC 693H-694H)

Out of Department Courses:  
- BIOL 101 and 101L
- One other physical and life sciences course, which must be from a department other than psychology
- One of MATH 130, 132, 231, COMP 110, 116
- The three social and behavioral science courses required for graduation must be from departments other than psychology

Majoring in Psychology: Bachelor of Science  
Students with a particular interest in mathematics and the natural sciences may elect to work for the bachelor of science degree in psychology. They must complete the following departmental requirements in addition to courses required by the College of Arts and Sciences.

Psychology Courses:  
- PSYC 101 with a grade of C or better
- PSYC 215 Statistics (with department approval, PSYC 210 plus an advanced course in psychological measurement or research design may substitute for PSYC 215)
- PSYC 270 Research Methods
- One sub-400 level course from the biological (PSYC 220 or 225*) and cognitive (PSYC 222, 225* or 230) psychology program areas. *PSYC 225 can meet either the biological or cognitive requirement, but not both.
- One sub-400 level course from two of the following psychology program areas: clinical (PSYC 240 or 245), developmental (PSYC 250), or social (PSYC 260)
- Two additional psychology courses numbered 400 or above
- Two additional psychology courses (may include three hours of PSYC 395 and/or up to six hours of PSYC 693H-694H)

Out of Department Courses:  
- BIOL 101 and 101L
- MATH 231
- One of MATH 232; COMP 110, 116
• At least four additional physical and life sciences courses (one of which must be physical science and at least one of which must have a lab)
• One additional non-historical Social/Behavioral Science Approaches course, which must be from a department other than psychology

Minoring in Cognitive Science

The cognitive science minor consists of five disciplinary areas: behavioral, biological, computational, linguistic, and philosophical. Each course, except the overview, falls into one or more disciplinary areas. Please refer to the appropriate departments for course descriptions.

Students must earn a grade of C or better in at least four of the five courses. Courses used to satisfy psychology major requirements cannot also satisfy requirements in the cognitive science minor. The minor is open to all, including psychology majors, who are still limited to no more than 45 credit hours in the department. Students interested in pursuing the minor should contact the program director for further information.

PSYC 431: Introduction to Cognitive Science (prerequisite PSYC 210)

Four other courses distributed over at least two disciplinary areas.
• Behavioral: BIOL 278, BIOL 453, BIOL 455, INLS 512, PSYC 230, PSYC 225, PSYC 222, PSYC 435, PSYC 400, PSYC 425, PSYC 430, PSYC 432, PSYC 461, PSYC 433, PSYC 508
• Biological: BIOL 278, BIOL 453, BIOL 469, BIOL 455, PSYC 225, PSYC 400, PSYC 508
• Computational: COMP 485, COMP 455, INLS 510, INLS 582, INLS 512, INLS 509, MATH 383, MATH 547, MATH 566, STOR 105, STOR 582, STOR 305, PSYC 433
• Linguistic: INLS 512, INLS 512, LING 400, LING 200, LING 202, LING 383, LING 520, LING 523, LING 547, PHIL 145, PHIL 445, PSYC 432, SLAV 409
• Philosophical: INLS 512, PHIL 145, PHIL 335, PHIL 345, PHIL 340, PHIL 453, PHIL 445, PHIL 440 Other Degree Information

A student may submit a maximum of 45 hours of credit in psychology courses (including PSYC 101) toward the completion of the B.A. degree.

All majors must complete PSYC 101 and at least six psychology courses above PSYC 101 with a grade of C (not C-) or higher. Students planning to enter graduate programs in psychology are urged to include a research-intensive course such as PSYC 395, 470, 530, or 693H-694H in their program and as many courses numbered 400 and above as possible.

Details of the student's program may be worked out in consultation with college and departmental advisors.

Honors in Psychology

Any major in the program with an overall grade point average of 3.2 or higher is eligible for enrollment in the departmental Honors Program.

Applications may be submitted to the Psychology Honors Committee, ordinarily in the second semester of the junior year. Each candidate for honors participates in a two-semester course sequence (PSYC 693H and 694H) that provides an opportunity to carry out independent work in an area of the student's choice under the guidance of a departmental faculty member.

Special Opportunities in Psychology

Departmental Involvement

Membership in the Psychology Club is open to any interested psychology major. There is no minimum GPA requirement. The club meets frequently to discuss topics, view movies, and hear presentations.

Experiential Education

Several opportunities for experiential education are available. These include PSYC 395 (Independent Research), PSYC 294 (APPLES Service Learning performed either through the APPLES program or in conjunction with a specific psychology class), and other classes for which service learning is a central focus. See course listings for details.

Undergraduate Awards

The David Bray Peele Award (administered in the Department of Psychology) and the Undergraduate Research Support Award (administered through the UNC Office of Undergraduate Research) are available to students who conduct research in psychology. Each year, the Dashiel-Thurnstone Prize is awarded for the best undergraduate research project. An additional honor is election to Psi Chi, the national honor society for psychology undergraduates. Psychology majors who have completed at least three courses in psychology and who have a GPA of at least 3.2 at UNC-Chapel Hill will be invited to join Psi Chi.

Undergraduate Research

Qualified students interested in doing independent research under the direction of a faculty member may enroll for independent research credit (PSYC 395). Students interested in this option should speak directly with psychology faculty members regarding opportunities in their laboratories. Research opportunities are posted at the Office of Undergraduate Research Web site and in the lobby of the Psychology Department. Contact should be initiated by the student.

Graduate School and Career Opportunities

Both the B.A. and B.S. degree programs prepare students for entry into graduate programs in psychology and a large number of related areas. Both programs, augmented by courses dictated by various graduate and professional schools, also provide training that has proved beneficial for those applying to business, law, and medical schools.

Undergraduate psychology majors seek and find employment in a wide range of occupations and many continue their education and training in graduate school. It is important for students to understand that many of the occupations traditionally associated with psychology (e.g., clinical psychologist) are licensed specialties that require graduate training.

Contact Information

Director, Undergraduate Studies, Davie Hall, 962-4155, CB# 3270.

PSYC

050 [006D] First-Year Seminar: Stress Management (3). This course will address basic stress management skills; how to develop emotion-focused coping skills and how to use exercise, time management, and assertive communication skills to reduce stress.

051 [006E] First-Year Seminar: The Mind and the Computer (3). This course will examine the nature of human thought in rela-
tion to the operations of contemporary computers and will also consider how computers will likely develop in the future.

052 [006E] First-Year Seminar: Evolutionary Psychology (3). Students will gain an in-depth understanding of evolutionary psychology, a current amalgam of evolutionary biology, psychology, and anthropology that aims to view complex social and personality features of human behavior.

053 First-Year Seminar: Talking about Numbers: Communicating Research Results to Others (3). This course introduces the many ways that research results are disseminated to the public in our everyday lives through advertising and mass media, Internet, and research-based policy statements.

054 [006E] First-Year Seminar: Families and Children (3). This course will consider family from a life-course perspective and family influences on child development. Research and theory concerning divorced and step families, single parents, gay and lesbian parents, and family processes that shape children's development will be examined.

055 [006E] First-Year Seminar: Children's Eyewitness Testimony (3). The course will address relevant literature on children's memory and cognition involving allegations of child sexual abuse.

056 [006E] First-Year Seminar: Human Infancy (3). The goals of this course are to describe what we know about the psychological development of human infants, to evaluate the procedures that have given rise to that knowledge, and to explore the implications of the knowledge.

057 [006E] First-Year Seminar: Conflict, Deviance, and Disasters (3). The course will focus on how we attempt to understand and deal with events in our lives that appear incomprehensible to us, often those we not only have difficulty understanding but over which we have no control.

058 [006E]: First-Year Seminar: Mind Reading and Language Use (3). This course examines mind reading abilities and how they affect the development of language, adult language use, and the language of autistic individuals, who are known to have difficulty reasoning about others' minds. This seminar will follow a discussion format.

059 First-Year Seminar: Integrating Eastern and Western Psychology: A Study of Human Development (3). The course makes use of text, with ample room for class discussion and argumentation, and will address sequentially the seven chakras including their psychological correlates found in Western research.

061 First-Year Seminar: Drug Addiction: Fact and Fiction (3). The course will tackle questions through classroom discussions, lectures, movies, writing assignments, and a visit to a research lab and a treatment facility. Cocaine and heroin addiction will be used as primary model systems to introduce fundamental concepts in addiction research.

062: First-Year Seminar: Positive Psychology: The Science of Optimal Human Functioning (3). This course invites students to explore the opportunities presented by the vibrant and emerging field of positive psychology.

063 First Year Seminar: Persuasion, Passion, and Participation: The Psychology of Politics (3). How do political campaigns work? What kind of influence do the media have on political decisions? What do poll results really mean? We'll be exploring these questions and more in this seminar.

064 First-Year Seminar: Prejudice and Stereotyping (3). This course explores the psychological underpinnings of prejudice and discrimination.

065 First-Year Seminar: Judgment and Decision Making in Everyday Life (3). This course focuses on understanding people's judgment and decision making processes in everyday life. Students will draw upon other areas of psychology and other interdisciplinary approaches (e.g., economics, decision sciences).

101 [010] General Psychology (3). A survey of major principles of psychology and an introduction to scientific modes of thought about behavior. Students participate in ongoing psychological research in the department. Note: PSYC 101 is prerequisite to all psychology courses listed below.

210 [030] Statistical Principles of Psychological Research (3). Prerequisite, PSYC 101. Consideration of the methodological principles underlying psychological research, descriptive and inferential techniques, and the manner by which they may be employed to design psychological experiments and analyze behavioral data. Three lecture hours and one laboratory hour a week.

215 [030C] Statistical Principles of Psychological Research (B.S. Majors) (3). Prerequisites, PSYC 101, MATH 231. Consideration of the methodological principles underlying psychological research, descriptive, and inferential techniques. This section is for students in the B.S. psychology program or for B.A. students with a calculus background and strong interest in quantitative psychology. Note: PSYC 215 will substitute for PSYC 210 as a prerequisite for other psychology courses.

220 [023] Biopsychology (3). Prerequisite, PSYC 101. Study of the biological basis of behavior. Emphasis will be placed on human findings and applications.

222 [022] Learning (3). Prerequisite, PSYC 101. Topics in conditioning, verbal learning, memory, and problem solving.

225 [021] Sensation and Perception (3). Prerequisite, PSYC 101. Topics in vision, audition, and the lower senses. Receptor mechanisms, psychophysical methods, and selected perceptual phenomena will be discussed.

230 [020] Cognitive Psychology (3). Prerequisite, PSYC 101. Topics in attention, memory, visual, auditory, and other forms of information processing; decision making, and thinking.

240 [028] Personality (3). Prerequisite, PSYC 101. Basic principles of personality structure, dynamics, development, assessment, and theory are discussed. Consideration is given to both environmental and biological determinants of personality.


250 [024] Child Development (3). Prerequisite, PSYC 101. Study of the development of social and intellectual behavior in normal children and the processes that underlie this development. Emphasis is typically on theory and research.
260 Social Psychology (3). Introductory survey of experimental social psychology covering attitudes, interpersonal processes, and small groups.

270 [50] Laboratory Research in Psychology (4). Prerequisite, PSYC 210. Experiments in biological, behavioral, cognitive, developmental, personality, and social psychology will be discussed, prepared, performed, and reported. One lecture hour and four laboratory hours per week.

294 [092] Service Learning in Psychology: APPLES (1-3). Prerequisite, permission of instructor. Service learning component for students enrolled in psychology APPLES courses. May not count toward the major.

320 [070] Drugs and Human Behavior (3). Prerequisite, PSYC 101. This course will examine the use of drugs to alter behavior. Social implications of drug use and methods for preventing and treating drug abuse also will be considered.

395 [098] Independent Research (1-3). Prerequisites, PSYC 101, two additional courses, a minimum of a 2.5 grade point average, and permission of instructor. Supervised research resulting in a written report. May be repeated for credit up to six hours.

400 [101] Conditioning and Learning (NBIO 400) (3). Prerequisites, PSYC 101 and 222. A comprehensive survey of the methods, findings, and theories of classical and operant conditioning. Skills necessary to evaluate, integrate, and summarize significant original literature will be developed.

401 [102] Biological Foundations of Behavior (NBIO 401) (3). Prerequisites, PSYC 101 and PSYC 222 or BIOL 101. Ethological, genetic, and physiological variables will be studied in relation to their behavioral effects.

402 [106] Physiological Psychology (NBIO 402) (3). Prerequisites, PSYC 101 and 220. Elements of neurophysiology, neuroanatomy, and neurochemistry as they apply to the understanding of brain-behavior relationships.

403 [107] Physiological Psychology Laboratory (3). Prerequisite PSYC 101 and 220 or 402. "Hands on" laboratory course designed to introduce students to experimental protocols emphasizing "brain-behavior" relationships. Topics include: gross neuroanatomy, stereotaxic surgery, and the effects of drugs on behavior.

404 [124] Psychological Applications of Drugs (3). Prerequisite, PSYC 101. This course will investigate the pharmacological effects and the clinical efficacy of drugs used to treat behavioral disorders.

425 [121] Advanced Perceptual Processes (3). Prerequisites, PSYC 101 and PSYC 220, 225, or 230. The perception of objects and events; the role of cognitive factors in perception.

430 [122] Human Memory (3). Prerequisites, PSYC 101 and 222 or 230. Theoretical and applied issues in human memory.

431 [123] Introduction to Cognitive Science (3). Prerequisites, PSYC 101 and 210 or equivalent. An introduction to the interdisciplinary study of the mind, intelligent behavior, information processing, and communication in living organisms and computers.

432 [125] Psychology of Language (3). Prerequisite, PSYC 101 and 230 or LING 101 and 400. After an examination of the possible relations between psychology and linguistics, this course will consider problems in the acquisition of language and particular recent work in experimental psycholinguistics.

433 [135] Behavioral Decision Theory (3). Prerequisite, PSYC 101. Simple mathematical and psychological models of judgment and choice, and related experiments, are treated, as are applications to real world problems in medical, environmental, policy, business, and related domains.

434 Cognitive Neuroscience (3). Prerequisites, PSYC 101, PSYC 210; PSYC 230, PSYC 225, PSYC 222, or PSYC 220 or BIOL 450 or BIOL 455. Introduction to cognitive neuroscience. Higher mental processes including attention, memory, language, and consciousness will be covered, with an emphasis on the neural mechanisms that form the substrates of human cognition.

435 [100] Topics in Cognition (3). Prerequisite, PSYC 101 and one of PSYC 220, 222, 225, or 230. Examines selected topics in cognitive psychology, examining issues related to thinking, memory, consciousness, language or higher-level perception. The selected topics can vary from semester to semester.

460 [126] Human Infancy (3). Prerequisites, PSYC 101, 250. The primary focus of this course is the psychological development of human infants but other perspectives are considered: philosophy, parenting, health and public policy, the law.


463 [129] Development of Social Behavior and Personality (3). Prerequisites, PSYC 101, 210, 240, and 250. Developmental processes during early childhood as these relate to social behavior and personality.

464 [131] Perspectives on Nonparental Child Care (3). Prerequisites, PSYC 101, 250. Explores the history, politics, and practice of nonparental child care through readings, lectures, and a semester-long internship in a child care center.

465 [165] Poverty and Development (3). Prerequisite, PSYC 101. Poverty is one of the most consistent and influential risk factors for problematic development. This course focuses on the scientific study of how poverty affects development across the human life span.

466 [170] Research in Developmental Psychology (3). Prerequisites, PSYC 101, 210, and 250. Introduction to the issues, methods, and outcomes of research in developmental psychology. Demonstrational projects designed and completed. One lecture hour and four laboratory hours per week.

467 [171] The Development of Black Children (3). Prerequisites, PSYC 101, 250. A survey of the literature on the development of black children. Topics include peer and social relations, self-esteem, identity development, cognitive development, school achievement, parenting, family management, and neighborhood influences. PSYC 210 recommended.

468 [172] Family as a Context for Development (3). Prerequisites, PSYC 101, 210, and 250. Explores how the family influences children's development. Topics include genetics, family structure (e.g., single parents, working mothers, divorce, number of siblings); discipline; parental values and beliefs; ethnic diversity.

469 [162] Evolution and Development of Biobehavioral Systems (3). Prerequisites, PSYC 101, PSYC 210 or 215, and BIOL
101. Examines the evolution and development of behavior patterns and their physiological substrates.

470 Developmental Research on the Family (3). Prerequisites, PSYC 210, PSYC 250. Child and adolescent development within the context of family is examined. Course topics include family theory, cognitive development, divorce, poverty, and gender. Each student will complete a research project.

499 [104] Current Topics in Psychology (3). Prerequisite, permission of the instructor. Various special areas of psychological study, offered as needed. Course may be repeated for credit.

500 [144] Psychological Disorders of Childhood and Adolescence (3). Prerequisites, PSYC 101, 245, and 250. A survey of theories bearing on atypical development and disorder behavior, and an examination of major child and adolescent behavior problems and clinical syndromes.


502 [141] Psychology of Adulthood and Aging (3). Prerequisites, PSYC 101, 250. A developmental approach to the study of adulthood, from young adulthood through death. Topics include adult issues in personality, family dynamics, work, leisure and retirement, biological and intellectual aspects of aging, dying, and bereavement.

503 [142] Psychology of Black Americans (3). Prerequisites, PSYC 101, 240. This course will focus upon the personal characteristics of black Americans as these have been studied by psychologists and other behavioral scientists. Various methodological approaches will be considered.


505 [147] Introduction to Clinical Psychology (3). Prerequisites, PSYC 101, 210, and 245. Overview of clinical psychology - history, scientific basis, and major activities and concerns including assessment, psychotherapy, and other psychological interventions, community psychology, ethics, and professional practice.

506 [152] Atypical Personalities and Groups I (3). Prerequisites, PSYC 101, 245. Addresses methods to assess, treat, and rehabilitate adults or elderly with serious mental disorders. Includes volunteering in a mental health agency serving people with schizophrenia, psychosis, or dementia.


508 [146] Behavior and the Brain: Introduction to Neuropsychology (3). Prerequisites, PSYC 101 and 220 or 230. Introduction to brain-behavioral relationships through the study of the effects of brain damage. Focus on cognitive and emotional processes in humans as they are affected by disease and trauma to the brain.


512 [155] Popularity, Friendships, and Peer Relations (3). Prerequisite, PSYC 101. This course will review literature regarding peer relations among children and adolescents, including peer acceptance/rejection, popularity, bases of friendship selection, peer crowds, romantic relationships, and theories of peer influence.

513 Advanced Seminar on the Anxiety Disorders (3). Prerequisite, PSYC 245. This course will explore the nature and treatment of normal and abnormal anxiety. Students will learn about the psychopathology, assessment, and treatment of the various anxiety disorders.


560 [184] Self and Society (3). Prerequisites, PSYC 101, 210, 260. Content, structure, and functions of the self-concept. How the self-concept is shaped by society and developmental processes; ways in which the self-concept affects perception of others; self-esteem. Class participation and presentations required. PSYC 270 desirable, but not required.

561 [185] Social Cognition (3). Prerequisites, PSYC 101, 210, and 260. Theory and research in social psychology, which explores the cognitive processes underlying social phenomena. Specific topics covered include: attributions, emotions, automaticity, heuristics, self, goals, stereotyping, expectations, social motives, and others.


563 [188] Small Groups (3). Prerequisites, PSYC 101, 210, 260. Intensive survey of research and theory on behavior in small groups combined with appropriate experience in studying various structured groups.

564 [189] Interpersonal Processes (3). Prerequisites, PSYC 101, 210, 260. Intensive coverage of normal interpersonal processes, focusing on the dyad.
565 [190] Stereotyping, Prejudice, and Discrimination (3). Prerequisites, PSYC 101, 210, 260. Examines the determinants, functions, processes, and consequences of stereotyping, prejudice, and discrimination. Prospects for change are considered. Class presentations and participation required. PSYC 270 desirable, but not required.

566 [191] Attitude Change (3). Prerequisites, PSYC 101, 210, 260. A detailed consideration of the theoretical issues in attitude and belief change.

600 [112] Historical Trends in Psychology (3). Prerequisite, PSYC 101. Limited to senior majors or to graduate students in psychology; others by permission of instructor. Overview of the origins of psychological concepts, movements, and fields of study.

601 [180] Psychology and Law (3). Prerequisite, PSYC 101 and 270. Examines the legal system from the perspective of psychology methods and research, with a focus on criminal law. Discusses dilemmas within the law and between the legal system and psychology.

602 [163] Evolutionary Psychology (3). Prerequisite, PSYC 101. Major topics of general psychology are examined from an evolutionary perspective with an emphasis on empirical studies asking why much current human behavior and experience would have been adaptive for our early ancestors.

693H [109A] Honors in Psychology I (3). Prerequisites, application to the psychology honors committee and enrollment in the Honors Program. To be taken as the first course in the two-semester honors sequence. Students conduct research under the direction of a faculty advisor and receive classroom instruction in research-related topics.

694H [109B] Honors in Psychology II (3). Prerequisites, PSYC 693H and admission to the psychology Honors Program. To be taken as the second course in the two-semester honors sequence. Students conduct research under the direction of a faculty advisor and receive classroom instruction in research-related topics.

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Department of Public Policy
www.unc.edu/depts/pubpol

RICHARD N. L. ANDREWS, Chair

Professors

Professor of the Practice
W. Hodding Carter III, Professor of Leadership and Public Policy.

Associate Professor
Sudhanshu Handa.

Assistant Professors
Douglas L. Lauen, Daniel P. Gitterman, Krista M. Perreira.

Adjunct Faculty

Professor Emeritus
Duncan MacRae Jr., Michael A. Stegman.

Introduction
The Department of Public Policy offers instruction leading to a bachelor of arts degree. The major is an interdisciplinary program designed to provide students with the theoretical perspective, analytical skills, and substantive knowledge needed to respond to contemporary policy problems. The undergraduate major is designed to fulfill three major objectives: 1) provide students with a command of the fundamental tools of policy analysis; 2) offer students an understanding of the politics of public policy and the varied institutional contexts within which public policy is made; and 3) allow students to develop substantive knowledge in a core policy field.

The combination of a general liberal arts training, the development of conceptual and analytical abilities, and the acquisition of substantive knowledge in a particular policy area forms an excellent foundation for graduate work in the professions (law, business, social work, public health, planning) or public policy as well as for a career in public affairs or service.

Program of Study
The degree offered is bachelor of arts in public policy. The department also offers a minor in public policy.

Majoring in Public Policy: Bachelor of Arts
Students should complete all General Education requirements, including STOR 155 (QR) and ECON 101 (SS), or their equivalent, which are prerequisites for the public policy major. STOR 155 is a specific prerequisite for taking PLCY 460; ECON 101 is a specific prerequisite for taking ECON 310/410. MATH 152 or 231 is a prerequisite for ECON 410 and is a recommendation rather than a prerequisite for the major.

Core Requirements
One course in each of the following six core areas is required (18 total hours). The core curriculum includes courses in policy analysis, economic and political analysis, statistics, and ethics.
A. Introduction to Public Policy: PLCY 201 or 201H
B. Ethics and Public Policy: PLCY 240; PHIL 163, 164, 165, 272; PHIL/PLCY 364; PHIL/ENST 368
C. Economic Analysis: ECON 310 or ECON 410
D. The Politics of Public Policy: PLCY 220
E. Quantitative Analysis for Public Policy: PLCY 460
F. Advanced Individual Projects: PLCY 698 or PLCY 691-692H (Honors)

Policy Field Courses
Each student must take nine hours in a specific substantive area of public policy, chosen in consultation with a faculty advisor. Recommended policy fields are listed below. A listing of courses that satisfy each of the policy field areas is available in the department office and on the department's home page (www.unc.edu/depts/pubpol).

- Business and public policy
- Economic and community development
- Environmental/natural resource policy
- Health policy
- International public policy
- Policy making process/law and public policy
- Science and technology policy
- Social and education policy

In addition, students may create their own policy field with the approval of a faculty advisor.
Note: Only 24 hours total can be taken outside the College of Arts and Sciences toward the bachelor of arts degree.

**Minoring in Public Policy**

The undergraduate minor in public policy consists of five courses:
- PLCY 201 or 201H Introduction to Public Policy
- PLCY 220 The Politics of Public Policy
- ECON 310 Microeconomics: Theory and Applications, or ECON 410 Intermediate Theory: Price and Distribution (prerequisite: ECON 101, MATH 152 or 231)
- PLCY 460 Quantitative Analysis for Public Policy (prerequisite STOR 155)
- One policy field course, in consultation with a faculty advisor, from the department’s approved list of courses (see above)

The regulations governing a minor in an interdisciplinary department, as set forth in the Undergraduate Bulletin, apply to the minor in public policy.

**Honors in Public Policy**

Students who have achieved at least a 3.2 grade point average by the end of their fifth semester should consult with the director of undergraduate studies early in their junior year. Upon successful completion of the thesis (a substantial independent writing project in policy research is required), and after satisfactory performance in an oral examination, the student may graduate with honors or highest honors in public policy. The first Honors Seminar, PLCY 691H (fall), can count as a field course; the second course (PLCY 692H) is taken in place of the capstone course (PLCY 698), providing a total of six credit hours toward the major.

**Special Opportunities in Public Policy**

**Departmental Involvement**

Currently, more than 170 juniors and seniors major in public policy. Students created a Majors Union in 1988 to help govern the curriculum and sponsor extracurricular events and programs.

**Experiential Education**

Students are encouraged to gain experience through internship placements and other experiential education opportunities. PLCY 295, PLCY 320, PLCY 325, PLCY 691, PLCY 692 and PLCY 698 are all approved as experiential education courses. Undergraduate majors and minors in public policy have participated in rewarding internships and other educational experiences in government agencies, non-profit organizations, and businesses in Raleigh, Washington, DC, New York, Raleigh, and many other locations.

**Internships**

Public policy majors have the option to complete an internship. An internship is a supervised job that provides experience outside the classroom that is related to public policy, with or without pay. These opportunities exist in local, state, regional, and federal government agencies, in the not-for-profit sector, and in some private sector organizations. Students may receive academic credit for an approved internship (PLCY 320 or PLCY 325). PLCY 320 is a pass/fail course and is used for the standard internship. PLCY 325 is graded, not pass/fail, and can be used for any specific internship that a student does that is to be graded.

**Visiting Speakers**

The department sponsors the Thomas Willis Lambeth Distinguished Lecture on Public Policy and other visiting speakers during the academic year. These events typically are centered on public policy themes and often are co-sponsored with other units on campus.

**Study Abroad**

Students are encouraged to study abroad. Advisors work individually with students to bring relevant credits into the department, depending on the program of study.

**Undergraduate Research**

The honors thesis process enables students to undertake a major piece of independent research. In addition, students who identify a topic of interest can work with a faculty member on a research project through independent study.

**Graduate School and Career Opportunities**

A major or minor in public policy can serve as a foundation for graduate and professional programs in public policy, law, business, city and regional planning, public administration, public health, education, international affairs, or environmental management, as well as economics, political science, and other fields. An excellent guide to education and graduate study opportunities in public policy may be found on the home page of the Association for Public Policy Analysis and Management at www.appam.org/education/students.asp.

Required courses in analytic techniques and economics, ethical and political analysis, a concentration on a substantive area of policy concern, and an emphasis on communication skills prepare students for a wide range of jobs in both the public and private sectors. Some graduates work as staff analysts in local, state, and federal agencies; others examine major policy issues in research institutions and public interest organizations; and still others enter the business world.

**Contact Information**

The following individuals may be contacted at CB# 3435, 214 Abernethy Hall, (919) 962-1600. Beginning in fall 2007 the department will be located in the Albert and Gladys Coates Building, 223 East Franklin Street.

Professor Richard Andrews, Chair
Professor Daniel Gittelman, Director of Undergraduate Studies
Michael (Mitch) Meiners, Administrative Manager
Lennis Carrier, Student Services Assistant
Web site: www.unc.edu/depts/pubpol

PLCY

050 [006E] First-Year Seminar: Environment and Labor in the Global Economy (3). Rapid recent globalization raises important public policy issues concerning impacts on the environment, labor, and communities. The seminar provides an opportunity to explore the implications of living in an increasingly global economy and the ethical and policy issues that these trends pose.

055 [006E] First-Year Seminar: The Crisis of the University: Academic Values and Policy Choice (3). Introduces students to core values of a research university through analysis of university history, case discussions of university policy issues, computer simulation of university decision making, and an original case study.

065 [006E] First-Year Seminar: The Politics of Numbers: How Do We Know How Many People Are Poor? (3). Explores what lies behind official government measures: racial diversity; global warming; how we know how many people are poor; welfare reform; Social Security reform; costs and benefits of immigration.

070 First-Year Seminar: National Policy: Who Sets the Agenda? (3). Who and what actually set our nation’s policy agenda? The President? Congress? The media? Special interests? This seminar will address these questions, looking closely at current events and case histories drawn from the past three decades.

075 [006E] First-Year Seminar: Two Nations: The Growing Divide in American Society (3). Examines the public policies leading to the growing disparities in American society during the past 25 years. Addresses the political and non-political factors that have led to these inequalities.

101 [048] Making American Public Policy (PWAD 101) (3). Overview of the study and making of American public policy. Study of the political and policy challenges in substantive areas such as health and social policy, environment, national security, education, regulation, and law and public policy.

190 [198] Selected Topics in Public Policy (3). Selected topics in public policy.

195 Research in Public Policy (1-6). Prerequisite, special permission. Undergraduate research in public policy.

196 [098] Independent Study/Reading in Public Policy (1-6). Supervised study for students interested in public policy.

201 [071] Introduction to Public Policy (PWAD 201) (3). Introduction to the elements of policy analysis by citizens, including definition of problems, criteria, alternatives, models, decision procedures, and political feasibility. Illustrated by case studies.


240 Ethics and Public Policy (3). This seminar explores arguments about moral issues in public policy. Students examine both the means used to implement policies and policy ends through discussions of case studies of policy choice.

249 [049] New Immigration and the South: Immigration Policy in the 21st Century (INTS 249) (3). The objective of this course is to enhance students’ understanding of the causes and consequences of U.S. immigration within a social, historical, political, and economic context.

260 [073] State and Local Politics (PLAN 260) (3). A range of public policy topics at the state and local level.


290 Special Topics in Public Policy (3). Special topics in public policy for undergraduates.

295 [190] Seminar in Domestic Policy (POLI 295) (3). Taught as part of the UNC- Chapel Hill Washington Policy Seminar, the course introduces students to domestic policy making from the federal perspective using readings and lectures from the Washington policy making community.

296 Independent Study/Reading in Public Policy (1-6). Prerequisite, special arrangement and permission of instructor. Independent reading/study in public policy.

299 Selected Topics in Public Policy (3). Selected topics in public policy.

320 Internship in Public Policy (1-6). Prerequisite, permission of the designated advisor. Supervised internships, with written reports required. This course is offered for graded credit.

326 Social Ventures (ECON 326, PLAN 326) (3). Continues training in marketing, finance, strategy, operations, public/community relations. Focuses on entrepreneurial enterprises, programs, or sustainable projects intended to create social value and promote positive social change.


364 [068] Ethics and Economics (PHIL 364) (3). Prerequisite, one course in ethics (PHIL 160, 163, or 170) or one course in economics. This course will examine issues at the intersection of ethics and economics, to stimulate thinking about ethical perceptions that are central to public policy and to economic analysis.

390 Special Topics in Public Policy (Undergraduate) (3). Special topics in public policy for undergraduate students.

395 Research in Public Policy (1-6). Prerequisite, special permission. Research in public policy for undergraduates.

396 Independent Study/Reading in Public Policy (1-6). Prerequisite, special arrangement and permission of instructor. Independent reading in public policy.

399 Selected Topics in Public Policy (3). Selected topics in public policy.

450 [078] Computer Applications in Analysis of Public Policy (3). This course provides hands-on experience in the use of computers and introduces students to the use of popular PC-based software programs as tools in the practice of policy analysis and planning. Students will be exposed to spreadsheet and database applications, word processing, SAS, the Internet, and the Web.

455 9/11 and Its Aftermath (3). Examines the nature of Islamic fundamentalist terrorism and strategies for addressing it, including analysis of post-9/11 changes to U.S. national security strategy, law enforcement and intelligence, and homeland security.

460 [175] Quantitative Analysis for Public Policy (3). Prerequisite, STOR 155 or equivalent. Application of statistical techniques, including regression analysis, in public policy program evaluation; research design; and data collection and management.

480 [120] Environmental Decision Making (ENST 480) (3). Introduces factors shaping environmental decision making by individuals, businesses, governments, advocacy groups, and international institutions. Explores public policy incentives and action strategies for influencing them.
490 Special Topics in Public Policy (3). Special topics in public policy for undergraduate and graduate students.

496 Independent Study/Reading in Public Policy (1-6). Prerequisite, special arrangement and permission of instructor. Independent reading in public policy.

499 Selected Topics in Public Policy (3). Selected topics in public policy.

510 [183] Policy Analysis of Global Climate Change (ENST 510) (3). Provides a real world and relevant case study in which to apply material from multiple disciplines including public policy, economics, environmental science, and international studies. Teaches techniques for building policy models not covered elsewhere.

520 Environment and Development (ENST 520, INTS 520) (3). Reviews environmental problems in developing countries. Analyzes proposed solutions, such as legal remedies, market instruments, corporate voluntary approaches, international agreements, and development policies. Discusses the link between trade and environment, environmental cases from the World Trade Organization, and sustainable development.

526 Principles of Public Finance for Public Policy and Planning (PLAN 526) (1.5). Provides the foundation of state and local government finance necessary to understand new developments in the provision of infrastructure for economic development.

527 Applied Public Finance for Infrastructure and Economic Development (PLAN 527) (1.5). Explores the role of infrastructure in economic development, including innovations in finance, management, and technology. Covers traditional and knowledge infrastructure. Addresses trade-off between environmental protection and economic growth.

585 [185] American Environmental Policy (ENST 585, ENVR 585, PLAN 585) (3). Intensive introduction to environmental management and policy, including environmental and health risks, policy institutions, processes, and instruments, policy analysis, and major elements of American environmental policy. Lectures and case studies.

590 Special Topics in Public Policy (3). Special topics in public policy for undergraduate and graduate students.

596 Independent Study/Reading in Public Policy (1-6). Prerequisite, special arrangement and permission of instructor. Independent reading in public policy.

599 Selected Topics in Public Policy (3). Selected topics in public policy.

686 [186] Policy Instruments for Environmental Management (ENST 686, ENVR 686, PLAN 686) (3). Prerequisite, ECON 410, PLAN 710, or equivalent. Design of public policy instruments as incentives for sustainable management of environmental resources and ecosystems, and comparison of the effects and effectiveness of alternative policies.

690 Special Topics in Public Policy (3). Special topics in public policy for graduate or undergraduate students.

691H Honors in Public Policy (3). Directed research, on an independent basis, for majors who are preparing an honors thesis and for the oral examination on the thesis.

692H Honors in Public Policy (3). Directed research, on an independent basis, for majors who are preparing an honors thesis and for the oral examination on the thesis.

696 Independent Study/Reading in Public Policy (1-6). Prerequisite, special arrangement and permission of instructor. Independent reading in public policy.

698 [094] Practicum in Public Policy (3). Prerequisite, PLCY 460. For senior public policy majors and other seniors having a strong background and/or interest in analysis of public policy. The course involves an in-depth analysis of a public policy problem by each member of the class.

699 Selected Topics in Public Policy (3). Selected topics in public policy.

Department of Religious Studies
www.unc.edu/depts/rel_stud

THOMAS A. TWEED, Chair

Professors

Associate Professors
Laurie F. Maffly-Kipp, Zlatko Plese, Omid Safi.

Assistant Professors
Barbara Ambros, Lauren Leve, Randall Styers.

Adjunct Professors

Adjunct Associate Professors
Charles Kurzman, Margaret J. Wiener.

Adjunct Assistant Professor
Barry Saunders.

Professors Emeriti

Introduction
The Department of Religious Studies is dedicated to the study of the world's religions as historical and cultural phenomena. It examines singly or comparatively various religious traditions, including their history, sacred texts, beliefs, rituals, and institutions. Inherently interdisciplinary in its approach, religious studies explores these traditions and other related phenomena in light of other cognate disciplines such as anthropology, history, philosophy, and sociology. The department offers a wide variety of courses ranging from large introductory classes to advanced seminars, as well as independent studies and an honors thesis program for qualified students. Introductory courses provide general vocabulary and concepts useful for the entire field of religious studies or for major areas within that general field and representative examples of issues, problems, and data in the study of religion. Courses numbered below 200 are introductory courses. Intermediate courses provide intensification and refinement of knowledge in the study of religion by focusing on more specific data and by employing methods more precisely. Intermediate courses are numbered between 200 and 400. Advanced courses provide for the study of specific topics and problems in which a student should integrate primary and secondary data and
methods in research essays. Admittance to this level is governed by prerequisites and by general preparation. Advanced courses are numbered above 400.

Programs of Study

The degree offered is bachelor of arts in religious studies. Minors are offered in religious studies and Jewish studies.

Majoring in Religious Studies: Bachelor of Arts

Minimum requirements for the major in religious studies: nine courses, of which six are completed with a grade of C or better, at least three of which must be numbered above 400, including RELI 697, the capstone course on themes and methodologies in religious studies. Majors must take at least one course in each of three of the department's subfields: religion in the Americas; religion and culture; history of religions; ancient Mediterranean religions; and medieval and early modern studies.

Minoring in Religious Studies

Minimum requirements for the minor in religious studies: five courses, four of which must be completed with a C or better, and two of which must be numbered above 400. Minors must take at least one course in two of the department's subfields: religion in the Americas; Religion and Culture; Religions of Asia; Ancient Mediterranean Religions; and Medieval and Early Modern Studies.

Minoring in Jewish Studies

The minor consists of five courses, which must be taken in at least two different departments and at least one of which must be at an advanced level (noted below with *). Two core courses are required: RELI 106/JWST 106 and RELI 107/JWST 107. The remaining three courses should come from the following list. Additions to this list must be approved by a faculty member who serves on the Planning Board of the Carolina Center for Jewish Studies. Only courses in modern Hebrew at the fifth semester level or higher can count as courses toward the minor.

AMST 253/WMST 253/JWST 253
AMST 486/JWST 486
ENGL 289/JWST 289
GERM 56 (May be taken either for minor credit or for General Education credit, but not for both. First year students only.)
GERM 270/RELI 239/JWST 239
HIST 262/JWST 262/PWAD 262
PLSH 412/JWST 412*
RELI 102/JWST 102
RELI 110/CLAR 110/JWST 110
RELI 210/JWST 210
RELI 225/JWST 225
RELI 243/JWST 243
RELI 302/JWST 302*
RELI 343/JWST 343
RELI 512/CLAR 512/JWST 512*
RELI 503/JWST 503*
RELI 602/JWST 602*
SLAV 464/JWST 464*
SLAV 465/PWAD 465/JWST 465*
SLAV 469/JWST 469*

Minoring in Christianity and Culture

The UNC undergraduate minor in the study of Christianity and culture is an interdisciplinary curriculum in the humanities, arts, and social sciences that aims to refine students' understanding of the cultural, social, and political influence of Christianity.

The minor requires the completion of five courses, including at least one course from each of the following categories:
- core (RELI 160, RELI 161, or RELI 209)
- ancient, medieval, or early modern Christianity
- Christianity in the modern world

For a list of all approved courses in each of these three categories, see the Christianity and Culture Web site: www.christianityculture.unc.edu/minor_000.htm.

Honors in Religious Studies

Students majoring in religious studies (including double majors) with a grade point average of 3.3 or above in department courses and 3.2 GPA overall may choose to do an honors thesis. Candidates for graduation with honors in religious studies are to be enrolled in RELI 691H in the fall and RELI 692H in the spring semester of their senior year. Consult the department's director of undergraduate studies for details.

Special Opportunities in Religious Studies

Departmental Involvement

The Carolina Association for Religious Studies (CARS) is a club for religious studies majors.

Study Abroad

Professor Jodi Magness directs archaeological excavations in Israel during the summer. Students are welcome to participate.

Undergraduate Awards

The department presents two awards at the end of each academic year: the Bernard Boyd Fellowship and the Bernard Boyd Memorial Prize.

Graduate School and Career Opportunities

Those wishing to proceed to graduate study in religion should consult with the director of undergraduate studies about studying two or more languages in which the sacred literatures of the world have been written, as well as the modern languages of scholarship. In addition to the language courses offered by this department, UNC-Chapel Hill offers courses in Greek, modern Hebrew, Chinese, Japanese, Hindi-Urdu, Latin, Arabic, Sanskrit, Persian, Bengali, and Tamil.

Students majoring in religious studies often choose to pursue an MA or PhD in religious studies or other related fields in the humanities and social sciences. Some of the graduates of the program go on to professional schools in law, medicine, divinity, or journalism.

Contact Information

Undergraduate Studies Program Assistant, Department of Religious Studies, CB# 3225, 125 Saunders Hall, (919) 962-5666. Web site: www.unc.edu/depts/rel_stud.

RELI

060 [006E] First-Year Seminar: Religion and Racism (3). How does religion become a source of ethnic or racial prejudice among certain religious practitioners? When does prejudice against religious persons themselves constitute a form of racism or ethnocentrism? This class explores answers to these questions by examining
the connections between religion and racism in modern societies like the United States and South Africa.

061 [006F] First-Year Seminar: Religion, Magic and Science (3). This course explores the ways in which religion, magic, and science are defined in the modern world and the different forms in which supernaturalism circulates within contemporary culture.

063 First-Year Seminar: The Archaeology of Qumran and the Dead Sea Scrolls (3). In this seminar students learn about the Dead Sea Scrolls, ancient manuscripts dating to the time of Jesus from caves around the site of Qumran by the Dead Sea. They include early copies of the Hebrew Bible (Old Testament) and sectarian works belonging to the Jewish community that lived in Qumran.

064 [006J] First-Year Seminar: Reintroducing Islam (3). An introduction to the Islamic religious tradition, focusing on major themes of Islamic religious thought, bringing out both traditional spirituality and the critical issues confronting Muslims today.

065 First-Year Seminar: Myth, Philosophy, and Science in the Ancient World (3). This course examines the conflicting ways in which ancient myth, science, and philosophy explained creation of the universe, origins of mankind, nature of dreams, and foundations of culture.

066 First-Year Seminar: Buddhism in America: From the Buddha to the Beastie Boys (3). Introduces students to Buddhism and traces its history in the United States, highlighting the period since 1965. It focuses on immigrants, converts, and the cultural influence of Buddhism in America.

067 First-Year Seminar: Nature, Culture, and Self-Identity: Religion in the Construction of Social Life (3). This course explores how different religious traditions conceive of human nature and cultural personhood, and the ways that these understandings are reflected in diverse forms of personal identity and public life.


069 First-Year Seminar: Gender and Sexuality in Contemporary Judaism (3). Taking a global perspective, the course compares the manners in which Jewish communities in America, Israel, Europe, Asia, and Africa have accommodated themselves to the changing norms in gender and sexuality in the last generation.

070 [006E.2] First-Year Seminar: Jesus in Scholarship and Film (3). This seminar explores ways the historical Jesus has been portrayed in the writings of modern scholars and films of the 20th and 21st centuries.

071 [006E.3] First-Year Seminar: Ethics and the Spirit of the New Capitalism (3). What does it mean to be ethically literate in the age of information technology? Philosophical and historical inquiries into organizational practices and styles of life.

072 First-Year Seminar: Apocalypse Now? Messianic Movements in America (3). This course explores the messianic idea in America as well as the messianic movements that have been active in the nation’s history and their interaction with American society and culture.

073 First-Year Seminar: From Dragons and Foxes to Godzilla and Pokemon: Animals in Japanese Myth, Folklore and Religion (3). This course examines the cultural construction of animals in Japanese myth, folklore and religion.

*010 [010] Introduction to Religious Studies (3). An introduction to the academic study of religion that considers approaches to the interpretation of religion and includes study of several religious traditions.

103 [021] Introduction to the Hebrew Bible/Old Testament Literature (JWST 103) (3). By providing guidance in the historical, geographical, and faith contexts, as well as the literary art involved in the production and crafting of this great literature, the course helps students understand the Hebrew scriptures which have been a source of enjoyment, inspiration, and spiritual direction for centuries.

104 [022] Introduction to New Testament Literature (3). This course introduces students to the literature of the New Testament and to the faith of the early Christian communities. The study focuses on Jewish and Greco-Roman background, the proclamation of the early church, the development of the gospel traditions, the life and ministry of Jesus, the ministry and theology of Paul, developments during the post-Pauline era, and the literature of the Johannine circle.

105 [023] Religions of the Greco-Roman World (3). An introduction to the religious life of the ancient world (1000 B.C.E.-C.E. 300) in various cultural settings: Greek cities, cosmopolitan Hellenistic kingdoms in Egypt and Syria, and the Roman Empire.

106 [024] Introduction to Early Judaism (JWST 106) (3). This course surveys Jewish history and religion during the Second Temple and Rabbinic periods, from the destruction of the First Jewish Temple (Solomon’s Temple) in 586 B.C.E. to the Muslim conquest of Palestine (640 C.E.).

107 [034] Introduction to Modern Judaism (JWST 107) (3). The course offers a comprehensive understanding of the development of Judaism from the late Middle Ages to contemporary times.

109 [056] History and Culture of Ancient Israel (3). An examination extending from Hebrew origins to the Babylonian exile and including political history as well as social and religious institutions.

110 [028] The Archaeology of Palestine in the New Testament Period (CLAR 110, JWST 110) (3). This course surveys the archaeology of Palestine (modern Israel and Jordan) from the Persian period (circa 586 B.C.E.) to the Muslim conquest (640 A.D.).

117 [020] Culture of the Ancient Near East (3). A consideration of the cultural and religious milieu of the second millennium B.C. as it sheds light on biblical origins.

121 [031] Introduction to Religion and Culture (3). An introductory course that explores relations between religion and culture through the examination of social theory and the analysis of case studies. The case studies focus on such issues as visual culture, ritual, media, gender, and politics.

122 [038] Introduction to Philosophical Approaches to Religion (3). An introduction to philosophical approaches to the study of religion, exploring such topics as religious language and
experience, the problem of evil, the relation between religious belief and practice, and issues of religious diversity.

125 Heaven and Hell (3). This course will explore cultural development and significance of religious notions of an afterlife. Are they coherent? What alternative notions of life after death can we imagine?

126 [032] Philosophy of Religion (PHIL 134) (3). A philosophical inquiry into the problems of religious experience and belief, as expressed in philosophic, religious, and literary documents from traditional and contemporary sources.

127 [033] The Claims of Science and Religion (3). The proposition that God exists is treated as a scientific hypothesis. Evidence for and against the hypothesis. The status of other minds and free will in science and religion. Conflicting views about creation, revelation, miracles, and prayers.

134 [037] Introduction to Religious Ethics (3). A study of the nature, methods, and aims of ethics as seen in exemplary persons and actions with emphasis on religious and social context and contemporary problems.

135 [088] Technology, the Self, and Ethical Problems (3). Problems in the study of ethics in the new worlds of information technology.

140 [029] Religion in America (3). An introduction to the history, themes, and issues in American religion from the precollonial period to the present.


142 [046] Catholicism in America (3). An introduction to Roman Catholicism in the United States.

143 [078] Judaism in Our Time (JWST 143) (3). An examination of Judaism in its two major centers, demonstrating how different social and cultural environments shape very different interpretations and practices of the Jewish tradition.


166 [043] Ideals, Cultures, and Rituals of the University (3). Prerequisite, permission of the instructor. A religious studies approach to the rituals, cultures, and disciplines of the university, assessing the ways in which explanatory ideals are embedded, changed, and promoted.

180 Introduction to Islamic Civilization (ASIA 180) (3). A broad, comprehensive, and interdisciplinary introduction to the traditional civilization of the Muslim world.

181 Later Islamic Civilization and Modern Muslim Cultures (ASIA 181) (3). A broad interdisciplinary survey of the later Islamic empires since the 15th century and their successor societies in the modern Muslim world.

183 [039] Asian Religions (ASIA 183) (3). An introduction to major religions of south Asia and east Asia, such as Hinduism, Buddhism, Confucianism, Taoism, and Shintoism.

187 [038] Arab Histories (ASIA 187, HIST 187) (3). Introduction to the sociocultural, political, economic, and religious history of the Arab Middle East. May include discussion of the meaning of Arab history to contemporary residents of the Middle East.

192 [048] Contemporary Middle East (ASIA 192, INTS 192) (3). Interdisciplinary introduction to the religions, politics, economics, societies, and cultures of the contemporary Middle East. Topics may vary.

196 [199] Independent Study (3). Prerequisites, advanced undergraduate or graduate standing and permission of instructor. Subject matter should be arranged with specific instructor.

199 [099] Topics in the Study of Religion (3). Prerequisite, permission of instructor. Subject matter will vary with instructor but will always be focused on a particular problem or issue.

205 Legends of Genesis (JWST 205) (3). A study of the patriarchal narratives preserved in the book of Genesis as it is illuminated by recent discoveries in the cultures of the ancient Near East.

206 [057] Prophecy and Divination in Ancient Israel and Judah (JWST 206) (3). An examination of prophecy and divination in the Israelite-Jewish traditions and in their environments, including an analysis of the major biblical prophets.

207 [058] Jesus in Myth, Tradition, and History 30-200 A.D. (3). An analysis of the variety of traditions used in the first two centuries to portray Jesus, focusing on the reasons for this variety and the historical and literary problems it presents.

208 [059] The Birth of Christianity (3). An analysis of the origin of the Christian church and the earliest stages of its expansion with particular emphasis on the problems evident in the shift from a Jewish to a Gentile framework. Paul's role and contribution in defining and resolving the issues will be considered in detail and evaluated in the light of subsequent events.

209 [061] Varieties of Early Christianity (3). A study of various forms of Christianity in the second and third centuries (e.g., Gnosticism, Marcionism, Montanism), focusing on their polemical relationship to orthodox Christianity.

217 [052] Gnosticism (3). A comprehensive survey of ancient Christian Gnosticism, one of the earliest and most long-lived branches of early Christianity, with principal readings drawn from the famous "NAG HAMMADI LIBRARY."

222 [138] Modern Western Religious Thought (3). Prerequisite, one of the following: RELI 122, 126, 140, 161, or 163; or PHIL 134. Representative themes and approaches in the work of modern western religious thinkers.

232 Shrines and Pilgrimages (3). An introduction to the study of shrines and pilgrimage in multiple cultural contexts.

234 [047] Historical Sociology of Christianity (SOCI 140) (3). Prerequisite, SOCI 101. Takes an historical sociology approach to the study of Christianity, to better understand the sociological perspective on human history and social life. Begins examining the social conditions that helped give rise to the early Christian movement, follows Christianity as it influences and is influenced by social
forces at key points in its historical development, and ends with a consideration of important contemporary developments around the globe.

235 [053] Place, Space, and Religion (3). A consideration of the attitudes toward place and space as they are expressed in religious ritual and artifact.

236 [087] Religious Things (3). An introduction to religion and visual culture in the United States. The course focuses on painting, ritual objects, and architecture.

239 [085] German Culture and the Jewish Question (GERM 270, JWST 239) (3). See GERM 270 description.

240 [068] Religion, Literature, and the Arts in America (3). A study of religious ideas and cultural forms in America through an examination of a variety of genres including novels, poetry, essays, and sermons.

241 [073] Messianic Movements in American History (3). The course examines messianic movements in American history raising the question: What has been the impact of such movements on the nation? What makes America particularly conducive to such movements?


243 [044] Introduction to American Judaism (JWST 243) (3). Course provides a comprehensive introduction to American Judaism, its various movements, institutions, theological, and liturgical characteristics, as well as its standing within the larger framework of religious life in America.

244 [081] Gender and Sexuality in Western Christianity (WMST 244) (3). An examination of the development of teachings on issues of gender and sexuality through the history of western Christianity, with particular focus on contemporary controversies.


285 The Buddhist Tradition: Southeast Asia and Sri Lanka (ASIA 285) (3). This course explores the Theravada school of Buddhism and themes in the social, cultural and political lives of the Theravada Buddhist countries of Southeast Asia and Sri Lanka.

286 Pre-Modern Japanese Religions (3). Historical survey of the major premodern religious traditions in Japan-Shinto, Buddhism, Shugendo and Christianity.

287 Japanese Religions after 1868 (3). Survey of the major religious traditions in modern and contemporary Japan-Shinto, Buddhism and the New Religions.

288 Chinese Religions (3). Historical introduction to Chinese religions: Confucianism, Daoism, Buddhism and folk religion.

295 [196] Undergraduate Research in Religious Studies (3).

321 [180] Topics in Religion and Culture (3). Prerequisite, permission of instructor. Advanced undergraduate seminar in religion and culture. Topics vary.

323 [080] Social Theory and Cultural Diversity (3). Introduction to basic thinking about cultural difference (race, gender, nationality, religion, etc.) The course encourages students to examine the ways paradigms shape how we act, think, and imagine as members of diverse cultures in the United States.

325 [146] Religion, Magic, and Science (3). Critical exploration of the ways in which religion, magic, and science have been constructed as distinct domains of knowledge in the West since the late 19th century.

328 [160] Topics in Comparative Religion (3). Cross-cultural investigation of specific issues in the history of religions (e.g., pilgrimage, religious biography, new religions).

338 [188] Religion in American Law (3). An exploration of the position of religion in American legal and social theory, with particular focus on jurisprudence under the First Amendment.

340 [071] Liberal Tradition in American Religion (3). An examination of the growth of liberal theological expressions, such as rationalism, romanticism, and modernism, from the early 18th century to the present.

341 [072] Evangelical Tradition in America (3). An attempt to define the historical, sociological, and constitutional dimensions of Protestant evangelicalism in Britain and America.

342 [090] African-American Religious Experience (AFAM 342, ANTH 342, FOLK 342) (3). Prerequisite, students must have taken at least one course in AFAM, ANTH, or RELI. An introduction to the diversity of African American beliefs, experiences, and expressions from the colonial era to the present. Exploration will be both historical and thematic.

343 [079] Religion in Modern Israel (JWST 343) (3). Examines the major religious groups that operate in the state of Israel and influence its social and cultural development; analyzes the relationship among religion, state, and society in Israel.

365 [136] Studies in Christian Theologies and Theologians (3). Prerequisite, permission of instructor. An investigation of one writer or school in the history of Christian theology as an example of typical methods, positions, and problems within the tradition.

366 [169] Medieval Religious Texts (3). Prerequisites, permission of instructor and reading knowledge of Latin. Readings in one or two major texts in Latin that permit close study of several issues in the development of Christian life and thought during the Middle Ages.

367 [137] The Art of Devotion in Medieval and Early Modern Europe (3). Prerequisites, RELI 161, RELI 163, or permission of instructor. This course examines creative expression at the service of religious belief from 1000 to 1700. Poetry, drama, art, architecture, and music will be the texts to understand the religious culture of this rich period.


375 [317] The Archaeology of Cult: The Material Culture of Greek Religion (3). This course examines the archaeological context of Greek religion, cults, and associated rituals from the Bronze Age until the Hellenistic period with emphasis on urban, rural, and panhellenic sanctuaries, and methods of approaching ancient religion and analyzing cult practices.

402 [114] Biblical Hebrew (3). Prerequisite, RELI 401 or permission of instructor. Continuation of RELI 401.

403 [115] Intermediate Classical Hebrew (3). Readings in biblical, Mishnaic, and medieval poetry and prose.


410 [224] Aramaic/Rabbinic Hebrew (3). Prerequisites, RELI 403-404 or permission of the instructor. Reading texts in rabbinic Hebrew, or in Biblical and/or Talmudic Aramaic, with appropriate grammatical instruction.


412 [222] Ugaritic (3). Prerequisites, RELI 403-404. Readings in the alphabetic texts of Ras Shamra and a study of the elements of Ugaritic grammar.

413 [112] Biblical Coptic and Early Egyptian Monasticism (3). Prerequisite, permission of instructor. Coptic, the last stage of Egyptian, a living language in the Roman and Byzantine period. Thorough grounding in grammar of the Sahidic dialect as a basis for reading biblical monastic and Gnostic texts.

421 Religion and Science (3). This course explores the complex relation between religion and science in the modern world. Public disputes over teaching evolution in American schools serve as a central case study of this.

422 [107] Topics in Philosophical Problems in Religion (3). Prerequisite, senior or graduate standing, or permission of instructor. Topic varies.

423 [156] Ethnicity, Race, and Religion in America (3). Prerequisite, RELI 140 or permission. A theoretical inquiry into ethnicity, race, and religion as constituents of personal and communal identity. Emphasis on global migrations, colonial and postcolonial relations, diasporic communities, and issues of religious pluralism.

424 [182] Genders and Theories in the Study of Religion (WMST 424) (3). An examination of contemporary gender theory, with particular focus on its application to the study of religion.

425 [036] Psychology of Religion (3). A critical exploration of the concept of religious experience as defined by such authors as William James and Sigmund Freud.

428 [142] Religion and Anthropology (ANTH 428, FOLK 428) (3). Prerequisite, junior/senior or graduate standing. Religion, studied anthropologically, as a cultural, social, psychological phenomenon in the works of classical and contemporary social thought.

429 [190] Religion and Society (SOCI 429) (3). Prerequisite, SOCI 101 or permission of instructor. Sociological analysis of group beliefs and practices, traditionally religious and secular, through which fundamental life experiences are given coherence and meaning.

438 [130] Religion, Nature, and Environment (ANTH 438) (3). A seminar on concepts of nature within religions and a variety of worldwide spiritual traditions. Emphasis on sacred space, place, and pilgrimage as a vital intersection of religion and nature.

440 [140] Studies in American Religion (3). Prerequisite, permission of instructor. A consideration of varying topics from intellectual, literary, social, and cultural dimensions of American religion.

441 [148] History of Religion in America to 1665 (3). An examination of primary sources in the history of American religion from the precolonial era to the Civil War.


443 [153] Evangelicalism in Contemporary America (3). Prerequisite, junior or senior standing. Examination of evangelicalism and its role in American society, politics, and culture. Exploration of its various subdivisions and its relation to such movements as fundamentalism, pentecostalism, revivalism, and premillennialism.

444 [154] Gender and Sexuality in Contemporary Judaism (JWST 444) (3). The seminar examines the developments in gender roles and in sexuality in contemporary Judaism.


454 The Reformation (HIST 454) (3). Examines a movement of religious reform that shattered Latin Christendom and contributed many of the conditions of early Modern Europe. Emphases: religious, political, social.

463 [465] Medieval Slavic Culture (3). Survey of medieval Slavic culture, beginning with Christianization in the ninth and tenth centuries. Themes include Byzantine missions, the replacement of paganism with Christianity, the oral traditions, and Slavic literary relations. Readings in English for non-Slavic concentrators.

490 [086] Modern Muslim Literatures (3). Stresses the diversity of modern Islamic experience by examining the works of various Muslim authors. Genres may include travelogues, memoirs, novels, sermons, and treatises, among others.

481 Religion, Fundamentalism, and Nationalism (PWAD 481) (3). An exploration of explosive combinations of religion and politics in the Iranian revolution, the Palestinian movement, Hindu nationalism in India, and Christian fundamentalism in America.

487 Mountains, Pilgrimage and Sacred Places in Japan (ASIA 487) (3). This course explores the role that mountains and pilgrimage have played in Japanese cosmology and how they relate to methodology of studying place and space.

488 Shinto in Japanese History (ASIA 488) (3). This course discusses the development of Shinto in Japanese history and covers themes such as myths, syncretism, sacred sites, iconography, nativism, and religion and the state and historiography.

490 [161] Selected Topics in the Study of Asian Religions (3). Prerequisite, permission of instructor. A close examination of a selected topic in Asian religions.

502 [121] Myths and Epics of the Ancient Near East (FOLK 502) (3). Prerequisite, permission of instructor. An examination of Babylonian, Canaanite, Egyptian, Hittite, and Sumerian texts from the prebiblical era, focusing on representative myths, epics, sagas, songs, proverbs, prophecies, and hymns.
503 [122] Exploring the Dead Sea Scrolls (JWST 503) (3). A comprehensive introduction to the Dead Sea Scrolls and the different Jewish groups connected with them.

512 [111] Ancient Synagogues (CLAR 512, JWST 512) (3). Prerequisite, RELI 110 or consent of instructor. This is a course on ancient synagogues in Palestine and the Diaspora from the Second Temple period to the seventh century A.D.

522 [186] 19th-Century Critiques of Religion (3). Prerequisite, permission of instructor. An exploration of influential 19th century critiques of religion, including texts by such thinkers as Feuerbach, Marx, Kierkegaard, Nietzsche, Stanton, Douglass, and Freud.

524 Ethnographic Approaches to Contemporary Religion (3). Considers key ethical, epistemological and methodological problems in the ethnographic study of contemporary religion(s). Explores innovations in project design, research, and textual strategies through the lens of exemplary new works.

525 [311] Seminar in Religion and Literature (3). Seminar topic varies.

528 [187] Rituals and Rhetorics of Religion (3). An examination of ritual, allegory, and symbol as modes of religious expression in cultic and literary contexts.

534 [191] Religious Ethics and Issues in Contemporary Medicine (3). Prerequisite, senior or graduate standing. Examination of religious-ethical dimensions of such issues as the dying patient, organ transplants, abortion, prolongation of life, and experimentation on human beings, drawing on theory from the traditional western religions and the social sciences.

540 [152] Mormonism and the American Experience (3). Prerequisite, RELI 140 or permission. Exploration of the history, beliefs and practices of Mormons. Will include visits to Latter-Day Saints services, guest speakers, and discussion of race and gender in the contemporary church.

574 [591] Chinese World Views (3). Explores the indigenous Chinese sciences and the cosmological ideas that informed them. Topics include astronomy, divination, medicine, feng shui, and political and literary theory. Chinese sources in translation are emphasized.


581 [171] Sufism (ASIA 581) (3). Prerequisite, permission of instructor. A survey of Islamic mysticism, its sources in the Qur’an and the Prophet Muhammad, and its literary, cultural, and social deployment in Arab, Persian, Indic, and Turkish regions.

582 [172] Islam and Islamic Art in South Asia (ASIA 582) (3). A survey of the formation of Islamic traditions in the subcontinent from the eighth century to the present, with emphasis on religion and politics, the role of Sufism, types of popular religion, and questions of Islamic identity.

583 [173] Religion and Culture in Iran, 1500-Present (ASIA 583) (3). Iran from the rise of the Safavid empire to the Islamic Republic. Topics include Shi’ism, politics, intellectual and sectarian movements, encounters with colonialism, art and architecture, music, literature.

584 The Qur’an as Literature (ASIA 584) (3). A non-theological approach to the Qur’an as a literary text, emphasizing its history, form, style and interpretation.

592 [176] Religious Conflict and Narrative in India (HNUR 592) (3). See HNUR 592 description.


607 Problems in Early Christian Literature and History (3). Prerequisite, one of the following: RELI 104, 207, or 208, or permission of instructor.


617 [129] Death and Afterlife in the Ancient World (3). Examinations of practices and discourses pertaining to death and the afterlife in the ancient civilizations of Near East, Greece, and Rome.

681 [179] Readings in Islamicate Literatures (ARAB 681, ASIA 681) (3). Prerequisite, permission of instructor. Study of selected religious, literary, and historical texts in Arabic, Persian, or Urdu.

688 [288] Observation and Interpretation of Religious Action (ANTH 688, FOLK 688) (3). Prerequisite, permission of instructor. Exercises (including field work) in learning to read the primary modes of public action in religious traditions, e.g., sermons, testimonies, rituals, and prayers.

691H [097] Honors in Religious Studies (3). Prerequisite, permission of the instructor and the director of undergraduate studies. Required of all students reading for honors in religious studies.

692H [098] Honors in Religious Studies (3). Prerequisite, permission of the instructor and the director of undergraduate studies. Required of all students reading for honors in religious studies.

697 [101] Capstone: Undergraduate Seminar (3). Concentrating on a different theme each year, this departmental seminar introduces the different areas and approaches in religious studies. This course will be offered every spring.

JWST

101 Elementary Modern Hebrew (HEBR 101) (3). Introduces the essential elements of modern Hebrew structure and vocabulary and aspects of modern Israeli culture. Aural comprehension, reading, speaking, and writing are stressed in that order.

102 Elementary Modern Hebrew (HEBR 102) (3). Prerequisite, HEBR 101 or permission of instructor. Introduces the essential elements of modern Hebrew structure and vocabulary and aspects of modern Israeli culture. Aural comprehension, reading, speaking, and writing are stressed in that order.

103 [021] Introduction to the Hebrew Bible/Old Testament Literature (RELI 103) (3). See RELI 103 for description.

106 [024] Introduction to Early Judaism (RELI 106) (3). See RELI 106 for description.


143 [078] Judaism in Our Time (RELI 143) (3). See RELI 143 for description.


203 Intermediate Modern Hebrew (3). Prerequisite, HEBR 102 or permission of instructor. Designed to increase reading and writing skills. An introduction to representative literary works is included. Aural comprehension and speaking skills are also stressed.

204 Intermediate Modern Hebrew (3). Prerequisite, HEBR 203 or permission of instructor. Designed to increase reading and writing skills. An introduction to representative literary works is included. Aural comprehension and speaking skills are also stressed.

206 [057] Prophecy and Divination in Ancient Israel and Judah (RELI 206) (3). See RELI 206 for description.

239 [061] German Culture and the Jewish Question (GERM 270, RELI 239) (3). See RELI 229 for description.


253 [053] A Social History of Jewish Women in America (AMST 253, WMST 253) (3). Course examines the history and culture of Jewish women in America from their arrival in New Amsterdam in 1654 to the present and explores how gender shaped this journey.


305 Advanced Hebrew I (HEBR 305) (3). Prerequisite, HEBR 204 or permission of instructor. Third year of instruction in spoken and written Hebrew with an emphasis on the reading and discussion of literary works by major Israeli authors.

306 Advanced Hebrew II (HEBR 306) (3). Prerequisite, HEBR 305 or permission of instructor. Third year of instruction in spoken and written Hebrew with an emphasis on the reading and discussion of literary works by major Israeli authors.

343 [079] Religion in Modern Israel (RELI 343) (3). See RELI 343 for description.


444 [154] Gender and Sexuality in Contemporary Judaism (RELI 444) (3). See RELI 444 for description.


469 [169] Coming to America: The Slavic Immigrant Experience in Literature (SLAV 469) (3). See SLAV 469 for description.

486 [086] Shalom Y'All: The Jewish Experience in the American South (AMST 486) (3). See AMST 486 for description.


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**Department of Romance Languages and Literatures**

roml.unc.edu

**LARRY D. KING, Interim Chair, Professor of Spanish**

**Professors**


**Associate Professors**

Lucía Binotti, Dominique Fisher, Hassan Melehy, José Manuel Polo de Bernabé, Ennio Rao, Álicia Rivero.

**Assistant Professors**

Philippe Barr, Emilio del Valle, Oswaldo Estrada, Juan Carlos González-Espitia, Carmen Hsu, Federico Luisetti.

**Senior Lecturers**


**Lecturers**


**Professors Emeriti**


**Introduction**

The Department of Romance Languages provides opportunities for studying French, Italian, Portuguese, and Spanish. Students acquire competence in the language together with a knowledge and appreciation of the civilization, cultures, and literatures of the peoples who speak these languages today in Europe, the Americas, Africa, and Asia. The study of the Romance languages has become increasingly important because of the economic and political significance of these languages abroad and in our multicultural society in the United States. Language study also offers important support to other majors at UNC-Chapel Hill, especially history, political science, international studies, European studies, communications, and business. Students have the opportunity to live in special-interest housing, participate in language tables and clubs, and study abroad through programs that are coordinated with the Study Abroad Office. Undergraduates with proficiency in foreign languages find jobs in teaching, translating, foreign diplomacy, foreign correspondence, travel agencies, international airlines, import-export work,
international corporations, and agencies of the federal government. Foreign language competence is also an asset to those employed in social work, public health, medicine, nursing, and law enforcement.

Programs of Study
The degree offered is the bachelor of arts in Romance languages, with specializations in French, Italian, Portuguese, or Spanish. The Department of Romance Languages also offers minors in French, Italian, Portuguese, and Spanish.

Honors
The departmental Honors Program is open to any qualified major in French, Italian, Portuguese, or Spanish with at least a 3.2 grade point average. The student pursuing a degree with honors must take the 396 and 691H course sequence in the major language (for Portuguese and Italian, the first course in the sequence is 396). The student, in consultation with the director of honors for the language, will formulate a topic and select an appropriate faculty member to supervise the thesis. In 396 or 396H the mechanics of researching and writing the senior thesis will be discussed, and a start made on the thesis itself. In the 691H course the thesis will be completed and the student examined by the supervisor and two additional faculty members to be agreed upon by the student and supervisor. The director of honors, in consultation with the examiner, will recommend that the student who has defended the thesis graduate with honors, highest honors, or merely with course credit.

Those interested in the Honors Program should contact the undergraduate advisor for their major language.

Special Opportunities in Romance Languages
Out-of-Class Language Experience
Students may enrich their cultural and language experience by applying to the French or Spanish House, sections of the Carmichael Dorm residential hall. Equipped with a lounge and a kitchen, each house has space for eight male and sixteen female students. Students make an effort to speak only French or Spanish while in their residence.

Departmental Involvement
Students also find opportunities to speak Spanish and meet native Hispanics in an informal weekly tertulia. Additional activities such as lectures, receptions, and films are organized by the department and student organizations such as CHispA (Carolina Hispanic Association). Numerous volunteer opportunities using Spanish are available in the local community through CHispA, Campus Y, UNC Hospitals, and other organizations.

For further opportunities to speak French, students are encouraged to participate in the weekly meeting of the Table Française and become members of the French club, les Francophiles. Departmental lectures and film series are also offered.

Students wishing to speak Italian may participate in a weekly conversation table, La Tavola Italiana. Departmental lectures and film series are also offered.

Study Abroad
The Study Abroad Office sponsors several year, semester, and summer programs appropriate for students of the Romance languages and has special arrangements with the Department of Romance Languages for the UNC in Montpellier, UNC in Seville, and Florence programs. Students from UNC-Chapel Hill and from other institutions may earn up to thirty semester hours of undergraduat-
for students who wish to work in a field that makes knowledge of French, Italian, Portuguese, or Spanish desirable, such as history, art, Latin American studies, or international studies.

Contact Information

The Undergraduate Advisors for French, Italian, Portuguese, and Spanish may be contacted at CB # 3170, 238 Dey Hall, (919) 962-2062. Information is also available on the Web at rml.unc.edu.

ROML

050 [006E] First-Year Seminar: The Art and Science of Language: Orality and Literacy in the Information Age (3). Students examine the expressive use of language in oral and written texts. Particular emphasis is placed on the contribution of the cognitive sciences to an understanding of how humans communicate.

051 First-Year Seminar: National and Cultural Identities in the Romance Areas (3). Explores the development of national identities in the Romance world, focusing on conscious and unconscious attitudes toward language that helped fashion the four major Romance languages.

052 First-Year Seminar: The Value of Language in Identity: Hispanics in the United States (3). This course explores the cultural challenges for Spanish-speaking immigrants in the United States, particularly the importance of language in culture and identity.

053 [006E] First-Year Seminar: Oral Histories of Our Local Hispanic Community (3). Introduces students to procedures for gathering, transcribing, and analyzing oral histories and to issues related to the growing Hispanic population at both the national and local levels.

054 [006M] First-Year Seminar: Issues in Francophone Literature (3). Studies such issues as national identities and national memory, the impact of colonization, post-colonialism, and globalization, conflicts between tradition and modernity, and the place of women in history.


056 [006M] First-Year Seminar: Italians in Search of Harmony (3). This course explores the concept of harmony in selected Italian writers from Dante to contemporary film directors.

057 [006M] First-Year Seminar: Nature in Latin American Literature: Ecology, Gender, and Other Issues (3). Using translated masterpieces, the course explores such topics as indigenous ecology and Native Americans’ survival, race, development and the destruction of the environment, gender roles, and nature as female.

058 First-Year Seminar: Writing a Woman’s Life (3). Taking its title from Carolyn Heilbrun’s book, the course will explore the narratives by which women expect and are expected to live. Participants will read stories by women who have lived the usual life and then re-written it; and they will read stories written by young women trying to compose their lives right the first time, that is, in new narratives they discover as they reflect upon the ones their culture holds out to them.

059 First-Year Seminar: Courts, Courtiers, and Court Culture in 16th- and 17th-Century Europe (3). This course provides you with an opportunity to experience this glittering other world vicariously, entering into another time, place, and culture. You will gain new understanding of the lives of monarchs and courtiers, and the passion for power, learning, and exploration that played such an important part of court culture through the study of literature and visual arts from or pertaining to that time.

229 [029] Literature in the Romance Languages (3). An introduction to literature in the Romance languages. All readings in English translation. Focus and readings will vary.

280 [080] Social Theory and Cultural Diversity (3). Introduction to basic paradigms of thinking about cultural difference (race, gender, nationality, religion, etc.), shaping how we act, think, and imagine as members of diverse cultures.

604 [104] Violence and Religion in Literature from Epic to Novel (PWAD 604) (3). Prerequisite, permission of the instructor. The sacred character of epic violence and its historical decline through a process of religious desacralization associated with the emergence of the modern novel.

670 [170] Romance Sociolinguistics (3). Study of language in its social context: language variation, multilingualism, social dialects, the role of culture, language, and sex. Includes individual work on a specific language.

698 [096] Seminar in Romance Languages: Capstone Course (3). Capstone course.

Majoring in Romance Languages with an Emphasis in French: Bachelor of Arts

Students interested in a major in French and francophone studies should consult the undergraduate advisor for French and francophone studies. Students who plan to teach in public high schools should also see the School of Education for information on teacher certification.

The upper college requirements for the major in French and francophone studies consist of eight courses beyond FREN 260, between FREN 300 and 699. Four specific courses are required.

One course in grammar and composition:
FREN 300 Review Grammar and Composition

Three survey courses:
FREN 370 Survey of French Literature I (medieval/renaissance)
FREN 371 Survey of French Literature II (17th and 18th centuries)
FREN 372 Survey of French Literature III (19th and 20th centuries)

Note: One literature course above the survey level and one course in francophone studies may be chosen from list A in lieu of up to two of the survey courses.

A.
FREN 373 New Wave Cinema: Sources and Legacies
FREN 375 Francophone Studies
FREN 376 Identity and nationalism in Québécois Literature
FREN 377 The Evolution of "Frenchness" Since WWII
FREN 378 The Role of France in Europe Today
FREN 380 French and Francophone Drama
FREN 381 French and Francophone Poetry
FREN 382 French and Francophone Prose
FREN 383 Franco-Asian Encounters
FREN 398 Undergraduate Seminar

Four additional courses, two chosen from among those not taken in list A and two from among those in list B.
B.

FREN 310 French Conversation and Composition II (NOTE: Does not count towards the major if taken after the student has spent an academic year in France.)
FREN 320 Business French
FREN 330 French Civilization I
FREN 331 French Civilization II
FREN 332H European Cinema (Cross-listed with Comparative Literature)
FREN 350 Advanced Oral and Written French
FREN 396 Research for Advanced French Students
FREN 403 Advanced Composition
FREN 504 Cultural Wars: French/U.S.
FREN 564 History of the French Language
FREN 565 French Phonetics and Phonology
FREN 566 Structure of Modern French

Those who read for honors will take 691H as a ninth major course.

Minor in French

Students unable to undertake a full eight-course French major program may register for a French minor, which will appear on the student's UNC-Chapel Hill transcript. The minor consists of FREN 300 plus four other upper-level courses numbered above 300. This option also is available to students in some professional schools.

FREN

101 [001] Elementary French I (4). Introduces the essential elements of French structure and vocabulary and aspects of French and francophone culture. Aural comprehension, speaking, reading, and writing are stressed in that order.

102 [002] Elementary French II (4). Prerequisite, FREN 101. Continues study of essential elements of French structure, vocabulary, and aspects of French and francophone culture. Aural comprehension, speaking, reading, and writing are stressed in that order.

105 [002X] French for High Beginners (4). Covers FREN 101-102 for students with previous study of French. An accelerated course that starts at the beginning. Aural comprehension, speaking, reading, and writing are stressed in that order.

111 [001-002] Intensive Elementary French (6). Covers the material of the FREN 101-102 sequence in a single semester. Permission of the instructor required.

203 [003] Intermediate French I (3). Prerequisite, FREN 102, 105, 111, 401, or equivalent. Develops language skills for communication. Review of elementary French with increasing emphasis on reading and writing in the context of contemporary French and Francophone culture.

204 [004] Intermediate French II (3). Prerequisite, FREN 203 or equivalent. Continued development of language skills for communication through reading and discussion of literary and cultural texts. Emphasis on accurate grammar in written and oral expression.

212 Intensive Intermediate French (6). Prerequisite, FREN 102, 105, 401, or equivalent. A continuation of FREN 111; covers the material of FREN 203 and 204 in one semester.

250 [020] Language through Culture and Literature (3). Prerequisite, FREN 204, 212, 402, or equivalent. Emphasis on further development and refinement of speaking, listening, reading and writing, including a review of grammar. Study of literary and cultural texts.

255 [023] Conversation I (3). Prerequisite, FREN 204, 212, 402, or equivalent. Introductory conversation for building oral proficiency while increasing awareness of French culture. Emphasis on vocabulary and grammatical accuracy; writing activities support speaking.

260 [021] Introduction to French Literature (3). Prerequisite, FREN 204, 212, 402, or equivalent. Skills for further literary studies through French poetry, theater, and prose from Renaissance to the present. Lectures, discussions, and written assignments.

275 [040] French Theater in English Translation (3). Representative dramatic masterpieces from the 17th to the 20th century. Since these works are read in English translation, emphasis is placed on theme and character rather than language and style.

277 [041] French Novel in English Translation (3). Representative works of fiction from the 18th to the 20th century. Since all reading is in English translation, emphasis is placed on theme and character rather than language and style.

300 [050] French Composition and Grammar Review (3). Prerequisite, FREN 204, 212, 402, or equivalent. Recommended: FREN 250, 255, or 260. Intensive grammar review and composition to improve accuracy and develop writing skills, using process and task-oriented approaches.

308 [092] LAC Recitation (1). Prerequisite, FREN 204, 402, or permission of the instructor; co-requisite: a specified LAC course. Promotes foreign language proficiency across the curriculum. May not count toward the major or minor in French.

310 [051] Conversation and Composition II (3). Prerequisites, FREN 250, 255, 260, or equivalent. Intermediate conversation to expand speaking skills through vocabulary building, discussion of selected texts, and activities that produce conversation. Ongoing development of writing skills.

320 [055] Business French (3). Prerequisite, FREN 250, 255, 260, or equivalent. Practice of vocabulary and discourse strategies pertinent to business-related activity in French. Readings and discussions emphasize cultural awareness for interaction in cross-cultural settings.

330 [052] French Civilization I (3). Prerequisite, FREN 300 or equivalent. A study of important aspects of French civilization (descriptive geography and cultural, social, political, and art history highlights) from its beginning to Louis XIV.

331 [053] French Civilization II (3). Prerequisite FREN 300 or equivalent. A study of important aspects of French civilization (cultural, social, political, and art history highlights) from the eve of the French Revolution to the present time.


370 [060] Survey of French Literature I (3). Prerequisite, FREN 260 or equivalent and FREN 300 (may be corequisite). A survey of major authors and the genres they represent in French literature of the Middle Ages and Renaissance.

371 [061] Survey of French Literature II (3). Prerequisite, FREN 260 or equivalent and FREN 300 (may be corequisite). A survey of
major authors and the genres they represent in French literature of the 17th and 18th centuries.

372 [062] Survey of French Literature III (3). Prerequisite, FREN 260 or equivalent and FREN 300 (may be corequisite). A survey of major authors and the genres they represent in French literature of the 19th and 20th centuries.

373 French New Wave Cinema: Its Sources and Its Legacies (3). The challenge the New Wave presented to postwar cinema by pointing to Hollywood and other European films; the New Wave’s influence on U.S. and European cinema beginning in the 1970s.

375 [077] Francophone Studies (3). Prerequisite, FREN 260 and 300. Readings in francophone literatures from literary and cultural perspectives. Areas of study may vary (African, Canadian, European, etc.).

376 Identity and Nationhood in Québécois Literature (3). The evolution of identity and nationhood in Quebecois literature from the 1960s to the present. Includes the study of Francophone literature of immigration in Quebec.

377 [078] The Evolution of Frenchness since WWII (3). Prerequisite, FREN 300. How wars, women’s movements, immigration, and globalization have influenced the notion of Frenchness.

378 The Role of France in Europe Today (3). Prerequisite, FREN 300 or equivalent. Interdisciplinary studies of France’s role in the construction of European identity.

380 [080] French and Francophone Drama (3). Prerequisite, FREN 300 and at least one of the following: 370, 371, 372. French-language theater. Specific topics to be announced in advance by instructor.

381 [081] French and Francophone Poetry (3). Prerequisites, FREN 300 and at least one of the following: 370, 371, 372. Specific topics to be announced in advance by instructor.

382 [082] French and Francophone Prose (3). Prerequisite, FREN 300 and at least one of the following: 370, 371, 372. Specific selections announced in advance by instructor.

396 [095] Research for Advanced French Students (3). Prerequisites, FREN 300 plus two major-level courses or permission of the instructor. Research project on topic agreed upon by the student and faculty member. Includes bibliographic work and research approaches.

398 [096] Undergraduate Seminar in French (3). Prerequisites, FREN 300 and two major-level courses. Topic to be announced at registration (consult with French undergraduate advisor).

401 [014] Beginning Accelerated French (3). For students with proven competence in another foreign language. Covers first-year material in one semester; emphasis on speaking and grammar.

402 [015] Intermediate Accelerated French (3). Prerequisite, FREN 102, 105, 111, 401 or equivalent. Covers second-year material in one semester. Develops skills, with increasing emphasis on reading and writing. Prepares for more advanced courses.


504 [104] Cultural Wars: French/U.S. Perspectives (3). This course examines the limits of universalism in today’s “multicultur-al” France and how the European Union will affect French universalism and French resistance to identity politics.

564 [126] History of the French Language (LING 564) (3). Prerequisite, FREN 300 or permission of the instructor. The phonology, morphology, and syntax of French are traced from the Latin foundation to the present. Lectures, readings, discussions, and textual analysis.

565 [145] French Phonetics and Phonology (LING 565) (3). Prerequisite, FREN 300 or equivalent, or permission of the instructor. The study of sounds as system in modern standard French. Lecture, discussion, laboratory practice in practical phonetics according to individual needs.

566 [146] Structure of Modern French (LING 566) (3). Prerequisite, FREN 300 or equivalent, or permission of the instructor. Introduction to phonology, morphology, and syntax of modern standard French. Application of modern linguistic theory to the teaching of French.

601 [101X] French for Reading I (3). French language for reading. For students with no background in French or those needing a review of grammatical structures and vocabulary in preparation for FREN 602.

602 [102X] French for Reading II (3). Prerequisite, FREN 601 or equivalent background in French. Focus on reading French in preparation for the reading knowledge exam for graduate degrees. Passing FREN 602 satisfies requirement for most departments.

691H [097] Honors Thesis in French (3). Required of students reading for honors. Preparation of an essay under the direction of a member of the faculty. Topic to be approved by thesis director in consultation with honors advisor.

**Majoring in Romance Languages with an Emphasis in Italian: Bachelor of Arts**

A prerequisite for entering the major is knowledge of the Italian language demonstrated by successfully completing ITAL 204 (Intermediate Italian), or ITAL 402 (Accelerated Italian), or the equivalent. The requirements for the major consist of eight courses to be chosen from:

ITAL 300 Communicating in Italian: Media, Culture and Society
Seven additional ITAL courses numbered between 300 and 699 (excluding 401 and 402) chosen from the following:
ITAL 310 Conversations in Context
ITAL 330 Italian Civilization
ITAL 333 Italian Film and Culture
ITAL 335 Special Topics in Italian Film
ITAL 340 Italian American in Literature and Film
ITAL 345 Italian Women Writers
ITAL 370 Survey of Italian Literature I
ITAL 371 Survey of Italian Literature II
ITAL 382 The Modern Italian Novel
ITAL 390 Special Topics or Readings in Italian Literature
ITAL 398 Undergraduate Seminar in Italian Literature
ITAL 511 Survey of Italian Literature I (to 1600)
ITAL 512 Survey of Italian Literature II (1600 to present)
ITAL 526 History of the Italian Language
ITAL 534 Petrarch and the Lyric Tradition
ITAL 535 Boccaccio and European Narrative
ITAL 541 Italian Literature of the Renaissance I: The Quattrocento
ITAL 551 Italian Literature of the Renaissance II: The Cinquecento
ITAL 671 The 17th and 18th Centuries
ITAL 681 Italian Romanticism
ITAL 682 Italian Literature in the Second Half of the 19th Century
ITAL 684 Modern Italian Poetry
ITAL 695 Modern Italian Fiction
ITAL 696 Modern Italian Drama

Minor in Italian

The minor in Italian consists of a minimum of five courses selected from major courses numbered between 300 and 699, excluding 401, 402, and 691H. One of the five courses must be the composition and grammar review course, ITAL 300.

ITAL

101 [001] Elementary Italian I (3). Introduces the essential elements of Italian structure and vocabulary and aspects of Italian culture. Aural comprehension, speaking, reading, and writing are stressed in that order.

102 [002] Elementary Italian II (3). Prerequisite, ITAL 101 or equivalent. Continues study of essential elements of Italian structures, vocabulary, and aspects of Italian culture. Aural comprehension, speaking, reading, and writing are stressed in that order.

203 [003] Intermediate Italian I (3). Prerequisite, ITAL 102, 401, or equivalent. Develops language skills for communication. Reviews and expands grammar of elementary Italian with increasing emphasis on reading and writing in the context of Italian culture.

204 [004] Intermediate Italian II (3). Prerequisite, ITAL 203 or equivalent. Continued development of language skills for oral and written communication through reading and discussion of literature and expository texts. Further study of grammar.

220 [021] Advanced Italian (3). Based on the reading of selected works of modern prose and drama. Continued study of grammar and syntax to motivate the student for more advanced work in literature.

221 [023] Introduction to Italian Conversation (3). Prerequisite, ITAL 204, 402, or permission of the instructor. Emphasis on practical, everyday use of the language.


241 [041] Italian Renaissance Literature in Translation (3). A study of the major authors of the Italian Renaissance, with special attention to Petrarch, Boccaccio, Machiavelli, Castiglione, Ariosto, and Tasso.


300 [050] Italian Composition and Grammar Review (3). Prerequisite, ITAL 204, 402, or equivalent. Intensive grammar review and composition designed to improve accuracy and develop writing skills. Using process and task-oriented approaches.

308 LAC Recitation (3). Prerequisite, ITAL 203 or permission of the instructor. Corequisite(s), specified LAC course(s). A recitation section for selected courses that promote the use of foreign language proficiency across the curriculum (LAC). May not count toward the major or minor in Italian.

310 [051] Italian Conversation (3). Prerequisite, ITAL 204, 402, or equivalent. Designed to expand speaking skills through vocabulary building, discussion of selected texts, and activities that produce conversation. Ongoing development of writing skills.

330 [052] Italian Civilization I (3). Prerequisite, ITAL 204, 402, or permission of the instructor. Study of the importance of Italian civilization from its beginnings to the present. Areas examined include history, art history, music, and literature.

331 Italian Civilization II (3). Prerequisite, ITAL 204, 402, or equivalent. A multidisciplinary examination of postunification Italian culture conducted in Italian. The course will trace out recurrent themes by examining texts from various media: film, literature, music, television, journalism, and architecture.

333 Italian Film and Culture (3). Analysis of films from World War II to the present. Lectures and discussion in English. Films in Italian with English subtitles. Readings in Italian for majors, in translation for nonmajors.

335 Special Topics in Italian Film (3). Themes in Italian cinema: literary adaptation, neorealism, a single auteur or period, representations of fascism, the city, the country, industrialization, social space, north/south difference, regionalism, gender, and sexuality.

343 Italian Culture Today: Modern Italy as a Nation 1860 to Present (3). This course offers a cultural approach to the study of Italian culture in the 20th century, examining material across disciplines - literature, visual arts, music, history, architecture.

345 Italian Women Writers (3). Introduces students to Italian women writers, whose works explore how historical realities such as Fascism, Resistance, migration, immigration and changing institutions of work and family have affected women.

357 [057] The World of Petrarch and Boccaccio (3). Prerequisites, ITAL 300 for major credit. Readings from Petrarch’s Book of Songs and Boccaccio’s Decameron within the context of ancient, medieval, and Renaissance lyric poetry and narrative. Readings in English for non-majors; in Italian for Italian majors.

370 [060] Survey of Italian Literature I (3). Prerequisites, ITAL 204, 402, or permission of the instructor. A survey of Italian literature from its origins through the 16th century.

371 [061] Survey of Italian Literature II (3). Prerequisites, ITAL 204, 402, or permission of the instructor. A survey of Italian literature from the 17th century to the present.

382 [082] The Modern Italian Novel (3). Prerequisites, ITAL 204, 402, or permission of the instructor. A representative sampling of the genre from Pirandello to the present.

382 The Modern Italian Novel (3). Prerequisite, ITAL 204, 402, or permission of instructor. A representative sampling of the genre from Pirandello to the present.

390 [095] Special Topics of Readings in Italian Literature (3). A tutorial for advanced students in Italian on a topic agreed upon by the student and a member of the faculty.

398 [096] Undergraduate Seminar in Italian (3). A seminar on a previously announced subject.

401 [014] Beginning Accelerated Italian (3). For students with special aptitude and interest in developing Italian language skills. Covers first-year material in one semester. Emphasis in the first semester is on grammar.
402 [015] Intermediate Accelerated Italian (3). Prerequisite ITAL 102 or 401 or equivalent. Covers second-year material in one semester. Develops skills with increasing emphasis on reading and writing. Prepares students for more advanced courses.

503 [103] Advanced Composition for Graduate Students (3). Review of advanced grammar. Composition on a variety of topics designed to enhance writing proficiency in Italian. Training in the use of stylistic devices.

511 [111] Survey of Italian Literature and Culture I (to 1600) (3). Prerequisite, permission of the instructor for undergraduates; none for graduates. The survey is based on anthologies, with particular attention to authors and texts included in the current departmental reading lists.

512 [112] Survey of Italian Literature and Culture II (1600 to present) (3). Prerequisite, permission of the instructor for undergraduates; none for graduate. See description under Italian 511.


534 [134] Petrarch and the Lyric Tradition (3). A reading of Petrarch’s Canzoniere within the context of previous lyric traditions and Petrarchism in Europe. Class discussion in English; readings in Italian for majors and in translation for nonmajors.

535 [536] Boccaccio and European Narrative (CMPL 535) (3). Boccaccio’s Decameron within the context of previous narrative traditions and subsequent development of narrative in Europe. Class discussion in English; readings in Italian for majors and in translation for nonmajors.

541 [141] Italian Literature of the Renaissance I: The Quattrocento (3). Prerequisites, ITAL 204, 402, or equivalent. A study of the major figures of Italian humanism, Latin and vernacular, from Salutati to Poliziano.

551 [151] Italian Literature of the Renaissance II: The Cinquecento (3). Prerequisite, ITAL 204, 402 or equivalent. Brief description of the literary and historical situation in the cinquecento. Three authors studied in detail are Ariosto, Orlando Furioso; Machiavelli, II Principe; Castiglione, II Cortegiano.

571 [171] The 17th and 18th Centuries (3). Prerequisite, ITAL 204, 402, or equivalent. The age of baroque, Campanella, the new genres, Tassoni. The literature of Arcadia, the Enlightenment, Goldoni, Parini, and Alfieri.

618 [381] Italian Romanticism (3). Prerequisite, ITAL 204, 402, or equivalent. Pre-Romanticism; Alfieri; the lyrics and novels of Foscofo, Leopardi, Manzoni; the Romantic drama from Pindemonte to Niccolini.

682 [182] Italian Literature in the Second Half of the 19th Century (3). Prerequisite, ITAL 204, 402, or equivalent. The major literary forms in the second half of the century with particular regard to Verismo, Verga, Carducci, Pascoli, Scapigliatura, and Decadentismo.

684 [194] Modern Italian Poetry (3). Prerequisite, ITAL 204, 402, or equivalent. The major poets and trends of the 19th and 20th centuries: Decadentii, Crepuscolari, Futuristi, and Ermetici.

691H [097] Honors Thesis (3). Required of students reading for honors. Preparation of an essay under direction of a member of the faculty. Topic to be approved by the thesis director in consultation with honors advisor.

695 [195] Modern Italian Fiction (3). Prerequisite, ITAL 204, 402, or equivalent. D’Annunzio, Svevo, Moravia, Pavese, Vittorini, Calvino, etc.

696 [196] Modern Italian Drama (3). Prerequisite, ITAL 204, 215, or equivalent. Grotteschi, Pirandello, Italian drama after World War II, Eduardo de Filippo, etc.

**Majoring in Romance Languages with an Emphasis in Portuguese: Bachelor of Arts**

A major in Portuguese combines the study of the language, culture, and literatures of Brazil and Portugal. Emphasis is placed on the language as it is currently spoken and its historical development. Students study the literatures of Brazil and Portugal in terms of their historical development and analyze specific texts from different genres and literary periods. Students interested in a major in Portuguese should consult the Portuguese language advisor.

Because few entering students have completed course work in Portuguese prior to enrollment in the University, it is essential that interested students start the language as early as the first year. Completion of PORT 204 satisfies the Foundations Foreign Language requirements and is considered a prerequisite for the Portuguese major.

The major in Portuguese consists of eight courses to be chosen from:

- PORT 310 Conversation and Composition
- PORT 323 Luso-Brazilian Civilization
- PORT 390 Special Topics or Readings in Portuguese
- PORT 398 Undergraduate Seminar in Portuguese Literature
- PORT 501 Survey of Portuguese Literature I
- PORT 502 Survey of Portuguese Literature II
- PORT 503 Survey of Brazilian Literature I
- PORT 504 Survey of Brazilian Literature II

**Minoring in Portuguese**

The minor in Portuguese consists of a minimum of five courses from the major numbered between 300 and 699, excluding 691H. One of the five courses must be the composition and grammar review course, PORT 310.

**PORT**

101 [001] Elementary Portuguese I (3). Introduces the essential elements of Portuguese structure and vocabulary and aspects of Brazilian and Portuguese culture. Aural comprehension, speaking, reading, and writing are stressed in that order.

102 [002] Elementary Portuguese II (3). Prerequisite, PORT 101 or equivalent. Continues study of essential elements of Portuguese structure, vocabulary, and aspects of Brazilian and Portuguese culture. Aural comprehension, speaking, reading, and writing are stressed in that order.

111 [001-002] Intensive Elementary Portuguese (6). Covers the material of the PORT 101-102 sequence in a single semester.

203 [003] Intermediate Portuguese I (3). Prerequisite, PORT 102, 111, 401, or equivalent. Further development of language with
emphasis on speaking, writing, and a review of grammar. Includes advanced Portuguese structures, cultural and literary texts.

204 [004] Intermediate Portuguese II (3). Prerequisite, PORT 203 or equivalent. Continued development of language skills for communication. Further study of grammar.

212 Intensive Intermediate Portuguese (6). Prerequisite, PORT 102, 111, 401, 204, or equivalent. A continuation of PORT 111; covers the material of PORT 203 and 204 in one semester.

270 [035] Modern Brazilian Literature in English Translation (3). This course is devoted to the study of Brazilian culture through representative works of 19th- and 20th-century literature.

275 [040] Portuguese and Brazilian Fiction in Translation (3). The study of selected literary works by major writers from Portugal, Brazil, and the former Portuguese colonies in Africa.

310 [051] Composition and Conversation (3). Prerequisite, PORT 204, 402, or equivalent. Designed to expand speaking skills through vocabulary building, discussion of selected texts, and activities that produce conversation. Ongoing development of writing skills.

323 [053] Luso-Brazilian Civilization (3). Prerequisite, PORT 204 or 402, or equivalent. A general introduction to the history and culture of Luso-Brazilian civilization, with basic readings in Portuguese, lectures, slides, etc.

390 [095] Special Topics or Readings in Portuguese (3). A tutorial for advanced students in Portuguese on a topic agreed upon by the student and a member of the faculty.

398 [096] Undergraduate Seminar in Portuguese (3). A seminar on a previously announced subject.

401 [014] Accelerated Brazilian Portuguese I (3). For students who have fulfilled their foreign language requirement with another language. Covers first-year material in one semester. Introduction to spoken Portuguese with literary and cultural readings.

402 [015] Accelerated Brazilian Portuguese II (3). Prerequisite, PORT 102, 111, 401, or equivalent. Covers second-year material in one semester. Further study of spoken Portuguese with literary and cultural readings.

501 [101] Survey of Portuguese Literature I (3). Prerequisite, PORT 204, 402, or equivalent. An introduction to Portuguese literature from its origins through the 18th century.

502 [102] Survey of Portuguese Literature II (3). Prerequisite, PORT 204, 205, 402, or equivalent. A survey of Portuguese literature of the 19th and 20th centuries.

503 [103] Survey of Brazilian Literature I (3). Prerequisite, PORT 204, 205, 402, or equivalent. A survey of Brazilian literature of the colonial period and 19th century.

504 [104] Survey of Brazilian Literature II (3). Prerequisite, PORT 204, 205, 402, or equivalent. Study of major writers of 20th-century Brazilian literature.

526 [126] History of the Portuguese Language (3). Prerequisite, PORT 402 or equivalent, or permission of the instructor. Survey of the history of Portuguese with stress on the characteristics of Brazilian Portuguese and the factors underlying them.

535 [135] Brazilian Drama (3). Prerequisites, PORT 402 or equivalent, or permission of the instructor. A study of representative Brazilian plays of the 20th century with a review of the development of the theater in Brazil.

691H [097] Honors Thesis (3). Required of all students reading for honors. Preparation of an essay under the direction of a faculty member. Topic to be approved by thesis director in consultation with honors advisor.

**Majoring in Romance Languages with an Emphasis in Spanish: Bachelor of Arts**

The Spanish major provides opportunities to study the language, literature, and culture of Spain and Spanish America. Prospective Spanish majors should complete the foreign language requirement with SPAN 204 (Intermediate Spanish) or the equivalent by the end of their sophomore year. Students who plan to teach in public schools should see the School of Education for information on certification.

The major in Spanish consists of eight Spanish courses numbered between SPAN 300 and 699 (excluding SPAN 310) chosen as follows:

1. SPAN 300 Spanish Composition and Grammar Review
2. Two courses chosen from:
   - SPAN 371 Survey of Spanish Literature to 1700
   - SPAN 372 Survey of Spanish Literature since 1700
   - SPAN 373 Survey of Spanish American Literature
3. One course chosen from:
   - SPAN 330 Cultural History of the Hispanic World
   - SPAN 340 Cultures of Contemporary Spain
   - SPAN 344 Contemporary Latin America: Mexico, Central America, and the Andean Region
   - SPAN 345 Contemporary Latin America: The Caribbean and the Southern Cone
4. One course chosen from:
   - SPAN 350 Advanced Conversation and Composition
   - SPAN 369 Introduction to Translation
   - SPAN 376 Spanish Phonetics and Phonology
   - SPAN 377 The Grammatical Structure of Spanish
   - SPAN 378 Cultural and Linguistic History of the Spanish Language
   - SPAN 379 Spanish in the United States
   - SPAN 403 Advanced Composition
5. One additional literature course, which can be either the survey course not chosen in #2 above or any literature course from #6 below (preferably but not necessarily in the area of the survey courses not chosen)
6. Two courses chosen from the following courses or from any of the previous lists:
   - SPAN 380 Masterpieces of Spanish Drama
   - SPAN 381 Masterpieces of Spanish and Spanish American Poetry
   - SPAN 382 Masterpieces of Spanish Prose
   - SPAN 383 Medieval Spanish Literature
   - SPAN 384 Spanish Literature of the Renaissance
   - SPAN 385 Contemporary Spanish American Prose Fiction
   - SPAN 386 The Quest for Identity in Contemporary Spain
   - SPAN 388 Hispanic Film and Culture
   - SPAN 389 Cuba's Diasporic Literature
   - SPAN 396 Research for Advanced Students
   - SPAN 398 Undergraduate Seminar in Spanish
   - SPAN 610 The Generation of 1898
SPAN 613 Colonial and 19th-Century Spanish American Literature
SPAN 614 Modernist and Contemporary Spanish American Literature
SPAN 617 Cervantes
SPAN 620 Women in Hispanic Literature
SPAN 635 Modern Spanish Drama
SPAN 650 The Spanish Comedia of the Golden Age

Majoring in Romance Languages with an Emphasis in Spanish American Studies (Track within Spanish): Bachelor of Arts

Students may choose a program leading to a B.A. in Romance languages, Spanish, with emphasis on Spanish American civilization and culture. Prospective Spanish majors should complete the foreign language requirement with SPAN 204 (Intermediate Spanish) or the equivalent by the end of their sophomore year. Portuguese is required as a second modern language.

The requirements for this major are as follows:
• Eight courses in Spanish, four of which must be chosen from SPAN 340, 344, 345, 350, 373, 381, 385, 613, 614, 620
• Five to seven courses in the social sciences to be drawn from the following areas: anthropology, economics, geography, political science, and history. POLI 238 (Contemporary Latin American Politics) and HIST 142 and 143 (Latin American History) are required.
• Five to seven courses in allied electives, including two courses in Portuguese above the level of PORT 204 or 402.

Minoring in Spanish

The minor in Spanish consists of a minimum of four or five courses, according to the specific minor chosen.

Minor in Hispanic Studies
• SPAN 300 Advanced Grammar and Composition
• Three courses 330 or above
• One allied course on the Hispanic World

Minor in Spanish for the Professions
• SPAN 265 Spanish for the Professions
• SPAN 320, 321, 322, or 323 (1 profession-specific course)
• SPAN 335 The U.S. Hispanic Community
• One allied course on the Hispanic world

The minor in Hispanic studies is designed for those who wish to continue their study of Spanish language and acquire a more in-depth knowledge of Spanish and/or Spanish American literature, culture, or linguistics. Through the selection of courses students may choose to concentrate on a single region of the Hispanic world (Spain or Spanish America), a specific content area (literature, culture, or linguistics), or elect a combination of regions and/or content areas.

The minor in Spanish for the professions is designed for students who anticipate careers in which they will need to interact with Hispanic communities in the U.S. or abroad and who wish to continue the study of Spanish language and culture for specific professional purposes: business, medical and other health professions, journalism and mass communications, or law and other legal professions. The profession-specific course for this option for the minor includes experiential learning through fieldwork and/or public service.

For either option, students will complement their courses in Spanish with one Hispanic world course from the list of allied courses for the minors in Spanish. The allied course should be taken in a department other than Romance Languages, although a Spanish course cross-listed with another department would be acceptable. It could also be a course offered for the Languages Across the Curriculum program or a course taken abroad in a University department other than Spanish language and literature. For the minor in Spanish for the professions students who plan to use Spanish professionally in the U.S. are strongly encouraged to choose a course related to the U.S. Hispanic community.

Allied Courses for the Minor in Spanish

*L = LAC (Languages Across the Curriculum) Course
AFAM 254 Blacks in Latin America
AFAM 278 Black Caribbeans in the United States
AFAM 293 The African Diaspora in the Americas
ANTH 130 Anthropology of the Caribbean
*ANTH 142: Local Cultures, Global Forces (LAC recitation in Spanish will carry one additional credit for SPAN 308)
DRAM 486 Latin American Theater
DRAM 488: U.S. Latina/o Theatre
GEOG 259 Geography of Latin America
GEOG 457 Rural LA: Agriculture, Environment, and Natural Resources
GEOG 458 Urban Latin America: Politics, Economics, and Society
HIST 142 Latin America under Colonial Rule
*HIST 143 Latin America since Independence (LAC recitation in Spanish will carry one additional credit for SPAN 308)
HIST 278 The Trans-Atlantic Slave Trade
HIST 280 Women in Latin America
HIST 332 History of Cuba
MUSC 147 Introduction to Latin/o American Music
PLCY/INTS 249 New Immigrants and the South
POLI/PWAD 231 Latin America and U.S. in World Politics
*POLI 238 Contemporary Latin American Politics (LAC recitation in Spanish will carry one additional credit for SPAN 308)
POLL 435 Democracy and Development in Latin America
SOCI 433 Social Change in Latin America
Other courses with Hispanic content may also be substituted, with departmental approval.

SPAN

101 [001] Elementary Spanish I (4). Introduces the essential elements of Spanish structure and vocabulary and cultural aspects of the Spanish-speaking world. Aural comprehension, speaking, reading, and writing are stressed in that order.

102 [002] Elementary Spanish II (4). Continues the study of the essential elements of Spanish structure, vocabulary, and the cultural aspects of the Spanish-speaking world. Aural comprehension, speaking, reading, and writing are stressed in that order.

103 [001C] Elementary Spanish — CAI (4). Prerequisite: permission of the instructor. Essentials of elementary Spanish through information technology focusing on aural comprehension, reading, writing, grammar, and culture.

104 [002C] Elementary Spanish — CAI (4). Prerequisite, SPAN 103. Continuation of the essentials of elementary Spanish through information technology focusing on aural comprehension, reading, writing, grammar, and culture.
105 [002X] Spanish for High Beginners (4). For students with previous study of Spanish. Accelerated course that covers SPAN 101-102 in one semester. Aural comprehension, speaking, reading, and writing are stressed in that order.

111 Intensive Elementary Spanish (6). Prerequisite, permission of the instructor required. Covers the material of the SPAN 101-102 sequence in a single semester.

203 [003] Intermediate Spanish I (3). Prerequisite, SPAN 102, 104, 105, 111, 401, or equivalent. Develops language skills for communication. Review of elementary Spanish. Expands awareness of the Spanish-speaking world through readings and discussion of representative texts.

204 [004] Intermediate Spanish II (3). Prerequisite, SPAN 203 or equivalent. Continued development of language skills for communication. Considers finer points of linguistic structure. Expands awareness of Spanish culture through reading, inquiry, and class discussion.

212 [003-004] Intensive Intermediate Spanish (6). Prerequisite, SPAN 102, 104, 105, 401, or equivalent. A continuation of SPAN 111; covers the material of SPAN 203-204 in one semester.

250 [020] Language through Culture and Literature (3). Prerequisite, SPAN 204, 212, 402, or equivalent. Emphasis on further development and refinement of speaking, listening, reading, and writing skills, including review of grammar. Study of cultural and literary texts.

255 [023] Conversation I (3). Prerequisite, SPAN 204, 212, 402, or equivalent. Introductory conversation. Builds oral proficiency and awareness of Hispanic culture. Emphasizes vocabulary and grammatical accuracy; writing activities support speaking. Not open to native speakers.

260 [021] Introduction to Spanish and Spanish American Literature (3). Prerequisite, SPAN 204, 212, 402, or equivalent. Develops skills for further literary studies while increasing Spanish language proficiency and providing different world views through literature. Native speakers need permission.

265 Spanish Language and Culture for the Professions (3). Prerequisite, SPAN 204. All-skills course geared toward the language of various professions including business, journalism/mass communications, medicine, law. Emphasizes cultural knowledge to enhance professional work in the U.S. Hispanic community.

266 Spanish Conversation for Heritage Learners (3). Prerequisite, SPAN 204. Spanish conversation for 'native speakers.' Develops vocabulary and standard grammar skills, supports research in the history and lives of Hispanics in the U.S. First in two-course sequence with SPAN 326.

270 [035] Contemporary Spanish American Prose Fiction in Translation (3). Narrative works of Borges, Cortázar, García Márquez, and other contemporary Spanish American writers.

275 [040] Masterpieces of Spanish Literature in Translation (3). Representative Spanish authors from the Middle Ages to the present.

280 [046] Cervantes in English Translation (3). Study and discussion of Don Quijote with consideration of the Exemplary Novels and the background of Renaissance prose.

293 [093] Spanish Service Learning (1). Prerequisite, permission of the instructor. Service learning component for students enrolled in Spanish language courses. May not count toward the major or minor in Spanish.

300 [050] Spanish Composition and Grammar Review (3). Prerequisite, SPAN 250, 255, 260, or equivalent. Intensive grammar review and composition designed to improve accuracy and develop writing skills, using process and task-oriented approaches.

308 [092] LAC Recitation (1). SPAN, Spanish 204 or permission of the instructor. Corequisite, a specified LAC course. A recitation section for LAC courses. May not count toward the major or minor in Spanish.


321 Spanish for the Medical Professions (3). Prerequisite, SPAN 265. All-skills course with review of grammar, extensive writing and speaking practice. Vocabulary, readings, and activities geared toward the language of health care professions in the context of the U.S. Hispanic community.

322 Spanish for Journalism and Mass Communications (3). Prerequisite, SPAN 265. All-skills course with review of grammar and extensive writing and speaking. Vocabulary, readings, and activities geared toward the language of journalism and mass communications within the context of the Hispanic community.

323 Spanish for the Legal Professions (3). Prerequisite, SPAN 265. All-skills course with review of grammar and extensive writing and speaking. Vocabulary, readings, and activities geared toward the language of legal professions within the context of the Hispanic community.

326 Spanish Grammar and Composition for Heritage Speakers (3). Prerequisite, SPAN 255 or 266. Study of language and society from the perspective of Spanish speakers in the U.S., focusing on vocabulary building through situational practice, review of basic grammar and practice in reading and writing.

330 Cultural History of the Hispanic World (3). Prerequisite, SPAN 300, 320, 321, 322, or 323. Studies multicultural traditions of the Hispanic world: Romans, Moslems, Jews, and Christians in Spain; Africans, Europeans during the colonial period; revolutions, dictatorships, and the formation of modern societies.

340 Cultures of Contemporary Spain (3). Prerequisite, SPAN 300, 320, 321, 322, or 323. Recent trends in thought, art, film, music, and social practices. Highlights regions such as Galicia, the Basque country, Catalonia and Andalusia. Topics include nationalism, ethnicity, gender, migration, and popular culture.

344 Contemporary Latin America: Mexico, Central America, and the Andean Region (3). Prerequisite, SPAN 300, 320, 321, 322, or 323. Recent trends in thought, art, film, music, social practices, etc. Topics may include colonialism, race, ethnicity, modernization, ecology, religion, gender, and popular culture.

345 Contemporary Latin America: The Caribbean and the Southern Cone (3). Prerequisite, SPAN 300, 320, 321, 322, or 323. Recent trends in thought, art, film, music, social practices, etc. Topics
include colonialism, race, ethnicity, modernization, ecology, religion, gender, and popular culture.

350 [061] Advanced Conversation and Composition (3). Prerequisite, SPAN 300 or equivalent. Refines speaking skills through discussion of contemporary topics of the Spanish-speaking world using current periodicals, literature, etc. Includes significant writing component, review of grammar.

360 [076] The Spanish Language Today (LING 307) (3). Prerequisite, SPAN 300 or equivalent. An introduction to the languages of Spain and Latin America focusing on the four major dialect regions of the Spanish-speaking world. Includes discussion of sociolinguistic variation and dialectal differences.

363 [077] Grammar of Contemporary Spanish (LING 308) (3). Prerequisite, SPAN 300 or equivalent. Introduction to theories of grammar, with an analysis of contemporary Spanish. Includes the study of meaning, grammatical form, and language diversity in dialectal and sociolinguistic variation.

367 [078] Cultural and Linguistic History of the Spanish Language (LING 309) (3). Prerequisite, SPAN 300. The formation of the Spanish language and its cultures from Latin origins. Special attention to expansion of the Spanish Americas and the situation of Spanish today.

371 [071] Survey of Spanish Literature to 1700 (3). Prerequisites, SPAN 260 and 300 or equivalent. The literature of Spain through 1700. Representative authors of Spanish literature from the medieval, Renaissance, and Golden Age.

372 [072] Survey of Spanish Literature Since 1700 (3). Prerequisites, SPAN 260 and 300 or equivalent. Main trends and movements in Spanish literature. Designed to familiarize students with literary terminology. Readings and classes are in Spanish.

373 [073] Survey of Spanish American Literature (3). Prerequisites, SPAN 260 and 300 or equivalent. The literature of Spanish America from pre-Colombian times to the present. Representative authors and texts from various literary movements will be studied in their socio-historical contexts.

380 [080] Masterpieces of Spanish Drama (3). Prerequisite, at least one of the following: SPAN 370, 371, 373, or equivalent. Spanish-language theater. Specific topics to be announced in advance by instructor.

381 [081] Masterpieces of Spanish and Spanish American Poetry (3). Prerequisite, SPAN 370, 371, 373, or equivalent. Specific topics to be announced in advance by instructor.

382 [082] Masterpieces of Spanish Prose (3). Prerequisite, SPAN 371, 372, 373, or equivalent. Selected works of prose from the Spanish canon organized by topic or theme.

383 [085] Medieval Spanish Literature (3). Prerequisite, SPAN 371 or equivalent. A survey of lyric poetry, drama, prose, and genres peculiar to the literature before 1500.

384 [086] Spanish Literature of the Renaissance (3). Prerequisite, SPAN 371 or equivalent. A survey of poetry, drama, and prose of the 16th century.

385 [087] Contemporary Spanish American Prose Fiction (3). Prerequisite, SPAN 371, 372, 373, or equivalent. A study of the cultural, political, and aesthetic dimensions of the novels and short stories of selected contemporary Spanish American writers such as Borges, Cortázar, García Márquez, Puig, etc.

388 [088] Hispanic Film and Culture (3). Prerequisites, SPAN 300 and 340, 344, 345, or equivalent, or permission of the instructor. Study of contemporary Hispanic cultural and aesthetic issues through films, documentaries, soap operas, other media, and literature.

389 Outside Cuba: Diasporic Literature and Culture (3). Prerequisite, SPAN 373 or equivalent. An overview of the literary and cultural production (essays, novels, short stories, plays, music, film) of Cubans living in the diaspora after the Cuban revolution.

396 [095A] Research for Advanced Students (3). Prerequisites, SPAN 300 and two major-level courses or permission of the instructor. Research project for advanced students on a topic agreed upon by the student and faculty member.

398 Undergraduate Seminar in Spanish (3). Prerequisite, two of the following courses: SPAN 371, 372, 373 or equivalent. A seminar on a previously announced subject.


402 [015] Intermediate Accelerated Spanish (3). Prerequisite, SPAN 102, 104, 105, 114, 401, or equivalent. Covers second-year material in one semester. Continued development of all skills. Spanish 402 prepares students for more advanced courses.


405 [105] Spanish for Health Care Professionals (3). Prerequisite, SPAN 102 or equivalent. Distance course requiring access to computer with DVD drive. Focuses on improving communication within the context of Latino/a immigrant culture in health care settings.

601 [101X] Spanish for Reading I (3). For students with no background in Spanish or those needing a review of grammatical structures and vocabulary in preparation for SPAN 602.

602 [102X] Spanish for Reading II (3). Prerequisite, SPAN 601 or equivalent background in Spanish. Focus on Spanish for the reading knowledge exam for graduate degrees. SPAN 602 satisfies the requirement for most departments.

610 [110] The Generation of 1898 (3). Prerequisite, SPAN 371, 372, or 373. Study of innovative literary forms and techniques of the Generation of 1898 as seen through representative authors such as Azorín, Baroja, Machado, and Valle-Inclán.

613 [113] Colonial and 19th-Century Spanish American Literature (3). Prerequisite, SPAN 371, 372, or 373. An advanced survey of the literary works written in Spanish America from the 16th through the 19th centuries, with emphasis on their rhetorical foundations and historical, political, and aesthetic connections.

614 [114] Modernist and Contemporary Spanish American Literature (3). Prerequisite, SPAN 371, 372, or 373. An advanced survey of the literary works written in Spanish America from the 1880s through the present, with emphasis on their rhetorical foundations and historical, cultural, political, and aesthetic connections.

617 [117] Cervantes (3). Prerequisite, SPAN 371, 372, or 373. The works of Cervantes, stressing the Quijote and novelas ejemplares,
with consideration of background of Renaissance prose (the romance of chivalry, pastoral, sentimental novel).

620 [120] Women in Hispanic Literature (WMST 620) (3).
The image of woman in 16th- and 17th-century Hispanic literature. A study of texts by Spanish and Spanish American authors. Readings in Spanish or in English translation. Lectures in English.


691H [097] Honors Thesis (3). Required of students reading for honors. Preparation of an essay under the direction of a faculty member. Topic to be approved by thesis director in consultation with honors advisor.

This unique program is intended to prepare undergraduate students for a wide range of career options, including work in the U.S. Foreign Service or other branches of the federal government, international nongovernmental organizations, journalism, library and information careers, and high school teaching, as well as graduate study in the various disciplines.

Program of Study

The degree offered is bachelor of arts in Russian and East European area studies.

Majoring in Russian and East European Area Studies: Bachelor of Arts

First and second years: Four semester courses in Russian or another East European language (through level 4) and HIST 161 and 162 are required. Students entering the program who have not met the requirements will be expected to make them up in their junior and senior years.

Third and Fourth Years

The major in Russian and East European studies consists of an interdisciplinary core of seven courses (21 credit hours):
- SLAV 101, an introductory survey course
- RUSS 260, an interdisciplinary seminar
- Five additional courses distributed among three areas (at least one course in each area):
  - Course offerings from the Department of Slavic Languages and Literatures (beyond the required four semester courses in a language)
  - Courses pertaining to Russian and East European history: including HIST 260, 262, 515, 480, 477, 478, 481
  - CLAS 418, 246; ECON 267, 468; POLI 235, 236, 438; RUSS 263, 468, 694, 699; or other courses approved by the director

Honors in Russian and East European Area Studies

Majors who earn at least a 3.2 overall grade point average and at least a 3.5 grade point average in the major are eligible to become candidates for graduation with honors. Honors candidates must enroll in RUSS 693H and 694H (Honors in Russian and East European Studies) and defend an honors thesis. During their enrollment in these courses, students engage in original research and write and orally defend an honors thesis. Based on the faculty evaluation of their work, the baccalaureate degree may be conferred with honors or with highest honors. Students enrolled in RUSS Honors receive elective credit for RUSS 693H and major credit for RUSS 694H.

Special Opportunities in Russian and East European Area Studies

Study Abroad

Travel to Russia and Eastern Europe is a desirable part of student training. The curriculum encourages and supports a number of opportunities for summer and academic year study abroad, including programs in Russia, Czech Republic, Hungary, Poland, and Austria/Bosnia-Herzegovina. For more information about all these programs, contact the director or the UNC-Chapel Hill Study Abroad Office.

Libraries

The University has rich collections of books and periodicals on Russia and Eastern Europe in the relevant languages, as well as in English and other Western languages. Experts in the collection
development department of the Davis Library will help students locate materials they may need.

**Graduate School and Career Opportunities**

This program prepares undergraduate students for careers in foreign trade, the Foreign Service, or other branches of the federal government; non-governmental organizations (NGOs); journalism; library science; high school teaching, etc., as well as for graduate work in the various disciplines.

**Contact Information**

Dr. Robert M. Jenkins, Director, Center for Slavic, Eurasian and East European Studies, CB# 5125, 223 East Franklin St., (919) 962-0601. Web site: www.unc.edu/depts/slavic.

**RUES**


260 Crisis and Change in Russia and Eastern Europe (POLI 260, PWAD 260, SOCI 260) (3). Draws on historical, political, economic, and sociological perspectives to analyze social, cultural, and institutional change. Required for majors in the curriculum in Russian and East European studies, but open to all students.

263 [072] Environmental Field Studies in Siberia (ENST 263, GEOG 263, INTS 263) (4). This course explores the biogeography of Siberia and gives students practical training on how to do field work in field ecology and physical geography.

396 [099] Independent Study in Russian and East European Studies (1-21). Supervised study for students interested in Russian and East European studies.

469 [468] Conflict and Intervention in the Former Yugoslavia (PWAD 469) (3). Focuses on ethnic and political conflicts in the former Yugoslavia and efforts by the international community to end conflict and promote peace and reconstruction.

693H [097] Honors in Russian and East European Studies (3). Prerequisite, permission of the department. Independent research and writing of an honors thesis for students majoring in Russian and East European studies.

694H [098] Honors in Russian and East European Studies (3). Prerequisite, RUES 693H. Independent research and writing of an honors thesis for students majoring in Russian and East European studies.

699 [199] Selected Topics in Russian and East European Studies (3). Selected topics in Russian and East European studies. Varies by semester.

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**Department of Slavic Languages and Literatures**

[www.unc.edu/depts/slavicdept](http://www.unc.edu/depts/slavicdept)

**CHRISTOPHER R. PUTNEY, Chair**

**Professors**

Laura Janda, Madeline G. Levine.

**Associate Professors**

Lawrence Feinberg, Christopher R. Putney, Ivana Vuletic.

**Assistant Professor**

Radislav Lapushin.

**Lecturer**

Eleonora Magomedova.

**Professors Emeriti**

Paul Debrzeceny, Vasa Mihailovich.

**Introduction**

The Department of Slavic Languages and Literatures offers courses leading to the degrees of bachelor of arts, master of arts, and doctor of philosophy. The undergraduate programs leading to the B.A. in Slavic languages and literatures are made up of a series of courses in languages, literature, and linguistics that give the student a good knowledge of the Slavic/East European language of their specialization and a grounding in the most representative works of the Slavic/East European culture of their specialization. Courses in Czech, Hungarian, Polish, and Serbian and Croatian are offered within the department.

The department offers two undergraduate tracks leading to the B.A. in Slavic languages and literatures: a concentration in Russian language and culture, and a concentration in Slavic and East European languages and cultures. Both tracks provide preparatory training that will be useful in government employment, internationally oriented business, journalism, law, and teaching, among others, as well as for graduate study in a range of humanistic and social science disciplines.

The Department of Slavic Languages and Literatures offers instruction in many of the languages and literatures of Eastern Europe and the former Soviet Union (a vast multicultural region of enormous linguistic and cultural richness and complexity). For historical reasons, Russian remains the most important linguistic key to understanding, in its totality, the cultural and linguistic heritage of many of the peoples of the former USSR and Eastern Europe. Russian is also the language of one of the world's great literatures and provides an essential gateway for the study of the many other languages, literatures, and cultures of the Slavic world.

**Programs of Study**

The degree offered is bachelor of arts in Slavic languages and literatures, with a concentration in Russian language and culture, or in Slavic and East European languages and cultures. Minors are offered in Slavic and East European languages (inclusive of Russian language), Slavic and East European cultures, and Russian culture.

**Majoring in Slavic Languages and Literature: Bachelor of Arts**

**Major Track in Russian Language and Culture**

Requirements: Five courses in Russian language (RUSS 101, 102, 203, 204, and 321). Three more language courses (RUSS 406 and 407, third year Russian, and RUSS 322, third-year Russian conversation). Five additional courses selected from the Russian language, linguistics, literature, and literature/culture courses offered by the department. One of these five must be RUSS 250, an introduction to Russian culture with all readings in Russian. RUSS 250 is taught as an independent or small-group study by tenure-track faculty.

Students who participate in the study abroad program in Russia can earn some of the credit for the major during their Russian stay and should consult beforehand with the director of undergraduate studies about their program.
Major Track in Slavic and East European Languages and Cultures

Requirements: Five semesters in any target language, two semesters of any other Slavic language (Russian is strongly suggested), and five more courses selected from the Slavic/East European and Russian language, linguistics, literature, and literature/culture courses offered by the department. Of these five, one must be SLAV 250, an introduction to the non-Russian Slavic/East European culture of the candidate's specialization, with all reading in that national language. SLAV 250, like RUSS 250, is taught as an independent or small-group study by tenure-track faculty.

Students who participate in study abroad programs in Eastern Europe can earn some of the credit for the major during their stay and should consult beforehand with the director of undergraduate studies about their program.

Minoring in Slavic and East European Languages

Students are required to take five semesters of any Slavic or East European language (including Russian). Students who participate in the study abroad program in Russia or another East European country can earn some of the credit for this minor during their overseas stay.

Minoring in Slavic and East European Cultures

Students are required to take five courses in any aspect of any Slavic/East European culture (linguistics, literature, literature/culture). No foreign language courses are required.

Minoring in Russian Culture

Students are required to take five courses in any aspect of Russian culture (linguistics, literature, culture). No foreign language courses are required.

Honors in Slavic Languages and Literature

All majors with the appropriate grade point average are eligible to graduate with honors. They should ask the undergraduate advisor to enroll them in RUSS 691H-692H or SLAV 691H-692H to provide information about writing an honors thesis.

Special Opportunities in Slavic Languages and Literature

Departmental Involvement

The department hosts a wide array of events designed for student cultural enrichment – lectures, roundtables, films, and small conferences. It co-sponsors a variety of student clubs, including a Russian Club, a Polish Club, and a Slavic Club. The department regularly hosts a fall open house for all students interested in pursuing internship, study abroad, graduate study, and employment opportunities in Russia and East/Central Europe. Every spring the department presents a Slavic talent night or Spektakl', in which students give a wide variety of individual and group performances – skits, songs, puppet shows, plays, poetry readings – in the Slavic and East European languages they are learning in the program.

Study Abroad

Students are strongly encouraged to participate in a study abroad program, particularly once they have acquired sufficient language skills to benefit most from this immersion experience. Students can study on semester- or year-long programs in Russia, including in Moscow and St. Petersburg, while earning credit towards their Carolina degree. Students also have the possibility of participating in a summer program in Russia, such as the UNC in Moscow program at the Russian State University of the Humanities, which is led every year by a UNC faculty member.

UNC-Chapel Hill also has two programs in the Czech Republic (the Honors in Prague Program and the SIT Program in Arts and Social Change, also in Prague); and programs at the Jagiellonian University in Krakow, Poland. For more information, go to studyabroad.unc.edu.

Undergraduate Awards

Established in 1999, the Paul Debreceny Prize is awarded each spring to a graduating senior whose work in Russian language and literature or Slavic linguistics has been judged outstanding. This prize honors one of the founding faculty members of the Department of Slavic Languages and Literatures: Paul Debreceny, Alumni Distinguished Professor of Russian and Comparative Literature, emeritus. Membership in the UNC-Chapel Hill chapter of Dobro Slavo, the National Slavic Honor Society, is available to majors and minors who have completed two years (or equivalent) of study of Slavic languages, literature, culture, or related subjects, with a minimum average grade of B+.

Undergraduate Research

Students are encouraged to work on course-complementary or independent research projects with department faculty. Students eligible for honors study are encouraged to write a senior honors thesis in consultation with a faculty advisor.

Facilities

Students in Slavic and East European languages make use of a variety of online resources as well as the materials and labs available in the Foreign Language Resource Center on the first floor of Dey Hall.

Graduate School and Career Opportunities

A major in the department provides preparation for a number of advanced study programs, including Slavic and East European languages and literatures, comparative literature, linguistics, history, law, international business and management, international relations, and professional translation.

Courses about Central and Eastern Europe make up an important part of a liberal education, and a major in the department can provide excellent preparation for many career opportunities, particularly when the major is combined with courses in business, economics, political science, journalism, and other fields. The Department of Slavic Languages and Literatures is one among a very few academic departments in the United States that offer a wide range of critical and/or less commonly taught languages of Eastern Europe and the former USSR. People who know these languages are in particularly high demand in business and government careers.

Contact Information

Radislav Lapushin, Director of Undergraduate Studies, CB# 3165, 425 Dey Hall, (919) 962-1178. Web site: www.unc.edu/depts/slavdept.

BULG

401 [101] Elementary Bulgarian (3). Pronunciation, structure of language, and reading in modern Bulgarian.
402 [102] Elementary Bulgarian (3). Prerequisite, BULG 401 or permission of instructor. Pronunciation, structure of language, and reading in modern Bulgarian.

403 [103] Intermediate Bulgarian (3). Prerequisite, BULG 402 or permission of instructor. Continuation of the proficiency-based instruction begun in Elementary Bulgarian.

404 [104] Intermediate Bulgarian (3). Prerequisite, BULG 403 or permission of instructor. Continuation of the proficiency-based instruction begun in Elementary Bulgarian.

405 [105] Advanced Bulgarian (3). Prerequisite, BULG 404 or permission of instructor. Advanced readings and discussion in Bulgarian in humanities and social science topics.

406 [106] Advanced Bulgarian (3). Prerequisite, BULG 405 or permission of instructor. Advanced readings and discussion in Bulgarian in humanities and social science topics.

411 [111] Bulgarian Literature (3). Introduction to Bulgarian literature in English translation. Some readings in Bulgarian for students who can read the language.

CZCH


402 [102] Elementary Czech (3). Prerequisite, CZCH 401 or permission of instructor. Pronunciation, structure of language, and reading in modern Czech.

403 [103] Intermediate Czech (3). Prerequisite, CZCH 402 or permission of instructor. Continuation of proficiency-based instruction begun in Elementary Czech.

404 [104] Intermediate Czech (3). Prerequisite, CZCH 403 or permission of instructor. Continuation of proficiency-based instruction begun in Elementary Czech.

405 [105] Advanced Czech (3). Prerequisite, CZCH 404 or permission of instructor. Advanced readings and discussion in Czech in humanities and social science topics.

406 [106] Advanced Czech (3). Prerequisite, CZCH 405 or permission of instructor. Advanced readings and discussion in Czech in humanities and social science topics.

411 [111] Czech Literature (3). Introduction to Czech literature in English translation. Some readings in Czech for students who can read the language.

HUNG


402 [102] Elementary Hungarian (3). Prerequisite, HUNG 401 or permission of instructor. Pronunciation, structure of language, and reading in modern Hungarian.

403 [103] Intermediate Hungarian Language (3). Prerequisite, HUNG 402 or permission of instructor. Continuation of the proficiency-based instruction in Elementary Hungarian.

404 [104] Intermediate Hungarian Language (3). Prerequisite, HUNG 403 or permission of instructor. Continuation of the proficiency-based instruction in Elementary Hungarian.

425 [125] Topics in Hungarian Literature and Culture (3). Study of topics in Hungarian literature and culture not currently covered in any other course. The specific topic will be announced in advance.

MACD


402 [102] Elementary Macedonian (3). Prerequisite, MACD 401 or permission of instructor. Pronunciation, structure of language, and reading in modern Macedonian.

403 [103] Intermediate Macedonian (3). Prerequisite, MACD 402 or permission of instructor. Continuation of the proficiency-based instruction begun in Elementary Macedonian.

404 [104] Intermediate Macedonian (3). Prerequisite, MACD 403 or permission of instructor. Continuation of the proficiency-based instruction begun in Elementary Macedonian.

405 [105] Advanced Macedonian (3). Prerequisite, MACD 404 or permission of instructor. Advanced reading and discussion in Macedonian in humanities and social science topics.

406 [106] Advanced Macedonian (3). Prerequisite, MACD 405 or permission of instructor. Advanced reading and discussion in Macedonian in humanities and social science topics.

PLSH


402 [102] Elementary Polish (3). Prerequisite, PLSH 401 or permission of instructor. Pronunciation, structure of language, and reading in modern Polish.

403 [103] Intermediate Polish (3). Prerequisite, PLSH 402 or permission of instructor. Continuation of the proficiency-based instruction in Elementary Polish.

404 [104] Intermediate Polish (3). Prerequisite, PLSH 403 or permission of instructor. Continuation of the proficiency-based instruction in Elementary Polish.

405 [105] Advanced Polish (3). Prerequisite, PLSH 404 or permission of instructor. Advanced reading and discussion in Polish in humanities and social science topics.

406 [106] Advanced Polish (3). Prerequisite, PLSH 405 or permission of instructor. Advanced reading and discussion in Polish in humanities and social science topics.

411 [111] 19th-Century Polish Literature and Culture (3). A survey of the major works of 19th-century Polish literature and culture in English translation. Some readings in Polish for students who can use the language.

412 [112] 20th-Century Polish Literature and Culture (JWST 412) (3). A survey of the major works of 20th-century Polish literature and culture in English translation. Some readings in Polish for students who can use the language.

RUSS

101 [001] Elementary Russian (4). Introductory course designed to lay the foundation of grammar and to convey basic reading and pronunciation skills.

102 [002] Elementary Russian (4). Prerequisite, RUSS 101 or permission of instructor. Continuation of the introductory course
designed to lay the foundation of grammar and to convey basic reading and pronunciation skills.

203 [003] Intermediate Russian (3). Prerequisite, RUSS 102 or equivalent. Grammar-translation work with increasing proportions of free reading and oral work.

204 [004] Intermediate Russian (3). Prerequisite, RUSS 203 or equivalent. Grammar-translation work with increasing proportions of free reading and oral work.

213 [011] Intermediate Russian Conversation (2). Prerequisite, RUSS 102; corequisite, RUSS 203. Supplements the grammar presentations in RUSS 203. Basic conversational practice on topics relevant to Russia today.

214 [012] Intermediate Russian Conversation (2). Prerequisite, RUSS 203 and RUSS 213 or their equivalents; corequisite, RUSS 204. Continuation of RUSS 213.

244 [044] Selected Readings in Russian (1-12). Readings in Russian literature or linguistics on topics not usually covered in course work.

250 [050] Introduction to Russian Literature (3). Prerequisites, four semesters of Russian language or equivalent. Reading, discussion of selected authors in Russian aimed at improving reading skill and preparing the student for higher level work in Russian literature.

270 [070] Russian Literature of the 19th Century (3). Introduction to Russian prose fiction of the 19th century with particular consideration of selected writings of Pushkin, Gogol, Turgenev, Dostoevsky, and Tolstoy. Lectures and readings in English.

272 [072] Russian Literature from Chekhov to the Revolution (3). Literary situations and authors of 1880-1917, with emphasis on Chekhov and the Symbolists. Lectures and readings in English; some readings in Russian for majors.

273 [073] Russian Culture and Society: 1890-1917 (3). Examines the extraordinary diversity of turn-of-the-century Russian culture (1890s-1917); the proliferation of visual and performance arts; the rise of popular culture; new artistic explorations of gender and sexuality.

274 [074] Russian Literature after 1917 (3). Russian writers and literary problems from the Revolution to the present. Lectures and readings in English; selected readings in Russian for majors.

275 [075] Russian Fairy Tale (3). An introduction to the Russian fairy tale with attention to its roots in Russian folklore, its influence on Russian culture, and its connections with American folk and popular culture.

321 [021] Russian Conversation (3). Prerequisite, RUSS 204 or equivalent. Designed to develop conversational skills in a variety of situations and subjects. Russian used, except for a minimum of linguistic explanations or comment.

322 [022] Russian Conversation (3). Prerequisite, RUSS 321 or equivalent. Designed to develop conversational skills in a variety of situations and subjects. Russian used, except for a minimum of linguistic explanations or comment.

394 [094A] Russians View America (3). Exploration of Russian responses to the United States from the American Revolutionary War through the end of the Cold War. Course materials include fiction and nonfiction readings as well as films.

400 [100] The Evolution of Russian (3). This course traces the development of Russian from late common Slavic to contemporary Russian. Consideration is given to linguistic developments as well as cultural, social, and historical circumstances shaping contemporary Russian.

405 [101] The Structure of Modern Russian (3). Prerequisite, RUSS 400 or equivalent. For students who want a systematic understanding of the language. Synchronic analysis of contemporary standard Russian phonology, morphology, morphophonemics, semantics, and syntax.

406 [105] Advanced Russian Grammar (3). Prerequisite, RUSS 204. A comprehensive review of Russian grammar on an advanced level, emphasizing reading and writing skills.

407 [106] Advanced Russian Grammar (3). Prerequisite, RUSS 406. A comprehensive review of Russian grammar on an advanced level, emphasizing reading and writing skills.

411 [111] Advanced Russian Conversation and Composition (3). Prerequisite, RUSS 322, RUSS 407, or equivalent. Designed to develop conversational and writing skills in a variety of situations and subjects. Russian used, except for a minimum of explanations.

412 [112] Advanced Russian Conversation and Composition (3). Prerequisite, RUSS 411 or permission of instructor. Designed to develop conversational and writing skills in a variety of situations and subjects. Russian used, except for a minimum of linguistic explanations or comments.

413 Russian Stylistics (3). Prerequisite, RUSS 412 or equivalent. Advanced Russian conversation and composition, with appropriate grammatical and stylistic explanations. Can be taken repeatedly for credit, but only counts once toward degree requirements.

414 Russian Stylistics (3). Prerequisite, RUSS 413 or equivalent. Continuation of Russian Stylistics at a more advanced level.

425 [125] Topics in Russian Literature (3). Material not currently covered in any other course. The specific topic will be announced in advance.


435 [135] Literature and Music in Russia (3). Exploring the use of Russian composers have made of literary works and motifs, as well as the response of Russian writers to musical compositions and composers, and to music as an art form.


442 [142] From Cold War to Capitalism: Russian Literature and Culture, 1945-Present (3). A survey of major works of
Russian literature and culture from 1945 to the present. Readings in English translation. Some readings in Russian for qualified students.


464 [164] Dostoevsky (3). Study of major works of Dostoevsky and a survey of contemporary authors and literary trends relevant to his creative career. Readings in Russian for majors, in English for nonmajors.

465 [165] Chekhov (3). Study of major works of Chekhov and survey of contemporary authors and literary trends relevant to his creative career. Readings in Russian for majors, in English for nonmajors.

471 [171] Gogol (3). Study of major works of N. V. Gogol and a survey of contemporary authors and literary trends relevant to his creative career. Lectures and seminar discussions. Readings in Russian for majors, in English for nonmajors.

475 [175] Literature of Russian Terrorism: Arson, Bombs, Mayhem (PWAD 475) (3). Literary representations of Russian revolutionaries and terrorists in the 19th and early 20th centuries. Readings by Dostoevsky, Chernyshevsky, Bely, Joseph Conrad, and by some of the terrorists themselves.

479 [179] Tolstoy (3). Study of the major works of Tolstoy and a survey of contemporary authors and literary trends relevant to his creative career. Readings in Russian for majors, in English for nonmajors.

486 [186] Contemporary Russian Women's Writing (WMST 486) (3). A study of Russian women's writing after World War II, including both fictional and propagandistic works analyzed in their socio-political context. Serves as an introduction to Russian women's studies.

493 [193] Russian Short Story (3). An introduction to the Russian short story. The readings, in English for nonmajors and in Russian for majors, include works from the 17th century to the present.

511 [211] Russian Mass Media (3). Prerequisite, RUSS 412 or equivalent. Module 1. Fifth-year Russian, to expand and master the knowledge of the language necessary for understanding deep ongoing changes in different spheres of Russian society—political, social, economic, cultural, etc.

512 [212] Russian Mass Media (3). Prerequisite, RUSS 511 or equivalent. Module 2. Fifth-year Russian, to expand and master the knowledge of the language necessary for understanding deep ongoing changes in different spheres of Russian society—political, social, economic, cultural, etc.

513 Russian Culture in Transition I (3). Prerequisite, RUSS 412. Fifth-year Russian—to expand knowledge of the language necessary for understanding social changes that are taking place in Russian society—in literature, art, culture, and everyday human mentality.

514 Russian Culture in Transition II (3). Prerequisite, RUSS 412. Fifth-year Russian—continuing with the theme of RUSS 513 offered in fall semester. RUSS 513 is not a prerequisite.

560 [160] Russian Sentimentalism and Romanticism (3). Prerequisite, Russian 407. Survey of Russian sentimentalism and romanticism, with special attention to the intellectual currents of the period (c. 1770 to 1850). Consideration of Western precursors (Rousseau, Sterne, Byron, et al.) Readings in Russian.

691H [397] Honors Reading Course (3). Researching and writing of a thesis on an agreed-upon topic not covered by scheduled courses, under the direction of departmental advisors.

692H [398] Honors Reading Course (3). Researching and writing of a thesis on an agreed-upon topic not covered by scheduled courses, under the direction of departmental advisors.

SECR

401 Elementary Serbian and Croatian Language (3). Pronunciation, structure of the language, and readings in modern Serbian and Croatian language.

402 [102] Elementary Serbian and Croatian Language (3). Prerequisite, SECR 401 or permission of instructor. Pronunciation, structure of the language, and readings in modern Serbian and Croatian language.

403 [103] Intermediate Serbian and Croatian Language (3). Prerequisite, SECR 402 or permission of instructor. Continuation of the proficiency-based instruction begun in Elementary Serbian and Croatian language.

404 [104] Intermediate Serbian and Croatian Language (3). Prerequisite, SECR 403 or permission of instructor. Continuation of the proficiency-based instruction begun in Elementary Serbian and Croatian language.

405 [105] Advanced Serbian and Croatian Language (3). Prerequisite, SECR 404 or permission of instructor. Advanced readings and discussion in Serbian and Croatian language on humanities and social science topics.

406 [106] Advanced Serbian and Croatian Language (3). Prerequisite, SECR 405 or permission of instructor. Advanced readings and discussion in Serbian and Croatian language on humanities and social science topics.

411 [111] Introduction to Serbian and Croatian Literature (3). Introduction to Serbian and Croatian literature with an emphasis on 19th- and 20th-century prose.

SLAV

080 First Year Seminar: The Devil and the Problem of Evil in Russian Literature (3). An exploration of how the devil and other representatives of "unclean power" have been portrayed in over seven centuries of Russian literature. Readings include texts by Gogol, Dostoevsky, and Bulgakov.

081 First Year Seminar: Metaphor and the Body (3). All human beings inhabit a physical body, with inherent oppositions of inside/outside, up/down, and left/right. This course examines bodily experience as the wellspring of meaning.

082 [006M] First Year Seminar: Doctor Stories (3). Explores and reflects on the experience and significance of being a doctor in Russia and the United States, analyzing "doctors' stories" presented in fiction, nonfiction, film, and other media.

083 [006M] First-Year Seminar: The Actress: Celebrity and the Woman (3). Reflects on the experience, significance, and influence of the stage and motion picture actress in the modern era, analyzing her representation and reception in memoirs, biographies, fiction, and film.
084 [006M] First-Year Seminar: Terror for the People: Terrorism in Russian Literature and History (PWAD 084) (3). Terror was used as a political weapon in 19th-century Russia. This seminar introduces the terrorists through their own writings and fictional representations in novels by Fyodor Dostoevsky and Joseph Conrad.

085 [006M] First-Year Seminar: Children and War (PWAD 085) (3). Readings for this seminar include children’s wartime diaries, adult memoirs of child-survivors, and fiction from Eastern Europe and east Asia. Focused on WWII, but with attention to present-day conflicts.

086 [006M] First-Year Seminar: Literature and Madness (3). This course examines the ways in which modern European and American fiction, essays, and film construct representations of madness.

101 [030] Introduction to Slavic Civilizations: Peasants, Popes, and Party Hacks (3). Introduction to the essentials of Slavic cultures, including religion, literature, history, art, cinema, folklore, geography, and music. Course materials include films, slides, and recordings.

196 [032H] Peoples and Languages of Eastern Europe (3). The cultural diversity of Eastern Europe is examined through the emergence of competing religions, newly formed literary languages, and political controversies surrounding the birth of new languages and nations.

244 [044] Directed Readings in a Slavic Language (1-12). Prerequisite, permission of the instructor. Directed readings in a Slavic language other than Russian on topics in literature and linguistics not normally covered in scheduled courses.

248 [048] Childhood and Adolescence in Slavic Literature (3). Childhood and adolescence as portrayed in both fictional and autobiographical form by 19th- and 20th-century Russian, Polish, Czech, and other East European writers, including Tolstoy, Dostoevsky, Nabokov, I. B. Singer, Schulz, Milosz.

250 [050] Introduction to Non-Russian Slavic/East European Culture (3). Prerequisite, fourth semester of non-Russian Slavic/East European language or equivalent. Reading, discussion of selected authors in target literature aimed at improving reading and analytical skills and preparing the student for higher level work in target literature.

251 [094A] Ideology and Aesthetics: Marxism and Literature (GERM 251) (3). See GERM 251 for description.

306 [075] Language and Nationalism (LING 306) (3). This course focuses on language, identity, and nationalism in contemporary societies, with special emphasis on Europe, Africa, Asia, and the United States.

405 [105] Introduction to Slavic Linguistics (3). The phonological and morphological history of Slavic languages from the late Indo-European to the split of the common Slavic linguistic unity.

409 [109] Cognitive Linguistics (LING 409) (3). Development of and present state of research in cognitive linguistics. Readings discuss various language phenomena and are drawn from linguistics, psychology, philosophy, artificial intelligence, and literary analysis of metaphor.

463 [444] Medieval Slavic Culture (RELI 465) (3). Survey of medieval Slavic culture, beginning with Christianization in the ninth and 10th centuries. Themes include Byzantine missions, the replacement of paganism with Christianity, the oral traditions, and Slavic literary relations. Readings in English for non-Slavic concentrators.

464 [164] Imagined Jews: Jewish Themes in Polish and Russian Literature (JWST 464) (3). Explores the fictional representation of Jewish life in Russia and Poland by Russian, Polish, and Jewish authors from the 19th century to the present.

465 [165] Literature of Atrocity: The Gulag and the Holocaust in Russia and Eastern Europe (JWST 465, PWAD 465) (3). Literary representation in fiction, poetry, memoirs, and other genres of the mass annihilation and terror in Eastern Europe and the former Soviet Union under the Nazi and Communist regimes.

467 [167] Language and Political Identity (PWAD 467) (3). This course examines the roles of language policy and linguistic controversies in determining national identity and fueling political polarization. It focuses primarily on Western and Eastern Europe and Central Asia.

469 [169] Coming to America: The Slavic Immigrant Experience in Literature (JWST 469) (3). Fictional and autobiographical expressions of the Slavic and East European immigrant experience in the 20th century. Readings include Russian, Polish, Jewish, and Czech authors from early 1900s to present.

470 [170] 20th-Century Russian and Polish Theater (3). A comparative survey of the major trends in 20th-century Russian and Polish dramaturgy and theatrical production, with attention to aesthetic, professional, and political connections between the two.

490 [125] Topics in Slavic Literature (3). Comparative study of topics in non-Russian Slavic literatures and culture not covered in any other course. Specific topics will vary and will be announced in advance.


560 [160] Reading Other Cultures: Issues in Literary Translation (CMPL 560) (3). Prerequisite, reading knowledge of a language other than English. Starting from the proposition that cultural literacy would be impossible without reliance on translations, this course addresses fundamental issues in the practice, art, and politics of literary translation.


691H [397] Honors Reading Course (3). Research and writing of an honors thesis. For students majoring in Russian and East European studies.

692H [398] Honors Reading Course (3). Research and writing of an honors thesis. For students majoring in Russian and East European studies.
Department of Sociology
www.unc.edu/depts/soc

HOWARD E. ALDRICH, Chair

Professors

Associate Professors

Assistant Professors
Neil Caren, Margarita Mooney, Lisa Pearce.

Adjunct Professors

Adjunct Associate Professor
Catherine Zimmer.

Adjunct Assistant Professor
Allan M. Parnell.

Adjunct Instructors
Paul Biemer, Anne S. Hastings, Christopher Krebs.

Professors Emeriti
Amos H. Hawley, Henry A. Landsberger, Gerhard Lenski, Duncan MacRae, Anthony R. Oberschall, John Shelton Reed, Richard L. Simpson, James A. Wiggins.

Introduction
Sociology is a liberal arts major, designed to offer its students a broad education in critical thinking, analytical problem solving, reasoned judgment, and effective communication. Only a few majors go on to become professional sociologists with Ph.D.s in the field. What matters as much about a sociology major as what you can do with it, is what it can do for students: it can help you to become a well-rounded person, equipped with the versatile skills and abilities of a liberal arts education, well prepared to negotiate the complexities of contemporary societies in order to pursue a thoughtful, purposeful life and a variety of vocational callings and careers.

The department's major is designed to train students in sociological fundamentals, yet it is receptive to diverse perspectives and interdisciplinary approaches. Departmental majors commonly combine their interests in sociology with courses in other disciplines and programs, such as history, African-American studies, anthropology, political science, religious studies, and business. The Sociology Department is the primary home for UNC-Chapel Hill's major in management and society and minors in social and economic justice and the study of Christianity and culture. Information about both majors is listed beneath the course descriptions below.

The department encourages its students to study issues from a variety of perspectives, and its curriculum is flexible enough to permit students to tailor their program to fit individual needs and interests. The major requirements allow students substantial flexibility in meeting their individual intellectual interests and goals.

The undergraduate sociology program is structured to provide students with opportunities to put sociological ideas into practice through research by means of independent studies, theses, and community internships. The department also urges students to put their training to practical use by serving others. Most broadly, the sociology major offers strong preparation in analytical skills and broad knowledge of human relations and social systems, providing many useful tools for the development of a variety of careers.

Programs of Study
The degree offered is bachelor of arts in sociology. Minors are offered in social and economic justice and the study of Christianity and culture. Information about the bachelor of arts in management and society is provided under that heading.

Majoring in Sociology: Bachelor of Arts
Majors are required to take SOCI 101 as the introductory course. If possible, it should be taken by the end of the sophomore year. This course, in which a C grade or higher must be earned, can be used to satisfy a General Education SS requirement.

The major itself consists of eight additional sociology courses, which normally include the following:

- three specific required courses, SOCI 250 and 251-252 (a two-course sequence); these should be taken, if possible, during the junior year.
- three 400-level courses, and
- two other sociology courses.

With special permission, SOCI 290 or 396 may be accepted as a substitute for one of the 400-level courses.

First-year seminar courses in sociology can be used in the major but may be taken only by first-year students.

Any sociology course taken to satisfy General Education Approaches requirements may not be used as one of the eight courses in the major itself (e.g., if SOCI 250 is used for the General Education PH requirement, another sociology course must be taken to complete the eight-course major). Students must earn grades of C or better in at least 18 hours in the major, as well as in the introductory course.

Students pursuing a degree in the School of Education may use SOCI 101 to fulfill the SS Approaches requirement and should consult with the School of Education about the additional requirements.

Course Concentrations
The Department of Sociology does not offer concentrations in specific fields (other than the minors in social and economic justice and Christianity and culture). However, the department does offer the following classes especially relevant to these career areas:

Business and Industry: SOCI 311, 251, 252, 273, 410, 415, 427, 443
International Affairs and Development: SOCI 380, 413, 418, 420, 450, 453
Education: SOCI 101, 280, 423
Law: SOCI 122, 123, 133, 273, 420, 242, 441, 443
Public Policy: SOCI 133, 273, 414, 415, 420, 422, 424, 429, 468
Community Service: SOCI 133, 273, 411, 412, 421, 427, 441, 443, 445, 468
Medicine and Public Health: SOCI 251, 252, 422, 431, 468, 469
Religious Ministry, Community Organizing, and Advocacy: SOCI 101, 273, 411, 421, 425, 441, 443, 445

Minor in Social and Economic Justice
The minor in social and economic justice is designed for students who want to better understand how to think analytically about issues of justice and how perspectives on justice can be joined with the pursuit of it. An overarching objective is fostering attitudes and knowledge about human rights; racial, ethnic, and gender equality;
economic justice; democratic participation; sustainable development; diversity; and peace. It is especially appropriate for students who anticipate working in advocacy roles in nonprofit organizations, in local communities, or in governmental organizations. In these inquiries about justice, students engage scholarship in a variety of disciplines and traditions of practice.

Students are required to meet one service-learning requirement, through APPLES, the University's service-learning program. This requirement can be met in one of three ways. First, a student may take a course that includes a service-learning (APPLES) component. Second, a student may take a three-credit (summer or academic term) independent studies or special topics course with a faculty member and coordinated with the APPLES office as an internship. Third, a student may take the one-credit spring-break course, Special Studies 390, offered through the APPLES office. It meets the service-learning requirement but not a course requirement. Minors who wish to pursue other community and social action programs (without course credit) are encouraged to contact the Campus Y.

Four courses are required: SOCI 273 (Social and Economic Justice) and two additional courses, each from a different area listed below. The fourth course can be selected from any of the three areas. Thus, the minor is fulfilled with 12 to 13 credits, depending on whether the service learning requirement is part of a three-credit course or is fulfilled in another way (as Special Studies 390 or as a component of a course not listed below).

A student may major in sociology and minor in social and economic justice; however, a student cannot have more than 45 hours in one department. All college requirements about minors apply. In addition, courses that a student is using to meet a General Education Approaches requirement cannot also be used to meet a minor requirement.

**Understanding Justice**

- AFAM 428 Bioethics in Afro-American Studies
- AFRI 430 (AFAM 430, WMST 430) Comparative Studies in Culture, Gender, and Global Forces
- ANTH 322 Anthropology and Human Rights
- ANTH 248 Anthropology and Public Interest
- ANTH 686 Schooling and Diversity
- ECON 267 Comparative Economic Systems*
- ECON 385 Women and Economics
- PHIL 170 Social Ethics and Political Thought
- PHIL 280 Morality and Law
- PHIL 275 (WMST 275) Philosophical Issues in Feminism
- PHIL 480 Philosophy of Law
- PHIL 476 Recent Developments in Political Philosophy*
- POLI 206/206H Ethics, Morality, Individual Liberty and the Law
- POLI 276/276H Major Issues in Political Theory
- POLI 265 (WMST 265) Feminism and Political Theory
- POLI 472 Problems of Modern Democratic Theory
- SOCI 122 Race and Ethnic Relations
- SOCI 344 (WMST 444) Race, Class, and Gender
- SOCI 469 Medicine and Society

**Justice in Action**

- AFRI 430 (AFAM 430, WMST 430) Comparative Studies in Culture, Gender, and Global Forces*
- AFRI 396 (AFAM 396) Methods for Community Analysis and Mobilization
- ANTH 142 Local Cultures/Global Forces
- ECOL 380 Conservation and Sustainable Development*
- ECON 465 Economic Development*
- GEOG 225 (WMST 225) Space, Place and Difference
- GEOG 458 Urban Latin America*
- HIST 365 The Worker and American Life
- INST 210 (HIST 210) Global Issues in the 20th Century
- JOMC 141 Professional Problems and Ethics
- JOMC 344 Censorship
- JOMC 448 Freedom of Expression
- JOMC 340 Introduction to Mass Communication, Law, and Ethics
- POLI 414 The Adversary System
- PLCY 325 Internship and Public Policy Analysis
- PLCY 361 (POLI 367) Health, Politics, and Policy
- SOWO 480 Public Service and Social Change
- WMST 293 Gender and Imperialism*
- WMST 290 (INTS 290) Gender and Global Change

Independent studies or special topics course (three credits) with an appropriate faculty member and coordinated with APPLES (summer or academic semester)

**The Context of Justice**

- ANTH 103 Anthropology of Globalization
- ANTH 280 War and Society (PWAD 280)
- AMST 293 Appalachia and America: Special Topics
- ECON 460 International Economics* (PWAD 460)
- ECON 586 Economics of the Family*
- ECON 480 Labor Economics*
- ENGL 265 Literature and Theories of Race and Ethnicity
- GEOG 123 Social Geography
- HIST 110 (AMST 110) Cultures and History of Native North America
- HIST 362 (WMST 362) Women in American History
- HIST 490 Special Topics - Ecological History in Africa
- HIST 589 History of Afro-Americans to 1865
- JOMC 441 Women and Mass Communication
- JOMC 442 Minorities and Communication
- PLCY 520 Environment and Development
- POLI 217 Women and Politics
- POLI 218 Politics of Sexuality
- RECR 470 Leisure in Diverse Societies
- SLAV 306 (LING 306) Language and Nationalism
- SOCI 124 (WMST 124) Sex and Gender in Society
- SOCI 412 Social Stratification

Special Studies 390 meets the service-learning requirement, but as a one-credit course, is not included in the four-course requirement. These courses have departmental requirements that may or may not be waived. Students should consult course descriptions and discuss requirements with the instructor.

**Honors in Sociology**

The department attempts to identify and invite all qualified students to participate in the senior Honors Program. Students who are not contacted, especially double majors, transfer students, and students who declare their major in sociology relatively late in their college careers, are encouraged to consult with their major advisor or the department's honors advisor no later than the pre-registration period during the second semester of their junior year.

To graduate with honors in sociology, a major must meet the following requirements:
1. at least a 3.2 cumulative grade point average in major courses and
   all courses taken at the University;
2. completion of an honors thesis based on independent study,
   which may involve collection of data by the student, under the
   supervision of a faculty thesis advisor;
3. participation in an honors seminar program during the fall and
   spring semesters of the senior year for May graduates and during
   the final fall semester for December graduates.

Students may receive credit for one or both senior honors
research and seminar courses (SOCI 691H and 692H) depending on
the extent of their thesis work.

For more information on honors, contact: Dr. Kenneth (Andy)
Andrews, CB# 3210, 155 Hamilton Hall, (919) 843-5104,
kta@unc.edu. Web site: www.unc.edu/depts/soc.

Special Opportunities in Sociology

Departmental Involvement

The Sociology Club is a student-run, student-driven organization
that may provide relevant presentations, discussions, guidance, and
/or service opportunities.

Independent Study and Reading

SOCI 396 (Independent Study and Reading) may be taken for one
to three hours of course credit depending on the amount of academic
work planned by the student. It is usually taken by juniors and
seniors who have completed at least two or three courses in sociology.
Students may use independent study to:
1. do reading and research in an area in which no course is offered;
2. take advanced or more specialized course work in a specific area
   of sociology;
3. combine employment and study in the form of an internship pro-
   gram for which they receive academic credit; if an internship is
   planned, the student must assume responsibility for employment
   arrangements.

After an area of study has been selected, the student contacts a
faculty member in the department whose interests are in or related
to the topic area. If the faculty member agrees to direct the student's
independent study, the student needs final approval by the depart-
ment's director of undergraduate studies. It is the student's and fac-
yulty supervisor's responsibility to determine the amount of reading
and/or outside work to be done by the student, the frequency with
which the student's progress will be assessed, and the papers or
examinations that will comprise the course requirements. Some
written work involving sociological analysis is required to receive
credit for this course.

Study Abroad

Students interested in pursuing research and experiences abroad
are encouraged to look into the many opportunities afforded
through UNC-Chapel Hill's Study Abroad Office: studyabroad.
unc.edu/studyabroad.cfm.

Undergraduate Award

The Undergraduate Howard W. Odum Award is presented yearly
to a graduating senior who has displayed excellence in undergraduate sociological achievement.

Undergraduate Research

Students interested in working with faculty on their research
projects should contact the Office of Undergraduate Research for
more information and also speak with the director of undergradu-
ate studies.

Graduate School and Career Opportunities

Sociologists are employed by research institutes, public health
and welfare organizations, social work agencies, private businesses,
law firms, international agencies, medical centers, educational insti-
tutions, advertising firms, survey and polling organizations, and the
criminal justice system. Others work in politics and government and
in community and social justice organizing.

Sociology also provides preparation for going on to law, medical,
or business school and for graduate degree programs in social work,
education, public policy, religious ministry, mass communications,
public health, nonprofit administration, and international affairs. Of
course the sociology major prepares interested undergraduates for
graduate studies in sociology, should they choose to continue in the
field to become researchers or teachers in high schools, two-year col-
leges, four-year colleges, or research universities. Students interested
in pursuing graduate studies in sociology after college may, with
instructor's permission, enroll in graduate level courses at UNC-
Chapel Hill.

Contact Information

For general information, contact the Department of Sociology
Main Office, 155 Hamilton Hall, CB# 3210, (919) 962-1007, fax (919)
962-7566, sociology@unc.edu. Web site: sociology.unc.edu.

For information on the minor in social and economic justice,
contact Dr. Judith Blau, Department of Sociology, 266 Hamilton
Hall, (919) 962-5603, jblau@email.unc.edu. Web site: https://
sociology.unc.edu/programs/undergrad/sej.

SOCI

050 [006E] First-Year Seminar: Religion in American Public
Life (3). This course will engage philosophical and sociological
questions in order to explore the key issues involved in the con-
tentious question of the actual and proper role of religion in
American public life.

051 First-Year Seminar: Emotion and Social Life (3). The
course will examine these social aspects of emotional experience
including current debates among sociologists and psychologists
about the social functions of emotions.

052 [006E] First-Year Seminar: Social Inequality Across
Space and Time (3). This course focuses on social inequality in
human societies by looking at social inequalities in different histori-
cal periods and geographical locations.

053 [006E] First-Year Seminar: The Consequences of
Welfare Reform and Prospects for the Future (3). This first
year seminar is designed to (1) research and document the con-
sequences of welfare reform and (2) participate in the political debate
over reauthorization of the welfare law.

054 [006E] First-Year Seminar: Good Jobs, Bad Jobs, No
Jobs: Work and Workers in 21st-Century America (3). The
course examines the nature and meaning of work in America at the
beginning of the 21st century.

of Reality (3). What does it mean to say that reality is "socially con-
structed?" How do people in different social groups develop shared
perspectives? In exploring answers to these questions (and others)
the course will also examine the self from a sociological perspective.

takes on new meaning in a global context. This course examines cur-
rent debates, examples of human rights charters, and students apply what they learn to sociological topics.

057 [006E] First-Year Seminar: Rationalization and the Changing Nature of Social Life in 21st-Century America (3). Today, fast food restaurants have become a model for everyday life. Some scholars have even talked about the “McDonaldization” of the nation and the world. By that scholars mean a drive toward greater efficiency, predictability, calculability, and control by technologies in modern organizations. Sociologists have a term for this process: “rationalization,” which will be examined in this course.

058 First-Year Seminar: Globalization, Work, and Inequality (3). This course will present a comparative and multidisciplinary perspective on how globalization affects labor markets and inequality.

059 [006E] First-Year Seminar: The Advocacy Explosion: Social Movements in the Contemporary U.S. (3). This course investigates the origins, dynamics, and influence of social movements in American society. It examines why people join movements, how movements work, and the way that movements are able to affect broader changes in our society.

060 [006E] First-Year Seminar: Sociology of the Islamic World (3). This course exposes students to the social, economic, political, and religious currents that have made the Islamic world one of the most important regions for global affairs, as well as one of the regions least understood in the United States.

061 [006E] First-Year Seminar: Innovative, Information Technology, and the Sociology of Business in 21st-Century America (3). This course investigates how innovations in information technology are transforming the nature of business and society in the United States. It also examines the history of work relationships in the United States in order to discover how information technology will change the role of employees and what it means to be a customer.

062 [006E] First-Year Seminar: Social Change and Changing Lives (3). Society shapes our lives and yet we seek to influence the direction of our biographies through personal effort (also called “agency”). This course examines the dynamics between society and agency which becomes especially interesting in times of social change, when societies redefine the paths that lives can take.

063 [006E] First-Year Seminar: Cooperation and Conflict (3). The course examines cooperation and conflict and applies it in a variety of settings where there is no state and legal system that enforces rules of conduct: initial and early encounters of Europeans and non-Europeans in the era of exploration of the Pacific when European ships arrived at islands such as Tahiti; settlements of migrants and colonists in a wilderness, such as the Puritans in New England and the Mormons in Utah; and the miners in the California gold rush of 1849, good Samaritans who rescue strangers despite risks, as some gentiles did to Jews in Nazi Europe.

064 [006E] First-Year Seminar: Equality of Educational Opportunity Then and Now (3). Brown v. Board of Education Topeka, Kansas centers on one of the most significant and controversial issues in American public education: ensuring equality of educational opportunity. This course examines the social conditions that led to the case and the educational landscape since that time, including school segregation and other factors associated with equality of educational opportunity.

066 First-Year Seminar: Citizenship and Society in the United States (3). Americans are taught that democracy and citizenship go hand in hand: being a good citizen may mean voting, writing letters, and taking other actions to “make one’s voice heard.” This course examines what citizenship has meant during the course of American history.

067 First-Year Seminar: America in the 1960s (3). The 1960s were a period of great social upheaval. The course will examine many aspects of American culture: how we organized racial and gender relations, how we expressed our morality through music, art, and film, how we thought about God and spirituality, and how we practiced politics, among others. It will also at the roots of the 1960s in the events of the 1940s and 1950s and examine a few of the legacies.

068 First-Year Seminar: Immigration in Contemporary America (3). The course examines the great waves of European migration at the turn of the 20th century and reviews the emergence of Latino and Asian migration flows to the United States after 1965, and the contemporary movement of migrant agricultural workers to North Carolina. It looks at why people migrate, how citizens respond to that migration, how the federal government regulates migration, how local communities manage the settlement of its newcomers.

101 [010] Sociological Perspectives (3). Introduction to sociology as a discipline that includes study of differences and equality, social structure and institutions, culture, social change, individuals and populations, and social psychology.

111 [011] Human Societies (3). Introduction to comparative sociology. The major types of society that have existed or now exist are analyzed, together with major patterns of social change.

112 [012] Social Interaction (3). The individual in society. An examination of how people conduct their interactions with others in different kinds of social relationships. Emphasis on the social psychological causes and consequences of such conduct.

115 [015] Regional Sociology of the South (3). Description and analysis of social aspects of the American South. Emphasis is on recent development and its effects on institutions and culture.

121 [021] Population Problems (3). Social and economic causes of population structure and change. Illustrations drawn from developing countries and the less developed regions and sections of the United States.

122 [022] Race and Ethnic Relations (3). Examination of dominance and subordination in general and in specific institutional areas (e.g., economy, polity) along racial and ethnic lines. Causes of changes in the levels of inequality and stratification are also studied.

123 [023] Crime and Delinquency (3). The nature and extent of crime and delinquency; emphasis upon contemporary theories of their causation; examination of correctional programs.

124 [024] Sex and Gender in Society (WMST 124) (3). Examination of the social differentiation between men and women. Attention to the extent, causes, and consequences of sexual inequality and to changes in sex roles and their impact on interpersonal relations.

130 [030] Family and Society (3). Comparative analysis of kinship systems and family relations. Courtship, marriage, and parent-
child relations viewed within a life-cycle framework. Students may not receive credit for both this course and SOCI 425.

131 [031] Social Relations in the Workplace (MNGT 131) (3). Meaning and content of work in modern industrial society. Preparation for work; autonomy and control; inequality; consequences for health, safety, and family life.

133 [033] Sociology of Politics (3). Patterns of participation in political institutions; public policy; conflict within and between communities and other interest groups; the nature of citizenship in modern society; politics and social change.

140 [040] Historical Sociology of Christianity (RELI 234) (3). Prerequisite, SOCI 101. Takes a historical sociology approach to the study of Christianity, to better understand the sociological perspective on human history and social life. Begins examining the social conditions that helped give rise to the early Christian movement, follows Christianity as it influences and is influenced by social forces at key points in its historical development, and ends with a consideration of important contemporary developments around the globe.

165 [065] Introduction to Aging (1). This course sensitizes students to the diversity of the aging population and the aging experience; recognizes the capacity of older adults for their contributions to society; and fosters intergenerational communication.


251 [051] Measurement and Data Collection (3). Required of sociology majors. Methods of data collection, with attention to problem selection, sources of information, choice of methods, and research design. Operationalization and measurement; sampling, construction of questionnaires, and interviewing; observation techniques; experimentation.


257 [090] Society and Culture in Postwar Germany (GERM 257, HIST 257, POLI 257) (3). The interdisciplinary, team-taught seminar will explore cultural, historical, and political problems of contemporary Germany and analyze German developments from the postwar period to the present. Taught in English.


265 [165] Population and Environment in Southeast Asia (3). Sociological, biophysical, geographical elements are integrated to examine population-environment interactions in Thailand and neighboring countries. Diverse data sources and perspectives will examine local to global issues.

273 [068] Social and Economic Justice (POLI 273) (3). Covers theory and practice of social and economic justice, including analyses of racial-gender-ethnic-class-national and other forms of justice, the history of influential movements for justice, and strategies of contemporary struggles.

290 [095] Special Topics in Sociology (3). Periodic offering of courses on developing topics in the field.

380 [080] Social Theory and Cultural Diversity (3). Introduction to basic paradigms of thinking about cultural difference (race, gender, nationality, religion, etc.), encouraging students to examine how these paradigms shape how we act, think, and imagine as members of diverse cultures.

390 [199] Sociological Analysis: Special Topics (3). Examines selected topics from a sociological perspective. Course description for a particular semester is available in the department office.

396 [092] Independent Study and Reading (1-6). Prerequisite, permission of instructor and director of undergraduate studies. Special reading and research in a selected field under the direction of a member of the department.

410 [110] Formal Organizations and Bureaucracy (MNGT 410) (3). Varieties of organizational forms, their structures and processes; creation, persistence, transformation, and demise; role of organizations in contemporary society.

411 [111] Social Movements and Collective Behavior (3). Study of nonroutine collective actions such as demonstrations, strikes, riots, social movements and revolutions, with an emphasis on recent and contemporary movements.

412 [112] Social Stratification (MNGT 412) (3). Analysis of social structure and stratification in terms of class, status, prestige, and rank. Attention to social roles of elites, professionals, the middle class, and the working class and to comparative topics.

414 [114] The City and Urbanization (3). The city as a social, spatial, and political-economic phenomenon in the modern world. Analysis of urban demographic trends, spatial characteristics and economic functions. Substantive topics include segregation, social turmoil, unemployment, fiscal problems, suburbanization, and urban public policy.

415 [115] Economy and Society (MNGT 415) (3). Examination of the structure and operation of institutions where economy and society intersect and interact, such as education, industrial organizations, on-the-job training, labor markets, and professional associations. Emphasis on the contemporary United States, with selected comparisons with Western Europe and Japan.

419 [119] Sociology of the Islamic World (3). Investigates issues such as tradition and social change, religious authority and contestation, and state building and opposition in Muslim societies in the Middle East and around the world.

420 [120] Political Sociology (3). Analysis of the reciprocal influences of state and social organizations upon each other; the social bases of political authority and stability, of revolution and counter-revolution.

422 [122] Sociology of Health and Mental Illness (3). Course examines uniqueness of the sociological perspective in understanding mental health and illness. It draws upon various fields to explain mental illness in as broad a social context as possible. Attention focuses on how social factors influence definitions and perceptions of illness.

423 [123] Sociology of Education (3). An overview of theory and research on education and schooling, with an emphasis on inequalities in educational opportunities, education as a social institution, and the changing context of schools and schooling.
Law and Society (3). A sociological analysis of comparative legal systems, the role of law in social change and in shaping social behavior. Topics may include the legal profession; property distribution; and the role of law in achieving racial and sexual justice.

Family and Society, Junior/Senior Section (3). A special version of SOCI 130 for juniors, seniors, and beginning graduate students. Students may not receive credit for both this course and SOCI 130.

The Labor Force (MNGT 427) (3). Supply and characteristics of labor and of jobs, including industrial and occupational changes, education and mobility of labor, and changing demography of the workforce.

Sociology of Art (3). Connections between artworks, art theory, and social theory are examined. Approaches in the fine arts and the social sciences are examined.

Religion and Society (RELI 429) (3). Sociological analysis of group beliefs and practices, both traditionally religious and secular, through which fundamental life experiences are given coherence and meaning.

Aging (3). The process of aging from birth to death, with a concentration on the later years of life, examined from a broad perspective. Topics include individual change over the life course, the social context of aging, and the aging of American society.

Comparative European Societies (POLI 439) (3). Examination of commonalities and differences of European societies and of the tensions and difficulties attending the European integration process.

Conflict and Bargaining (PWAD 442) (3). Conflict and conflict-resolution behavior. Applications to labor-management relations, family, sports, community politics, international relations.

Race, Class, and Gender (WMST 444) (3). Conceptualizations of gender, race, and class and how, separately and in combination, they are interpreted by the wider society. Emphasis on how black and working-class women make sense of their experiences at work and within the family.

Sociology of Emotions (3). The course examines how emotions are organized within social groupings and institutions. Differences in socialization by gender, ethnicity, social class, and age will be explored.

Theory and Problems of Developing Societies (3). Theories concerning the development process (motivational vs. institutional economics vs. political and social development; similarity of sequential states and outcomes) will be related to policy problems facing the developing nations.

Social Change in Latin America (3). Introduction to Latin American ideologies and values; economic and demographic changes; major pressure groups (old elites, entrepreneurs, peasants and working classes, military and intellectuals); and relations with the United States.

Contemporary Social Theory (3). Prerequisite, SOCI 250. Analysis of current problems in general social theory; action and structure, justice and equity, social change and reproduction. Contrast and evaluation of leading approaches to solutions.

United States Poverty and Public Policy (3). This course examines issues of poverty and social policy, single-mother families, the welfare debate, and homelessness. Students are required to participate in the APPLES service-learning program as part of the course.

Medicine and Society (3). The primary objective of the course is to explain why particular social arrangements affect the types and distribution of diseases and how the medical care system is organized and responds. The course will focus on three topics: social factors in disease and illness; health care practitioners and their patients; and the changing face of the health care system.

Managing International Conflict (3). This course introduces the principles of international cooperation and conflict resolution; theories of how international agreements develop or break down; and the logic of mediation, arbitration, and negotiation.

Senior Honors Research and Seminar (3). Prerequisite, permission of department. 691H is required of senior honors candidates. Individual student research (under supervision of a faculty advisor). Periodic seminars to discuss work on honors thesis, as well as special topics in sociology.

Senior Honors Research and Seminar (3). Prerequisite, SOCI 692H. Individual student research (under supervision of a faculty advisor). Periodic seminars to discuss work on honors thesis, as well as special topics in sociology.

Department of Statistics and Operations Research
www.stat-or.unc.edu

VIDYADHAR KULKARNI, Chair
Jon W. Tolle, Head, Mathematical Decision Sciences Program

Professors

Associate Professors
Chuan Shu Ji, Gabor Pataki.

Assistant Professors
Nilay Argon, Yufeng Liu, Viladas Pipiras, Haipeng Shen, Zhengyuan Zhu, Serhan Ziya.

Lecturer
Charles Dunn.

Adjunct Professors

Professors Emeriti

Introduction
The Department of Statistics (STAT) and the Department of Operations Research (OR) were merged on July 1, 2003, to create the Department of Statistics and Operations Research (STOR). The undergraduate program associated with this merged department leads to a degree in the mathematical decision sciences. This program offers an excellent undergraduate major or minor for students
interested in actuarial science, operations research, probability, and statistics, as well as in such fields as business, economics, planning, psychology, and biomedicine where the decision and statistical sciences play an increasingly important role.

Particular areas in which graduates can either obtain employment or go on to graduate school include:

**Actuarial Science:** Actuaries are mathematicians who work primarily in the insurance industry or related businesses or governmental agencies. Students interested in this field take advanced courses in statistics, stochastic processes, and the mathematical theory of risk.

**Statistics:** Probability and statistics are two of the most important subjects in the mathematical sciences for practical applications. Students in this area study the mathematical theories of probability and statistics and their application to mathematical models that contain an element of uncertainty. Opportunities for employment are manifold, including positions with drug and insurance companies as well as with government agencies.

**Operations Research:** In this area, students study the mathematics and statistical methodologies related to decision making. This branch of the mathematical sciences is extremely important in business, government, and other management areas where difficult problems that depend on large amounts of data are addressed (for example, complex airline route schedules). In addition to their major courses, students interested in this field are encouraged to take courses in business and economics.

**Program of Study**

The degree offered is bachelor of science in mathematical decision sciences. A minor is also available.

**Majoring in Mathematical Decision Sciences: Bachelor of Science**

In the first two years of the program, students are required to complete the standard calculus sequence as well as introductory courses in statistics, operations research, and computer science. At the beginning of their third year, students take advanced courses in statistics, probability, and operations research. They have a great deal of flexibility in tailoring their program to meet their individual interests.

**First and Second Years**

All General Education requirements apply. In addition, a foreign language must be completed through level 4. (Level 4 may be taken Pass/D+/D/Fail if the student does not place into level 4.) The following courses are required.

- **STOR 155** Introduction to Statistics
- **STOR 215** Introduction to the Decision Sciences
- **MATH 231, 232** Calculus of Functions of One Variable
- **MATH 233** Calculus of Several Variables
- **COMP 110 or 116** (COMP 116 is recommended)

It is recommended that all MDS majors take ECON 101 as a Social and Behavioral Sciences Approaches course. Students interested in the actuarial profession also should take BUSI 100 as a general elective.

*Prospective MDS majors are encouraged to take STOR 155 and 215 as early as possible in their college careers. Each has a prerequisite of MATH 110 or its equivalent and may be taken before, or concurrently with, MATH 231.

**Third and Fourth Years**

The following courses must be taken by all majors:

- **MATH 547** Matrix Theory
- **STOR 355 Statistical Methods I**
- **STOR 356 Statistical Methods II**
- **STOR 415 Deterministic Models in Operations Research**
- **STOR 435 Introduction to Probability**
- **STOR 445 Stochastic Models in Operations Research**

In addition, all majors must take four courses from the following two groups of courses, including at least two from group A:

**Group A**

- **STOR 305 Decision Making Using Spreadsheet Models**
- **STOR 372 Actuarial Science I**
- **STOR 472 Actuarial Science II**
- **STOR 465 Simulation Analysis and Design**
- **STOR 515 Computational Mathematics for Decision Sciences**
- **STOR 555 Mathematical Statistics**
- **STOR 582 Neural Network Models for the Decision and Cognitive Sciences**

**Group B**

- **BIOL 526**
- **BIOS 664**
- **BUSI 408**
- **COMP 401, 410**
- **MATH 383, 521, 522, 523, 524, 548, 566**

**Students wishing to prepare for an actuarial career should include the following courses from group A in their program:** STOR 372, STOR 472, and STOR 555; and take ECON 410, ECON 420, BUSI 408, and BUSI 580 as electives.

**Students who plan to attend graduate school in the mathematical sciences (e.g., in operations research or statistics) should include the following courses in their program:** STOR 555, COMP 401; and either MATH 521 or STOR 515.

Although mathematical decision sciences majors are exempt from the supplemental education requirements in the College of Arts and Sciences, they are required to take four elective courses outside of the departments that comprise the mathematical sciences (computer science, mathematics, and statistics and operations research). These courses may not be taken on the pass/fail option.

Mathematical decision sciences majors must complete 123 academic hours. They also must attain at least a grade of C (not C-) in 18 hours of their third and fourth year mathematical science courses.

**Minoring in Mathematical Decision Sciences**

Students wishing to minor in the mathematical decision sciences are required to take:

- **STOR 155 and STOR 215**
- Three courses from among STOR 305, 355, 356, 372, 415, 435, 445, 465, 472, and 555 that are not counted towards their major requirements.

**Honors in Mathematical Decision Sciences**

The mathematical decision sciences program offers the student the possibility of graduating with honors or highest honors. The requirements for an honors degree can be satisfied in a variety of ways but have a common basis in the minimal standards set by the College of Arts and Sciences. Students interested in graduation with honors should apply to the program director prior to the beginning of their senior year.

**Courses for Students from Other Departments**

The Department of Statistics and Operations Research offers a variety of courses of potential value to students majoring in other disciplines. Introductory courses include STOR 110, which intro-
duces elementary decision models for students with no college mathematics; STOR 112 and 215, which are foundation courses in decision models; and the basic statistical courses STOR 151 and 155. At the intermediate level, STOR 305 provides an introduction to business decision models while STOR 372 is an introductory course in actuarial science. Substantial coverage of applied statistical methods is provided in STOR 355 and 356. At more advanced mathematical levels, an introduction to probability theory is provided by STOR 435, and the basic theory of statistical inference is given by STOR 555. More advanced deterministic and stochastic models of operations research are provided in STOR 415 and 445.

**Special Opportunities in Mathematical Decision Sciences**

**Departmental Involvement**

The mathematical decision sciences program sponsors an undergraduate club, CASO, for students interested in a career in the actuarial sciences. CASO organizes study groups for the actuarial exams, sponsors talks by professional actuaries, and maintains contact with alumni in the field.

**Undergraduate Awards**

Two undergraduate awards for graduating seniors are given each year by the mathematical decision sciences program. One award is given to the outstanding senior major, and the second is the W. Robert Mann Award, given for excellence in actuarial science. Plaques bearing the names of winners are located in the undergraduate study room in Smith 103B.

**Undergraduate Research**

Undergraduate research under the direction of faculty members from the Department of Statistics and Operations Research is offered through the independent study and research courses (STOR 496 and 497). Students pursuing honors are encouraged to participate in these programs.

**Graduate School and Career Opportunities**

All tracks in the mathematical decision sciences degree program provide excellent preparation for graduate study. Graduates in operations research often continue work in such fields as statistics, operations research, industrial engineering, biostatistics, and environmental science at the graduate level or enter business school to pursue the master's in business administration (MBA) degree.

A five-year B.S.-M.S. degree program in operations research is also an available option. This program is under the direction of the Department of Statistics and Operations Research. Interested students should consult with the program director.

**Contact Information**

Mathematical Decision Sciences Office, CB# 3260, 102B Smith, (919) 962-2307, crogers@email.unc.edu. Web site: www.stat-or.unc.edu/programs/MDS.

**STOR**


In this course, we will investigate the structure of these decision problems, show how they can be solved (at least in principle), and solve some simple problems.

053 First-Year Seminar: Networks: Degrees of Separation and Other Phenomena Relating to Connected Systems (3).

Networks, mathematical structures that are composed of nodes and a set of lines joining the nodes, are used to model a wide variety of familiar systems: distribution networks such as electric power grids, anatomical networks such as neural systems, communication networks such as the world-wide web, and social networks representing relationships between cultural groups.

504 [006D] Statistical Decision-making Concepts (3). Basic statistical decision-making procedures (for prediction, estimation, and relationships), along with their associated errors and losses; the effects of randomness. Use of computer simulation and physical experimentation.

056 [006E] First-Year Seminar: The Art and Science of Decision Making in War and Peace (3). This seminar will use recently assembled historical material to tell the exciting story of the origins and development of operations research during and after World War II.

508 [006F] First-Year Seminar: Networks (3). Networks, mathematical structures that are composed of nodes and a set of lines joining the nodes, are used to model a wide variety of familiar systems.

601 First-Year Seminar: Statistical Decision-making Concepts (3). We will study some basic statistical decision-making procedures and the errors and losses they lead to. We will analyze the effects of randomness on decision making using computer experimentation and physical experiments with real random mechanisms like dice, cards, and so on.

061 First-Year Seminar: Statistics for Environmental Change (3).

062 First-Year Seminar: Probability and Paradoxes (3). The theory of probability, which can be used to model the uncertainty and chance that exist in the real world, often lead to surprising conclusions and seeming paradoxes. These occurrences are studied using simple chance experiments and spreadsheet calculations.

603 First-Year Seminar: Statistics, Biostatistics and Bioinformatics: An Introduction to the Ongoing Evolution (3). This course is designed to emphasize the motivation, philosophy and cultivation of statistical reasoning in the interdisciplinary areas of statistical science and bioinformatics.

064 First-Year Seminar: A Random Walk Down Wall Street (3). Introduces basic concepts in finance and economics, useful tools for collecting and summarizing financial data, and simple probability models for quantification of market uncertainty.

066 First-Year Seminar: Visualizing Data (3). This seminar looks at a variety of ways in which modern computational tools allow easy and informative viewing of data. Students will also study the kinds of choices that have to be made in data presentation and viewing.

088 Statistics for Environmental Change (3).

072 First-Year Seminar: Unlocking the Genetic Code (3). Covers the origin and evolution of operations research from the WWI to its modern use in industry and government.

074 Statistics, Biostatistics, and Bioinformatics: An Introduction to the Ongoing Evolution (3).
105 Hands-On Modeling, Mathematics, and Computers (3). Prerequisite, MATH 110. Mathematical models and computer software for solving real-world problems. Introduces models such as graphs/networks, resource allocation, probability/uncertainty, and systems dynamics, as applied to problems in business, public policy, health/medicine, and sports/gambling.

112 Decision Models for Business (3). Prerequisite, MATH 110. An introduction to the basic quantitative models of business with linear and non-linear functions of single and multiple variables. Linear and non-linear optimization models and decision models under uncertainty will be covered.

113 Decision Models for Economics (3). Prerequisite, MATH 110. An introduction to multivariable quantitative models in economics. Mathematical techniques for formulating and solving optimization and equilibrium problems will be developed, including elementary models under uncertainty.

151 Basic Concepts of Statistics and Data Analysis I (3). Prerequisite, MATH 110 (or exemption). Elementary introduction to statistical reasoning, including sampling, elementary probability, statistical inference, and data analysis. STOR 151 may not be taken for credit by students who have credit for ECON 400 or PSYC 210.

155 Introduction to Statistics (3). Prerequisite, MATH 110 (or exemption). Data analysis; correlation and regression; sampling and experimental design; basic probability (random variables, expected values, normal and binomial distributions); hypothesis testing and confidence intervals for means, proportions, and regression parameters; use of spreadsheet software.

215 Introduction to the Decision Sciences (3). Prerequisite, MATH 110 or exemption. Introduction to basic concepts and techniques of decision making and information management in business, economics, and the social and physical sciences. Topics include discrete optimization, discrete probability, networks, decision trees, games, Markov chains.

305 Decision Making Using Spreadsheet Models (3). Prerequisite, STOR 155 or BUSI 024 or MATH 152. The use of mathematics to describe and analyze large-scale decision problems. Situations involving the allocation of resources, making decisions in a competitive environment, and dealing with uncertainty are modeled and solved using suitable software packages.

355 Statistical Methods I (3). Prerequisite, STOR 155. Review of basic inference; two-sample comparisons; correlation; introduction to matrices; simple and multiple regression (including significance tests, diagnostics, variable selection); analysis of variance; use of statistical software.

356 Statistical Methods II (3). Prerequisite, STOR 355. Topics selected from: design of experiments; sample surveys; nonparametrics; time-series; multivariate analysis; contingency tables; logistic regression; simulation. Use of statistical software packages.

358 Sample Survey Methodology (BIOS 664) (4). Prerequisite, STAT 355 or equivalent. Fundamental principles and methods of sampling populations, with primary attention given to simple random sampling, stratified sampling, and cluster sampling. Also, the calculation of sample weights, dealing with sources of nonsampling error, and analysis of data from complex sample designs are covered. Practical experience in sampling is provided by student participation in the design, execution, and analysis of a sampling project.

372 Long Term Actuarial Models (3). Prerequisites: MATH 232, STOR 215, and STOR 155. Probability models for long-term insurance and pension systems that involve future contingent payments and failure-time random variables. Introduction to survival distributions and measures of interest and annuities-certain.

415 Deterministic Models in Operations Research (3). Prerequisite, MATH 547. Linear, integer, nonlinear, and dynamic programming, classical optimization problems, network theory.

435 Introduction to Probability (MATH 435) (3). Prerequisite, MATH 233. Introduction to mathematical theory of probability, covering: random variables, moments, binomial, Poisson, normal and related distributions, generating functions, sums and sequences of random variables, and statistical applications.

445 Stochastic Models in Operations Research (3). Prerequisite, BIOS 660 or STOR 435. Introduction to Markov chains, Poisson process, continuous-time Markov chains, renewal theory. Applications to queueing systems inventory, and reliability, with emphasis on systems modeling, design, and control.

465 Simulation Analysis and Design (3). Prerequisite, STOR 435. Introduces concepts of random number generation, random variate generation, and discrete event simulation of stochastic systems. Students perform simulation experiments using standard simulation software.

472 Short Term Actuarial Models (3). Prerequisite, STOR 435. Short term probability models for potential losses and their applications to both traditional insurance systems and conventional business decisions. Introduction to stochastic process models of solvency requirements.

496 [090] Undergraduate Reading and Research in Statistics (1-21). Prerequisite, permission of director of undergraduate studies. This course is intended primarily for students working on honors projects. No student may receive more than three credit hours for this course.

497 Undergraduate Reading and Research in Operations Research (3). Permission of director of undergraduate studies required. This course is intended mainly for students working on honors projects. No one may receive more than three semester hours credit for this course.

515 Computational Mathematics for Decision Sciences (3). Prerequisite, permission of instructor. Reviews basic mathematical and computational theory required for analyzing models that arise in operations research, management science, and other policy sciences. Solution techniques that integrate existing software into student-written computer programs will be emphasized.

555 Mathematical Statistics (3). Prerequisite, STOR 435 or equivalent. Functions of random samples and their probability distributions; introductory theory of point and interval estimation and hypothesis testing; elementary decision theory.

582 Neural Network Models for the Decision and Cognitive Sciences (3). Prerequisite, one of PHIL 155, MATH 231, STOR 155, PSYC 210, STOR 215. The interactions between cognitive science and the decision sciences are explored via neural networks. The history of these networks in neuroscience is reviewed and their adaptation to other fields such as psychology, linguistics, and operations research is presented.
612 [210] Models in Operations Research (3). Prerequisite, calculus of several variables, linear or matrix algebra. Formulation, solution techniques, and sensitivity analysis for optimization problems which can be modeled as linear, integer, network flow, and dynamic programs. Use of software packages to solve linear, integer, and network problems.

614 [211] Linear Programming (3). Prerequisites, calculus of several variables, linear or matrix algebra. The theory of linear programming, computational methods for solving linear programs, and an introduction to nonlinear and integer programming. Basic optimality conditions, convexity, duality, sensitivity analysis, cutting planes, and Karush-Kuhn-Tucker conditions.


654 [164] Statistical Theory I (3). Prerequisite, two semesters of advanced calculus. Probability spaces; Random variables, distributions, expectation; Conditioning; Generating functions; Limit theorems: LLN, CLT, Slutsky, -method, big- in probability; Inequalities; Distribution theory: normal, chi-squared, beta, gamma, Cauchy, other multivariate distributions; Distribution theory for linear models.

655 [165] Statistical Theory II (3). Prerequisite, STAT 164 or equivalent. Point estimation; Hypothesis testing and confidence sets; Contingency tables, nonparametric goodness-of-fit; Linear model optimality theory: BLUE, MVU, MLE; Multivariate tests; Introduction to decision theory and Bayesian inference.


665 [175] Applied Statistics II (3). Prerequisite STAT 174 or permission of the instructor. ANOVA (including nested and crossed models, multiple comparisons); GLM basics: exponential families, link functions, likelihood, quasi-likelihood, conditional likelihood; Numerical analysis; numerical linear algebra, optimization; GLM diagnostics; Simulation: transformation, rejection, Gibbs sampler.


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Curriculum in Women's Studies
www.unc.edu/depts/wmst

E. JANE BURNS, Interim Chair
Professors
E. Jane Burns, Barbara J. Harris.
Associate Professors
Karen M. Booth, Silvia Tomaskova, Joanne Hershfield
Assistant Professor
Michele Berger
Adjunct Professor
Annegret Fauser.
Post-Doctoral Researcher
Tanya L. Shields.

Introduction

The Curriculum in Women's Studies offers an interdisciplinary course of study in women and gender in America and in a range of cultures throughout the world. Students taking women's studies courses are introduced to ideologies of gender as they intersect with concerns of race, class, and sexuality. Students will be exposed to recent scholarship on feminist theory and masculinity and to critiques of feminism. They will learn about the intellectual, social, economic, political, and artistic contributions of women in various cultural contexts. They will see how the discipline of Women's Studies redefines the traditional scholarly curriculum in order to include perspectives on women and gender as integral aspects of academic inquiry.

Approximately 30 departments offer courses that focus entirely on the study of women and gender. Many of these courses have been cross-listed as women’s studies courses and are identified below; others are taught as special sections of an established course and have to be identified separately each semester.

Programs of Study

The Curriculum in Women's Studies offers a degree of bachelor of arts in women's studies. Students can also select a minor in women's studies or in sexuality studies.

Majoring in Women's Studies: Bachelor of Arts

The major requires 24 credit hours taken in women's studies courses or departmental courses cross-listed with the Curriculum in Women's Studies and distributed as follows:

Intellectual and theoretical foundations, nine credits:
WMST 101 Introduction to Women's Studies (or its equivalent)
WMST 102 Introduction to Feminist Theory
One course in minority/Third World/non-Western women

Interdisciplinary perspectives

12 credits distributed among at least two of the following:
Historical studies: AFRI 261, 262; CLAS 241, 242, 245; and any cross-listed history course
Basic and applied sciences: MBCH 603, HBHE 563
Humanities and fine arts: WMST 231, 294, 297; CLAS 269; and cross-listed courses from art, Asian studies, communication studies,
comparative literature, drama, English, French, German, music, philosophy, religion Russian, Slavic languages, and Spanish. Social sciences: WMST 278, 281, 285, 293, 368, 388, 458; GEOG 255, JOMC 442, and crosslisted courses from African/Afro-American studies, anthropology, city and regional planning, economics, folklore, international studies, leisure studies, exercise and sport science, geography, linguistics, political science, and sociology.

Theory and practice of women's studies

Three credits chosen from:
WMST 396 Independent Reading and Research
WMST 391 Practicum/Internship
WMST 695 Cultural Constructions of Women across the Disciplines
WMST 691 Honors Thesis (requires admission to departmental Honors Program)

Minoring in Women's Studies

A minor in women's studies enables students who major in another area to develop an expertise in the interdisciplinary study of women and gender. A minor consists of 15 credits (five courses) in women's studies. The credits must include WMST 101 and come from at least two of the four divisions of the College of Arts and Sciences (i.e., fine arts, humanities, social sciences, basic and applied sciences). The courses listed as appropriate for the major (see above) may be useful.

Women's studies courses include both courses exclusively in women's studies and courses in other departments cross-listed with women's studies. An internship in women's studies (WMST 391) can be counted toward three of the 12 credits taken after WMST 101. Cross-listed courses in a student's major department will not count toward a minor in women's studies and toward the student's major.

Honors in Women's Studies

An honors degree in women's studies is available to majors who meet the curriculum's guidelines for honors and who successfully complete a thesis based upon original and independent research. Contact the chair of the curriculum for more information.

Contact Information

For information about women's studies, contact the chair of the curriculum (CB# 3135, 401 Alumni Hall, 919-962-3908/1347) or the women's studies advisor in the College of Arts and Sciences (919-962-764); or consult the Web site: www.unc.edu/depts/wmst.

Minoring in Sexuality Studies

The minor in sexuality studies is designed for students who want to explore the study of sexual/gender identities - such as gay, lesbian, bisexual, transgender, and heterosexual - as well as the full range of human sexual behaviors and identities in diverse cultures and historical periods. It is especially appropriate for students who anticipate working in advocacy roles for sexual minorities or in professions that address the needs and issues of sexual minorities as a subpopulation.

The minor consists of five courses of which at least two must be chosen from among core courses. Up to three courses may come from the list of additional courses approved for the program. These five courses must involve work in at least three departments or curricula. As an example, a minor in sexuality studies could be constructed as follows: HIST 566 and POLI 218 (core courses) and WMST 101, HIST 451, and HIST 467, for a minimum of 15 hours from at least three departments or curricula.

Core courses:
CLAS 242 (WMST 242) Sex and Gender in Antiquity
COMM 549 Sexuality and Visual Culture
COMM 545 Pornography, Sexuality, and American Culture
ENGL 140 (WMST 140) Introduction to Gay and Lesbian Culture and Literature
ENGL 287 Another Country: Homoerotics in British Literature
ENGL 665 (WMST 665) Queer Latina/o, Literature, Performance, and Visual Art
ENGL 666 (WMST 666) Queer Latina/o Photography and Literature
ENGL 664 The Challenge of Queer Theory to Literary Theory, Cultural Studies, and the Humanities
HIST 479 (WMST 479) History of Female Sexualities in the West
HIST 566 The History of Sexuality in America
POLI 218 (WMST 218) The Politics of Sexuality
WMST 388 (INTS 388) The International Politics of Sexual and Reproductive Health
WMST 410 (INTS 410) Comparative Queer Politics

Additional Courses:
ANTH 458 Archaeology of Sex and Gender
ANTH 473 Anthropology of the Body and the Subject
CMPL 468 Aesthetics
CMPL 487 Literature and the Arts of Love
HIST 451 Women and Men in the Renaissance
HIST 467 Society and Family in Early Modern Europe
HIST 535 (AFRI 535) Women and Gender in African History
LING 302 (ANTH 302, WMST 302) Language and Power
POLI 265 (WMST 265) Feminism and Political Theory
RELI 244 (WMST 244) Gender and Sexuality in the Western Christian Tradition
RELI 444 (JWST 444) Gender and Sexuality in Contemporary Judaism
RUSS 273 Russian Culture and Society: 1890-1917
SOCI 124 (WMST 124) Sex and Gender in Society
WMST 101 Introduction to Women's Studies
WMST 285 (AFAM 285) African-American Women in the Media
WMST 231 Gender and Popular Culture

For information about the minor in sexuality studies, contact Professor Karen M. Booth, Director of Undergraduate Studies for the Curriculum in Women's Studies, CB# 3135, 919-962-3908, kmbooth@email.unc.edu.

WMST

051 First-Year Seminar: Race, Sex and Place in America (3). This first year seminar will expose students to the complex dynamics of race, ethnicity, and gender and how these have shaped the American city since 1945.
080 First-Year Seminar: The Actress: Celebrity and the Woman (3). Who is your favorite actress? What do you know about her? What makes you one of her fans? In this seminar students will reflect on the experience, significance, and influence of the stage and motion picture actress in the modern era.
101 (050) Introduction to Women's Studies (3). An interdisciplinary exploration of intersections of gender, race, class, and sexuality in American society and internationally. Topics include: work; sexuality and sexual identity; gender relations and images of
women and gender in literature, religion, art, and science; and the
history of feminist movements. Course readings are drawn from the
humanities and the social sciences.

102 [052] Introduction to Feminist Thought (3). Prerequisite: WMST 101. Introduces U.S. and international feminist theorizing on
debates over gender-based oppression. Gives majors and minors
tools to pursue academic work in women's studies and to under-
stand the relationships among concepts, activism, and change.

124 [024] Sex and Gender in Society (SOCI 124) (3). Examina-
tion of the social differentiation between men and women.
Attention to the extent, causes, and consequences of sexual in-
equality and to changes in sex roles and their impact on interper-
sonal relations.

140 [022Q] Introduction to Gay/Lesbian Literature (ENGL
140) (3). Introduces students to concepts in queer theory and recent
sexuality studies. Topics include queer lit, AIDS, race and sexuality,
representations of gays and lesbians in the media, political
activism/literature.

EXSS 163 for description.

188 [048] Introduction to Women and Music (MUSC 188)
(3). See MUSC 188 for description.

217 [072] Women and Politics (POLI 217) (3). See POLI 217 for
description.

218 [074] Politics of Sexuality (POLI 218) (3). See POLI 218 for
description.

219 [076] Violence Against Women: The Legal Perspective
(POLI 219) (3). See POLI 219 for description.

220 [212] Women in the Middle Ages (3). See GERM 220 for
description.

224 [056] Introduction to Gender and Communication
(COMM 224) (3). See COMM 224 for description.

225 [125] Space, Place, and Difference (GEOG 225) (3). See
GEOG 225 for description.

231 [131] Gender and Popular Culture (3). This course exa-
nines the ways in which gender and sexual identities are repre-
sented and consumed in popular culture.

240 [051C] Women in Greek Art and Literature (CLAS 240)
(3). See Classics 240 for description.

241 [054] Women in Ancient Rome (CLAS 241) (3). See
Classics 241 for description.

242 [042] Sex and Gender in Antiquity (CLAS 242) (3). See
Classics 242 for description.

243 [043] French Women Writers in English Translation (3).
Works by French women authors read in translation along with per-
tinent theoretical texts. Course content will vary with each semester
incorporating texts from different periods and genres.

244 [083] Gender and Sexuality in the Western Christian
Tradition (RELI 244) (3). See RELI 244 for description.

245 [045] Women of Byzantium (CLAS 245) (3). See CLAS 245
for description.

248 [089] Women in Opera (MUSC 248) (3). See MUSC 248 for
description.

250 [044] Women in German Cinema (GERM 250) (3). See
GERM 250 for description.

253 [053] A Social History of Jewish Women in America
(AMST 253, JWST 253) (3). Course examines the history and cul-
ture of Jewish women in America from their arrival in New
Amsterdam in 1654 to the present and explores how gender shaped
this journey.

254 for description.

258 [058] Women in Europe before 1750 (HIST 258) (3). See
HIST 258 for description.

259 [059] Women in Europe since 1750 (HIST 259) (3). See
HIST 259 for description.

(AFRI 261) (3). See AFRI 261 for description.

263 [150] Topics in Gender and Literature (ENGL 263) (3).
See ENGL 263 for description.

264 [060] Women in Russian and Soviet History, 1860-
Present (HIST 264) (3). See HIST 264 for description.

265 [067] Feminism and Political Theory (POLI 265) (3). See
POLI 265 for description.

266 [065] Black Women in America (AFAM 266) (3). See
AFAM 266 for description.

269 [069] Representations of Cleopatra (CLAS 269, CMPL
269) (3). See CLAS 269 for description.

275 [046] Philosophical Issues in Feminism (PHIL 275) (3).
See PHIL 275 for description.

278 [078] Women in Science (ANTH 278) (3). The role of
women in scientific domains throughout history and a considera-
tion of the status of women and men as scientists. The develop-
ment of science as a cultural practice.

280 [080] Women in Latin America (HIST 280) (3). See HIST
280 for description.

281 [081] Gender and Global Change (INTS 281) (3).
Prerequisite, WMST 101 or permission of instructor. Students will be
introduced to recent debates over the meaning of globalization, his-
torical perspectives on the uneven development of global systems
and production, and communication. Course discusses global fem-
inisms and case studies of gendered globalization in the United
States, eastern Africa, Southeast Asia, and Latin America.

285 [085] African American Women in the Media: Identity,
Politics, and Resistance (AFAM 285) (3). This course will
acquaint students with how African American women have been
depicted (and depicted themselves) in 20th- and 21st-century
media. The course will examine representations of African
American women in several aspects of culture including: film, art,
print, television, theater, and music.

290 [095] Special Topics in Women's Studies (3). Topics are
announced in advance and reflect the interest of the particular
instructor. Each course will concern itself with a study in depth of
some problem or issue in women's studies.

293 [093] Gender and Imperialism (3). Prerequisite, one course
in gender or non-Western societies or permission of instructor.
Focuses on feminist perspectives on imperialism; the effects of imperialism on colonized and European women; women's participation in anti-imperialist movements; and the legacies of imperialism for feminism today.

294 [094A] Courtship and Courtliness from King Arthur to Queen Victoria (3). Interdisciplinary study of Western views concerning love between the sexes, focusing on courtly love in the Middle Ages and romantic love in the Victorian era. Literary, historical, and art historical materials.

297 [097] Women's Spirituality across Cultures (3). How women's spirituality interacts with officially sanctioned religious institutions in a range of cultural contexts and how it forges alternatives to those traditions.


363 [090B] Feminist Literary Theory (ENGL 363) (3). Theories of feminist criticism, in relation to general theory and women's writing.

368 [068] The Struggle Continues: Women of Color in Contemporary U.S. Social Movements (3). This course will examine the role of women of color as grassroots activists, leaders, and thinkers in the new social and community movements of the postwar period.

370 Women in the Age of Victoria (HIST 370) (3). Students will study the impact of culture on the lives of women in Britain and the United States in the 19th and early 20th centuries.


374 [087] Southern Women Writers (ENGL 374) (3). The study of fiction, poetry, plays, and essays by Southern American women writers of the past 200 years, continuing to the present.

375 History of Gender in America (HIST 375) (3). This course will explore how Americans from 1600 to the present have defined what is masculine and what is feminine and how they have constructed their identities around those definitions.


388 [088] The International Politics of Sexual and Reproductive Health (INTS 388) (3). Prerequisite, WMST 101 or permission of instructor. This course takes a feminist political economy perspective on debates over current health issues of international concern, including HIV/AIDS and population control.

391 [190] Practicum in Women's Studies (1-12). Prerequisites, WMST 101 and permission of internship coordinator. A supervised internship designed to provide experience working in organizations concerned with women's issues. Written paper required. Open to women's studies majors and other qualified students.


396 [195] Independent Reading and Research (3). Prerequisite, permission of the curriculum chair. Intensive reading/research under faculty supervision resulting in a written paper. Open to women's studies majors and other qualified students.

410 [102] Comparative Queer Politics (INTS 410) (3). The prospects of the emerging global movement for equality for sexual minorities are analyzed in light of the histories and practices of local- and national-level queer movements and international organizations and networks that have emerged to link these diverse communities.


436 [136] Gender and Science (ANTH 436) (3). Feminist approaches to science; history of scientific constructions of male and female nature; and theoretical approaches to the role of gender in science.

437 [137] Gender and Performance (COMM 436) (3). The course combines several fields, analyzing the construction of gender through science, science fiction, and film. Students are exposed to science issues as they are represented in popular media.

438 [138] Gender in Practice (ANTH 537, FOLK 537) (3). See ANTH 537 for description.

440 [140] Gender and Culture (ANTH 440) (3). Cross-cultural comparison of gender roles through the life of a person, comparison to student's own experiences. Discussion of changing sex and gender roles through history in different cultures.

441 [141] The Anthropology of Gender, Health, and Illness (ANTH 441) (3). The course explores cultural beliefs, practices, and social conditions that influence health and sickness of women and men from a cross-cultural perspective.

444 [129] Race, Class, and Gender (SOCI 444) (3). See SOCI 444 for description.

446 [086] American Women Authors (ENGL 446) (3). American women authors from the beginnings to the present.


475 [165] Philosophy Issues in Gender, Race, and Class (PHIL 475) (3). See PHIL 475 for description.

479 [079] History of Female Sexualities in the West (HIST 479) (3). See HIST 479 for description.

486 [186] Contemporary Russian Women’s Writing (RUSS 486) (3). See RUSS 486 for description.

537 [195] Women in the Middle East (ASIA 537, HIST 537) (3). See HIST 537 for description.

553 [153] Theorizing Black Feminisms (3). Prerequisite, WMST 102 or permission of instructor. Introduction to the theoretical and practical contributions of African-American feminists who maintain that issues of race, gender, sexuality, and social class are central, rather than peripheral, to any history or strategy for bringing about social justice in the United States.


563 [161] Introduction to Women’s Health and Health Education (3). Prerequisite, permission of instructor. An overview of women’s health emphasizing their specific interest as family and community members, as patients, and as health professionals. Implications for health education practice and research.


603 [103] Reproductive Physiology and Conception Control (MHCH 603) (1). An interactive Web-based course on reproductive anatomy and physiology, contraception, sexually transmitted infections, pregnancy, and childbirth for students without prior health professions training.


656 [143] Women in Film (COMM 656) (3). This course examines the representations of women in contemporary American film. The course also considers women as producers of film.

660 [166] Kinship, Reproduction, Reproductive Technology, and the New Genetics (ANTH 660) (3). This course focuses on the relationship among family, kinship, new reproductive technologies, and the new genetics from a cross-cultural perspective.


684 [185] Women in Folklore and Literature (ENGL 684, FOLK 684) (3). An exploration of representations of women in oral traditions as well as in literature based on oral traditions.

691H [098] Honors in Women’s Studies (3). Prerequisites, WMST 695 or 695H and permission of instructor. Writing and completion of an honors essay.

695 [099] Cultural Constructions of Women across the Disciplines (3). Prerequisite, permission of the instructor. Students taking honors in women’s studies must take this course during the fall semester. A senior seminar for women’s studies majors and other interested juniors and seniors. Analyzes the different ways that traditional academic disciplines have constructed women as a category of knowledge.

**Academic Affairs Schools**

Kenan-Flagler Business School
www.kenan-flagler.unc.edu

STEVE JONES, Dean

**DISTINGUISHED PROFESSORS**


**Professors**


**ASSOCIATE PROFESSORS**


**ASSISTANT PROFESSORS**


**LECTURERS**

Jeffrey Cannon, Sharon Cannon, Lynn Setzer.

**PROFESSORS EMERITI**

Jack N. Behrman, R. Lee Brunnet, Dewitt Clinton Dearborn, Robert Desjardins, G. David Hughes, Thomas H. Jerdee, Jay

Introduction

The Kenan-Flagler Business School offers programs of study that provide students both a thorough grounding in all areas of business and a broad introduction to the liberal arts. The Kenan-Flagler undergraduate experience is distinctive because the school offers:

• An undergraduate business experience that is ranked highly in the nation by U.S. News & World Report and BusinessWeek.
• Career services professionals who help students identify career interests and a plan for pursuing them
• A liberal arts-oriented curriculum
• A global perspective relevant to the needs of business today
• Activities and organizations for an active student life
• Individual attention usually associated with smaller schools
• Multiple opportunities provided by a leading, large research university
• Faculty who are outstanding teachers

Students choose business electives during the senior year to develop a specific area of business interest. Courses selected from other UNC-Chapel Hill schools and programs add to their depth of knowledge. The result is that students are able to see "the big picture." The school believes that completion of the B.S.B.A. program puts its students at an advantage in the job market.

Students may choose to complete a minor in business administration instead of a business major, or they may choose to take a few business administration courses as general electives for their chosen degree program.

Programs of Study

The degree offered is bachelor of science in business administration. A minor in business administration is also offered.

Admission to the Kenan-Flagler Business School

Kenan-Flagler’s B.S.B.A. program is a small, select program with approximately 330 majors and 30 minors admitted each year. The program seeks candidates whose analytical and organizational abilities, writing skills, and motivation indicate strong potential for success. Admission is competitive based on academic achievement, leadership, curricular activities and involvement, work experience, diversity of skills and interests, and substantive thinking as expressed in an essay, a persuasive cover letter, and answers to questions related to career and educational objectives.

Admission from the General College

Admission to the undergraduate business major begins with an application submitted in the fall of the sophomore year and provisional admission granted in early February for matriculation in the fall of the junior year. Any sophomore at UNC-Chapel Hill who will complete the University’s General Education requirements, including business prerequisite courses, before the beginning of the junior year fall semester may apply for admission to the B.S.B.A. program. Preference for available spaces is given to students who will complete prerequisite courses by the end of the sophomore spring semester; a student who intends to finish prerequisites in Summer School must indicate that on the application. Final grades for courses unfinished at the time of application must reflect the same level of achievement as courses considered at the time of application. Applicants who attain a minimum cumulative grade average of 3.0 in all course work and in business prerequisites are given priority consideration in the admissions process. Admission is weighted heavily, but not exclusively, on academic performance at UNC-Chapel Hill.

Admission to the business minor follows the same application schedule and process as the business major. Admission is both selective and competitive with approximately 30 students admitted to the business minor. Students who intend to earn a degree in majors in the College of Arts and Sciences, the School of Journalism and Mass Communication, and the School of Public Health may apply to the business minor during their sophomore fall semester or their junior fall semester. Applications for the minor are not accepted once a student is considered a senior.

The business administration major is a two-year curriculum, and students are expected to graduate from UNC-Chapel Hill in eight semesters. The business minor requires a minimum of two semesters, preferably three, to complete.

Transfer Admission from Institutions Other than UNC-Chapel Hill or UNC-Chapel Hill Continuing Studies

Undergraduate transfer students cannot be admitted directly to the Kenan-Flagler Business School. Students who seek to transfer to UNC-Chapel Hill and complete studies in business administration must first apply directly to the UNC-Chapel Hill Office of Undergraduate Admissions. Students who meet requirements for admission to the University are admitted into the College of Arts and Sciences, from which they may apply to the Business School.

Currently, Kenan-Flagler reserves a limited number of competitive spaces in the business major for students who transfer from other institutions. Transfer students who wish to major in business administration must spend a minimum of one semester in residence at UNC-Chapel Hill to apply for admission to the Kenan-Flagler B.S.B.A. program. During this time, transfer students who wish to apply for admission must establish a UNC-Chapel Hill grade average of at least 3.0 (cumulative). Generally, students must complete a minimum of 23 credit courses (including those transferred) to satisfy General Education requirements and must satisfactorily complete business prerequisites.

A student who meets the criteria explained above is favorably considered for admission, but because of space limitations, admission cannot be guaranteed. A student who transfers from an institution whose business program is accredited by AACSB International (the Association to Advance Collegiate Schools of Business) or from a constituent institution of the University of North Carolina is given preferred consideration.

Transfer of Business Course Credits from Other Institutions

Without regard to a student’s prospective academic major or minor at UNC-Chapel Hill, Kenan-Flagler Business School considers for validation for transfer credit only those business administration courses that meet each of the following six criteria. No exceptions are made.

For upper-level courses (equivalent to those numbered 400-699 in Kenan-Flagler undergraduate curriculum), the course was completed at

(a) an institution accredited by AACSB International, or
(b) a constituent four-year institution of the University of North Carolina, or
(c) a foreign institution pre-approved by Kenan-Flagler as part of a UNC-Chapel Hill affiliated overseas study program.

Upper-level courses completed at other institutions are not accepted for credit. For lower level courses (BUSI 100 Financial Accounting and BUSI 101 Management Accounting), the Business School will consider comparable courses from any institution of higher education.

- The final course grade earned was at least C (not C-) as verified by an official transcript. Courses taken pass/fail are ineligible.
- A comparable course is available in the Kenan-Flagler undergraduate curriculum.
- The course is not approved for credit in other UNC-Chapel Hill departments (i.e., no double credits).
- The student completed the course within the past three academic years.

The substantive coverage of material constitutes no less than 75 percent of coverage in the comparable Kenan-Flagler course, and there is a sufficient indication of individual student evaluation (i.e., no less than two major examinations including a final examination).

For students who wish to transfer to UNC-Chapel Hill, pre-approval of such courses is recommended. Requests for validation of course credits earned at another institution must be made no later than the end of the first semester of enrollment at UNC-Chapel Hill following completion of the course.

The Business School does not award transfer credits in excess of twelve credit hours total (four courses in any combination of lower- or upper-level courses). For students who earn admission to Kenan-Flagler Business School, no more than two upper-level courses taken at another institution may be applied to the B.S.B.A. major curriculum unless earned as part of a pre-approved Kenan-Flagler overseas study program. Students must complete the senior capstone course (BUSI 698) and all courses required for the business minor at Kenan-Flagler. Because business majors must complete a minimum of 18 courses (64 credit hours) of upper-level work in residence at the Kenan-Flagler Business School, transfer students who have completed a substantial number of business courses at another institution are not encouraged to seek admission to Kenan-Flagler. Note that the Department of Economics, not the Business School, evaluates economics courses for transfer credit. The Economics Department is a unit of the College of Arts and Sciences and is located in Gardner Hall.

To request review and validation of eligible courses, a student submits a copy of the course syllabus. The syllabus must include the title and edition of textbook(s) as well as list explicitly the course content. If the syllabus lists only chapters covered without description of chapter content, then a copy of the text table of contents must be included.

Pre-business Preparation for the Business Administration Major or Minor

At UNC-Chapel Hill, undergraduate business education begins officially in the junior year after admission to the Kenan-Flagler Business School. First-year students and sophomores in the General College who consider themselves pre-business majors complete certain prerequisite courses as part of their General Education requirements. Preparation for the business major and minor is the same except that ECON 310/410 is not a prerequisite for the business minor.

A pre-business track includes successful completion (defined as earning a final grade of at least a C, not C-), in the following courses (or their equivalents):
ENGL 101 AND ENGL 102
MATH 152 or MATH 231 or MATH 232 or STOR 112 or STOR 113
(unless credit is received for both MATH 231 and MATH 232)
STOR 155
ECON 101 followed by ECON 310 or ECON 410
BUSI 100 (for which ECON 101 is either a pre- or a corequisite course)
BUSI 101 (for which ECON 101 is either a pre- or a corequisite course.) BUSI 100 and BUSI 101 may be taken in either order or concurrently.
ECON 320 or ECON 420

First-year students are encouraged to complete ENGL 101, ENGL 102, the first math requirement, and ECON 101. STOR 155 may be taken in either the first or second year. Sophomores are encouraged to complete ECON 310/410, ECON 320/420, BUSI 100 and 101.

For the foundational skills in foreign language, the Business School neither requires a particular language nor requires course work beyond level 3. Please note, however, that some overseas study programs are language-based and may necessitate a student's proficiency beyond level 3.

The Business School makes no other specific recommendations on courses for other General Education requirements. The school encourages students to challenge themselves by exploring unfamiliar, new disciplines and by strengthening written and verbal communication and critical thinking. It is possible for a business major to double major or earn as many as two minors. First-year students and sophomores may wish to build a foundation for such a complementary academic track.

Majoring in Business Administration: Bachelor of Science

The business major takes four years, eight semesters, to complete. During the first and second year at UNC-Chapel Hill, business majors take courses that are required of all students and are an important part of the business degree. Students develop important skills:

- Effective written and oral communication
- Critical thinking and problem solving
- Leadership
- Teamwork

UNC requires students to complete at least three semesters of a foreign language. Students must complete four semesters of a foreign language if they concentrate in international business.

Students complete business prerequisites prior to entering the business major. After admission to the business major, they take required courses in each of the basic areas of business in the third and fourth year.

Students also choose elective courses both in business and from other departments.

All admitted students must complete the following upper-level major courses:
BUSI 401 Management and Corporate Communication
BUSI 402 Business Computing Skills (2 credits)
BUSI 403 Operations Management
BUSI 404 The Legal and Ethical Environment of Business
BUSI 405 Organizational Behavior
BUSI 406 Marketing
BUSI 407 Financial Statement Analysis (1.5 credits)
BUSI 408 Corporate Finance
BUSI 409 Advanced Corporate Finance (1.5 credits)
BUSI 410 Business Analytical Applications

The senior capstone is to be taken after all core courses (listed above) are complete:
BUSI 698 Strategic Management

**Additional Business Major – B.S.B.A. Degree Requirements**

Majors are required to complete additional elective courses: four (minimum) business electives and five to seven other electives, five of which must be taken outside the Kenan-Flagler Business School. A six-hour Global Awareness requirement is to be met as part of the eleven elective courses. An area core course, with an earned grade of at least a C (not C-), is a prerequisite course for an elective course in that area (e.g., BUSI 406 Marketing is a prerequisite to BUSI 560 Advertising.) Other restrictions may apply to certain business courses.

The B.S.B.A. is considered a broad-based, general management degree, and the Kenan-Flagler Business School encourages breadth in both the business curriculum and in the continuation of study in arts, humanities, and sciences. Some students use the non-business electives to meet requirements for an academic minor in the College of Arts and Sciences, the School of Journalism and Mass Communication, or the School of Information and Library Science. A second major may be possible and does require advance approval by both the B.S.B.A. program and the second academic unit. In all cases, Kenan-Flagler encourages majors to take upper-level courses during the junior and senior years.

A B.S.B.A. concentration consists of three area electives beyond the area core requirement. The general management major may choose to add a concentration in one of the following:

**Finance** – a minimum of 9.0 credit hours beyond the finance core, BUSI 408 Corporate Finance.

**Marketing** – a minimum of 9.0 credit hours beyond the marketing core, BUSI 406 Principles of Marketing.

**Entrepreneurial Studies** – a minimum of three courses and 9.0 credit hours, including one core course, one foundation elective and one interest elective.

**International Business** – a semester or summer study abroad in a B.S.B.A.-approved program, a modern foreign language completion through level 4, and international business courses (minimum nine credits).

**Minor prerequiste courses are**:
MATH 152 or MATH 231 or MATH 232 or STOR 112 or STOR 113; STOR 155; ECON 101; BUSI 100

**These courses must be completed prior to BUSI 698**:
BUSI 403 Operations Management
BUSI 406 Marketing
BUSI 408 Corporate Finance

Majors choose one additional BUSI course from available courses offered.

Minor capstone course: BUSI 698 Strategic Management

**Taking BUSI Courses as a Non-major/Minor**

Undergraduate students who do not intend to major or minor in business administration may wish to take a few business courses as free electives for their particular major. Nonmajors cannot register themselves for BUSI courses during the course registration process. Available seats are opened only at the start of the new semester approximately one week prior to the first day of classes and remain open through the last day to add classes. Students must come to the B.S.B.A. program office in the McColl Building to register. Registration is on a space-available, first-come basis, and any prerequisite course must be satisfied. Refer to the course description list for notes on restrictions.

**Special Opportunities in the Business School**

**Student Involvement**

The B.S.B.A. program sponsors student organizations, which include the Black Business Student Alliance, International Affairs Club, Real Estate Club, Carolina Consulting, Carolina Women in Business, the Investment Club, the Marketing Club, Out for Business LGBT Club, Entrepreneurship Club, B.S.B.A. Student Council, Alpha Kappa Psi, and Delta Sigma Pi. Each fall, the Undergraduate Business Symposium hosts executives from around the country to interact with students and faculty and discuss contemporary business issues.

**Experiential Education**

Several required and elective business courses incorporate on-site visits to and projects with nonprofit organizations, government agencies, or for-profit companies.

**Internships**

The B.S.B.A. program encourages business majors to undertake internships when possible. Internships related directly to the student's career interest contribute to effective career decision making.

**Study Abroad**

As part of the elective requirement in the B.S.B.A. program, undergraduates develop their global perspective through several academic options: GLOBE, Business Semester Abroad, GLIMPSEx Immersions, a global-related academic minor or second major, and completion of contemporary courses offered by Kenan-Flagler or other UNC-Chapel Hill schools and colleges. Kenan-Flagler supports overseas studies as a complement to the curriculum, and semester-length programs are best suited for the junior year spring semester. The B.S.B.A. program endorses several semester-length study abroad opportunities in the following locations: Barcelona, Spain; Copenhagen, Denmark; Maastricht, The Netherlands; Milan, Italy; Paris, France; Santiago, Chile; Singapore; Sydney, Australia; Dunedin, New Zealand. Summer program locations include Copenhagen, Denmark, and Maastricht.
Netherlands. Short-duration immersion programs include locations in Asia and Europe.

Other overseas studies opportunities are available at UNC-Chapel Hill and may be acceptable to the B.S.B.A. program with advance consultation.

Student Writing Skills

Students in the B.S.B.A. program can work to improve their communication skills in several ways, e.g., by working with consultants in Kenan-Flagler’s Business Communication Center (3127 McColl Building), making appointments with tutors in the UNC Writing Center (Phillips Hall Annex), and participating in writing, oral presentation, and grammar workshops throughout the year. The faculty encourages students to attend these workshops.

Undergraduate Awards

Each spring, the faculty recognizes select students for outstanding academic excellence, leadership, and community service. Beta Gamma Sigma, the national business school honorary, inducts students each spring.

Undergraduate Research

Business majors who earn a cumulative grade average of 3.5 or higher at the end of the junior year are eligible to undertake a senior year honors thesis. Students who are approved for an honors thesis complete a two-semester sequence beginning with Business Honors Research (BUSI 693H). Students may also elect to complete independent studies that result in academic papers.

Computing

The faculty expects all B.S.B.A. degree candidates to be computer literate and proficient in word processing, spreadsheets, and presentation graphics; additionally, some familiarity with database management is desired. A computer lab is located in the Business School, and additional labs are located at other campus facilities.

Graduate School and Career Opportunities

The B.S.B.A. program works closely with University Career Services (UCS) to ensure that undergraduate business students are well prepared for careers. UCS provides students with a full scope of services, including on-campus interviewing, résumé referral, career fairs, and panel discussions. UCS also provides internship assistance. Students may browse the UCS Web site at careers.unc.edu for information about University Career Services and employment opportunities.

In addition to the services provided by UCS, the B.S.B.A. program provides customized professional development opportunities throughout the year, including in-depth programs in areas such as investment banking and consulting and a career manual tailored specifically to the needs of business students. The B.S.B.A. program can connect students with Kenan-Flagler alumni/ae who have agreed to offer career advice. A number of helpful resources are available to business majors/minors in the Kenan-Flagler Career Services Library located in the McColl Building.

Contact Information

The bachelor of science in business administration program is described in a bulletin of the Kenan-Flagler Business School available at: B.S.B.A. Program, Kenan-Flagler Business School, CB# 3490, 3122 McColl Building, (919) 962-3235, fax (919) 962-6664, bschool_undergrad@unc.edu. Web site: www.kenan-flagler.unc.edu.

BUSI

050 First-Year Seminar: Behind the Scenes: The World Through Marketing Eyes (3). In this seminar, we’ll explore our everyday world through a marketer’s eyes. Our goal will be to achieve a real and practical understanding of the basics of marketing, both as a management tool and as a force in our society.

051 First-Year Seminar: Business Accounting (3). This course develops the skills needed to examine and understand company financial reports in order to assess the integrity and objectivity of these reports.

100 [071] Financial Accounting (4). Pre- or corequisite, ECON 101 or equivalent. Role of accounting: basic concepts and methodology; mass data processing; valuation and income determination principles; management and internal control problems; and basic financial statement components.

101 [170] Management Accounting (4). Pre- or corequisite, ECON 310 or ECON 410 or equivalent. May be taken before, after, or concurrently with BUSI 100. Elements of accounting for management planning, budgeting, and control. Emphasis is on management uses of accounting information.

105 [071S] Financial Accounting SS (3). Offered in Summer School only. Pre- or corequisite, ECON 101 or equivalent. Role of accounting: basic concepts and methodology; mass data processing; valuation and income determination principles; management and internal control problems; and basic financial statement components.

106 [071X] Financial Accounting CS (3). Offered on-line by Continuing Studies. UNC-Chapel Hill business majors/minors may not take BUSI 106. Pre- or corequisite, ECON 101 or equivalent. Role of accounting: basic concepts and methodology; mass data processing; valuation and income determination principles; management and internal control problems; and basic financial statement components.

107 [170S] Management Accounting SS (3). Offered in Summer school only. Pre- or corequisite, ECON 310 or ECON 410 or equivalent. May be taken before, after, or concurrently with BUSI 100. Elements of accounting for management planning, budgeting, and control. Emphasis is on management uses of accounting information.

108 [170X] Management Accounting CS (3). Offered on-line by Continuing Studies. UNC-Chapel Hill business majors/minors may not take BUSI 108. Pre- or corequisite, ECON 310 or ECON 410 or equivalent. May be taken before, after, or concurrently with BUSI 100. Elements of accounting for management planning, budgeting, and control. Emphasis is on management uses of accounting information.

401 [100] Management and Corporate Communication (3). Open to junior-senior business majors only. Writing- and speaking-intensive course that emphasizes professional communication. Combines lecture, discussion, and draft workshops that focus on letters, memos, reports, resumes, email, and business presentations.

402 [105] Business Computing Skills (2). Open to business majors only. An introduction to the design and use of various word processing, spreadsheet, presentation graphic, and database management applications.
403 [130] Operations Management (3). Analysis of the production/operations functions in both manufacturing and nonmanufacturing organizations. Developing production policies that support total organizational goals under varying constraints.

404 [140] The Legal and Ethical Environment of Business (3). An introduction to the legal system with special emphasis on its relationship to business. Topics include an introduction to the judicial system, torts, and contracts.

405 [150] Organizational Behavior (3). An introduction to the study of human behavior in organizations. Examines from a managerial perspective the impact of individual, group, and organizational variables on organizational performance and employee satisfaction.

406 [160] Marketing (3). Introduction to marketing with emphasis on the social and economic aspects of distribution, consumer problems, marketing functions and institutions, marketing methods and policies.

407 [178] Financial Statement Analysis (1.5). Prerequisites, BUSI 100 and 408, or equivalents. Recommended for completion in the same semester as BUSI 409. The interpretation and use of financial statement information. The emphasis is on users of financial statements, including portfolio managers, small investors, lenders, potential acquirers, or corporate strategic planners.

408 [180] Corporate Finance (3). Theoretical foundations of optimal financial policy. Problems and cases provide application of theory to financial decisions involving cash flow, capital structure, capital budgeting.

409 [182A] Advanced Corporate Finance (1.5). Prerequisite, BUSI 408 or equivalent. A follow-up course to BUSI 409 that goes more deeply into the theory and application of financial management. Emphasis is placed on investment, financing, and dividend decisions.

410 Business Analytical Applications (3). Continues studies from STOR 112 and STOR 155 by addressing the quantitative tools relevant to business applications in operations management, finance, and marketing.

411 [120S] Business Analytical Thinking and Problem Solving (1.5). Continues studies from BUSI 410 by preparing students to recognize and employ the quantitative tools needed to solve business problems.

450 [196A] Independent Study in Operations Management (3). Permission required. Supervised individual study and research in the student's special field of interest.

451 [196B] Independent Study in Quantitative Methods (3). Permission required. Supervised individual study and research in the student's special field of interest.

452 [196C] Independent Study in Business Law (3). Permission required. Supervised individual study and research in the student’s special field of interest.

453 [196D] Independent Study in Management (3). Permission required. Supervised individual study and research in the student’s special field of interest.

454 [196E] Independent Study in Marketing (3). Permission required. Supervised individual study and research in the student’s special field of interest.

455 [196F] Independent Study in Accounting (3). Permission required. Supervised individual study and research in the student's special field of interest.

456 [196G] Independent Study in Finance (3). Permission required. Supervised individual study and research in the student's special field of interest.

457 [196H] Independent Study in Strategic Management (3). Permission required. Supervised individual study and research in the student's special field of interest.

458 [196I] Independent Study in International Business (3). Permission required. Supervised individual study and research in the student’s special field of interest.

459 [196J] Independent Study in Management Communication (3). Permission required. Supervised individual study and research in the student's special field of interest.

460 [196K] Independent Study in Information Technology (3). Permission required. Supervised individual study and research in the student's special field of interest.

461 [196L] Independent Study in Operations Management (3). Permission required. Supervised individual study and research in the student's special field of interest.

499 [197M] Business Topics (1.5). Varied topics in business administration.

500 [159] New Ventures and Entrepreneurs (3). Students gain an understanding of entrepreneurship and the tools and skills necessary to create and grow a successful new venture. Real life activities are examined.

501 [159A] Entrepreneurial Sales and Marketing (3). Prerequisite BUSI 454 or 500. Processes and techniques for successful sales and marketing in small business start up companies.

502 [159B] Entrepreneurial Finance (1.5). Prerequisite BUSI 408 or 500. Processes and techniques of successful financing for small business start up companies.

503 [159C] Family Business (1.5). Explores the development and operations unique to family-owned businesses.

504 [159D] Launching the Company (1.5). Permission required. Examines the process for developing and launching a new business venture.

505 [159E] Consulting with Entrepreneurial Firms (3). Prerequisite, BUSI 500. Student teams serve as business consultants to actual small businesses and other entrepreneurial ventures.

506 Business Plan Analysis (3). Introduction to tools and skills necessary to create and grow successful new ventures. Students learn from the perspective of analyzing business plans from local entrepreneurs.

507 Sustainable Business and Social Entrepreneurship (3). Examines sustainable business and social entrepreneurship. Readings draw from anthropology, ethics, international development, and traditional and nontraditional business practice.

508 Enterprising Women in American Business (1.5). Identifies and illuminates prominent women as innovators, entrepreneurs, and business leaders throughout American business history. Particular focus on woman-owned small businesses.

510 [139] Data Analysis (3). Applications of information science to managerial decision making with emphasis given to forecasting and assessing risk. Hands-on experience structuring business data using advanced software.

515 Social Entrepreneurship through Microfinance (3). Analyze the role of microcredit/microfinance in global sustainable development. Students will be creating, organizing, and facilitating a sustainable microfinance initiative of their own design.

516 Private Equity for Entrepreneurs (3). Examines all sources of private capital available to persons wishing to start a business.

520 [192] Business Innovation through Information Technology (3). A survey of the elements and functions of management information systems and the principles underlying the design and management of effective systems.

525 Communication for Leading and Managing (3). Students discover and practice their manager/leader voices, in a low-stakes, low-pressure environment using real-life business scenarios.

532 [134] Service Operations (3). Prerequisite, BUSI 403 or equivalent. Includes service package development, yield management, scheduling, queuing, quality measurement, impact of technology, managing professional services including facilitator services (accounting, consulting, real estate, legal services).

533 [137] Supply Chain Management (3). Prerequisite, BUSI 403 or equivalent. Examines the issues of integrating inventories, information, warehousing, and transportation among suppliers, producers, and customers. Supply chain simulation is modeled.

540 [141] Commercial Law (3). Prerequisite, BUSI 404 or equivalent. A detailed examination of commercial law topics including sales, commercial paper, bank deposits and collections, secured transactions, suretyship, bank regulations, and bankruptcy.

541 [142] Managerial Law (3). Prerequisite, BUSI 404 or equivalent. A detailed examination of the legal aspects of business organizations, including agency, joint ventures, partnerships, limited partnerships, corporations, and securities regulation.

543 [197E] Ethics in Management (3). This course will, by examining real ethical dilemmas in business, help students analyze a problem from the triple perspective of ethics, economics, and law.

545 Negotiation (1.5). Improves skills in all aspects of negotiation, including how to prepare for negotiations, propose settlements, and predict and influence others' arguments in negotiations.

550 [152] Organizational Management and Design (3). Prerequisite, BUSI 405 or equivalent. Systems analysis of behavior in organizations and its application to the management of human resources.

551 [157] Human Capital (3). Prerequisite, BUSI 405 or equivalent. Problems, policies, and procedures in the management of personnel, including topics such as staffing, performance appraisal, training, compensation, benefits and services, safety and health, equal employment, discipline, justice.

552 [155] Solving Strategic Business Problems (3). Learning a management consultant's approach to solving business problems and applying the skills to mock assignments drawn from current high-profile business challenges.

553 [151] Organizational Effectiveness (3). Prerequisite BUSI 405 or equivalent. How organizations articulate and measure earning market share and how they link their differentiating factors to the unique abilities and behaviors of their workforce.

560 [161] Advertising (3). Prerequisite, BUSI 406 or equivalent. The organization and functions of advertising. Topics include economic and social aspects; types of advertising and advertising objectives; developing advertising messages; media selection and evaluation; advertising research.

561 [163] Sales Management (3). Prerequisite, BUSI 406 or equivalent. An overview of the sales management process, including sales force planning, budgeting, recruiting, selection, training, compensation, supervision, and control.

562 [164] Consumer Behavior (3). Prerequisite, BUSI 406 or equivalent. Review of conceptual models and empirical research in consumer behavior. Topics include decision processes, social and cultural influences, information processing, and ethical issues.

563 Retailing and Distribution Channels (3). Prerequisite, BUSI 406 or equivalent. Examines the supply chain for retail businesses and management decision making in retailing.

564 [167] New Product Development (3). Prerequisite, BUSI 406 or equivalent. The course explores the design and development of new products. Key topics include invention and creativity, product design, and the value proposition.

565 [168] Marketing Research (3). Prerequisite, BUSI 406 or equivalent. An introduction to research methodology with emphasis on the compilation, analysis, and interpretation of data used in the planning and control of marketing operations.

566 [169] Marketing Strategy (3). Prerequisites, BUSI 406 or equivalent, and senior standing. A problem method course dealing with specialized marketing functions and policies; includes product and lines, brands, channels of distribution, prices and pricing, promotion, and diagnosis and control.

570 [171] Financial Reporting I (3). Required in spring semester for senior B.S.B.As who are early admitted to the Kenan-Flagler Master of Accounting (MAC) Program. Permission required. Identify and examine critically the concepts and methodologies utilized in financial accounting and provide instruction on the impact such methodologies have on financial reports used by managers and the investing public.

580 [186] Investments (3). Prerequisite, BUSI 408 or equivalent. A survey of investment principles and practices. Emphasis is given to the problems of security analysis and portfolio management with special attention to the investment problems of the individual investor.

581 [185] Banking and Financial Services (3). Prerequisite, BUSI 408 or equivalent. Analysis of the operating policies of financial institutions and the effect of such policies on the structure of the capital markets.

582 [183A] Mergers and Acquisitions (1.5). Prerequisite, BUSI 408 or equivalent. Understanding and analyzing mergers, acquisi-
tions, and other restructuring activities. Learning valuation methods and the mechanics of transactions.

584 [188A] Financial Modeling I (1.5). Prerequisite, BUSI 408 or equivalent. Skill development in constructing financial models for analyzing decision problems faced by financial professionals. Emphasis on building pro-forma financial statements.

585 [188B] Financial Modeling II (1.5). Prerequisite, BUSI 408 or equivalent. Analyzing historical performance, forecasting free cash flows, estimating discount rates, determining terminal value, identifying other sources of value, and interpreting results in a dynamic setting.

586 [126] Introduction to Real Property (3). Prerequisite, BUSI 408 or equivalent or permission. An introduction to the social, political, economic, and investment aspects of real property.

587 [185A] Investment Banking (1.5). Prerequisites, BUSI 408 or equivalent and permission. This course prepares students for investment banking positions and internships. The focus of the class is on financial modeling.

588 [186A] Derivative Securities and Risk Management (3). Prerequisite, BUSI 408 or equivalent. Introduction to derivative securities instruments (options, futures, and swaps) and applications to the management of stock and fixed-income portfolios and other financial and business risks.

591 Quantitative Methods for Investments (3). Course focus is on portfolio analysis and volatility modeling and the use of statistical distributions and regression, forecasting, and simulation applications in finance.

592 Quantitative Methods for Derivative Securities (3). The goal of the course is that students will be self-starters in derivative security analysis and modeling, and generally familiar with methods for valuing fixed income securities.

599 [197] Business Seminar (3). Prerequisites, completion of requisite core course(s) and permission of instructor. Selected topics in business administration presented in seminar format with students engaged in individual and team study under the supervision of a member of the faculty.


611 International Development (3). Examines global poverty from the proposition that nations are poor because their markets do not work. Issues include doing business in an emerging economy and policies to reduce global poverty.


617 [162] Global Marketing (3). Prerequisite, BUSI 406 or equivalent. Examination of the problems involved in marketing products and services across national boundaries. Problem issues include culture, ideology, economics, technical standards, and currency movements.

618 [189] Global Financial Markets (1.5). Prerequisite, BUSI 408 or equivalent. An introduction to the international aspects of financial decision making. Builds on the foundation laid in the basic financial management course. Emphasis on topics of primary interest to the treasurer of a multinational corporation. Particular attention to the determination of exchange rates.


622 Managing Global Operations (3). Managing Global Operations covers topics ranging from expanding overseas to managing a global enterprise, including service, manufacturing and not-for-profit organizations.

623 Global Venturing (3). Examines developing business models that operate locally but compete globally.

650 [196S] Symposium Core Committee (3). Service on the B.S.B.A. Symposium Core Committee to plan, execute, and evaluate the annual event. Permission required.

651 [196X] Business Internship Project (3). Permission required. With prior approval, a student may propose an academic research project (paper and presentation) derived from an internship experience.

690 [195] Business Research Practicum (3). Prerequisites, senior standing and permission of instructor. Under the guidance of faculty member(s), student teams develop, conduct, and evaluate business research projects such as case writing, manager interviews and site visits, and data collection and analysis. Teams are required to submit a final written report and oral presentation from which credit is determined.

691H [198A] Honors Thesis (3). Prerequisites, BUSI 693H, senior major in business administration, 3.5 cumulative grade point average, and permission of the faculty advisor and director. Original investigation of a topic in business administration and preparation of a substantive research project under the direction of a member of the faculty. A written essay and an oral presentation are prepared and submitted to a three-person faculty committee. The committee determines whether the thesis justifies the award of honors status and, if so, recommends to the dean whether the student graduates with honors or with highest honors.

692H [198B] Honors Thesis (3). Prerequisites, BUSI 691H and 693H, senior major in business administration, 3.5 cumulative grade point average, and permission of the faculty advisor and director. Original investigation of a topic in business administration and preparation of a substantive research project under the direction of a member of the faculty. A written essay and an oral presentation are prepared and submitted to a three-person faculty committee. The committee determines whether the thesis justifies the award of honors status and, if so, recommends to the dean whether the student graduates with honors or with highest honors.
693H Honors Research Proposal (3). Open to senior business administration majors with 3.5 minimum cumulative grade average. Permission required. Students learn business research techniques and develop individual proposals for business research. Successful proposals may advance to honors thesis research and writing (BUSB 691H and 692H).

698 [190] Strategic Management (3). Prerequisites, BUSI 101, 401, 403, 404, 405, 406, 408, ECON 320 or 420. Open only to seniors majoring in business administration. Comprehensive analysis of administrative policy making from a total organizational point of view, use of case analysis and written reports to develop integrative decision skills.

School of Education
soe.unc.edu

JILL FITZGERALD, Interim Dean

Wendy Gratz Borman, Assistant Dean

Deborah P. Lane, Assistant Dean

Professors
Frank Brown, Gregory Cizek, Barbara Day, Fenwick English, Jill Fitzgerald, Susan Friel, Henry Frierson, John Galassi, Madeleine R. Grumet, Audrey Heining-Boynton, Catherine Marshall, Judith Meece, George Nobilit, Sam Odom, Rune Simeonsson, Lynda Stone, Gerald Unks, Lynne Vernon-Feagans, William Ware, Barbara Wasik.

Associate Professors
Harriet Boone, Kathleen Brown, Regina Cortina, Jill Hamn, Wallace Hannum, Ryuko Kubota, Carol Malloy, William Malloy, Rita O'Sullivan, Dwight Rogers, Xue Lan Rong, Linda Tillman.

Assistant Professors
Patrick Akos, Cheryl Bolick, Kathleen Gallagher, Jocelyn Glazier, Mary Stone Hanley, Leigh Hall, Steve Knotek, David P. Levine, Eileen Parsons, Sam Song, Olof Steinhorsdottir, James Trier.

Research Professors
Donald Bailey, Donna Bryant, Martha Cox, Stephen Hooper, James Marshall, Peter Ornstein, James Reznick, Pamela Winton.

Research Associate Professors
Virginia M. Buysse, Dina Castro-Burgos, Mary-Ruth Coleman, Gloria Harbin, Deborah Hatton, Beth Kurtz-Costes, Ellen Peisner-Feinberg, Sharon Ritchie.

Research Assistant Professors
Melissa DeRosier, Anita Scarborough, Lorraine Taylor.

Clinical Professors
Suzanne Gulledge, Russell Rowlett, Donald Stedman.

Clinical Associate Professors
Kelly Coker, Daniel Huff, Stanley Schainker, Patricia B. Shane, Neil J. Shipman, Pascal Trohans, Towah Wax, Rhonda Wilkerson.

Clinical Assistant Professors
also need to complete a form stating whether they have ever been convicted of a violation of law other than a minor traffic violation. This information has an impact on the school’s ability to place students in public school field experiences, including student teaching, and also affects eligibility for teaching licensure. Applications are available online at www.unc.edu/depts/ed. Interested students should check with advisors in the General College or on the School of Education website for the application deadline. Questions about application requirements may be directed to the Office of Student Affairs, at (919) 966-1346.

Students who enter the School of Education from the General College are required to fulfill all General Education requirements, select courses appropriate to the major field of concentration, take courses in education designed to meet teacher licensure requirements, and comply fully with all regulations and requirements for graduation from the University.

Requirements Common to All Undergraduate Degree Tracks in Education

In addition to the general University graduation requirements, a student who secures a bachelor’s degree in the School of Education must meet each of the following minimum requirements:
- complete the last 30 hours of the degree in residence at UNC-Chapel Hill (to ensure students take all their professional sequence [EDUC] courses here)
- meet the requirements of an appropriate teaching major in Child Development and Family Studies, Elementary Education, or one of the teaching areas at the Middle Grades level;
- for elementary education students, complete the requirements for a second major academic concentration as well as the required breadth courses;
- earn a grade of C (2.0) or better for each professional course (EDUC) in the School of Education and an overall C+ (2.5) average in the major teaching field.

*Note: a grade of F in any EDUC course will result in a student being academically ineligible to continue in the program.*

Finally, all students must fulfill a semester-long teaching internship in the senior year. For Elementary and Middle Grades, the teaching internship is offered only during the spring semester. For child development and family studies, there are required internships spring semester of the junior and senior year. Students are not permitted to enroll in non education courses during an internship semester nor hold a job which requires weekday hours without permission from the student teacher placement coordinator (which is given only under exceptional circumstances). Because all of the teaching internship areas are offered only spring semester, it is imperative that students plan their programs during the junior year to assure registering for the designated teaching internship during the appropriate semester of the senior year. All courses, except the required education seminars, must be completed before the senior internship semester begins. Students should consult their advising worksheet in order to identify those courses. Most students will find that a car is necessary during the student teaching semester. Student teachers are expected to abide by the public school calendar once they begin full-time student teaching. This means that, in most years, student teachers will not be able to take University spring break.

Because of the professional nature of the curriculum in the School of Education, it is not possible for students in other departments to minor in education or have education as a second major. Education majors who are interested in adding a second major or minor must go through the approval process with their academic advisor in the School of Education.

Majoring in Education (Child Development and Family Studies): Bachelor of Arts

The CDFS program is an interdisciplinary program of study. In addition to taking core courses, students are involved in extensive field-based experiences, with children and families, beginning in the first semester of their junior year. Students also take course work in other schools and departments, including social work, sociology, linguistics, public health, and psychology. The program prepares students to work with young children (aged birth through six years) and their families in a variety of settings, including public and private preschools, public and private kindergartens, and child care settings including infant and toddler programs.

*Total Credit Hours Required: 121 Hours*  
(minimum requirement)

*General Education Requirements*

Please consult the academic advising worksheets for the general education requirements. In some cases, the School of Education requires a particular course to satisfy the requirement.

*Professional Sequence Courses*

All professional courses require a grade of C or better to remain eligible.

**Junior Year**

**Fall Term**  
EDUC 401 Early Childhood Development 4 hours  
EDUC 402 Models of Early Childhood Services 3 hours  
EDUC 403 Working with Families 3 hours  
Specialized track 3 hours  
Required elective 3 hours

**Spring Term**  
EDUC 404 Infant Assessment and Teaching Strategies 3 hours  
EDUC 405 Clinical Internship and Seminar (Infant) 5 hours  
EDUC 406 Introduction to Exceptional Children Seminar 3 hours  
Specialized track 3 hours  
Required elective 3 hours

**Senior Year**

**Fall Term**  
EDUC 501 Preschool/Kindergarten Assessment and Teaching Methods 5 hours  
EDUC 662 Emergent Literacy 3 hours  
Specialized track 3 hours  
Specialized track 3 hours

**Spring Term**  
EDUC 502 Preschool/Kindergarten Internships 12 hours  
EDUC 503 Professional Development and Leadership Seminar 2 hours  
61 hours total
*Specialized Track: 12 hours

Students must take 12 hours of coursework across the two specialization tracks, Community Resource Facilitation and Development and Infant/Child Development Service Provision.

- Community Resource Facilitation and Development: designed to train the early childhood professional to access and coordinate interagency community-based resources for young children and their families.
- Infant/Child Development Service Provision: designed to give students the knowledge and skills to work with young children with specialized health care and developmental needs.

*Required Electives: 6 hours

Majoring in Education (Elementary Education): Bachelor of Arts

The Elementary Education program at the undergraduate level provides students with a broad academic background and the specific professional education necessary to function as teachers of young children (kindergarteners through grade six). To satisfy the General Education requirements of the University, students should try to take many of these courses in the first year and sophomore year, prior to making application. Students are encouraged to begin taking course work in their major academic concentrations as early as possible.

During the junior and senior years, the professional education courses and student teaching will provide a range of experiences that will include working with children at the levels identified with the elementary program.

*Total Credit Hours Required: 120 Hours

(Minimum requirement; some major academic concentrations require more hours than others.)

*General Education Requirements

Please consult the academic advising worksheets for the general education requirements. In some cases, the School of Education requires a particular course to satisfy the requirement.

*Professional Sequence Course

(50 hours) All professional courses require a grade of C or better to remain eligible.

**Fall Junior Year**

EDUC 412 Development and Learning in the Elementary Classroom
EDUC 413 Emergent Literacy

**Spring Junior Year**

EDUC 403 Working with Culturally Diverse Families
EDUC 415 Culture, Society, and Teaching
EDUC 414 Literacy across the Curriculum for Elementary Education
EDUC 416 Aesthetics: The Arts, Culture, and Learning

**Fall Senior Year**

EDUC 512 Mathematics in Elementary Grades
EDUC 513 Teaching Reading and Language Arts (K-6)
EDUC 514 Teaching Science in the Elementary School
EDUC 515 The Arts as Integrative Teaching
EDUC 516 Exceptional Children Seminar (A) and Field Placement

**Spring Senior Year**

EDUC 517 Exceptional Child Seminar (B)
EDUC 518 Student Teaching in Elementary Grades
EDUC 519 Seminar on Teaching Elementary Grades

*Major Academic Concentration: 24-49 hours

Beginning in fall 1999, first-year elementary education majors must fulfill the requirements for an interdisciplinary major as their major academic concentration. Four interdisciplinary majors have been approved for elementary education majors: (1) the arts, (2) language and literature, (3) math, science, and computer technology, and (4) social sciences. Each interdisciplinary major has a breadth (6-9 hours) and depth (15-19 hours) component.

**Breadth Courses**

Students who choose the arts, language and literature, or social sciences interdisciplinary major choose one course from each subject area outside their concentration area, for a total of three breadth courses. Students in the math, science, and computer technology concentration choose one language and literature breadth course and one social science breadth course for a total of two courses. (These students take an additional depth course in math or science.)

**Language and Literature:**

Choose one from ENGL 400; COMM 160, 162, 261; INLS 530, 532.

**Mathematics:**

Choose one from MATH 307 or MATH 411

**Science:**

Choose one from ASTR 101 and 101L; CHEM 200; GEOL 101 and 101L; PHYS 100.

**Social Science:**

Choose one from AFAM 102, 258; ANTH 143, 102; HIST 127, 128, 143; POLI 100, 122, 124, 130

**Interdisciplinary Major Depth Courses**

The Arts (five courses)

Required: Oral Interpretation of Literature (choose one): COMM 160, 162, or 261

For the remaining four courses, choose two from one sub-focus area (music, the visual arts, or dramatic art) and one from each of the other two sub-focus areas.

**Subfocus 1: Music**

MUSC 121, 141, 142, 143, 144, 145

Note: No more than three credit hours from the applied study ensembles are permitted. All individual lessons are one credit hour.

**Subfocus 2: The Visual Arts**

Introductory Level Courses

ART 151, 152, 450, 287, 286

Intermediate Level Courses with an Introductory Course Prerequisite

ART 155, 254, 387

Advanced Level Courses with Prerequisite of Intermediate Level Course

ART 451

**Studio Courses**

ART 103

**Subfocus 3: Dramatic Art**

DRAM 115, 120, 135, 140, 240, 281, 282
Language and Literature (five courses)
Select one area of subfocus: English as a second language, modern romance language (Spanish or French), or language and literature.

Subfocus 1: Modern Romance Language
(French or Spanish)
Choose one: Fluency Courses
FREN or SPAN 204; FREN or SPAN 300
Choose two: Literature Courses
FREN or SPAN 260; FREN 372; SPAN 373; FREN 375
Choose two: Language/Civilization Courses
FREN or SPAN 315; FREN or SPAN 330; FREN 331 or SPAN 340; SPAN 350; FREN 350;

Subfocus 2: Language and Literature
Required: ENGL 400
Choose one: Children's Literature:
INLS 530 or 532
Choose one: Oral Interpretation of Literature: COMM 160, 162, 261;
ENGL 146, 147
Choose one: Non-American/Non-British Literature:
AFRI 262; ASIA 350; CHIN 252; CMPL 121, 122, 393; ENGL 367, 369; FREN 260, 275, 277; ITAL 242; PORT 270, 275; RUSS 274; SPAN 260, 270, 275
Choose one more from any of the subfocus courses listed above.

Math, Science
Sciences: (three courses/at least one with lab)
Choose one: CHEM 101 and 101L or CHEM 200
Choose one: PHYS 100, 101, or 104
Choose one: ASTR 101 and 101L; BIOL 271, 272, 277, 278 and 278L;
GEOG 111; GEOL 103, 159 and 159L
Mathematics (three courses)
Choose one: MATH 307 and MATH 411
Choose one: STOR 151 or 155**
(**Prerequisite MATH 152 or 231)

Social Studies
Five courses, three of which must be above the 200 level

Category I:
Minority Groups in the United States (choose one):
AFAM 102, 274, 258; ANTH 230, 440, 350; ASIA 350;
HIST 362, 322, 589; POLI 274, 217; PSYC 503, 467;
RELI 141; SOCI 124, 380, 444; WMST 101

Category II: Western Hemisphere (choose two)
A. The United States (one course)
AMST 101; ANTH 340; COMM 318; ECON 390; GEOG 260, 262, 428, 454, 261; HIST 565, 580, 573, 586; POLI 100, 405, 410;
SOCI 115, 122
B. The Western Hemisphere Other than the United States (one course)
AFAM 254; ANTH 231; HIST 143, 281, 530; POLI 238, 231, 434, 435, 450

Category III:
Third-World Culture (choose two)
AFRI 101, 480; ANTH 226, 102, 103, 320, 429; GEOG 120, 130, 265, 267, 268; HIST 134, 282, 288; POLI 241, 250; RELI 183

Category IV:
Family and/or Community (choose one OR take a second course from Category II A)
CDFS 403; PSYC 468; SOCI 130, 425.
Free Electives (0-7 semester hours)
Total number of academic credit hours required is 120-126.5 semester hours.

Majoring in Education (Middle Grades Education): Bachelor of Arts
The Middle Grades education program provides students with a strong academic background in arts and sciences and the specific professional education necessary for successful teaching in middle schools and junior high schools (grades six through nine). Students who desire to earn initial licensure to teach at the high school level may choose to pursue the "Middle Grades Plus" option. Based on North Carolina State Board policy licensure opportunities, a candidate may add subject area licensure for teaching grades 9-12 by successfully completing the Middle Grades licensure requirements and also passing the appropriate subject matter PRAXIS Test II. Students selecting the Middle Grades education program must complete the General College requirements of the University. Students working for this degree will be required to have two academic concentrations: one will be the major and one will be a minor concentration. In addition, students complete the professional education courses during their junior and senior years.

*Total Credit Hours Required: 120 hours.
(Minimum; some major academic concentrations require more hours.)

*General Education Requirements:
Please consult the academic advising worksheets for the general education requirements. In some cases, the School of Education requires a particular course to satisfy the requirement.

*Professional Sequence Course: (30 hours)
All professional courses require a grade of C or better to remain eligible.

Fall Junior Year
EDUC 465 The Teaching Profession
EDUC 466 Planning for Teaching
EDUC 467 Planning for Teaching Lab

Spring Junior Year
EDUC 469 Developing Skills for Teaching

Fall Senior Year
Two of four, EDUC 563-566:
EDUC 563 Teaching Language Arts in the Middle Grades
EDUC 564 Teaching Social Studies in the Middle Grades
EDUC 565 Teaching Science in the Middle Grades
EDUC 566 Teaching Mathematics in the Middle Grades

Spring Senior Year
EDUC 568 Seminar on Teaching
EDUC 569 Teaching Internship

*Major Academic Concentrations: 21-34 hours

Language Arts: 21 hours
ENGL 400
ENGL 301, 302, 313 or 314
ENGL 225, 265
One from ENGL 485, 684, 487, 587, or 589
One from ENGL 439, 440, 344, 367, 369, 446, or 373
COMM 160
INLS 530 (or approved substitute)

**Mathematics: 21 hours**
- MATH 231
- MATH 232
- MATH 381
- MATH 551
- MATH 307
- MATH 411
- STOR 151 or 155

Choose one: COMP 110, MATH 515
*(Note: Some of the courses above have prerequisites.)*

**Social Studies: 21 hours**
- ECON 101
- HIST 128, 362 or 377
- HIST 162, 210, 260, 262
- HIST 366 or 367
- POLI 100
- One from SOCI 101, 111, or 130
- One from HIST 130, 133, 134, 136, 139, 187, 276, 282, 537, 538; POLI 226, 236, or 250

**Science: 31-34 hours**
- BIOL 101 and 101L
- CHEM 101 and 101L or 200
- GEOL 101 and 101L
- PHYS 100, 101, or 104 and lab
- ASTR 101 and 101L, or GEOG 111

One science course from any area beyond introductory courses

**Biology concentration:** Two biology courses from sophomore level or higher. (May include GEOL 211)

**Physics concentration:** Two physics courses from sophomore level or higher

**Chemistry concentration:** Two chemistry courses from sophomore level or higher

**Geology concentration:** Two geology courses from sophomore level or higher

*Minor Academic Concentrations: 15-21 hours*

**Language Arts Minor: 15 hours**
- ENGL 400
- ENGL 313 or 314
- One from ENGL 130, 131
- INLS 530 or EDUC 567
- One from ENGL 301, 302, 343, 344, 367, 369, 373-339, 440 or 446

**Mathematics Minor: 21 hours**
- MATH 231 and 232
- MATH 381
- MATH 307 or 411
- COMP 110

One from MATH 233, 416, or STOR 155
*(Note: Some of the courses above have prerequisites.)*

**Social Studies Minor: 18 hours**
- GEOG 120
- One from ANTH 101, 102; SOCI 101, 111, or 130
- HIST 366 or 367
- POLI 100 or ECON 101

Two from HIST 162, 133, 187, 282, 537, 538; POLI 226, 236, or 250

**Science Minor: 17-20 hours**
- BIOL 101 and 101L
- CHEM 101 and 101L, or 200
- GEOL 101 and 101L
- PHYS 100, 101, or 104 and lab
- ASTR 101 and 101L or GEOG 111

*Electives: 0-9 hours*

**Honors in Education**

During the spring semester of the junior year, an honors student in education participates in the honors seminar. During the fall semester of the senior year, the student prepares an honors thesis, on which there is an oral examination. The program is limited in enrollment and open on a space-available basis to students with a minimum grade point average of 3.4.

**Establishing Licensure**

North Carolina licensure requirements are distinct from the School of Education's degree requirements. In their senior year, Elementary education (K-6) students who plan to obtain licensure upon graduation must pass Subject Assessment Tests (PRAXIS II). Child Development and Family Studies students who wish to teach kindergarten must take the Elementary Subject Assessment Tests (PRAXIS II). Middle Grades education students who do not have 24 hours of coursework in their content area must take the Subject Assessment Test (PRAXIS II) in that area.

Fees are charged for all PRAXIS examinations. Information and application forms are available at the University Counseling Center in the Student Health Services Building, 110 and 112 Steele Building, and 103 Peabody Hall. PRAXIS information is also available online at www.ets.org/praxis.

Early in the semester in which a student plans to apply for graduation, initial teacher licensure forms for North Carolina must be completed and submitted to the licensure office in 103 Peabody. Licensure application information is now available by program on the School of Education web site. After the official posting of a degree, the licensure application is processed by the School of Education's licensure officer and forwarded to the North Carolina State Department of Public Instruction.

The programs described in this bulletin are approved by the North Carolina State Department of Public Instruction and the National Council for the Accreditation of Teacher Education.

**Special Opportunities in Education**

**Alternative Teaching Licensure Programs**

For students who do not major in education, but who wish to seek licensure for teaching, the School of Education offers licensure only and lateral entry programs. Information about these programs may be obtained by contacting the Office of Student Affairs at (919) 966-1346.

**Contact Information**

Questions and requests should be directed to the Office of Student Affairs in 103 Peabody Hall or by phone at (919) 966-1346.

**EDUC**

**121 [021] Introduction to Education (2).** Provides a basic introduction to teaching and education. This course is comprised of a seminar based with field placements in different levels of schools.

131 [031] Career Exploration (1). Provides students an opportunity for exploration of career choices.

221 Children in Schools: Tutoring the Older Child – Elementary and Middle School (1). Combines tutoring training with a field placement for tutoring in literacy and mathematics in grades 4 through 8.

222 [024] Teaching Fellows Seminar: Teaching, Creativity, and the Arts (1). Focuses on the relationship among arts, creativity, and education.

250 [050] Risk and Resiliency: Challenges and Opportunities in Education (4). Explores factors that put children at risk for educational failure and interventions to increase resiliency. Service and learning experiences in educational and community agencies are integral to the course.

302 [193] Study Group Research I (1-3). Prerequisites, EDUC 600, enrollment in the M.Ed. for experienced teachers program. Explores the meanings of research and the potential roles of teachers in conducting research. Teachers formulate possible individual or small group research projects that they can carry out during the year.

307 [067] Revisiting Real Numbers and Algebra (MATH 307) (3). Central to teaching pre-college mathematics is the need for an in-depth understanding of real numbers and algebra. This course explores this content, emphasizing problem solving and mathematical reasoning.

401 [050] Early Childhood Development (4). Prerequisites, PSYC 101 and 250, permission of the instructor. This course addresses major theories of child development for young children with and without disabilities from birth to six years across the cognitive, social/emotional, language/communication, and physical, perceptual-motor development domains. Biological, environmental, and sociocultural influences on typical and atypical development are examined concurrently. Students participate in field-based component in area early childhood programs allowing for observation and interaction with young children birth to six years of age with and without disabilities.

402 [080] Models of Early Childhood Service Delivery (3). This seminar serves as an introduction to the field of child development and early childhood education and special education. Students learn about the primary professional disciplines and agencies serving young children and their families. Current policy, recommended practices, and research innovations are reviewed.

403 [111] Working with Socioculturally Diverse Families of Young Children (3). Prerequisites, SOCI 130, permission of the instructor. This course provides an analysis of issues related to contemporary families of young children. The family is viewed within individual social and cultural contexts as well as a family systems orientation.

404 [060] Infant/Toddler Assessment and Teaching Strategies (3). Prerequisites, EDUC 401 and permission of instructor. This course provides students with knowledge of program models and curricula/intervention strategies for working with infants and toddlers with and without disabilities. Additionally, information is provided regarding identification and assessment strategies for the infant and toddler. Program models for working with families are emphasized.

405 [090] Infant/Toddler Internship and Seminar (5). Prerequisites, EDUC 401 and permission of instructor; corequisite, EDUC 404. Students are placed in inclusive center-based settings for infants and toddlers. The internship is taken in conjunction with EDUC 404. This field-based experience gives students the opportunity to practice assessment and instructional strategies for working with this age range. Students are required to be in their internship placements approximately 12 hours per week. A weekly seminar is held in conjunction with this internship to serve as a forum for integrating students' infant/toddler internship experiences with early childhood recommended practices presented in EDUC 404.

406 [101] Introduction to Child Health Services (3). Prerequisite, permission of the instructor. This course addresses policy and service delivery issues related to children with disabilities from birth through school age. Surveys giftedness and various disabling conditions: mental retardation, emotional disturbance, learning disabilities, speech impairment, hearing impairment, vision impairment, orthopedic impairment, and neurological impairment. Intervention strategies for children with severe and multiple disabilities will be addressed. Cross-listed with EDUC 695.

412 [071] Learning and Development in the Elementary Classroom (6). Prerequisite, admission to the elementary education program. This course focuses on the connection between child development and learning theories, assessment, and classroom practices for elementary children. The course provides competencies related to the implementation of developmentally and culturally appropriate teaching strategies and assessment, including methods for fostering cognitive, social, physical, language/communication/literacy, and emotional development.

413 [052] Emergent Literacy for Elementary Education (1). Focuses on the development of reading and writing processes from birth through first grade, emphasizing typically developing children.

414 [053] Literacy across the Curriculum for Elementary Education (1). Provides rationale and practical methods for integrating reading and writing with content areas in the elementary school.

415 [073] Culture, Society, and Teaching (6). Prerequisite, EDUC 412. Emphasizes the interconnection of classroom, school, and society; the role of cultural beliefs in education; and social studies instruction. A field-based course. Activities include observation and participation in a classroom and teaching social studies.

416 [004] Aesthetics Education: Arts, Culture and Learning (3). Introduction to developmental aspects of children's art and to the application of art materials and processes to teaching at the elementary and intermediate levels.

421 [058] Community Organizations and Children I (1). Provides an understanding of the community contexts of schools and an experience working in community group. This is the first semester of two-semester course.

422 [059] Community Organizations and Children II (1). Prerequisite, EDUC 421. Provides prospective teachers with an
understanding of the community contexts of the schools. Second semester of a two-semester course.

441 [041] Education in American Society (3). Primarily for students not majoring in education and may be taken by education majors only as an elective. A reflective examination of beliefs and attitudes associated with (1) the historical, philosophical, sociological, political, and economic forces affecting education and schooling in the United States; (2) the structure and function of the school system; and (3) current issues and trends in American schooling and education.

465 [065] Introduction to Teaching (offered concurrently with EDUC 466) (2). Prerequisite, admission to the middle grades teacher education program. Initiates students into the teaching profession. The course stresses what it is like to be a teacher, with concurrent emphasis on the life of the student and the study of schools.

466 [066] Planning for Teaching in the Middle Grades (offered concurrently with EDUC 465) (3). Prerequisite, admission to the middle grades teacher education program. Helps students learn how to plan and develop skills to meet the unique and diverse needs of young adolescents as they prepare to teach.

467 [066] Planning for Teaching in the Middle Grades Lab (1). Prerequisite, enrollment in EDUC 466. Provides the classroom-based experiences required for observation and application of skills acquired in EDUC 466.

469 [069] Developing Skills for Teaching (3). Prerequisites, EDUC 465, 466. Helps students develop a variety of basic teaching skills used by classroom teachers. This course will be conducted primarily as a laboratory course.

496 [125] Independent Study (1-3). Prerequisite, permission of the instructor. Provides readings and research under the direction of a faculty member. May be repeated for a maximum of six credit hours. (Formerly EDSP 199)

501 [061] Preschool/Kindergarten Assessment and Teaching Strategies (5). Prerequisites, EDUC 401, 404; permission of instructor. This course addresses the link between child developmental theories, assessment, and classroom practices for children three to six years of age. Students will practice assessment and curriculum projects in their preschool and kindergarten student teaching sites 6-8 hours per week.

502 [092] Preschool/Kindergarten Student Teaching and Seminar (3-12). Prerequisites, EDUC 401, 404, 501, 505; permission of instructor. The preschool and kindergarten clinical internship provides students with a supervised field-based experience with typically and atypically developing children and their families. Additionally, this internship provides an opportunity for students to apply competencies (i.e., knowledge, attitudes, and skills) learned and developed in courses prior to this experience. This 40-hour-per-week internship is devoted exclusively to the student's functioning in a professional capacity for eight weeks in a community preschool classroom and eight weeks in a public school kindergarten classroom. A weekly seminar serves as a forum for students to discuss recommended practices from the early childhood literature presented in EDUC 501 and their experiences in their student teaching sites.

503 [121] Professional Development and Leadership Seminar (2). Prerequisite, permission of the instructor. This course is designed to help students gain knowledge about effective strategies for professional development within the early childhood and early intervention fields. Specific topics include leadership styles and skills; professional identity and roles; methods of collaboration to achieve individual and organizational change; current child and family policy issues; and program administration and evaluation. Students will demonstrate knowledge of these competency areas and the value of lifelong learning within one's profession through action plans and portfolio development.

512 [012] Teaching Mathematics In Elementary Education (4). Prerequisites, EDUC 412, 415; one college mathematics course. Provides a study of the pedagogy related to teaching mathematics in elementary programs. This course is taught in an elementary school and must be taken in the fall of senior year.

513 [051] Teaching Reading and Related Language Arts (K-6) (4). Prerequisites, EDUC 412, 415. A survey course for K-6 majors on the nature of reading and other language arts. The course is taught at an elementary school. Required of all K-6 majors and must be taken in the fall of the senior year.

514 [060] Teaching Science in the Elementary School (3). Prerequisites, EDUC 412 and 415. Methods and materials for teaching science will be taught, with an emphasis on inquiry and an integrated unit approach.

515 [068] The Arts as Integrative Teaching (2). Prerequisites, admission to the elementary education program or the child development and family studies program. Explores integration of the arts in the curriculum.

516 [074] Exceptional Children Seminar and Field Placement (2). Prerequisite, admission to the elementary education program. This seminar introduces students to teaching children with special needs in the general classroom. Students will complete a case study on an individual child with learning difficulties while in the field placement.

517 [075] Exceptional Children Seminar and Field Placement (II) (1). Prerequisite, admission to the elementary education program. This seminar proceeds similarly to EDUC 516.

518 [062] Student Teaching in Elementary Grades (1-12). Prerequisites, EDUC 512, 513, 514, 415, 516, 517. Provides full-time experience in an elementary school classroom under the supervision of an experienced teacher and a University supervisor during ten or more weeks.

519 [097] Seminar on Teaching the Elementary Grades (offered concurrently with EDUC 569) (3). Prerequisites, EDUC 465, 466, 469, and 568. This seminar provides the student an opportunity to reflect on teaching and the teaching profession by integrating knowledge about teaching with observations about teaching made during the internship.

521 Schools, Cultures, and Communities I (3). Prerequisite, permission of the instructor. Explores current issues dealing with schools and the cultures and communities they encompass.

522 [091] Schools, Cultures, and Communities II (3). Prerequisite, EDUC 521 or permission of the instructor. Continues to explore current issues dealing with schools and the cultures and communities they encompass.

531 Effective Teaching: First Steps (2). Characteristics of effective teachers, classroom management, instructional methods,
instructional planning and presentation, monitoring and assessing student behavior and learning, differentiating instruction, yearly plans and pacing guides.

532 Effective Teaching: Understanding Students (2). Physical, social and psychological development of students, implications for teaching, styles of learning, levels of thinking, development of problem-solving skills, cognitive and behavioral learning theory, motivation, influences on students' worlds.

533 Effective Teaching: Diversity (2). Cultural diversity, family support systems, language differences, special needs, using diversity to enrich the classroom, matching instruction to student needs, characteristics of diverse learners and how they impact teachers and students.

534 Effective Teaching: Assessment (2). Methods of assessment, multiple measures, monitoring student performance, to inform and improve instruction, understanding students with special needs, with individual Education plans, test scores and other information in student files.

535 Teachers and Schools (2). Leadership in classroom and school with families, standards of practice, advocating equity, supporting teaching profession, school organization, school finance, legal issues/education strategies for environments that promote learning, issues and trends.

540 Mathematics Teaching (2). NCTM Standards, Standard Course of Study, developing student understanding of mathematics, problem-solving skills, and professional commitment.

541 Mathematics Problems for Instruction (2). Mathematical tasks for learners, grade 6-12, and instructional methods necessary to maintain a task at a high cognitive level.

542 Planning for Mathematics Instruction (2). Examining patterns of practice and assessment, modifying and improving planned units, pacing instruction, reconsidering individual differences and differentiation.

550 Science Teaching (2). Nature of science, national science standards, teaching science as inquiry, safety in the science classroom, materials management.

551 Designing Science Tasks (2). Prerequisite, EDUC 550. Developing and redesigning science instruction to actively engage students with emphasis on classroom management for energetic curricula, modifying tasks and projects, assessment strategies, and utilization of resources.

552 Improving Science Instruction (2). Prerequisite, EDUC 551. A practitioner's look at instruction in middle and high school science classroom using many current pedagogical approaches of instruction: constructivism, models of inquiry, reflective practice and conceptual change theory.

555 Constructive Coaching I: Starting Out Right (2). Designed to support lateral entry candidates, solving the most urgent problems in the classroom. Includes frequent online communication, individualized attention to immediate problems and combines supervision, coaching, and mentoring.

556 Constructive Coaching II: Effective Management of Student Behavior (2). Prerequisite, EDUC 555. Course designed to help lateral entry candidates by improving their classroom management skills, specifically those related to student behavior.

557 Constructive Coaching III: Helping Students Learn (2). Prerequisite, EDUC 556. Course designed to support the lateral entry candidates through individualized feedback about concerns, focusing on strategies for increasing student learning using content area literacy strategies.

560 Second Language Teaching (2). Methods of teaching a second language, how people learn foreign languages, planning instruction, getting students to communicate, using and adapting foreign language textbooks, and developing lessons.

561 Designing Second Language Tasks (2). Students examine instruction as effective mechanism for classroom management, choosing, redesigning tasks, projects to engage students active learning, Assessment of student understanding investigated as necessary for development of effective instruction.

562 Improving Second Language Instruction (2). Students will consider national standards frameworks, organizing principles for instructional strategies. Will develop skills by use of culturally authentic materials, performance based assessment creating units and lessons promoting successful language learning.

563 [083] Teaching Language Arts in the Middle Grades (3). Prerequisite, admissions to the middle grades education program. Focuses on the goals and methods of teaching language arts in the middle grades, including planning for student diversity and unit planning. (Formerly EDUC 568)

564 [084] Teaching Social Studies in the Middle Grades (3). Prerequisite, admission to the middle grades education program. Focuses on the goals and methods of teaching social studies in the middle grades. (Formerly EDUC 568)

565 [085] Teaching Science in the Middle Grades (3). Prerequisite, admission to the middle grades education program. Focuses on methods for teaching science in the middle grades and includes emphasis on the individual needs of students, classroom instruction and unit planning. (Formerly EDUC 568)

566 [086] Teaching Math in the Middle Grades (3). Prerequisite, admission to the middle grades education program. Focuses on methods for teaching mathematics in the middle grades and includes emphasis on the individual needs of students, classroom instruction and unit planning. (Formerly EDUC 568)

567 [105] Literature in Middle School (3). Explores literature in contexts of interdisciplinary middle school curricula and the interests and needs of young adolescents. Topics include reader response theory, censorship, Internet resources, school resources, methods. (Formerly EDUC 198)

568 [095] Seminar on Teaching (offered concurrently with EDUC 569) (3). Prerequisites, EDUC 465, 466, and 469.

569 [096] Teaching Internship (offered concurrently with EDUC 569) (1-21). Prerequisites, EDUC 465, 466, 469. This internship gives students the opportunity to plan instruction and to teach with increasing degrees of responsibility. The internship will be in a school setting under direct supervision of a classroom teacher.

600 [116] Reinventing Teaching (3). Prerequisite, admission to the M.Ed. for experienced teachers program. Addresses contexts of teaching, teaching in the world, and teaching students in schools. This course is designed for experienced educators to reinvent teachers and teaching.
601 [100] Education Workshops (1-21). Prerequisite, permission of the director of the professional studies division. Workshops designed around education topics primarily for licensed K-12 teachers.

612 [118] Social Studies and Arts (1-9). Looks at social studies as a discipline that easily integrates other disciplines, particularly the arts, which includes literature. It emphasizes curriculum and instruction, as well as theoretical underpinnings.

617 [128] Introduction to Communication Disorders (COMM 684) (3). Explores the etiology, epidemiology, assessment, and educational implications of speech and language disorders. (Formerly EDSP 143)

620 [122] Introduction to School Psychology (3). Introduces the student to concepts and methods involved in school psychology. (Formerly EDSP 120)

621 [115G] Explorations in Literacy (3). Explores what it means to be a reader and writer, the nature of development of literacy.

626 [106] Pedagogical English Grammar for ESL Teachers (3). Enhances foreign and second language educators’ understanding of English grammar, expanding their skills in linguistic analysis, and learning to develop a more pedagogically sound approach to the teaching of English grammar. (Formerly EDUC 627)

627 [107] Pedagogical Linguistics for ESL Teachers (3). Provides future English as a second language teachers with advanced concepts in linguistics and comparative linguistics. Topics such as phonology and morphology will be covered. (Formerly EDUC 108)

628 [109] Methods of Teaching English as a Second Language (3). Covers teaching methods, assessment, and resource issues related to helping the ESL learner. Additional topics include theories of language learning and the relationships between culture and language. (Formerly EDI 180)

629 [150] Language Minority Students: Issues for Practitioners (ANTH 629) (3). Prerequisite, open by permission of instructor. Explores issues of culture and language associated with teaching English as a second language. (Formerly EDUC 180)

631 [131] Program Development for Special Populations (3). Prerequisite, permission of the instructor. Reviews issues associated with program development for children who are experiencing uneven success in school because of poor attendance, poverty, drug and alcohol abuse, disabling conditions, parental abuse, or violent behaviors. (Formerly EDSP 283)

641 [141] Introduction to Teaching (3). Prerequisite, admission to the M.A.T. program. Introduces the principles of effective teaching with emphasis of the first year of teaching. (Formerly EDUC 150)

642 [142] Introduction to Schools (3). Prerequisite, admission to M.A.T. program. Provides an examination and overall view of schools that introduces topics such as the cultures of schools, professionalism, connections with other communities, multiculturalism, and special populations. (Formerly EDUC 151)

644 [144] Learner and Learning I (3). Prerequisites, EDUC 641, 642. Provides prospective teachers a conceptual understanding of child/adolescent development in order to enable them to interpret student behavior in a valid manner. (Formerly EDUC 160)

645 [145] Contexts of Education I (3). Prerequisites, EDUC 641, 642; permission of the instructor. Focuses on the social contexts of schools; conditions of teaching, relations among students, teachers, and administrators; equitable educational opportunity; and educational philosophies. This course is part one of a two-course sequence. (Formerly EDUC 161)

646 [146] Practica Student Internship (3). Prerequisites, EDUC 641, 642. Provides the opportunity to observe and become involved with all aspects of teaching and schools within their content area. (Formerly EDUC 165)

647 [147] Methods and Materials for Teaching Secondary/K-12 Subjects I (3). Prerequisites, EDUC 641, 642. Prepares students to teach the English language arts at the secondary level. The immediate purpose of this course is to prepare participants for full-time student teaching during the spring semester. (Formerly EDUC 170)

648 [148] Methods and Materials for Teaching Elementary Music I (3). Prerequisites, EDUC 641, 642. Equips students with resources and experiences to facilitate entry as a specialist in the elementary music classroom. (Formerly EDUC 175)

652 [151] Principles of Instructional Design (3). Studies the design and production of instructional materials incorporating goal analysis, learning task analysis, behavioral objectives, entry behavior, criterion tests, instructional strategies, design planning, and formative evaluation. (Formerly EDI 115)

662 [162] Emergent Literacy (3). This course focuses on the development of literacy processes (reading and writing) at the birth through first grade level. Means of nurturing emergent literacy are represented and explored for parents, early caregivers, and preschool through first grade teachers. Students will practice literacy-based activities in preschool and kindergarten programs throughout the semester. (Formerly EDUC 199)

664 [164] Families and Teams in Early Childhood Intervention: Interdisciplinary Perspectives (3). Open to graduate students only. Explores issues and models of family-professional and interprofessional relationships in early childhood settings. Collaborative communication and problem solving strategies are emphasized in the context of diversity. (Formerly EDUC 230)

665 [165] Early Childhood Assessment Strategies (3). Open to graduate students only. Provides an overview and application of strategies for developmental screenings, normative evaluations, curriculum, and play-based assessments for young children ages birth through five. (Formerly EDUC 231)

666 [166] Preschool/Kindergarten Curriculum and Learning Environments (3). Open to graduate students only. Focuses on individually, developmentally, and culturally appropriate learning environment and curriculum strategies for young children with and without disabilities ages three to five. (Formerly EDUC 232)

667 [167] Infant/Toddler Curriculum and Learning Environment (3). Focuses on infant/toddler development and mental health strategies for facilitating development in the home and child care. (Formerly EDUC 235)

668 [168] B-K Internship (1-2). Provides an opportunity for students to synthesize and apply research and recommended practices in their work settings or in an assigned internship setting. (Formerly EDUC 240)
672 [178] Seminar in Educational Studies (3). Focuses on educational issues involving culture, curriculum, and change. Issues addressed will vary.

681 [181] Human Development (3). Emphasizes theories of child and adolescent development plus research findings that aid in the understanding of human behavior and development. Open only to majors in the School of Education. (Formerly EDFO 101)

682 [130] Behavioral Support Techniques (3). Emphasizes effective behavior management and applied behavior analysis techniques for intervening in the environments of exceptional children to increase learning. (Formerly EDFO 179)

683 [183] Educational Measurement and Evaluation (3). Identifies the basic concepts in measurement and evaluation, describes the role of evaluation in curriculum construction and revision, and describes the development and use of teacher-constructed tests. (Formerly EDFO 106)

684 [184] Statistical Analysis of Educational Data I (4). Studies descriptive and inferential statistics for educational research, including an introduction to fundamentals of research design and computer data analysis. (Formerly EDFO 180)

686 [186] The Psychology of Adult Learning (3). Focuses on knowledge and application of learning principles and conditions for facilitating learning in adults. (Formerly EDFO 103)

687 [191A] Reading and Writing Methods for Students with Learning Disabilities (3). Explores the characteristics of students with learning disabilities in the areas of reading and writing. Students will learn assessment techniques and instructional methods specific to addressing these characteristics. (Formerly EDSP 247)

688 [191B] Math and Content Areas for Students with Learning Disabilities (3). Explores the characteristics of students with learning disabilities in math, social studies, and science. Students will also learn assessment techniques and instructional methods specific to addressing these characteristics. (Formerly EDSP 247)

691H [093H] Honors Seminar in Education (3). Prerequisite, honors candidate in the School of Education. Integration of critical analysis of selected educational themes, introduction to methods of educational research, and intensive work in skills of reading critically and writing. Required for graduation with honors in education.

694H [094H] Honors Thesis in Education (3). Prerequisite, EDUC 691H with a grade of B or better. Preparation of an honors thesis under the direction of a member of the School of Education faculty and an oral examination on the thesis. Required of all candidates for graduation with honors in education.

695 [127] Introduction to Exceptional Children (3). Surveys giftedness and of various disabling conditions: mental retardation, emotional disturbance, learning disabilities, speech impairment, hearing impairment, vision impairment, orthopedic impairment, and neurological impairment. (Formerly EDSP 130)

EDUX

615 [194A] Assessment and Differentiation (1). Prerequisites, EDUC 600, enrollment in the M.Ed. for experienced teachers program. Enhances teachers' understanding of how to differentiate assessment.

616 [194B] Teaching and Differentiation (1). Prerequisite, enrollment in the M.Ed. for experienced teachers program. Enhances teachers' understanding of how to differentiate instruction. Using a case-based approach, teachers examine the areas of human development, special education and inclusion, cultural diversity, linguistic diversity, cognitive styles, and multiple intelligences as frames through which to consider creative environments to promote students' classroom success.

622 [126] Content-Area Reading and Writing (3). Focuses on current theory, research, and issues in the teaching and use of reading and writing in the content areas. This is an introductory course. (Formerly EDUC 153)

626 [121] Revisiting Real Numbers Concepts (3). Uses a problem-based format and group work to explore the mathematics of the real numbers with an emphasis on rational numbers.

675 Seminar in Science Education (3). Teaches students curriculum and instruction strategies in science education. The focus of the course is on teaching and assessing science for conceptual understanding.

676 Perspectives on Science Education: Physical Science (3). Examines physical science domains in depth. Students reflect on their own understandings of science phenomena and research their students' understandings.

677 Perspectives on Science Education: Life Science (3). Studies the history of science education, curriculum design, and national reform ideas as well as projects and programs currently used in U.S. classrooms.

School of Information and Library Science
sils.unc.edu

JOSÉ-MARIE GRIFFITHS, Dean and Professor
Claudia Gollop, Associate Dean, Summer School Director
Paul Solomon, Senior Associate Dean and Francis Carroll McCall Professor

Professors
Evelyn Daniel, Stephanie Haas (Francis Carroll McCall Professor) Robert Losee, Gary Marchionini (Cary C. Boshamer Distinguished Professor), Joanne Marshall (Alumni Distinguished Professor), Sarah C. Michaelak, Barbara Moran, Jerry Seye, Helen Tibbo, Barbara Wildemuth.

Associate Professors
David Carr, Claudia Gollop, Jane Greenberg, Sandra Hughes-Hassell, Paul Solomon, Brian Sturm, Mark Winston.

Clinical Associate Professor
Paul Jones.

Assistant Professors
Deborah Barreau, Catherine Blake, Brad Hemminger, Diane Kelly, Christopher Lee, Jeff Pomerantz.

Research Emeritus Faculty
Edward Holley (William Rand Kenan Jr. Professor)

Distinguished Research Professor
Donald W. King
Introduction
The School of Information and Library Science (SILS) was founded in 1931 and is one of the most highly regarded graduate programs of its kind in the nation. The school first offered a minor in information systems in 1997 and initiated a major in information science in 2003. UNC-Chapel Hill is the only university in the state offering a bachelor’s degree in information science and is one of only a handful of schools nationwide offering such a program.

Information science is the study of cognitive, social, technological, and organizational roles of information in all its forms. It rests on three foundational pillars: (1) the content or substance of the information being created, communicated, stored, and/or transformed; (2) people who interact with the content as creators of information, recipients of information, or intermediaries in the communication process; and (3) technology used to support the creation, communication, storage, or transformation of the content.

The bachelor of science in information science is designed to prepare its graduates for a variety of careers in the information industry, including information architecture, database design and implementation, Web design and implementation, networking support, and information consulting, as well as for graduate study. The minor in information systems provides students with an understanding of computing, networking, multimedia, electronic information resources, and the Internet that complements their major field of study. Students concentrate their studies in the junior and senior years.

Programs of Study
The degree offered is bachelor of science in information science. A minor in information systems is also offered.

Admission to the School of Information and Library Science
Undergraduate students who have completed at least the first semester of their sophomore year may apply for admission to either the major or minor program.

Participation is limited, and admission is competitive.

Criteria for admission include the candidate’s academic record, work and extracurricular experience, and substantive thinking about the role of information in society (and, for applicants to the minor, in his or her major field). Candidates from a variety of disciplinary backgrounds are sought for the minor. Level of prior computer experience is not a criterion for admission to the minor.

To apply for admission, students must fill out an application form [note: Word document] and attach the saved application form and the following items in an e-mail (PDF preferred; Word documents acceptable) to ismajor@sils.unc.edu:

- A current résumé, including information about work experience and/or extracurricular activities
- A brief essay (100-300 words), discussing the role of information (its creation, communication, storage, and/or transmission) in a particular application area or in society at large, and the candidate’s reason(s) for pursuing the major in information science

Applications are only accepted through e-mail; no paper applications are accepted.

Questions can be addressed to the Undergraduate Student Services Manager, School of Information and Library Science, 100 Manning Hall, CB #3360; sending e-mail to ismajor@sils.unc.edu; or by calling 919/962-8366.

Majoring in Information Science: Bachelor of Science
The information science major integrates the study of the creation and management of information content, the characteristics and needs of the people who create and use information, and the technologies used to support the creation and manipulation of information. Graduating students will:

- Understand the many ways in which information can be created, communicated, stored, and/or transformed in order to benefit individuals, organizations, and society;
- Possess practical skills for analyzing, processing, and managing information and for developing and managing information systems in our knowledge-based society. They will possess problem solving and decision making skills, be able to effectively utilize information tools, and be able to take a leadership role in our information economy;
- Comprehend the value of information and information tools, and their role in society and the economy;
- Be prepared to evaluate the role of information in a variety of industries, in different organizational settings, for different populations, and for different purposes; and
- Maintain a strong sense of the role of information in society, including historical and future roles.

The information science major consists of ten courses (30 credits), including a prerequisite course, INLS 200. The courses required for completion of the B.S.I.S. are as follows:
INLS 200 Retrieving and Analyzing Information (prerequisite to enrollment in the major; generally taken in the sophomore year)
INLS 261 Tools for Information Literacy
INLS 285 Information Use for Organizational Effectiveness
INLS 382 Information Systems Analysis and Design
INLS 523 Introduction to Database Concepts and Applications
INLS 697 Emerging Topics in Information Science (taken in the senior year)

In addition, each student should work with his or her advisor to select a coherent set of four or more electives that will meet the student’s objectives. All electives, including SILS courses, must be approved by the Undergraduate Committee.

B.S.I.S. students are not allowed to complete more than 45 credits of their program (i.e., 45 of the 120 credits needed for graduation from UNC-Chapel Hill) in SILS courses. They may take a few additional electives in SILS, but are encouraged to acquire a broad education in the liberal arts and sciences.

All SILS courses must be completed with a grade of C or higher. Students may not select the FS/D/P option for any of the courses fulfilling requirements for the B.S.I.S. major or for any additional electives in SILS. A minimum grade point average for graduation is 2.0.

Minoring in Information Systems
The undergraduate minor in information systems provides students with an understanding of computing, networking, multimedia, electronic information resources, and the Internet that can be used to solve problems in a variety of contexts. The minor complements the student’s major field of study by offering knowledge, skills, and experience using these technologies. The undergraduate minor in information systems requires that students earn fifteen credits of approved courses, receiving grades of C or higher. Students enrolled in the minor must take INLS 200, 261, 382, and 523. In addition, students will take the remaining three credits as an
elective. The elective may be INLS 285, 318, 396, 397, or 697, an INLS course numbered above 400, or a course from outside of SILS of use/interest to the student that is relevant to the minor. Information systems minors may not use any course required for their major as an elective for the minor. All electives, including SILS courses, must be approved by SILS.

Honors in Information Science

An Honors Program is available to information science majors who have demonstrated the ability to perform distinguished work. The honors thesis allows exceptional students in the undergraduate major to demonstrate the ability to treat a problem in a substantial and scholarly way. Students write an honors thesis on a topic related to information science and defend it before a faculty committee. They may graduate with honors or highest honors.

The Honors Program consists of two courses: INLS 395 (Honors Research) and INLS 691H (Honors Thesis in Information Science). INLS 395 will be taken in the fall of the senior year. In this course, each student selects a research topic of interest, learns about research methods, and writes a research proposal. Assuming satisfactory completion of INLS 395, students register for INLS 691H in the spring of their senior year. The student and advisor should meet regularly to discuss the student's research and writing. The second reader for the thesis should be chosen by the end of January. The thesis must be completed and circulated to the thesis committee by the end of March, and the oral defense of the thesis must take place in the middle of April (exact dates will be based on the registrar's calendar for the year). The final approved copies of the thesis must be submitted to the SILS office; the due date will be communicated to those in the honors program, and it is always before the end of the semester.

Each student should select a thesis advisor based on mutual interest in the topic and the availability of the faculty member to advise the student during the thesis work. The thesis committee consists of (1) the student's thesis advisor, chosen while taking INLS 395; (2) a second reader, identified jointly by the student and advisor; and (3) the director of the Honors Program, i.e., the associate dean of undergraduate programs.

Students may apply for the Honors Program in the spring of their junior year. Admission to the Honors Program requires a GPA of 3.5 or better in the major and 3.2 or better overall and approval of the associate dean for undergraduate programs, who acts as director of the honors program. Continuation in the honors program requires maintenance of a GPA of 3.5 or better and completion of INLS 395 with a grade of B or better.

Students who complete a high-quality thesis will graduate with honors; those whose thesis is exceptional will graduate with highest honors. The director of the honors program will assemble all thesis advisors and second readers to evaluate the theses to be considered for honors each year.

Special Opportunities in SILS

Student Involvement

Undergraduate students are encouraged to participate in ISSUE (Information Science Student Undergraduates Empowered). All of the school's standing committees have student representation, and all students are members of the Information and Library Science Student Association (ILSSA). In addition, students may participate in professional associations in information and library science, including the student chapters of the American Society for Information Science and Technology (ASIST), the American Library Association (ALA), Special Libraries Association (SLA), the Art and Museum Library and Information Student Society (AMLISS), and the Society of American Archivists (SAA).

Internships

Undergraduates can take INLS 397, a form of supervised observation and practice in information science. The internship typically takes place in an information agency or an information technology company. Faculty-led seminars and a paper enhance the experience.

Study Abroad

SILS undergraduate students have an opportunity to participate in the Circulating International Program (CIP). SILS, the Royal School of Library and Information Science in Copenhagen, and the Information Technology School of Tamasek Polytechnic in Singapore have been part of the program in the past. Recently, an agreement was made with the Universidad Carlos III de Madrid in Spain. The program is offered at a different partner school each year. The first CIP was held in Copenhagen in August 2004. In fall 2005 it was held at UNC-Chapel Hill, and it was held in Singapore in fall 2006. The CIP provides a multicultural learning environment to students from Chapel Hill, Madrid, and Copenhagen.

Undergraduate Awards

Undergraduates completing an honors thesis are eligible to apply for a Carnegie Grant. This $100 award can be used to offset any costs that might occur during their research process.

Undergraduate Research

Undergraduates enrolled in the Honors Program conduct research as part of the completion of their honors thesis.

Career Opportunities

The School of Information and Library Science works closely with University Career Services to assist its graduates in securing professional employment. Students desiring placement services consult with a career services counselor and establish a credentials file when they begin seeking a job. The school assists in placement by providing information concerning the various areas of opportunity and their relation to the SILS program. SILS solicits and maintains information on employment opportunities for its students and graduates.

Contact Information

Questions and requests should be directed to Undergraduate Student Services Manager, School of Information and Library Science, 100 Manning Hall, CB# 3360, (919) 962-8366, ismajor@ils.unc.edu.

INLS

200 [040] Retrieving and Analyzing Information (3). Introduction to and application of the processes that can be used in seeking information, evaluating the quality of the information retrieved, and synthesizing the information into a useful form.

261 [050] Tools for Information Literacy (3). Tools and concepts for information literacy. Includes microcomputer software use and maintenance, microcomputer applications, and networked information systems.

285 [055] Information Use for Organizational Effectiveness (3). Prerequisite, INLS 200. Basic concepts in the way that information, people, and technology interact to influence organizational
effectiveness. Principles of problem solving, teamwork, leadership, and organizational change/innovation.


382 [060] Information Systems Analysis and Design (3). Prerequisite, INLS 261. Analysis of organizational problems and how information systems can be designed to solve those problems. Application of database and interface design principles to the implementation of information systems.

396 [090] Independent Study in Information Systems (1-3). Study by an individual student on a special topic under the direction of a specific faculty member. A prospectus/plan for the work is required in advance of registration.

397 [091] Information Science Internship (3). Prerequisites, INLS 200, 261, and 382: permission of advisor. Supervised observation and practice in information science. The internship typically takes place in an information agency or an information technology company. Faculty-led seminars and a paper enhance the experience. Pass/fail only.

461 [102] Information Tools (3). This course may not be taken if the student has already taken INLS 261. Tools and concepts for information use. Information literacy, microcomputer software use and maintenance, microcomputer applications, and networked information systems.


490 [110] Selected Topics (1-3). Exploration of an introductory-level special topic not otherwise covered in the curriculum. Previous offering of these courses does not predict their future availability; new courses may replace these. Courses offered during 2004-2005 included: Knowledge Discovery, Information Architecture, Visual Communication and Design.

500 [180] Human Information Interactions (3). The behavioral and cognitive activities of those who interact with information, with emphasis on the role of information mediators. How information needs are recognized and resolved; use and dissemination of information.


509 [172] Information Retrieval (COMP 487) (3). Study of information retrieval and question answering techniques, including document classification, retrieval and evaluation techniques, handling of large data collections, and the use of feedback.

512 [170] Applications of Natural Language Processing (COMP 486) (3). Prerequisite, COMP 110, 116, or 121, or graduate standing in information and library science. Study of applications of natural language processing techniques and the representations and processes needed to support them. Topics include interfaces, text retrieval, machine translation, speech processing, and text generation.

513 [153] Resource Selection and Evaluation (3). Identification, provision and evaluation of resources to meet primary needs of clientele in different institutional environments.

520 [150] Organization of Information (3). Introduction to the problems and methods of organizing information, including information structures, knowledge schemata, data structures, terminological control, index language functions, and implications for searching.

521 [151] Organization of Materials I (3). Prerequisite, ability to effectively utilize email, word processing, spreadsheet, and Internet browsing software. Introduction to the organization of library materials. Covers formal systems for description, access, and subject cataloging including AACR2, MARC, Dewey Decimal classification, Library of Congress Classification, and subject headings.

523 [156] Introduction to Database Concepts and Applications (3). Prerequisite, INLS 261 or 461. Design and implementation of basic database systems. Semantic modeling, relational database theory, including normalization, indexing, and query construction. SQL.

525 Electronic Records Management (3). Introduces the principles of records center design, records analysis and appraisal, filing systems, reprographics and forms, reports and correspondence management. Legal issues and the security of records are also covered.

530 [122] Young Adult Literature and Related Materials (3). A survey of print and nonprint library materials particularly suited to the needs of adolescents.

532 [123] Children's Literature and Related Materials (3). Survey of literature and related materials for children with emphasis on 20th-century authors and illustrators.

534 Issues for Children and Technology (3). This course will encourage students to explore the array of technologies available to children and adolescents, the issues surrounding their use, the role of care-givers, and potential impacts on development.


551 [109] History of Libraries and Other Information-Related Cultural Institutions (3). The history of cultural institutions related to information from earliest times to the present day. Includes specific institutions, trends in service and facilities, and individuals important in the development of these institutions.

554 [144] Cultural Institutions (3). This course will explore cultural institutions — libraries, museums, parks, zoological and botanical gardens, reconstructions and other settings — as lifelong educational environments.

556 [145] Introduction to Archives and Records Management (3). Survey of the principles, techniques, and issues in the acquisition, management, and administration of records, manuscripts, archives, and other cultural and documentary resources in paper, electronic, and other media formats.
558 [121] Principles and Techniques of Storytelling (3). An overview of storytelling, its historical development, and the presentation and administration of storytelling programs. The class focuses on performance skills required with theoretical issues.


572 [181] Internet Applications (3). Prerequisite, INLS 261 or 461. Introduction to Internet concepts, applications, and services. Introduces the TCP/IP protocol suite along with clients and servers for Internet communication, browsing, and navigation. Examines policy, management, and implementation issues.

574 [182] Introduction to Local Area Networks (3). Prerequisite, INLS 261 or 461. Introduction to local area network hardware, topologies, operating systems, and applications. Also discusses LAN management and the role of the network administrator.

576 [183] Distributed Systems and Administration (3). Prerequisite, INLS 461. Distributed and client/server-based computing. Includes operating system basics, security concerns, and issues and trends in network administration.

578 [184] Protocols and Network Management (3). Prerequisite, INLS 461. Network protocols and protocol stacks. Included are discussions of protocol classes, packet filtering, address filtering, network management, and hardware such as protocol analyzers, repeaters, routers, and bridges.

582 [162] Systems Analysis (3). Introduction to the systems approach to the design and development of information systems. Methods and tools for the analysis and modeling of system functionality (e.g., structured analysis) and data represented in the system (e.g., object-oriented analysis) are studied. (Undergraduates are encouraged to take INLS 382 instead of this course.)

584 [105] Information Ethics (3). An overview of ethical reasoning, followed by discussion of issues most salient to information professionals, e.g., intellectual property, privacy, access/censorship, effects of computerization, and ethical codes of conduct.

585 [131] Management for Information Professionals (3). An introduction to general management principles and practices intended for information professionals working in all types of organizations. Topics include planning, budgeting, organizational theory, staffing, leadership, organizational change, and decision making.

623 Database Systems I (3). Prerequisites, INLS 382 or 582, and INLS 523 or proof of equivalency. Intermediate-level design and implementation of database systems, building on topics studied in INLS 523. Additional topics include MySQL, indexing XML and non-text databases.

668 [191] Advanced Internet Applications (3). Prerequisites, INLS 572 and permission of instructor. Study of design and implementation of state-of-the-art Internet applications. Example topics include multimedia authoring tools, dynamic content generation techniques, and server-side configuration and programming.

691 [098] Research Methods in Information Science (3). Prerequisites, senior standing, IS major. An introduction to research methods used in information science. Includes the writing of a research proposal.

692H [099] Honors Thesis in Information Science (3). Prerequisites, senior standing, IS major, and permission. Students in the SILS undergraduate honors program engage in independent research and write an honors thesis reporting the research under the supervision of a faculty member.

697 [092] Emerging Topics in Information Science (3). Prerequisites, senior standing, IS major or minor. Contemporary topics of information science, information systems, information technology, information design, and information management. Assessment of future impact of new developments.

School of Journalism and Mass Communication
www.jomc.unc.edu

JEAN FOLKERTS, Dean
Jan J. Yopp, Senior Associate Dean
Ruth C. Walden, Associate Dean for Graduate Studies
Dulcie M. Straughan, Associate Dean for Undergraduate Studies

Professors

Associate Professors

Assistant Professors

Lecturers
J. Ferrel Guillory, Paul M. Jones, Jock Lauterer.

Emeriti Professors

Introduction
The School of Journalism and Mass Communication (JOMC) was founded as the Department of Journalism in 1924 and became the School of Journalism in 1950. Forty years later, it expanded its purview by adding "and Mass Communication" in its title. The school offers a course of study leading to the Bachelor of Arts in Journalism and mass communication. JOMC is the only school of journalism-mass communication in North Carolina.

For more than 75 years, the school has built an impressive record of service. Through excellent teaching, research, and public service, and through its students, faculty, alumni, and friends, the school has been a force in journalism-mass communication education and the
mass media of North Carolina and beyond. When the school was last accredited in 2003, by the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC), the national team stated that the school is "recognized by academics and media professionals as perhaps the best program in the nation."

Today, more than 8,000 of the school's alumni are active in every aspect of journalism and mass communication. Many are trend-setting newspaper executives. Others hold high positions with international news agencies, magazines, Internet companies, broadcasting companies, and advertising agencies; in public relations, business journalism, photojournalism, and graphic design; and in research, government, education, and industry.

The school has an excellent reputation, and relations with the mass media are first-rate. The primary role of the school has been and continues to be the education of young people for professional careers in mass communication in North Carolina and beyond.

Programs of Study

The degree offered is bachelor of arts in journalism and mass communication. The school also offers a minor in journalism and mass communication and certificates in sports communication and business journalism.

Admission to the School

Students enroll in the General College of the University during their first two years, after which they may transfer to the School of JOMC or some other professional program. (Students may take several JOMC courses in the first two years.) School faculty members serve as General College advisors to help pre-majors select appropriate courses.

Undergraduate admissions to UNC-Chapel Hill are handled by the University's Undergraduate Admissions Office, and requests for information and application forms should be sent to that office. The Undergraduate Admissions Office will also advise students on the proper first-year and sophomore courses to take in preparation for junior-year transfer to Chapel Hill from other campuses.

Students are admitted to the school when they attain junior standing and have completed the requirements of the General College on the Chapel Hill campus or have earned grades of C or better in equivalent courses at other recognized institutions. To qualify for admission from the General College or from another UNC-Chapel Hill department or school, students must meet the minimum overall grade point average required for admission to the school.

Typically students transfer into the school in their junior year if they meet the required GPA. Although they could take up to 24 hours in JOMC prior to being admitted, the GPA policy will be strictly followed. Students will not be admitted to the school to finish the courses required for the degree if they do not meet the GPA requirement.

Because the University limits the number of transfer students from other institutions, transfer applicants compete for admission to the school on the basis of grade point averages and other academic credentials, and on such matters as commitment to a career in journalism or mass communication and letters of recommendation. The Office of Undergraduate Admissions makes the final decision on admitting transfer students, after consultation with the school.

Preparation for the JOMC Major

Students are urged to visit the school in the first or second year to meet with faculty members and plan a sound foundation for their professional program. Pre-journalism-mass communication students are also invited to participate in school activities.

Students may take JOMC 153 (News Writing) in the first semester of their sophomore year. JOMC 101 (The World of Mass Communication) and JOMC 102 (Exploring the Visual World) are open to first-year students and sophomores. Sophomores who have completed appropriate prerequisites may also take JOMC 110, 121, 130, 141, 157, 170, 180, 185, 240, 242, 253, 256, 258, 340, 342, 344, 441, 442, 445, 446, 448, and other courses, depending on availability of space. Seniors have first priority for courses, then juniors, then sophomores. Many courses require prerequisites and are restricted to majors only.

Students should take the introductory courses in their sequence as soon as possible because those courses are prerequisites for subsequent ones. Those introductory courses are:

- News-Editorial Sequence: JOMC 153 News Writing
- Advertising Sequence: JOMC 170 Principles of Advertising
- Public Relations Sequence: JOMC 130 Principles of Public Relations
- Electronic Communication Sequence: JOMC 121 Writing for Electronic Media
- Visual Communication Sequence: JOMC 180 Beginning Photojournalism, JOMC 185 The World of Graphic Design, and JOMC 188 Introduction to Multimedia

Majoring in Journalism and Mass Communication: Bachelor of Arts

The school prepares men and women for careers in journalism and mass communication by offering an academic program that provides a basic liberal arts education, an understanding of the responsibilities of a free press in a democratic society, and a fundamental knowledge of journalistic and mass communication techniques and substance.

The philosophy that guides the school is that journalists and communicators must understand the political, social, economic, and cultural forces that operate within society. For this reason, students acquire a background in the humanities, social sciences, and natural sciences while preparing themselves for journalism-mass communication careers. About one-third of the credit hours earned toward the bachelor of arts in journalism and mass communication are in journalism-mass communication (JOMC) courses. The balance of each student's program is expected to provide the broad education necessary for those who plan careers in mass communication.

More than perhaps any other field, journalism requires a strong foundation in spelling, grammar, punctuation, and other writing skills, as well as technical proficiency in the use of computers. Students are expected to have this foundation even before they enter the school; consequently, students must score at least 70 percent on the school's spelling and grammar examination as a condition for graduation. The examination is administered several times a semester and during the summer. Off-campus transfer students take the examination during orientation. Special review sessions, called the "Grammar Slammer," are conducted several times each semester. Spelling and grammar scores are a factor in grades in JOMC 153 (News Writing) and become part of students' records.

Students are responsible for meeting all other graduation requirements. They may monitor their progress by checking their analysis of academic progress (degree audit) at Student Central on the University's Web site. If they have questions about the audit, they should consult their advisor, an associate dean or a staff member in
the school's Student Records Office (Carroll 154). Specific information about graduation requirements, advising, registration and other procedures is also available at Advising and Registration Central on the JOMC Web site.

The school cannot guarantee that courses needed to satisfy a student's degree requirements will be offered during Summer School. Students who plan to complete degree requirements in Summer School should be aware that low enrollments sometimes force the school to cancel certain courses or sections during either or both summer sessions.

**Journalism-Mass Communication Requirements Outside the School**

Students in the school must take specified courses to satisfy General Education requirements:

- **Foundations**: Quantitative Reasoning: JOMC students are advised to take STOR 151 (Basic Concepts of Statistics and Data Analysis) to satisfy this requirement.

- **Approaches**: Social and Behavioral Sciences (non-Historical): Students must take ECON 101 (economics) and POLI 100 or 208 (U.S. government and politics).

- **Historical Analysis**: To satisfy this requirement, students must take HIST 128 (U.S. History since 1865).

- **Connections**: Students must satisfy all eight Connections requirements.

- **State and Local Government and Politics Requirement**: Students must complete one of these POLI courses: 101, 404, or 465.

Students are expected to gain a depth of knowledge of a topic outside the school. At a minimum, they must take an outside concentration of at least three courses (minimum of nine credit hours) in another department or school. Foundations courses and courses labeled exclusively as Approaches may not be used to satisfy that requirement. However, Connections courses, including courses labeled also as Approaches, may be used for the outside area of concentration. Students may also satisfy the outside requirement by completing a minor or second major in another department or school. Students who wish to complete a second major outside the school must submit a second-major declaration form in Carroll 154. They must meet all requirements for the second major and must see advisors in the second major every semester to ensure compliance with those requirements.

**Journalism-Mass Communication Requirements in All Sequences**

The degree earned is bachelor of arts in journalism and mass communication, and sequences are not noted on the diploma. A sequence in the school is a concentration in news-editorial journalism, electronic communication, visual communication, public relations, or advertising. (The visual communications sequence has options for photojournalism, graphic design, and multimedia.) Some courses are required for all majors in the school, and each sequence has specific course requirements.

Students must complete a minimum of 28 credits in journalism-mass communication with a grade point average of 2.0 or better. A grade of D in a journalism-mass communication core course will not be counted in the minimum number of journalism-mass communication credits required for graduation; the course must be retaken. JOMC 394 may not be counted in the minimum of 28 credit hours required in journalism-mass communication for graduation. The school will normally accept only six credit hours of journalism-mass communication courses taken at other institutions and requires students to pass exemption exams to receive credit for certain basic courses.

Of the basic 120 hours for graduation, at least 80 hours must be outside journalism-mass communication. Within those 80 hours, at least 65 must be in the College of Arts and Sciences.

Students must achieve a passing score on the school's spelling and grammar examination.

**School Core**

All students in the school must complete these courses in the school core:

- JOMC 141 (3) Professional Problems and Ethics (required for all students in catalog year 2004 and later)
- JOMC 153 (4) News Writing
- JOMC 340 (3) Introduction to Mass Communication Law

**Conceptual Courses**

Depending on their sequence, students must also complete one or two of the following courses:

- JOMC 240 (3) Current Issues in Mass Communication
- JOMC 242 (3) The Media and U.S. History
- JOMC 342 (3) The Black Press and U.S. History
- JOMC 344 (3) Censorship
- JOMC 349 (3) Introduction to Internet Issues and Concepts
- JOMC 424 (3) Electronic Media Regulation and Policy
- JOMC 441 (3) Minorities and Communication
- JOMC 442 (3) Women and Mass Communication
- JOMC 445 (3) Process and Effects of Mass Communication
- JOMC 446 (3) International Communication and Comparative Journalism
- JOMC 448 (3) Freedom of Expression in the United States
- JOMC 450 (3) Business and the Media
- JOMC 458 (3) Southern Politics: Critical Thinking and Writing

In addition to the school core and two conceptual courses, students must complete two courses in the sequence core.

**News-Editorial Sequence Requirements**

- JOMC 157 (3) News Editing
- JOMC 253 (3) Reporting

They must also complete at least two courses (including at least one at the 400-level) from among the following craft JOMC courses:


**Visual Communication Sequence Requirements**

In addition to the school core and one conceptual course, students in this sequence must satisfy the requirements for one of three options.

- Students who choose the graphics option must complete five courses:
  - Either JOMC 157 (3) News Editing or JOMC 253 (3) Reporting
  - JOMC 185 (3) The World of Graphic Design
  - JOMC 188 (3) Introduction to Multimedia
  - JOMC 485 (3) Publication Design
  - Either JOMC 486 (3) Promotion Design or JOMC 487 (3) Information Graphics

- Students who choose the photojournalism option must complete five courses:
  - Either JOMC 157 (3) News Editing or JOMC 253 (3) Reporting
  - JOMC 180 (3) Beginning Photojournalism
  - JOMC 188 (3) Introduction to Multimedia
JOMC 480 (3) Advanced Photojournalism
JOMC 481 (3) Documentary Photojournalism
   Students who choose the multimedia option must complete six courses:
   Either JOMC 253 (3) Reporting or JOMC 157 (3) News Editing
   JOMC 180 (3) Beginning Photojournalism
   JOMC 185 (3) The World of Graphic Design
   JOMC 188 (3) Introduction to Multimedia
   JOMC 488 (3) Interactive Multimedia Narratives
   JOMC 489 (3) Multimedia Design and Production

Electronic Communication Sequence Requirements
   In addition to the school core and one conceptual course, students must complete four courses in the sequence core:
   JOMC 120 (3) Introduction to Video Production and Editing
   JOMC 121 (3) Writing for Electronic Media
   JOMC 421 (3) Electronic Journalism
   JOMC 422 (3) Producing Television News

Public Relations Sequence Requirements
   In addition to the school core and one conceptual course, students must complete four courses in the sequence core:
   JOMC 130 (3) Principles of Public Relations
   JOMC 431 (3) Case Studies in Public Relations
   JOMC 232 (3) Public Relations Writing
   JOMC 434 (3) Public Relations Campaigns
   In addition, PR students must take at least one of the following craft courses: 121, 157, 180, 185, 188, 253, 256, 258, 279, 333, 451, 452, 453, 456, 457, 460, 461, or 491.

Advertising Sequence Requirements
   In addition to the school core and one conceptual course, students must complete three courses in the sequence core:
   JOMC 170 (3) Principles of Advertising
   JOMC 271 (3) Advertising Copy and Communication
   JOMC 272 (3) Advertising Media
   In addition, students must take at least two of the following courses: 279, 376, 471, 473, 475, 478, or 670.

Minoring in Journalism and Mass Communication
   Students from outside the school may earn a minor in Journalism and Mass Communication. Participation is limited, and interested students must apply to the senior associate dean of the school by January 15. Preference is given to sophomores.
   Students must choose one of the following tracks and complete at least fifteen credit hours of C grades or higher in courses taken at UNC-Chapel Hill.

   News-Editorial
   JOMC 153 (4) News Writing
   JOMC 253 (3) Reporting
   JOMC 157 (3) News Editing
   Either JOMC 141 (3) Professional Problems and Ethics or JOMC 340 
      (3) Introduction to Mass Communication Law
   One course from the following:
   JOMC 256 (3) Feature Writing
   JOMC 258 (3) Editorial Writing
   JOMC 451 (3) Economics Reporting
   JOMC 452 (3) Business Reporting
   JOMC 453 (3) Advanced Reporting

   JOMC 457 (3) Advanced Editing
   JOMC 458 (3) Southern Politics: Critical Thinking and Writing

Business Journalism
   JOMC 153 (4) News Writing
   JOMC 450 (3) Business and the Media
   JOMC 451 (3) Economics Reporting
   JOMC 452 (3) Business Reporting
   One course from the following:
   JOMC 130 (3) Principles of Public Relations
   Either JOMC 141 (3) Professional Problems and Ethics, or JOMC 340 
      (3) Introduction to Mass Communication Law
   JOMC 170 (3) Principles of Advertising
   JOMC 253 (3) Reporting

   Advertising
   JOMC 153 (4) News Writing
   JOMC 170 (3) Principles of Advertising
   JOMC 271 (3) Advertising Copy and Communication
   JOMC 272 (3) Advertising Media
   One course from the following:
   JOMC 141 (3) Professional Problems and Ethics
   JOMC 240 (3) Current Issues in Mass Communication
   JOMC 242 (3) The Mass Media and U.S. History
   JOMC 340 (3) Introduction to Mass Communication Law
   JOMC 342 (3) The Black Press and U.S. History
   JOMC 344 (3) Censorship
   JOMC 349 (3) Introduction to Internet Issues and Concepts
   JOMC 441 (3) Minorities and Communication
   JOMC 442 (3) Women and Mass Communication
   JOMC 445 (3) Process and Effects of Mass Communication
   JOMC 446 (3) International Communication and Comparative Journalism
   JOMC 448 (3) Freedom of Expression in the United States

   Public Relations
   JOMC 130 (3) Principles of Public Relations
   JOMC 153 (4) News Writing
   JOMC 232 (3) Public Relations Writing
   Either JOMC 431 (3) Case Studies in Public Relations or JOMC 434 
      (3) Public Relations Campaigns
   One course from the following:
   JOMC 141 (3) Professional Problems and Ethics
   JOMC 240 (3) Current Issues in Mass Communication
   JOMC 242 (3) The Mass Media and U.S. History
   JOMC 340 (3) Introduction to Mass Communication Law
   JOMC 342 (3) The Black Press and U.S. History
   JOMC 344 (3) Censorship
   JOMC 349 (3) Introduction to Internet Issues and Concepts
   JOMC 441 (3) Minorities and Communication
   JOMC 442 (3) Women and Mass Communication
   JOMC 445 (3) Process and Effects of Mass Communication
   JOMC 446 (3) International Communication and Comparative Journalism
   JOMC 448 (3) Freedom of Expression in the United States
   JOMC 450 (3) Business and the Media

   Electronic Communication
   JOMC 120 (3) Introduction to Video Production and Editing
   JOMC 121 (3) Writing for the Electronic Media
   JOMC 421 (3) Electronic Journalism
Either JOMC 141 (3) Professional Problems and Ethics or JOMC 340 (3) Introduction to Mass Communication Law
One course from the following:
JOMC 141 (3) Professional Problems and Ethics
JOMC 240 (3) Current Issues in Mass Communication
JOMC 242 (3) The Mass Media and U.S. History
JOMC 340 (3) Introduction to Mass Communication Law
JOMC 342 (3) The Black Press and U.S. History
JOMC 344 (3) Censorship
JOMC 349 (3) Introduction to Internet Issues and Concepts
JOMC 441 (3) Minorities and Communication
JOMC 442 (3) Women and Mass Communication
JOMC 445 (3) Process and Effects of Mass Communication
JOMC 446 (3) International Communication and Comparative Journalism
JOMC 448 (3) Freedom of Expression in the United States

Mass Communication and Society
JOMC 240 (3) Current Issues in Mass Communication
Any four of the following:
JOMC 141 (3) Professional Problems and Ethics
JOMC 146 (3) International Communication and Comparative Journalism
JOMC 242 (3) The Mass Media and United States History
JOMC 340 (3) Introduction to Mass Communication Law
JOMC 342 (3) The Black Press and United States History
JOMC 344 (3) Censorship
JOMC 349 (3) Internet Issues and Concepts
JOMC 441 (3) Minorities and Communication
JOMC 442 (3) Women and Mass Communication
JOMC 424 (3) Electronic Media Regulation and Policy
JOMC 445 (3) Process and Effects of Mass Communication
JOMC 448 (3) Freedom of Expression in the United States

Certificate Programs
A certificate, signifying a concentration of three or more courses in a related field of study, is noted on a student’s transcript. A limited number of students (within and outside the school) are admitted to each program and guaranteed a seat in the three required courses.

Certificate in Sports Communication
The program, which aims to lead the nation in educating young practitioners about important issues of sports in the United States and beyond, provides courses about sports and the media, offers internships and scholarships for students, and brings visiting lecturers to the school. Students interested in applying to the program should contact the director of the Sports Communication Program. Students must complete three courses to receive the certificate:
JOMC 377 (3) Sports Communication
JOMC 476 (3) Ethical Issues and Sports Communication
JOMC 376 (3) Sports Marketing and Advertising

Certificate in Business Journalism
The certificate in business journalism is offered for students (within and outside the school) interested in a career in business reporting or editing as well as students interested in careers in corporate communication and corporate advertising. Students interested in applying to the program should contact the director of the Business Journalism Program. Students must complete three courses to receive the certificate:
JOMC 451 (3) Economics Reporting
JOMC 452 (3) Business Reporting
JOMC 450 (3) Business and the Media

Honors in JOMC
An Honors Program is available to students who have demonstrated their ability to perform distinguished work. Invitation to the senior-level honors courses (JOMC 691 and JOMC 692) is based upon an average of 3.5 or better in the major and overall, recommendation by a faculty member in the school, and approval by the director of the Honors Program. Students successfully completing the program are graduated with honors or with highest honors.

Special Opportunities in Journalism and Mass Communication

Student Involvement
Students are urged to work on campus publications and other programs, including The Daily Tar Heel, The Carolina Communicator, “Carolina Week,” “Carolina Connection,” Black Ink, Blue & White, and 5e, an online publication. Students are also encouraged to join appropriate professional organizations, including campus chapters of the Society of Professional Journalists, American Advertising Federation, Public Relations Student Society of America, Carolina Association of Black Journalists (affiliated with the National Association of Black Journalists), Electronic News Association of the Carolinas, Society for News Design, and National Press Photographers Association.

Experiential Education
The practicum course (JOMC 394) offers students an opportunity to do supervised professional work during a regular semester for three hours of credit. Students work on area media or in media-related positions for eight to ten hours a week and write a report at the end of the semester.

Internships
The school awards no academic credit for internships, but it strongly encourages students to obtain internships, primarily in the summer, because they provide invaluable professional experience. News-editorial, advertising, photjournalism, graphic design, broadcast news, public relations, business, and other internships are possible. Many media organizations in North Carolina and other states send executives to the school to interview students for internships. When Special Studies 390 or other courses are an internship, the credit does not count toward graduation requirements for journalism-mass communication. Approval is required from the senior associate dean for other special studies courses.

Study Abroad
Students are encouraged to study abroad. Students should consult with the senior associate dean to determine any course credit in journalism-mass communication courses prior to the study abroad term.

Undergraduate Scholarships
Many special scholarships are available to journalism-mass communication majors and to students transferring into the school. For information, see the school’s website or write the senior associate dean of the school by December 1 for the following academic year.

Undergraduate Research
Undergraduates participate in research through a research pool that assists faculty in their research and creative activities; inde-
pended studies with faculty members to work on specific projects; and the school’s Honors Program that engages students in substantive research that culminates in theses in their senior year.

**Graduate School**

The school offers an M.A. degree in mass communication and a Ph.D. degree in mass communication. JOMC graduate courses may be used as minor or supplementary courses for the M.A. and Ph.D. in other fields. For further information on the graduate program, write to the associate dean for graduate studies of the School of Journalism and Mass Communication or see the school website.

**Career Opportunities**

The school operates a Career Services Office and constantly seeks to fit the right graduating senior (or alumna or alumnus) with the right job. Students in the school are also encouraged to use the services of University Career Services.

**Contact Information**

Office of Student Records in Carroll 154 or the Dean’s Office in Carroll 117. The school’s website is the most comprehensive and up-to-date source of information for current and prospective students. JOMC News, a printed newsletter, is available online and in Carroll Hall, home of the school.

Important announcements are also posted on “Coming Attractions” television screens in Carroll Hall and e-mailed weekly to majors and premajors. Information is also available in the Student Records Office in Carroll 154 or from the senior associate dean or associate dean for undergraduate studies.

**JOMC**

101 [011] The World of Mass Communication (3). Overview of mass communication’s vital role in society with discussion of media institutions, theories, practices, professional fields, and effects on society, groups, and individuals.

102 [015] Future Vision: Exploring the Visual World (3). Survey of visual communication tools, techniques, and theories, and how they may be used in all areas of the mass media, present and future. Not open to students who have already taken JOMC 180, 185, or 188.

110 [050] Electronic Information Sources (3). Gathering information from electronic sources, including libraries, government documents, databases, and the Internet. Prepares communicators to conduct research and use material in media-related decisions.

120 [120] Introduction to Video Production and Editing (3). Prerequisites, JOMC 121 and permission of instructor. Introduction to video production, with close attention to refining creative and technical skills while preparing professional-quality video segments.


130 [130] Principles of Public Relations (3). Internal and external public relations concepts and practices for businesses and other organizations, with emphasis on identification and analysis of their publics and design, execution, and assessment of appropriate communication as strategies.

141 [141] Professional Problems and Ethics (3). Intensive study of professional and ethical issues and problems facing the mass media and their employees in relation to modern society.


157 [057] News Editing (3). Prerequisite, JOMC 153 or permission of instructor. Study and practice in copy reading, headline writing, proofreading; with attention given to printing, terminology, page makeup, type structure, computer use in editing, and analysis of newspapers.

170 [170] Principles of Advertising (3). A survey of the economics, psychology, philosophy, and history of advertising, with particular reference to research bases, copy, layout, media planning, production, and testing of advertisements.

180 [080] Beginning Photojournalism (3). Prerequisite, permission of the school. Students photograph general news events, sports, features, and other standard newspaper subjects while learning the basic visual and technical aspects of photojournalism.

182 [185] Introduction to Graphic Design (3). Prerequisite, permission of the school. Principles and practices of design, typography, graphics, and production for visual communication for print and electronic media. Computer graphics and pagination.


187 [188] Introduction to Multimedia (3). Prerequisite, permission of the school. Basics of production and publication of journalistic multimedia content. Understanding of ethics and application of current technology, techniques, and design theories will be critical elements of all course work.

232 [132] Public Relations Writing (3). Prerequisites, JOMC 153 and 130. Education and practice in communication skills required of public relations practitioners.

240 [140] Current Issues in Mass Communication (3). Analysis of the interrelationships between United States mass media and the society that they serve.

242 [142] The Mass Media and United States History (3). An examination of the development of the mass media in the context of history. Emphasis is on major developments and trends within a chronological framework.


256 [056] Feature Writing (3). Prerequisite, JOMC 153. Instruction and practice in writing feature articles for newspapers and magazines.


271 [171] Advertising Copy and Communication (3). Prerequisites, JOMC 170 or equivalent. Application of findings from social science research; social responsibility of the copywriter and advertiser; preparation of advertisements for the mass media; research in copy testing.
272 [172] Advertising Media (3). Prerequisite, JOMC 170 or equivalent. The media-planning function in advertising for both buyers and sellers of media; the relationships among media, messages, and audiences; computer analysis.

279 [179] Advertising and Public Relations Research (3). Prerequisites, JOMC 130 or 170. Critical understanding and application of quantitative and qualitative methods used in the strategic planning and evaluation of advertising and public relations campaigns.

296 [097] Individual Study (3). Permission of instructor. An individual readings and problems course to be directed by a faculty member in whose field of interest the subject matter lies.

333 [133] Video Communication for Public Relations and Marketing (3). Prerequisite, JOMC 130. Introduction to the use of video as a means of communication with a variety of an organization's publics, both internal and external.

340 [164] Introduction to Mass Communication Law (3). Introduction to press freedom and the First Amendment, including libel, privacy, access to information, free press-fair trial, advertising and broadcast regulation, journalistic privilege, and prior restraint.


344 [144] Censorship (3). Its history, conflicting philosophies and practice through politics, government, ethnicity, religion, pressure groups, the media, and the law, with emphasis on events and personalities.

349 [149] Introduction to Internet Issues and Concepts (3). Students develop an understanding of social, legal, political, and other issues related to and use of the Internet. Offered online.

376 [174] Sports Marketing and Advertising (3). Examines the range of promotional techniques being used in the modern sports industry. Topics include sponsorships, advertising, merchandising, and the effects of commercialization.

377 [117] Sports Communication (3). Prerequisite, permission of the instructor. Examination of organizations involved in the sports communication field, including publishing, team and league media relations, college sports information offices, broadcasting, and advertising.

394 [055] Mass Communication Practicum (3). Prerequisite, JOMC 153 or permission of instructor. Students work with area media and advertising and public relations firms and meet weekly for consultation and evaluation by the faculty advisor. Must be taken Pass-D-Fail only.

421 [121] Electronic Journalism (3). Prerequisites, JOMC 120 and 121. Examination and application of in-depth broadcast news reporting techniques, especially investigative reporting, special events coverage, and the documentary.

422 [122] Producing Television News (3). Prerequisites, JOMC 120 JOMC 421, and permission of instructor. Students work under faculty guidance to produce Carolina Week, a television news program, and are responsible for all production tasks: producing, reporting, anchoring, directing, and graphics.

423 [123] Television News and Production Management (3). Prerequisite, permission of instructor. Students participate in a collaborative learning environment to hone skills learned in earlier courses and help less-experienced students acclimate to the broadcast news experience within the school. By invitation only.

424 [124] Electronic Media Regulation and Policy (3). Survey of the history of communication technology from the telegraph to the Internet, with an emphasis on the regulatory framework that surrounds each medium and policy implications for the future.

425 Voice and Diction (3). Prerequisite, JOMC 121. Designed to help students learn how to look and sound like professional broadcast journalists.

426 Producing Radio (3). Prerequisite, JOMC 121. Students work under faculty guidance to produce "Carolina Connection," a weekly 30-minute radio news program and are responsible for all production tasks: producing, reporting, anchoring and editing.

427 Studio Production for Television News (3). Prerequisite, JOMC 120. This course is a project-based, hands-on studio production course with special focus on technical skill development and directing in a news environment.

428 Broadcast History (3). This is a theoretical course. Students will be responsible for material from the readings and from the various video and audio files the class views or listens to.

431 [131] Case Studies in Public Relations (3). Prerequisite, JOMC 130. Analysis of public relations practices, including planning, communication, and evaluation exercises, and management responsibilities.

434 [134] Public Relations Campaigns (3). Prerequisite, JOMC 431 or 232. Capstone course that builds on concepts and skills from earlier courses. Students use formal and informal research methods to develop a strategic plan, including evaluation strategies, for a client.

441 [111] Minorities and Communication (3). An examination of racial stereotypes and minority portrayals in United States culture and communication. Emphasis is on the portrayal of Native Americans, African Americans, Hispanics, and Asian Americans in the mass media.

442 [115] Women and Mass Communication (WMST 415) (3). An examination of women as media producers, subjects, and audiences with a focus on current practices and possibilities for change.

445 [145] Process and Effects of Mass Communication (3). Mass communication as a social process, incorporating literature from journalism, social psychology, sociology, political science, and history. To acquaint students with factors in message construction, dissemination, and reception by audiences.

446 [146] International Communication and Comparative Journalism (3). Development of international communication; the flow of news and international propaganda; the role of communication in international relations; communication in the developing nations; comparison of press systems.


452 [152] Business Reporting (3). Prerequisite, JOMC 153. Methods and tactics of covering businesses for mass communication. Why and how companies operate and how to write stories about corporate news from public records and other sources.

453 [154] Advanced Reporting (3). Prerequisites, JOMC 153 and 253. Rigorous, in-depth instruction and critiques of students' news and feature assignments done with different reporting methodologies: interviewing, official records, direct and participant observation, and survey research (the Carolina Poll).

456 [156] Magazine Writing and Editing (3). Prerequisite, JOMC 153 and 256. Instruction and practice in planning, writing, and editing copy for magazines.

457 [157] Advanced Editing (3). Prerequisite, JOMC 157. Concentration on the editing and display of complex news and features stories and other print media content with a significant emphasis on newspaper design and graphics.

458 [158] Southern Politics: Critical Thinking and Writing (3). News analysis with special attention to states of the American South and especially to elections. Social and economic trends, as well as politics and government serve as raw material for interpretive journalism.

459 [159] Community Journalism (3). Prerequisite, JOMC 153. Comprehensive study of the community press, including policies, procedures, and issues surrounding the production of smaller newspapers within the context of the community in its social and civic setting.

471 [176] Advanced Advertising Copywriting (3). Prerequisites, JOMC 271 and permission of instructor. Rigorous, in-depth instruction and critiques of student advertising writing.

473 [173] Advertising Campaigns (3). Prerequisite, JOMC 271 or 272. Planning and executing advertising campaigns: types and methods of advertising research; the economic function of advertising in society.

475 [175] Concepts of Marketing (3). Designed for students anticipating careers in advertising, public relations, or related areas, this course teaches the vocabulary and basic concepts of marketing as it will be practiced, emphasizing the role of mass communication.

476 [118] Ethical Issues and Sports Communication (3). Prerequisite, permission of the instructor. Ethical dilemmas and decisions in the commercialization and coverage of sports, including the influence of television, pressure to change traditions and standards for monetary reasons, and negative influences on athletes.

478 [178] Media Marketing (3). Prerequisite, JOMC 170 or equivalent. Principles and practices of retail advertising in all media, with emphasis on selling, writing, and layout of retail advertising for the print media.

480 [180] Advanced Photojournalism (3). Prerequisite, JOMC 180 and 153, or take JOMC 153 concurrently. Advanced course in black and white photojournalism concentrating on the newspaper and magazine picture story, advanced camera and darkroom techniques, and picture editing.

481 [181] Documentary Photojournalism (3). Prerequisite, JOMC 480 and permission of instructor. Students will study and produce work on the social documentary tradition of photojournalism.

482 [485] Newspaper Design (3). Prerequisites, JOMC 185 and JOMC 153, or take JOMC 153 concurrently, and permission of instructor. Detailed study and application of graphic design techniques in magazines, newspapers, advertising, and corporate communication.

483 [486] Magazine Design (3). Prerequisites, JOMC 185, permission of instructor. Study and application of graphic design and promotional techniques to creating advertisements and other marketing materials. Practice in conceiving and executing finished layouts.

484 [487] Information Graphics (3). Prerequisite, JOMC 185 and permission of instructor. Detailed study and application of graphic design and information-gathering techniques to creating charts, tables, diagrams, icons, and maps. Practice with visually presenting information with clarity and originality.

485 [185] Publication Design (3). Prerequisites, JOMC 185 and 153, or take JOMC 153 concurrently, and permission of instructor. Detailed study and application of graphic design techniques in magazines, newspapers, advertising, and corporate communication.

486 [186] Promotion Design (3). Prerequisite, JOMC 185, permission of instructor. Study and application of graphic design and promotional techniques to creating advertisements and other marketing materials. Practice in conceiving and executing finished layouts.

487 [187] Information Graphics (3). Prerequisite, JOMC 185 and permission of instructor. Detailed study and application of graphic design and information-gathering techniques to creating charts, tables, diagrams, icons, and maps. Practice with visually presenting information with clarity and originality.

488 [188] Interactive Multimedia Narratives (3). Prerequisites, JOMC 188 and permission of instructor. Issues and applications in cybercasting and cyberpublishing. Class will create and cyberpublish and cybercast projects on the Internet while exploring the effective use of Internet technologies and current issues.

489 [189] Multimedia Design and Production (3). Prerequisites, JOMC 188 and permission of instructor. Advanced course in which students blend a variety of storytelling media into journalistic multimedia products. Students design and produce projects combining photography, audio, video, type, and informational graphics.

490 [191] Special Topics in Mass Communication (1-3). Small classes on various aspects of journalism-mass communication with subjects and instructors varying each semester.

491 [192] Special Skills in Mass Communication (1-3). Courses on various skills in journalism-mass communication with subjects and instructors varying each semester. This course satisfies a skills- or craft-course requirement.
560 [460] Medical Journalism (HBHE 660, HPAA 550) (3). Prerequisite, JOMC 153 or permission of the instructor. Prepares students to work as medical journalists for a variety of media, including print, broadcast, and the Internet. The course emphasizes writing skills and interpreting medical information for consumers.

561 [461] Medical Reporting for the Electronic Media (3). Conceiving, scripting, reporting, producing, and editing medical stories for electronic media, especially television. Students work in teams to produce projects for professional media outlets.

562 [462] Science Documentary (3). Television students learn skills needed to produce a science documentary for broadcast on television, including research and script writing.

580 [081] Intermediate Photojournalism (3). Prerequisite, JOMC 180 and permission of instructor. Students expand their personal photographic vision and professional portfolio by honing their knowledge and skills of photographic composition, studio fashions, and artificial lighting techniques.

581 Multimedia Design (3). Introduction to five basic areas of excellent multimedia design. Knowledge of a graphic design, layout or animation program is a prerequisite.

582 [488] Interactive Multimedia Narratives (3). Prerequisites, JOMC 188 and permission of instructor. Issues and applications in cybercasting and cyberpublishing. Class will create and cyberpublish and cybercast projects on the Internet while exploring the effective use of Internet technologies and current issues.

583 [489] Multimedia Programming and Production (3). Prerequisites, JOMC 188 and permission of instructor. Advanced course in which students blend a variety of story-telling media into journalistic multimedia products. Students design and produce projects combining photography, audio, video, type, and informational graphics.

584 Documentary Multimedia Storytelling (3). By application only. Open to advanced students who have completed or are currently enrolled in an advanced multimedia, photo or electronic course. Students will work in teams to produce a documentary multimedia Web site.

585 [491] 3D Design Studio (1-3). Courses on various skills in journalism-mass communication with subjects and instructors varying each semester. This course satisfies a skills- or craft-course requirement.

602 [102] Mass Communication Education in the Secondary School (3). Prerequisite, graduate standing. Readings, discussion, and projects fostering excellence in teaching journalism-mass communication in the high school, from philosophy and practice to professional skills.

603 [103] Mass Communication Law in the Secondary School (3). Prerequisite, graduate standing. Application of First Amendment speech and press freedoms to secondary school media, including libel, privacy, access to information, journalistic privilege, prior restraint, advertising and broadcast regulations, and ethical practices.

604 [104] Mass Communication Writing and Editing in the Secondary School (3). Prerequisite, graduate standing. High school journalism teachers and advisors learn to teach the skills journalists need to communicate. Emphasis on writing and thinking skills necessary to convert information into clear messages.

605 [105] Design and Production of Secondary School Publications (3). Prerequisite, graduate standing. High school journalism teachers and advisors learn to teach the skills journalists need to produce publications. Designed for persons with no background in design. Degree-seeking students may not use both JOMC 185 and JOMC 605 to complete degree requirements.

670 [193] Special Topics in Advertising (1-3). Courses on special topics in advertising with subjects and instructors varying each semester.

691H [098] Introductory Honors Course (3). Permission of instructor. Required of all students reading for honors in journalism.


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Summer School
summer.unc.edu

JAMES L. MURPHY, Dean

History
The University of North Carolina at Chapel Hill established what was possibly America's first Summer School in 1877. It enrolled 235 students in courses from ten disciplines. Women were first admitted into University courses during this summer session. Students came from 42 North Carolina counties and several neighboring states. By 1925, 19,983 students had enrolled in Summer School. The University has continued annually to provide a wide offering of summer academic opportunities to the people of North Carolina and other residents from this country and abroad. From 1934 to 1987, the programs were administered by the Office of Summer Sessions. The traditional name of Summer School was re-established in 1988.

Opportunities
The College of Arts and Sciences as well as many professional schools offer summer courses for undergraduates and graduates. The same faculty who make the University one of the nation's best teach the courses, assisted by visiting professors who are specially recruited by departments for this purpose.

Summer School is central to the teaching mission of the University. The summer term is one of the three terms during which the campus is open for formal instruction. Summer courses are of comparable quality and provide the same credit as corresponding courses in the fall or spring term.

When students have problems in the fall/spring terms getting courses they need or have to choose between courses, summer provides a time when the course can be taken. This relieves pressure on fall/spring enrollment, creates opportunities for enhancement of students’ programs, and increases student access to courses in non-major fields and other schools.

Because some subjects are best learned in an intensive and concentrated way, summer provides a time when students can focus on a single field. This is particularly useful for some laboratory experiences, concentrated arts courses, and foreign languages. Some curricula require field study or research projects, and summer uniquely allows time for these studies.

The summer program is one of the key ways the campus reaches out to visiting and postdegree students who can benefit from what the University has to offer. Finally, summer is a time for faculty
members to develop and experiment with new courses and teaching models that can be offered during the fall or spring semesters as well.

During the summer, faculty and students can concentrate on one or two courses without interruptions of other administrative, academic, and social events that exist during the year. The total number of students is fewer in the summer, and the mix includes a higher proportion of nontraditional, visiting, and minority students than during the fall/spring terms. Since class sizes are smaller and classes meet daily, students interact more with faculty and each other.

Programs

The Summer School has two sessions of five weeks each and other short courses, institutes, workshops, etc., with various beginning and ending dates. In recent years, about 700 different sections of courses have been offered each summer to about 7,000 students in the first session and 5,500 in the second. The available courses include many that satisfy the undergraduate curriculum degree requirements. Twelve semester hours of credit typically would be earned by a full-time summer student over both summer sessions. Many students take fewer hours or attend only one session. Total credit hours earned by students in the summer term are about 57,500. About 90 percent of summer students are regular UNC-Chapel Hill students, and the other ten percent are visiting students.

In recent summers, enrolled students have come from all 100 counties in North Carolina and all 50 states, plus the District of Columbia, Puerto Rico, the Virgin Islands, and 60 foreign countries.

Highlights

Summer School highlights include concentrated three-week courses offered in the Maymester at the beginning of First Summer Session; some field courses and law courses that extend beyond the usual first session length; some courses taught specially for public school teachers that begin after mid-June when the public school term ends their term; other institutes and workshops offered for credit, that operate on a concentrated schedule. About 30 courses are offered in the late afternoon or evening. Some offerings combine off-campus activities and on-campus classes or combine online and face-to-face learning formats.

The Summer School Abroad includes UNC-Chapel Hill courses taught by UNC’s regular faculty who accompany the students. The courses have higher fees to cover various components of the foreign experience. Typical total cost for three to four-week programs offering six credit hours is $3,500 to $4,000. Registration begins in October and runs through spring break. Spaces are limited. Class sizes vary from 10 to 60, and locations range from London to Greece, China to Kenya.

Student Services

The Summer School coordinates and distributes information on the summer course offerings for credit in all academic affairs units. Tentative schedules are available in the Summer School in mid-December. Regular UNC-Chapel Hill students who need information on summer courses and early registration should usually contact their advisor, dean, or the relevant academic department. These students and all others can obtain updated information daily on the Web site summer.unc.edu.

The Summer School admits and advises visiting students. A potential visiting student can obtain information and an application from the Summer School, CB# 3340, 134 E. Franklin St., (919) 966-4364, or from the Web site. Registration instructions are provided.

The dean of the Summer School acts as the dean for these students to approve any schedule adjustments and to represent their interests in other academic and administrative matters.

Summer School students are able to use most of the campus facilities enjoyed by students in the fall and spring semesters, such as the libraries, computer rooms, and athletic facilities. Information on University housing and on dining plans is available in March. The Carolina Union, Carolina intramural coed recreational sports, and The Summer Tar Heel provide various events and information during the summer.

HEALTH AFFAIRS SCHOOLS

School of Dentistry
www.dent.unc.edu

JOHN N. WILLIAMS, Dean

Professors
Dental Ecology: Ronald Strauss, Chair, James Beck, Lauren Patton, John Stamm.
Diagnostic Sciences and General Dentistry: Valerie Murrah, Chair, Roland Arnold, Don Tyndall.
Endodontics: William Mainier.
Oral Surgery: Timothy Turvey, Chair, George Blakey, Ray White.
Pediatric Dentistry: John T. Wright, Chair, Michael Roberts, Frank McIver, William Vann Jr.
Periodontology: Ray Williams, Chair, Ikramuddin Aukhil, Steven Offenbacher, Mitsuo Yamauchi.
Prosthodontics: B. Ed Kanoy Jr., Chair, Greg Essick.

Associate Professors
Endodontics: Martin Trope, Chair, Eric Rivera.
Orthodontics: Lorne Koroluk, Carroll-Ann Trottman.
Operative Dentistry: John Sturdevant, Jeffrey Thompson.
Oral and Maxillofacial Surgery: Glenn Reside.
Pediatric Dentistry: Diane Dilley, Eric Everett, Lorne Koroluk.
Periodontology: Patrick Flood, John Moriarty, David Paquette.

Assistant Professors
Endodontics: Shizuko Yamauchi.
Oral Surgery: George Blakey.
Operative Dentistry: Patricia Pereira, Andre Ritter.
Orthodontics: Sylvia Frazier-Bowers.
Pediatric Dentistry: Jessica Lee, Rocio Quinonez.
Periodontology: Nadine Brodola, Catherine Champagne, Caibin Cui, Wagner Duarte, Estelle Riche, Alan Whitmore.
Prosthodontics: Konstantina Dedi, Ingeborg DeKok, Matthew Hopfensperger, Thomas Hummert, Anthony Molina.
Instructor
Diagnostic Sciences and General Dentistry: Lee Ann Smith.
Directors
Kelly K. Almond, Al Elsenrath, E. Paul Gardner, Thomas Luten, Mac McCollum.
EPA Non-Faculty
Helga Pinkerton, Nancy Smythe, DDS and Advanced Education Programs.
Emerita Professor
Eleanor A. Forbes.

Introduction
The School of Dentistry offers a four-year program leading to a doctor of dental surgery degree and 12 other advanced education programs that lead to certificates, master’s degrees, or the Ph.D. At the undergraduate level, the School of Dentistry offers entry-level and advanced courses of study in dental hygiene and dental assisting. A baccalaureate degree or a certificate in dental hygiene is available to students entering the profession, a degree completion program is offered for dental hygienists holding an associate’s degree or a certificate, and a ten-month certificate program is offered at entry level for dental assistants. Additional information about the ten-month dental assistant certificate program, the dental hygiene degree completion program, and graduate degrees can be obtained from the School of Dentistry catalog and from the director of the Allied Dental Education Programs.

Programs of Study
The degree offered is a bachelor of science in dental hygiene. A certificate in dental hygiene also is offered.

Admission to the Program
Applicants may be admitted for dental hygiene study after two years of college work, provided they meet requirements of the University and the Curriculum for Dental Hygiene. Personal interviews may be requested. To assure proper planning for admission, applicants should maintain close contact with the program during the application process.

Dental hygiene certificate and associate degree graduates from other accredited institutions may qualify for admission to the degree completion program, provided they meet the entrance requirements of the University and the Curriculum for Dental Hygiene. Acceptable scores on the National Board Dental Hygiene Examination must be presented to receive credit for professional courses. Personal interviews may be requested.

Enrollment is limited and applicants are accepted on a competitive basis. First-year admission to the University does not guarantee admission into the dental hygiene curriculum. Selections are based on academic achievement, character, and a sincere interest in dental hygiene as a professional career. For UNC-Chapel Hill students, application for admission to the program is usually made during the second year of General College study. Interested students should submit a supplemental dental hygiene application that can be accessed from the School of Dentistry Web site, www.dent.unc.edu. In addition, the applicant must submit three letters of recommendation. For transfer applicants, all pre-dental hygiene course work taken at other institutions must be approved in advance by the Office of Undergraduate Admissions. Both a University application as well as a dental hygiene supplemental application must be submitted with three letters of recommendation.

Residents of North Carolina receive preferential consideration for admission. Prior to being admitted and enrolled, all applicants will be required to present evidence of satisfactory completion of the pre-dental hygiene courses required by the major.

Majoring in Dental Hygiene: Bachelor of Science
The dental hygienist is an educator and motivator as well as a health care provider. As a practicing member of the dental health team, the hygienist is primarily concerned with the maintenance of oral health and the prevention of dental disease. Additionally, dental hygienists may assume professional leadership roles; participate in the development, implementation, and evaluation of community health programs; participate in research activities; or serve as consultants and assume managerial roles in certain types of dental care delivery systems.

The minimum course requirements for the basic professional education of dental hygienists are prescribed by the Commission on Dental Accreditation of the American Dental Association. These basic core courses combined with additional University and School of Dentistry course requirements lead to the B.S. degree.

In addition to completion of ENGL 101 and 102, a foreign language through level 3 (unless placed into level 4), and a Quantitative Reasoning course (STOR 151 recommended), students in the University’s General College must satisfy all Foundations and Approaches requirements and take at least five Connections courses, including Global Issues, Experiential Education, and U.S. Diversity. Other specific requirements include the following:

- CHEM 101 General Descriptive Chemistry I and 101L Quantitative Chemistry Laboratory I or BIOC 107 Introduction to Biochemistry. CHEM 101/L satisfies the Physical and Life Sciences with Lab Approaches requirement.
- CHEM 102 General Descriptive Chemistry II and 102L Quantitative Chemistry Laboratory II or BIOC 108 Introduction to Biochemistry.
- MICO 251 Introductory Medical Microbiology or MICO 255 Elementary Pathogenic Microbiology
- PSYC 101 General Psychology. PSYC 101 satisfies the Physical and Life Sciences Approaches requirement.
- COMM 113 Public Speaking or COMM 120 Introduction to Interpersonal Communication. COMM 113 satisfies the Communication Intensive Connections requirement.
- SOCI 101 American Society or SOCI 111 Human Societies. SOCI 101 and 111 satisfy the Social and Behavioral Sciences (Non-Historical) Approaches requirements.
Professional School Program

First Year: Fall Semester
CBI0 41 Introduction to Human Anatomy (three hours)
DHYG 241 Nutrition (two hours)
DHYG 251 Physiology (three hours)
DHYG 253 Dental Anatomy (two hours)
DHYG 257 Introduction to Dental Hygiene (two hours)
DHYG 257L Preclinical Dental Hygiene (three hours)
DHYG 252 Dental Radiology (three hours)
TOTAL HOURS: 18

First Year: Spring Semester
DHYG 265 Dental Materials and Techniques (three hours)
DHYG 261 Dental Pharmacology (two hours)
DHYG 262 Dental Health Education (two hours)
DHYG 264 Histology (one hour)
DHYG 263 Periodontology (two hours)
DHYG 267 Dental Hygiene Theory (three hours)
DHYG 267L Clinical Dental Hygiene (three hours)
TOTAL HOURS: 16

Second Year: Fall Semester
DHYG 351 General and Oral Pathology (three hours)
DHYG 352 Community Dental Health (two hours)
DHYG 357 Clinical Dental Hygiene (five hours)
DHYG 401 Oral Microbiology (two hours)
DHYG 403 Current Concepts in Periodontology (two hours)
DHYG 402 Special Care in Dentistry (two hours)
TOTAL HOURS: 16

Second Year: Spring Semester
DHYG 362 Community Dental Health (one hour)
DHYG 367 Clinical Dental Hygiene (four hours)
DHYG 363 Dental Ethics (one hour)
DHYG 404 Dental Hygiene Practicum (five hours)
Dental hygiene elective (one to two hours), chosen from: DHYG 422, DHYG 411, DHYG 412, DHYG 413, DHYG 414, DHYG 415, DHYG 416, DHYG 417, DHYG 418, DHYG 419, DHYG 421
TOTAL HOURS: 12-13

Certificate in Dental Hygiene
Applicants interested in the certificate program in dental hygiene may be admitted to the program without junior standing after completion of ENGL 101 and 102, CHEM 101, 101L and CHEM 102, 102L (or BIOL 107 and 108), MCR 251 or 255, PSYC 101, SOCI 101 or 111, and COMM 113 or 120. After completion of the basic professional program, a certificate in dental hygiene is awarded. Continued enrollment to complete the baccalaureate degree requirements is an option for the student.

Degree-Completion Dental Hygiene Program
The School of Dentistry offers a BS degree in dental hygiene for dental hygienists who have obtained a certificate or associate's degree in applied science in dental hygiene. Students are eligible for admission upon submission of University and supplemental dental hygiene degree-completion applications, three letters of recommendation, documentation of successful completion of the Dental Hygiene National Board, and graduation from an accredited dental hygiene program. Further information can be acquired from: Coordinator of the Degree-Completion Dental Hygiene Program.

Allied Dental Education Programs, CB# 7450, 3220 Old Dental Building. (919) 966-2800. Web site: www.dent.unc.edu/academic.

Special Opportunities in Dental Hygiene

Departmental Involvement
Students are eligible to become members of the student American Dental Hygienists' Association.

Experiential Education
Students have the opportunity to participate in community-based clinical experiences as well as providing oral hygiene programs in the community. Service learning experiences are possible as an elective experience. Each semester students will be involved with hands-on experiences providing dental hygiene services.

Licensure
Certificate and degree graduates are eligible for dental hygiene licensure examinations at the state and national levels.

Undergraduate Awards
Dental hygiene students are eligible for awards through the Spurgeon Dental Society in the School of Dentistry.

Undergraduate Research
Research opportunities are available at the undergraduate level for dental hygiene students. Students are encouraged to become involved in research activities pertaining to dental hygiene and dentistry.

Facilities
The dental hygiene program is located in the School of Dentistry with state of the art didactic, laboratory, and clinical facilities.

Graduate School
Upon satisfactory completion of the baccalaureate program, students are eligible for application to graduate programs in dental hygiene education, public health, and other allied areas. The School of Dentistry offers a master of science (M.S.) degree program in dental hygiene education to which graduates of the dental hygiene program may apply. Graduates also are eligible to apply for admission to the School of Dentistry predoctoral dental curriculum provided they complete additional prerequisites determined on an individual basis.

Other Career Opportunities
The demand for dental hygienists currently exceeds the supply. The growth of the dental health care field assures an excellent employment outlook for the coming years. Courses of study provide comprehensive educational experience to qualified individuals for the practice of dental hygiene in accordance with the current and changing demands for health services and in accordance with the laws and ethics pertaining to practice.

Contact Information
Questions concerning the program should be directed to: Student Services Manager, Allied Dental Education Programs, CB# 7450, 3220 Old Dental Building. (919) 966-2800. Web site: www.dent.unc.edu/academic.
School of Medicine

WILLIAM L. ROPER, Dean
LEE K. MCLEAN, Associate Dean and Chair, Department of Allied Health Sciences

DIVISION OF CLINICAL LABORATORY SCIENCE
(Formerly Division of Medical Technology)
www.med.unc.edu/ahs/clinical

SUSAN J. BECK, Director

Professors
Susan J. Beck, Vicky A. LeGrys, Rebecca J. Laudicina.

Associate Professor
Anthony E. Hilger.

Assistant Professor
Susan Orton.

Instructors
Tara Moon, Laine Stewart.

Introduction
Clinical laboratory science (CLS), also called medical technology, is the health profession that provides laboratory information and services needed for the diagnosis and treatment of disease. The field of clinical laboratory science combines many sciences, including microbiology, hematology, chemistry, and immunology. Clinical laboratory scientists perform a variety of laboratory tests, ensure the accuracy of the test results, explain the significance of laboratory test results, and evaluate new methods for laboratory tests. They play an essential role in the diagnosis and treatment of disease. Some of the tests performed in the clinical laboratory are relatively simple. Others, like DNA analysis and flow cell cytometry, are complex and require extensive training.

Examples of laboratory tests performed by clinical laboratory scientists include:
- detection of the abnormal cells that cause leukemia
- analysis of cardiac enzyme activity released during a heart attack
- identification of the type of bacteria causing an infection
- analysis of the coagulation factors in cases of abnormal bleeding
- detection of blood group antibodies that cause transfusion reactions
- analysis of genetic markers for cystic fibrosis
- typing patients for histocompatibility matches prior to transplantation

Program of Study
The degree offered is bachelor of science in clinical laboratory science.

Admission to the Program
A maximum of 20 students are chosen for admission each year. Students are selected on the basis of science and math prerequisite courses, grades, a written application, interviews, and letters of recommendation. Students with an overall grade point average less than 2.0 cannot be considered for admission to the UNC-Chapel Hill CLS program. Successful completion of the prerequisite courses listed under the major does not guarantee admission to the program. Because enrollment is limited, students are encouraged to begin the application process early in the fall preceding the year of enrollment. The deadline for completed applications is January 1. Completed applications received after January 1 will be considered for admission if positions are available in the program.

Majoring in Clinical Laboratory Science: Bachelor of Science
In the first and sophomore years, clinical laboratory science majors satisfy General Education requirements and take a basic science curriculum comparable to that of other science students. In the sophomore year, students apply for admission into the final two years of the program. Students in the UNC-Chapel Hill General College are required to satisfy all Foundations and Approaches requirements and take at least five Connections courses, including Global Issues, Experiential Education, and U.S. Diversity courses.

The junior year includes courses that cover the principal areas of clinical laboratory science. Students also learn and practice laboratory techniques in a student laboratory. Senior students rotate through the clinical laboratories at UNC Hospital and other laboratories in the state. They also take advanced courses in the clinical laboratory sciences. An accelerated program involving summer clinical rotations is available for a limited number of students.

The suggested course sequence for the required pre-clinical laboratory science courses at UNC-Chapel Hill is listed below. Transfer students receiving placement credit may have a slightly different sequence.

First Year

First Semester
CHEM 101 and 101L (C- or better required)
ENGL 101
Foreign language 1
MATH 130 or 231 or STOR 151
Lifetime Fitness
Approaches course

Second Semester
BIOL 101 and 101L
CHEM 102 and 102L
ENGL 102
Foreign language 2
Approaches/Connections course

Sophomore Year

First Semester
CHEM 241 and 241L
CHEM 261 recommended
Foreign language 3
Approaches/Connections courses

Second Semester
BIOL (BIOL 202 strongly recommended)
Remaining Approaches/Connections courses
CHEM 261 and BIOL 252, 252L are not required, but are recommended for students who have time in their schedules for additional science courses.

Junior Year

First Semester
CLSC 430 Biochemistry
CLSC 440 Hematology I
CLSC 440L Hematology I Lab
CLSC 450 Immunology
CLSC 450L Immunology Lab
CLSC 460 Microbiology I
CLSC 460L Microbiology I Lab
CLSC 420 Clinical Laboratory Analysis
CLSC 420L Clinical Laboratory Analysis Lab
CLSC 410 Laboratory Math

Second Semester
CLSC 470 Clinical Chemistry
CLSC 470L Clinical Chemistry Lab
CLSC 462 Microbiology II
CLSC 462L Microbiology II Lab
CLSC 480 Immunohematology
CLSC 480L Immunohematology Lab
CLSC 442 Hematology II
CLSC 442L Hematology II Lab

Senior Year
Clinical Education: Senior clinical education takes place in UNC Hospital laboratories and other clinical laboratories in North Carolina. These laboratories are highly regarded in the field of laboratory medicine, and students have the opportunity to learn the most recent techniques in clinical laboratory science.

Courses taken during fall or spring semester:
CLSC 630 Education
CLSC 570 Clinical Chemistry Practicum
CLSC 530 Molecular Techniques
CLSC 562 Special Microbiology Practicum
CLSC 510 Quality Assurance Practicum
CLSC 544 Case Studies in Hematology
CLSC 582 Transplantation Medicine
CLSC 540 Clinical Hematology Practicum
CLSC 560 Clinical Microbiology Practicum
CLSC 550 Clinical Immunology Practicum
CLSC 542 Hemostasis Practicum
CLSC 580 Clinical Immunohematology Practicum
CLSC 620 Clinical Laboratory Management
CLSC 520 Community Laboratory Experience

Special Opportunities in Clinical Laboratory Science

Departmental Involvement
CLS class officers organize students' professional activities and social events.

Experiential Education
Senior clinical courses provide a wide range of clinical laboratory experience in chemistry, hematology, hemostasis, microbiology, transfusion medicine, immunology, histocompatibility and molecular testing.

Certification
Upon successful completion of the clinical laboratory science curriculum, graduates receive the BS degree in clinical laboratory science. A certificate also is awarded by the Division of Clinical Laboratory Science and the Department of Allied Health Sciences. Graduates of the program are eligible to take national certification examinations in medical technology and clinical laboratory science.

Undergraduate Awards
Louise Ward Scholarships. Three scholarships are awarded to CLS students each year based on academic excellence, potential for success as a CLS student and practitioner, and financial need.

McLendon Laboratory Scholarships. Two scholarships covering tuition and books are awarded to CLS students each year. Recipients must agree to work for two years after graduation in the McLendon Laboratories of UNC Hospitals.

Outstanding CLS Student. Each year a CLS senior is named as the Outstanding Student based on nominations from clinical and academic faculty members.

Facilities
The laboratory facility for first year CLS courses includes individualized work areas for students with reagents, supplies, and laboratory instruments. In senior courses, students develop their skills in state of the art clinical laboratory facilities.

Graduate School and Career Opportunities
Clinical laboratory science provides a basis for a broad range of future endeavors. Graduates with a B.S. degree in clinical laboratory science can elect to pursue further study in medicine, dentistry, veterinary medicine, business or management, hospital administration, computer science, education, clinical chemistry, clinical microbiology, immunology, or another laboratory science area.

Clinical laboratory scientists are employed in hospital laboratories, commercial laboratories, physicians' office laboratories, research institutes, clinical trials, and forensic laboratories. Clinical laboratory scientists also may be employed as technical or sales representatives for corporations.

Contact Information

CLSC

150 [017] Current Topics in Clinical Laboratory Medicine (1). Open to non-majors. A survey of topics in laboratory medicine including transfusions, forensic science, infectious diseases, and hematologic diseases.

410 [064] Laboratory Mathematics (1). Basic mathematical principles and concepts relevant to the clinical laboratory.

420 [055] Clinical Laboratory Analysis (1). The physical, chemical, and microscopic analysis of body fluids in the clinical laboratory with an emphasis on correlation of laboratory data.

420L [055L] Clinical Laboratory Analysis Laboratory (1). Introduction to the basic skills associated with the clinical laboratory. Includes instrumentation and urinalysis.

430 [051] Biochemistry (3). Physiological biochemistry of the basic metabolic pathways and alterations in selected diseases.

440 [052] Hematology I (2). Introduction to normal hematopoiesis, blood cell function and identification, hematologic tests, principles of hemostasis, and hemostasis disorders.

440L [052L] Hematology I Laboratory (1). Basic clinical assays for identification and evaluation of erythrocytes, leukocytes, and platelets with an emphasis on microscopy. Also includes coagulation testing.

442 [065] Hematology II (2). Hematologic disorders involving erythrocytes and leukocytes, with an emphasis on the analysis and interpretation of laboratory data.

442L [065L] Hematology II Laboratory (1). Microscopic identification and evaluation of abnormal erythrocyte and leukocyte morphology, correlation with other laboratory data, and clinical interpretation.
450 [053] Immunology (3). Basic immunology and serology. Innate and immune body defenses. The development and properties of cellular and humoral elements and their alterations in pathological and other conditions.

450L [053L] Immunology Laboratory (1). Laboratory evaluation of body defenses and correlation with disease states. Clinical serological analyses include examples of basic techniques and correlation with immunity.


460L [054L] Microbiology I Laboratory (1). Clinical laboratory diagnostic methods for human parasitic and fungal infections. Microscopic morphology of fungal organisms and parasites, including their various life cycle forms.


462L [061L] Microbiology II Laboratory (2). Laboratory sessions provide practical experience in clinical identification of bacteria.

470 [060] Clinical Chemistry (3). An introduction to the methods of analysis used in the clinical chemistry laboratory. Emphasis on the correlation of chemistry laboratory values with disease states.

470L [060L] Clinical Chemistry Laboratory (2). Performance of clinical laboratory assays for significant biochemical molecules. Principles of analysis, quality control, and basic laboratory instrumentation are presented.

480 [062] Immunohematology (3). Introduction to blood group serology with an emphasis on the major blood group systems, pretransfusion testing, and antibody identification.

480L [062L] Immunohematology Laboratory (2). Laboratory techniques for red cell typing, antibody identification, and pretransfusion testing.


520 [094] Community Laboratory Experience (2). Clinical experience in a community laboratory facility designed to further develop and apply skills learned in the basic clinical rotations.

530 [073] Advanced Laboratory Techniques (1). Clinical laboratory rotation in DNA techniques including the diagnosis of genetic disorders, the detection of infectious agents, and forensic science.


542 [088] Clinical Hemostasis Practicum (2). Laboratory rotation in clinical coagulation.


550 [086] Clinical Immunology Practicum (1). Laboratory rotation in clinical immunology.

560 [084] Clinical Microbiology Practicum (4). Laboratory rotation in clinical microbiology.

562 [074] Special Microbiology Practicum (1). Clinical laboratory rotation in virology, mycology, parasitology, and mycobacteriology.

570 [071] Clinical Chemistry Practicum (4). Laboratory rotation in clinical chemistry.


620 [093] Clinical Laboratory Management (3). Foundation in the technical and non-technical aspects of supervision and management of clinical laboratory testing.

630 [063] Education and Research in Clinical Laboratory Science (3). Introduction to the basic principles of clinical laboratory education including objectives, learning formats, test development, and clinical teaching.

DIVISION OF RADIOLOGIC SCIENCE
www.med.unc.edu/ahs/radisci

JOY RENNER, Director
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Joy J. Renner, Robert L. Thorpe.
Assistant Professors
Melissa Jackowski, James Barba, Andrew Woodward.
Instructors
Caroline Goffena, Anita Culler, Jennifer Hayden.
Professors Emeriti
Charles B. Burns, Janice C. Keene.

Introduction
The School of Medicine's radiologic science program is designed to prepare individuals for professional practice and associated responsibilities in the health specialty of medical imaging.

Program of Study
The degree offered is bachelor of science in radiologic science.

Admission to the Program
Following completion of the first two years' work in the University's General College, students may be admitted to the professional major offered by the Department of Allied Health Sciences of the School of Medicine. Students enrolled at other colleges and universities who are interested in transferring to the Chapel Hill campus following their sophomore year should contact the Office of Undergraduate Admissions and the Division of Radiologic Science early in their college career to assure proper planning and transferability of courses. Students are encouraged to begin the application process early in the fall preceding the year of intended enrollment. Transfer applications should be received in the Office of Undergraduate Admissions by the designated University deadline, which is usually early January.

Since enrollment in the major is limited, completion of the student's course of study in the General College does not guarantee a position in the professional class. Students should contact the divi-
Majoring in Radiologic Science: Bachelor of Science

The schedule of academic work for radiologic science (medical imaging) majors includes the following General Education requirements. Students must complete all Foundations and Approaches requirements and take at least five Connections courses, including global issues, experiential education, and U.S. diversity. In addition, the following specific requirements apply to students in the General College:

The Foundations quantitative reasoning requirement must be satisfied with either MATH 130, 231, or 232.

Six courses in the physical and life sciences are required: CHEM 101/101L or BIOL 107/107L; BIOL 101/101L; BIOL 252/252L; PHYS 104/104L; PHYS 105/105L; PSYC 101.

After admission to the program, the curriculum in radiologic science includes courses in anatomy, radiography, imaging methods, research, and clinical practice. The first year of the program provides the foundation and skills for clinical practice and patient care in diagnostic radiography. The second year of the program builds on this foundation and enhances skills for career and practice advancement through communications, physics, and research. During the second year, the student elects areas of clinical concentration, such as magnetic resonance imaging, advanced diagnostic imaging, cardiac catheterization, and vascular/interventional imaging.

Course Sequence

SSII (Junior Year)
Introduction to Radiologic Science
Gross Human Anatomy

Fall Junior Year
Radiography I
Radiologic Imaging I
Pathophysiology
Clinical Education I

Spring Junior Year
Radiography II
Radiologic Imaging II
Integrated Principles of Radiographic Analysis
Clinical Education II

SSI and SSII (Senior Year)
Clinical Internship

Fall Senior Year
Radiologic Health Physics
Clinical Decisions in Radiology
Research in Radiologic Science I
Professional Communication and Interactions
Clinical Education III

Spring Senior Year
Research in Radiologic Science II
Issues in Radiology Practice Environment

Leadership in Radiologic Science
Clinical Education IV

Special Opportunities in Radiologic Science

Experiential Education
All of the clinical education courses provide the students with the opportunity to gain competence and proficiency in all areas of practice in a variety of clinical environments.

Undergraduate Awards

Undergraduate students are considered for the Faculty Award for Excellence; Award for Academic Excellence; and Tina Robbins Award.

Undergraduate Research

Students complete a research project and paper during the senior year of the program and are encouraged to submit the research projects to state and national research competitions.

Facilities

The program has a state of the art laboratory with digital imaging capabilities.

Graduate School and Career Opportunities

The Division of Radiologic Science bachelor of science degree program provides a basis for further study. Additional clinical specializations are available, e.g., in diagnostic medical sonography (ultrasound), nuclear medicine, and other areas. Graduates may elect graduate studies in health physics, education, management, and other health professions.

The clinical practice of medical imaging (radiologic technology) may include one or more of the specialty areas listed here, depending on professional preference and the type, size, and mission of the health facility where the technologist is employed: general radiography (such as orthopedics or pediatrics), vascular imaging, cardiac catheterization, computerized tomography, and magnetic resonance imaging. Responsibilities and salaries vary according to area and scope of practice.

Employment opportunities available in a variety of settings in both rural and urban areas include: 1) more generalized practice in medium to small hospitals; 2) specialized clinical practice in a large hospital; 3) clinics and free-standing imaging centers, which may offer both special and general practice opportunities; or 4) clinical practice coupled with expanded responsibilities in quality control, service education, and supervision, particularly in a large hospital.

Contact Information

For additional information contact the Director, Division of Radiologic Science, CB# 7130, Wing E, Medical School, (919) 966-5146, jrenner@med.unc.edu.

RAD1

432 [032] Concepts and Perspectives in Radiologic Science (1). This overview of radiologic science encompasses patient care, imaging modalities for diagnosis and treatment, radiation protection, health care trends, and information management systems. Pass/fail course.

442 [042] Introduction to Radiologic Science (3). Open to radiologic science students only. Lectures, discussions, demonstrations, and laboratory exercises are combined to introduce topics including patient assessment, image characteristics, radiation protection, posi-
tioning skills, medical terminology, and the role of imaging sciences in health care.

461 [061] Radiography I (4). Prerequisites, RADI 442 and AHSC 440. Prepares students for standard radiography of upper extremities, lower extremities, axial skeleton, bony thorax, chest, abdomen, and the basic skill, considering pathologies and gross, radiographic, and cross-sectional anatomy. Three lecture hours and two lab hours.

462 [062] Radiographic Imaging I (4). Prerequisites, RADI 442 and AHSC 440. An overview of radiographic imaging methods examining the imaging process as a sequence of events from x-ray production through hard copy processing. The imaging equipment is discussed in terms of function, influence on the image, the impact of alteration on image characteristics, and compensation techniques for changes in the sequence. Three lecture hours and two lab hours.

463 [063] Clinical Education I (4). Prerequisites, RADI 442 and AHSC 440. A clinical course focusing on the application and evaluation of radiography in the hospital setting. With supervision, the student develops clinical skills through observation and participation in radiographic procedures. Twenty practicum hours.

471 [071] Radiography II (3). Prerequisite, RADI 461. The course content prepares students for standard radiography of cranial bones, facial bones, and special cranial projections. Contrast studies include gastrointestinal, urinary, biliary, cardiovascular, and other special procedures. The course includes pathologies, and gross, radiographic, and cross-sectional anatomy. Two lecture hours and two lab hours.

472 [072] Radiographic Imaging II (4). Prerequisite, RADI 462. A detailed study of specific elements of the radiographic process, with an emphasis on the interrelationships of the radiographic parameters, refinement of image analysis and problem-solving skills, and quality control testing for evaluating the performance of the radiographic equipment and accessories. Three lecture hours and two lab hours.

473 [073] Clinical Education II (4). Prerequisite, RADI 463. A continuation of RADI 463 with emphasis on the application and evaluation of more complex radiographic studies. Twenty practicum hours.

574 [074A] Clinical Internship (3). Prerequisites, RADI 473 and approval of instructor. Under general supervision, the student will function at an increased level of responsibility in general diagnostic radiography in a variety of clinical settings outside of the university setting.

575 [074B] Clinical Internship (5). Prerequisites, RADI 473, 574; approval of instructor. Under general supervision, the student will function at an increased level of responsibility in radiography in clinical settings outside of the university setting. The course includes a comprehensive review examination and case studies.

583 [083] Clinical Education III (4). Prerequisites, RADI 574, 575. A clinical course utilizing contract learning to provide students an opportunity to gain additional competency in specialized areas of radiology. Twenty-four practicum and independent study hours.

585 [085] Radiologic Health Physics (3). Prerequisite, RADI 472 or permission of instructor. A course in the physics of diagnostic radiology, including radiation effects on tissue, radiation detection and measurement, protection methods and techniques, and environmental radiation issues. Three lecture hours.

586 [086] Research in Radiologic Science I (1). Prerequisite, completion of first professional year courses. The major part of the course is devoted to an investigative project on a discipline-related topic of student interest. Select issues affecting professional affairs of radiologic technologists are also included. Three lecture hours.

591 [091] Practicum in Radiologic Science (4). Prerequisite, RADI 593. This course offers an elective clinical experience in an area of student interest. Forty practicum hours.

593 [093] Clinical Education IV (6). Prerequisite, RADI 583. This course is a continuation of RADI 583 using learning contracts to allow students to explore and gain additional expertise in various areas of radiology. Thirty-two practicum hours.

596 [096] Professional Communications and Interactions (3). Prerequisite, completion of first professional year courses. This course provides a brief cognitive and skills approach to communication skills, the teaching/learning process, and methods and materials of instruction and delivery. Three lecture/discussion hours per week.

670 [064] Integrated Principles of Radiographic Analysis (4). Prerequisites, RADI 442, 461, 462, 463, 660. This course involves students in situational problem solving and radiographic analysis. Integration of concepts and knowledge of anatomy, pathology, procedures, patient care, and imaging principles are emphasized. Four lecture hours.

672 [172] Radiographic Imaging II (4). A detailed study of specific elements of the radiographic process, with an emphasis on the interrelationships of the radiographic parameters, refinement of image analysis and problem-solving skills, and quality.

681 [081] Trends in Medical Imaging Practices Issues in the Radiology Practice Environment (3). Prerequisite, completion of first professional year courses. A special topics course on contemporary issues affecting medical imaging services. Group projects stressing the technologist's role in the planning, design, staffing, and operation of a radiology service are required. Three lecture hours per week.

686 [087] Research in Radiologic Science II (2). Students complete a research project involving a major clinical or policy issue in radiologic science. This course is an expansion of the fall semester research culminating in both a paper and presentation.

694 [094] Clinical Decisions in Radiology (3). This course involves the pharmacology of common radiology medications and advanced patient assessment techniques. With the additional knowledge and skills, students can make informed decisions regarding patient care.

697 Leadership in Radiologic Science (3). In this course students will analyze the theoretical literature on leadership and apply that knowledge in the analysis of various radiology environment situations.

DIVISION OF SPEECH AND HEARING SCIENCES
www.med.unc.edu/ahs/sphs

JACKSON ROUSH, Director

Professors
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Associate Professors
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Research Professors
John H. Grose, Joseph W. Hall, Joanne E. Roberts.

Clinical Associate Professors
Linda R. Watson, David Zajac.

Clinical Assistant Professors
Brenda Mitchell, Martha Mundy, Stephanie Sjoblad.

Clinical Instructors
Lisa Domy.

Adjunct Assistant Professor
Debra R. Reinhartsen.

Adjunct Instructors
Carolyn Brown, Holly Teagle.

Graduate study in speech and hearing sciences is concerned with the body of knowledge and scientific study that pertains to both normal and abnormal speech, hearing, and language, and with professional, academic, and research activities in these areas. The Division of Speech and Hearing Sciences is a graduate program; however, there are pre-professional courses recommended for undergraduate students who anticipate pursuing master's or doctoral degrees in speech-language pathology or audiology. This includes courses in anatomy and physiology of the speech and hearing mechanisms, language acquisition, phonetics, speech science, linguistics, audiology, and statistics. Some of these courses may be taken at the undergraduate level through the Departments of Communication Studies and Linguistics; the courses are available to students in any major.

SPHS

196 [099] Undergraduate Independent Study in Communication Sciences (1-4). Supervised undergraduate independent study on communication science topics of mutual interest to the student and a faculty member.

530 [130] Introduction to Phonetics (COMM 530) (3). A detailed study of the International Phonetic Alphabet with emphasis on the sound system of American English. Application of phonetics to problems of pronunciation and articulation. Includes broad and narrow phonetic transcription.

540 [140] Speech Science (COMM 540) (3). Introduction to the science of speech, including production, acoustics, and perception.


582 [123] Introductory Audiology I (COMM 582) (3). Theory and practice of the measurement of hearing, causative factors in hearing loss, evaluation of audiometric results, and demonstration of clinical procedures.

583 [183] Introduction to Communication Disorders (3). Introduction to diagnosis and treatment of communication disorders, including articulation, fluency, voice, and language, and those resulting from autism and hearing loss.

School of Nursing
nursing.unc.edu

LINDA R. CRONENWETT, Dean
Gwen D. Sherwood, Associate Dean for Academic Affairs
Beverly Foster, Director, Undergraduate Program
Rumay Alexander, Associate, Office of Multicultural Affairs
Katherine Moore, Director, Office of Admissions and Student Services

Professors
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Clinical Instructors

Research Instructors
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Lecturer
James Vickers.
Introduction
Established in 1950, the School of Nursing was the first institution in North Carolina to offer a baccalaureate degree in nursing (1951); the first to offer a master’s degree program in nursing (1955); the first to offer continuing education for nurses (1964); the first in the state and one of the first three in the nation to offer a nurse practitioner program (1970); the first in the state to offer a doctoral program (1989); the first in the South and one of only nine in the country to establish a Center of Excellence in Nursing Research funded by the National Institute of Nursing Research at the National Institutes of Health (1994); and the first in the state to offer an accelerated baccalaureate degree in nursing for those who already hold undergraduate degrees in other fields (2001).

The school is committed to the enhancement and improvement of the health and well being of people through education, research, scholarship, clinical practice, and community service. Its undergraduate and graduate curricula and continuing education courses seek to reflect the changing health problems of society and to provide students with the tools to deal with those problems effectively. Admitted students exhibit the level of preparation, intellectual competence, and personal qualities judged necessary for the study of nursing in a university. School of Nursing graduates consistently achieve one of the highest NCLEX (licensure examination) passing rates in the state — well above the national average.

The school welcomes students from diverse cultural, economic, and geographic backgrounds and of both genders, as well as older individuals seeking a new career and registered nurses wishing to complete the bachelor's or master's degree. The school also admits students with a bachelor's degree in a field other than nursing.

The faculty is actively engaged in advancing the profession through research, with the conviction that this scholarly activity enhances teaching and patient care. The school is ranked fourth nationally among nursing schools for receipt of research funds from the National Institutes of Health. School facilities include modern research (biobehavioral) and computer-based laboratories; a comprehensive research support center; and an educational design center.

Program of Study
The degree offered is bachelor of science in nursing. The School of Nursing at the University of North Carolina at Chapel Hill offers an undergraduate program of study designed to provide students with the knowledge, skill, and understanding necessary to function effectively in all areas of professional nursing. The curriculum, leading to the bachelor of science in nursing (B.S.N.) degree, offers three options for study: 1) two years of upper division courses in the School of Nursing which follow two years of lower division courses in the General College (B.S.N. Option); 2) an accelerated second degree option for students with a previous bachelor's degree (A.B.S.N. Option); and 3) an R.N.-B.S.N. option for registered nurses with an associate's degree in nursing (R.N.-B.S.N. Option).

Admission to the School
The School of Nursing curriculum has been revised to accommodate enrollment expansion and twice per year admissions. The new curriculum began January 2007; for details refer to the school Web site (nursing.unc.edu).

First Degree Students
Students seeking a first bachelor’s degree are admitted to the upper division (junior-senior) level, typically in the spring semester of the sophomore year. Students must complete all lower division (first-year/sophomore) courses prior to matriculating into the School of Nursing. The first nursing courses begin either in the first summer session (May) preceding the junior year or in spring semester (January) of the junior year.

Admission Criteria
Admission to the School of Nursing is very competitive. The minimum cumulative grade point average for admission to the B.S.N. option is a 2.5 on a 4.0 scale. Admission to UNC-Chapel Hill as a first-year student does not guarantee admission to the School of Nursing as a junior. Applicants must be eligible to return to all institutions previously attended.

The admissions committee critically evaluates each applicant’s academic performance, descriptive essays, community service history, and special skills and abilities that have potential to affect care delivery or contribute overall to the nursing profession. The ideal applicant will clearly demonstrate a strong academic history as well as a commitment to the ideology of nursing and service to others. Performance in required science courses is particularly important.

Application
Applications may be submitted for either spring (January) or summer (May) matriculation. UNC-Chapel Hill students applying to the School of Nursing as sophomores or juniors complete the electronic nursing supplemental application while first degree transfer students who plan to enter the University at the junior level must complete the electronic nursing transfer application. The application link, instructions, deadlines, and decision timeframe can be found on the School of Nursing Web site (nursing.unc.edu/admissions/application.html).

Second Degree Students
Students who have completed a bachelor’s degree in a subject other than nursing may pursue admission to the B.S.N. option or the more accelerated and intensive A.B.S.N. option for completing the degree. Second degree students will have 60 credit hours from their previous degree counted toward the B.S.N. These students have to complete (or verify completion as part of their previous degree) only six courses from the lower division requirements (PSYC 101, STOR 151, BIOL 252, PHYS 395, MICRO 251 or 255, and a U.S. diversity or global issues Connections course).

Admission Criteria
Admission to the School of Nursing is very competitive. The minimum cumulative grade point average for admission to the B.S.N. option is a 2.5 on a 4.0 scale, and the minimum cumulative grade point average for the A.B.S.N. option is a 3.0 on a 4.0 scale. All applicants seeking admission as second degree students must have earned the first degree prior to submitting the nursing application. Applicants must be eligible to return to all institutions previously attended. Admission committee review is as described previously.

Application
Applications may be submitted for either spring (January) or summer (May) matriculation. Any applicant who has previously attended UNC-Chapel Hill must complete the electronic nursing readmit application. All other second degree applicants are considered transfer students and complete the electronic nursing transfer
application. The application link, instructions, deadlines, and decision timeframe can be found on the School of Nursing Web site (nursing.unc.edu/admissions/application.html).

**Registered Nurses**

Registered nurses with an associate's degree or diploma in nursing may pursue the B.S.N. through the R.N.-B.S.N. completion option, a Web-based program known as Carolina R.N.-B.S.N. Online. Students in this option earn a total of 122 to 126 credits: 60 to 64 lower division credits completed prior to enrollment; 35 credits for previously acquired nursing knowledge and skills (as validated by course work in the option); and 27 upper division nursing credits. All upper division major courses for this option are designed specifically for registered nurses and are offered online only. These courses are tailored to meet the needs of adult learners while providing theory-based content, critical thinking skills, and opportunities to apply concepts, theories, and research in clinical practice. Carolina R.N.-B.S.N. Online is designed to be completed in one to two calendar years depending on each student's previous course history. To access and work comfortably with online nursing course materials, students will need computer equipment that meets certain specifications. Information about computer hardware, software, and skill requirements is located on the option Web site (nursing.unc.edu/current/rn-bsn).

**Admission Criteria**

Requirements for admission to the Carolina R.N.-B.S.N. Online program are as follows:

- **Current unencumbered license as a registered nurse in the state in which the student will do clinical course work.** This requirement must be met by the time of enrollment in the first clinical course.
- **A cumulative grade point average of at least 2.0 in all post-secondary course work and eligibility to return to all institutions previously attended.**
- **Completion of all lower division (prerequisite) requirements prior to enrollment.**

**Application**

Applications may be submitted for spring (January), summer (May), or fall (August) matriculation. Any applicant who has previously attended UNC-Chapel Hill must complete the electronic nursing readmit application. All other applicants are considered transfer students and complete the electronic nursing transfer application. The application link, instructions, deadlines, and decision timeframe can be found on the School of Nursing Web site (nursing.unc.edu/admissions/application.html).

**Majoring in Nursing: Bachelor of Science**

The baccalaureate program in nursing prepares graduates to: 1) understand the problems of contemporary health and illness, 2) utilize a systematic approach to assess human responses to actual and potential health problems in a variety of settings, 3) directly provide and manage competent care for individuals, families, and groups who have simple to complex health care needs through the life span, 4) employ interpersonal processes and therapeutic communication skills, 5) integrate professional values and role behaviors, and 6) collaborate with other groups in shaping health policies that affect both individual and community health.

Courses in the nursing major are taken at the upper division level. The courses build on a strong foundation in the sciences and humanities to develop the knowledge and skills needed to practice nursing in contemporary society. Clinical experiences take place in a broad variety of settings that reflect current patterns of health care delivery and provide opportunities for students to develop competence in empathetic care, critical thinking, technical skills, clinical judgment and decision making, interdisciplinary collaboration, and management of care.

**Lower Division Courses in the General College**

Students are admitted to the baccalaureate nursing program at the upper division level. All lower division courses must be completed before beginning nursing courses. Lower division courses taken at another college or university must be approved for transfer by the UNC-Chapel Hill Office of Undergraduate Admissions as comparable to the courses offered on this campus. (For assistance refer to transfer equivalency database at https://www.s4.ais.unc.edu/sis/adm/xferq.html.)

All students must meet the Foundations and Approaches requirements outlined elsewhere in this bulletin. For nursing students, these must include:

*For the Foundations quantitative reasoning requirement: either STOR 151 Basic Concepts of Statistics and Data Analysis or STOR 155 Introduction to Statistics.*

For the Approaches physical and life sciences requirements (for a total of 28 credits):

- "PSYC 101 General Psychology"
- "CHEM 101L and CHEM 102L General Descriptive Chemistry or BIOC 107 and BIOC 108 Introduction to Biochemistry"
- "BIOL 101L Principles of Biology"
- "BIOC 252 Fundamentals of Human Anatomy and Physiology"
- "PHYS 395 Introduction to Physiology"
- "MCRO 251 Introductory Medical Microbiology or MCRO 255 Elementary Pathogenic Microbiology"

Nursing students also must satisfy the following Connections requirements: global issues*, U.S. diversity(*), experiential education, and at least two others, bringing total credit hours required of B.S.N. applicants to 68. A grade of C- or better in BIOL 252, PHYS 395, and MCRO 251 or 255 must be attained.

Students with a bachelor's degree must complete only the six courses marked with an asterisk or verify completion of these courses as a part of the previous degree. Note: second degree applicants may meet either the global issues or U.S. diversity prerequisite.

**Nursing Curriculum**

Nursing courses for any of the three options are ordinarily completed in a specified sequence. For option specific course grids and further details regarding courses in the new curriculum, see the Web site (nursing.unc.edu).

**Critical Information for ALL Nursing Students: Professional Risk**

The practice of nursing involves the care of individuals who are ill or injured. Communicable diseases are common in health care delivery settings and may be a threat to nursing students. During the performance of clinical practice/research activities, a student may have contact with patients/subj ects with HIV/AIDS, tuberculosis, hepatitis B, hepatitis C, and other infections. Such contact, although rare when proper preventive measures are used, may result in a student being exposed to infectious agents and/or transmitting an infectious disease to other students, faculty, patients,
family members, and subjects. During pregnancy, the fetus may be at risk. As a student enrolled in the School of Nursing at the University of North Carolina at Chapel Hill, students are expected to provide care to patients who may have known or unknown communicable diseases. Application to and acceptance of an offer from the School of Nursing indicates a student’s understanding of related professional risks.

**Fitness for Practice**

All students admitted to the School of Nursing are required by the N.C. Board of Nursing to provide documentation of their fitness to provide safe nursing care to the public. Failure to provide requisite documentation will result in the withdrawal of the admission offer. Additionally, North Carolina law requires incoming students to present to the University, before the first day of enrollment, evidence verifying the student has received all required immunizations.

Further, federal and state statutory regulations and clinical affiliate contractual mandates require that nursing students demonstrate particular cognitive and clinical competencies consistent with their minimum professional practice standards. As such, students must attain and maintain full compliance with all requirements. Effective fall semester 2004, the school also requires students to undergo a criminal history database check following admission acceptance. The check covers all states in which the student has lived or worked in the past seven years or since the 18th birthday, whichever is less. Database checks will address all criminal charges, felony and misdemeanor level convictions (except minor traffic related violations), and the Sexual Offender/Predator Registry for all states in which the student has lived. Questions about these requirements may be directed to the Office of Admissions and Student Services.

**Disability Statement**

Consistent with its mission and philosophy, the School of Nursing at the University of North Carolina at Chapel Hill is committed to providing educational opportunities to students with disabilities. In accordance with the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act, the school provides reasonable accommodations to otherwise qualified students with disabilities. The decision regarding appropriate accommodations will be based on the specifics of each case.

Students who seek reasonable accommodations for disabilities must contact Learning Disabilities Services for all learning disabilities or ADHD needs (919) 962-7227, or the Department of Disability Services for all other disabilities (919) 962-8300. These offices will determine a student’s eligibility for, and recommend, appropriate accommodations and services. More information may be obtained through the respective websites: Learning Disabilities Services via www.unc.edu/depts/lds or the Department of Disability Services via disabilityservices.unc.edu.

**Registered Nurse Licensure Examination Requirements**

The N.C. Board of Nursing requires all graduates of the School of Nursing who apply to take the National Council Licensure Examination (NCLEX) to undergo a routine criminal background check, which necessitates submission of a complete set of fingerprints with the NCLEX application.

**Special Opportunities in Nursing**

**Departmental Involvement**

Students are encouraged to participate in student leadership opportunities. These include the elected class governance system, the dean’s Student Advisory Council or course management team options, the Association of Nursing Students (the only pre-professional nursing organization available), and the Student Health Action Coalition. The interdisciplinary coalition provides health care to underserved members of the local community. More details can be found online (nursing.unc.edu/current/handbook/org_general.html).

**Experiential Education**

The nursing program requires extensive direct clinical practice in a wide variety of acute care, chronic care, and community-based settings considered essential for the preparation of competent practitioners. Clinical contact time varies by study option and semester length, but averages approximately twelve to 16 hours per week for pre-licensure students.

**Financial Aid**

Students granted admission to the School of Nursing seeking the baccalaureate degree at UNC-Chapel Hill may be considered for a variety of nursing-specific scholarships and other financial aid opportunities. For assistance, contact the Office of Scholarships and Student Aid by phone at (919) 962-8396 or through the Web (studentaid.unc.edu), or call the Office of Admissions and Student Services at (919) 966-4260.

**Study Abroad**

Students may participate in selected study abroad options offered through required or elective courses.

**Undergraduate Awards**

During the final semester of the senior year, the top one-third of students in each option will be invited to membership in Sigma Theta Tau International Nursing Honor Society. The George Livas Award recognizes the senior student who most clearly demonstrates academic excellence and leadership. Other awards presented during the school’s commencement ceremony honor those students achieving the highest GPA in their respective option.

**Undergraduate Research**

Through the Honors Program, the University and the School of Nursing recognize undergraduates who have demonstrated exceptional academic ability and independent work in their major (www.unc.edu/depts/honors). Qualified and interested senior students will be paired with a faculty advisor who guides the student in an independent study honors project. The director of the undergraduate program supervises the Honors Program. Students participating in the Honors Program must have a 3.2 cumulative University grade point average (GPA). In addition, students must have and maintain a 3.4 cumulative nursing GPA. Calculation of the cumulative GPA is based solely on the required hours earned to date for the nursing degree. Grade point averages are not rounded. The student and honors advisor must complete a written contract, and the student must register for NURS 691H and NURS 692H (Honors Study in Nursing). Each honors course carries three hours of credit and is assigned a letter grade by the advisor. A student’s project must show evidence of independent, abstract, analytical, and critical thinking.
Facilities
The School of Nursing is located in Carrington Hall and its new addition, opened in 2005. The Clinical Education and Resource Center (CERC) provides undergraduate students with a simulated clinical environment in which to practice and acquire fundamental psychomotor and psychosocial skills necessary for clinical application. Under the close supervision of nursing faculty and teaching assistants, students learn therapeutic techniques and procedures, utilize problem solving approaches, and prioritize patient care in simulated patient care situations.

Graduate School and Career Opportunities
The school offers a Master of Science in Nursing (M.S.N.) degree in six advanced practice areas and a Ph.D. degree in nursing science. B.S.N. graduates may pursue the M.S.N. after one year of clinical practice, or they may pursue the Ph.D. directly following the B.S.N., prior to completion of any master’s level coursework. For further information on the graduate program, contact the Office of Admissions and Student Services as noted below or see the school Web site.

Career Opportunities
The school works closely with University Career Services to prepare all B.S.N. graduates for the transition from student to professional practitioner. A preparatory career development series and career fairs are offered annually. Additionally, the school cooperates with clinical agencies across the country to make available to students an array of information on employment opportunities in a myriad of settings and entry-level roles.

Contact Information
For general information on the School of Nursing, contact the Office of Admissions and Student Services, School of Nursing, CB #7460, Carrington Hall, (919) 966-4260. Web site: nursing.unc.edu. E-mail: nursing@unc.edu.

NURS
251 [051] Discipline of Nursing I (1). Prerequisite, admission to program. This course introduces the discipline, profession, and practice of nursing through a study of history, values, culture, legal issues, and education. Critical thinking central to nursing practice is introduced.

252 [052] Individual and Family Development across the Life Span (3). Prerequisite, admission to program. Using a life span approach, the course focuses on individual psychosocial and cognitive development, developmental milestones, physical growth, and risk prevalence from infancy through elder years, and on family development.

253 Individual Development across the Lifespan (2). Prerequisite, admission to the undergraduate program. This course emphasizes a lifespan approach to theories and perspectives on individual growth and development. Content focuses on physical, cognitive, socioemotional development, and risk factors from birth to death.

254 Discipline of Nursing I (1). Prerequisite, admission to the undergraduate nursing program. This course introduces the discipline, profession and practice of nursing through a study of history, values, culture, legal issues, and education. Critical thinking to nursing practice is introduced.

255 [055] A Life Span Approach to Development of the Individual and Family (1-3). Prerequisite, admission to program or permission of the instructor; corequisite, NURS 363. Individuals and families are studied from a life-span developmental approach. The role of the nurse in relation to developmental needs and family focused-care is explored.

261 [061] Nursing Role in Normal Nutrition (2). Prerequisite, admission to program or permission of the instructor. This course involves the nursing application of nutritional concepts to the care of individuals, families, groups, and populations across the life span.

262 [062] The Discipline of Nursing Part I (1). Prerequisites, admission to the program and a required nursing course with a clinical component. This three-part sequenced course will guide students in developing contextual knowledge and values of the discipline, emphasizing nursing history and theory, role specialization, and professional development.

351 Discipline of Nursing, Part II (1). NURS 251, This course explores professional practice through research review and clinical situations. Ethics, care as a central nursing tenet, compassion, spirituality, presence, hope, truth telling and advocacy will be explored.

354 Discipline of Nursing, Part II (1). Prerequisite, admission to the program. This course explores professional practice through research review and clinical situations. Ethics, care as a central nursing tenet, compassion, spirituality, presence, hope, truth telling, and advocacy will be explored.

356 [056] Basic Theories, Processes and Skills for Clinical Nursing (6). Prerequisite, NURS 251; pre/corequisites, NURS 252, NURS 357, NURS 358, NURS 359, NURS 261. The focus of the course is on development and application of basic nursing concepts and skills in classroom, laboratory, and clinical settings.

357 [057] Pathophysiology (3). Prerequisite, admission to program. The course is concerned with the disruption of normal physiology; the alterations and mechanisms involved in the disruption; the manifestations in disease and at risk conditions; and the pathophysiological principles underlying therapeutic interventions.

358 [058] Pharmacology (2). Prerequisite, admission to program. Using the science of pharmacology and pharmacologic principles underlying therapeutic interventions, the course focuses on the introduction to nursing responsibilities regarding pharmacologic therapy.

359 [059] Nursing Care of Patients with Major Adult Health Problems I (3). Prerequisite, NURS 251; pre/corequisites, NURS 252, NURS 356, NURS 357, NURS 358, NURS 261. First level course in applying critical thinking skills to nursing care problems of adults with major health problems.

360 Concepts, Processes and Skills for Evidence-Based Nursing (4). Prerequisite, admission to the undergraduate nursing program. The course focuses on understanding basic nursing concepts. The development of communication, teaching, and psychomotor skills are emphasized in conjunction with nursing process.

361 Pathophysiology (3). Prerequisite, admission to the undergraduate nursing program. This course is concerned with alterations involved in disruptions of normal physiology as well as
pathophysiologic principles underlying therapeutic interventions and outcomes.

362 Pharmacology across the Lifespan (3). Prerequisite, admission to the undergraduate nursing program. Using the science of pharmacology and pharmacologic principles underlying therapeutic interventions, this course focuses on an introduction to nursing responsibilities regarding pharmacologic therapy across the lifespan.

363 [063] Concepts, Processes, and Skills for Evidence-Based Nursing Practice (6). Prerequisite, admission to the program. The course focuses on applying basic nursing concepts. Communication, teaching principles, nutrition, and psychomotor skills are emphasized in conjunction with nursing process. Research as a basis for practice is recognized.

365 [065] Nursing Care of Adults and Elders with Major Health Problems (6). Prerequisites, NURS 255, NURS 261, NURS 262: Introduction, 363, 364; corequisites, NURS 362: Roles, NURS 367, NURS 468, NURS 370, NURS 372. A health patterns' framework is used to examine the theoretical, research, and clinical bases of nursing practice with adults and elders experiencing major biophysical alterations.

366 [066] Health Assessment (3). Prerequisites, Pre/corequisites, admission to program. Concepts and methods of comprehensive health assessment of children, adults, and elders. Emphasis will be on data collection as a basis for initiation of caring care and decision making in nursing practice.

367 [067] Pathophysiology for Nurses (3). Prerequisite, admission to program; corequisite, a required nursing course with clinical component. The course is concerned with the disruption of normal physiology; the alterations and mechanisms involved in the disruption; the manifestations in disease and at risk conditions; and the pathophysiologic principles underlying therapeutic interventions.

369 [069] Physical Assessment (3). Prerequisite, admission to the program or permission of instructor. This course provides an introduction to patient assessment, including interviewing, history taking, physical exam, and recording analysis, and use of assessment data in planning patient care.

370 [070] Research for Nurses (3). Prerequisites, admission to program, NURS 262, and one required course with a clinical component; corequisite, one required nursing course with a clinical component. This research course focuses on the values and inquiry skills to systematically locate, critically evaluate, and use research related to the nursing care of individuals, families, and groups in a global society.

371 Introduction to Nursing Research (3). NURS 360 and one other clinical course or permission of the instructor. This course helps students conceptualize both the basic research process and the importance of research to nursing, and enables students to understand and use published health care research.

372 (72 part 1) Pharmacology across the Life Span I (1). Prerequisites, admission to the program; corequisite, a required nursing course with clinical component. This course, taught in two parts, uses pharmacology and pharmacologic principles to examine pharmacologic therapy and nursing responsibilities with clients across the life span.

377 [077] Research in Nursing Practice (3). Prerequisite, admission to the program. This course introduces the registered nursing student to the components of the research process with application to the theory and practice of nursing.

379 [079] Leadership in Nursing Practice (3). Prerequisite, admission to the program. Students will examine health care organizations from a systems perspective and develop leadership skills necessary in professional practice.

382 Family-Centered Genomic Health Care (1). Prerequisite, admission to the undergraduate nursing program. This course explores essential competencies in genetics and genomics for registered nurses. The learner gains knowledge about family assessment and the impact of genomic issues on individuals and families.

388 [088] Introduction to Nursing Research (3). Prerequisites, NURS 251, NURS 356. This introductory course helps students conceptualize both the basic research process and the importance of research to nursing, and enables students to understand and use published health care research.

451 Discipline of Nursing, Part III (1). Prerequisites, NURS 251, NURS 351. This course emphasizes professional development. Students are introduced to a variety of roles for nurses and the underlying values shaping career trajectories related to practice and practice settings.

462 The Discipline of Nursing III (1). Prerequisites, NURS 062, NURS 262. This three-credit course will guide students in developing contextual knowledge and values of the discipline, emphasizing nursing history and theory, role specialization, and professional development.

468 [068] Public Health and Community Practice (4). Prerequisites, NURS 255, NURS 261, NURS 262, NURS 363; corequisites, NURS 362, NURS 365, NURS 367, NURS 370, NURS 372. Introduction to public health/communitery health nursing, epidemiology, and community practice with emphasis on strengthening population health through health promotion and disease prevention for individuals, families, and communities.

471 [071] Nursing Care of Infants and Children (5). Prerequisites, NURS 251, NURS 252, NURS 356, NURS 261; pre/corequisites, NURS 357, NURS 358, NURS 359, NURS 366. The nursing care of children and their families is explored. Knowledge from a variety of disciplines is applied through the nursing process to the direct care of infants and children.

472 Pharmacology Across the Lifespan, Part II (1). Prerequisite, NURS 372. This course, taught in two parts, uses pharmacology and pharmacologic principles to examine pharmacologic therapy and nursing responsibilities with clients across the life span.

473 [073] Maternal/Newborn Nursing (5). Prerequisites, NURS 251, NURS 252, NURS 356, NURS 261; pre/corequisites, NURS 357, NURS 358, NURS 359, NURS 366. The course focuses on application of critical thinking skills to provide competent maternal and newborn care and demonstration of caring through the family-centered approach to maternal/newborn care.

474 [074] Community Health Nursing (5). Prerequisites, NURS 251, NURS 252, NURS 356, NURS 261; pre/corequisites, NURS 357, NURS 358, NURS 359, NURS 366. The course provides a theoretical and empirical foundation for the practice of community/public health nursing using critical thinking to focus on health promotion and disease prevention.
475 [075] Nursing Care of Clients with Mental Health Problems (5). Prerequisites, NURS 251, NURS 252, NURS 356, NURS 261; pre/corequisites, NURS 357, NURS 358, NURS 359, NURS 366. The course relies upon critical thinking for applying psychiatric and nursing theories to the nursing process in the care of mentally ill clients and families in various health care settings.

477 Psychiatric Mental Health Concepts for Broad Clinical Application in Nursing (5). Prerequisites, NURS 253, NURS 361, NURS 362; corequisites, NURS 364, NURS 382. Using theories of psychosocial development, psychopathology, therapeutic communication and psychotherapy, this course requires students to examine the range and complexities of human emotional suffering and methods of effective intervention.

478 [078] Care of Individuals and Groups with Mental Health or Cognitive Disorders (6). Prerequisites, NURS 255, NURS 261, NURS 262, NURS 362, NURS 363, NURS 365, NURS 367, 370, 372, NURS 468, NURS 370, NURS 372; corequisites, NURS 462, NURS 472, NURS 582. This course prepares students to work collaboratively with individuals, families, and groups coping with mental health or cognitive problems. A broad theoretical base for delivering quality interdisciplinary care is presented.

479 Maternal/Newborn Nursing (3). Prerequisites, NURS 253, NURS 254, NURS 261, NURS 360, NURS 361, NURS 362, NURS 364, NURS 366. The course focuses on application of caring and critical thinking skills in providing evidence-based nursing care to childbearing families.

480 [080] Nursing Care of Children and Their Families (4). Prerequisites, NURS 255, NURS 261, NURS 262, NURS 362, NURS 363, NURS 365, NURS 367, NURS 468, NURS 370, NURS 372, 468, NURS 478, NURS 483; corequisites, NURS 462, NURS 472, NURS 582. Caring and critical thinking skills are utilized in applying knowledge from a wide range of nursing, biological, and social sciences to the direct care of children and their families.

481 Professional Nursing I (3). This course explores interdisciplinary practice while the student is engaged in real-life work in a health care setting. Students examine nursing practice focusing on the nurse as team member.

483 [083] Nursing Care of Childbearing Families (4). Prerequisites, NURS 255, NURS 261, NURS 262, NURS 362, NURS 363, NURS 365, NURS 367, NURS 468, NURS 370, NURS 372, 468, NURS 476, NURS 478; corequisites, NURS 462, NURS 472, NURS 582. Critical thinking and caring skills are used through a family-centered approach to provide care to families throughout normal and complicated pregnancies, childbearing, and postpartum.

488 Practicum in Nursing: Practice Improvement Work Experience (3). Prerequisite, NURS 364. This course explores interdisciplinary practice while the student is engaged in practice improvement activities in a health care setting.

489 Practicum in Nursing: International Work Experience (3). Prerequisite, NURS 364. This course explores interdisciplinary practice while the student is engaged in an international work experience in a health care setting.

490 [090] Conceptual Bases of Professional Nursing Practice (3). Prerequisite, admission to the program. Selected concepts and theories are explored as a basis for making judgments and decisions in nursing practice. Critical thinking skills are developed as an essential component of professional practice.

491 [091] Improving Nursing Practice: Application of Concepts, Theories, and Research (3). Prerequisites, admission to the program; and R.N. license. This course emphasizes analysis of clinical problems that affect the nursing care of selected populations. Students apply the nursing process, therapeutic communication skills, and teaching-learning principles in clinical situations.

494 [094] Community Health Issues in Nursing Practice (3-6). Prerequisites, admission to the program and R.N. license. Prepares R.N. students for population-focused practice in community health nursing. Analyses and applications of selected theories, and health promotion/protection and disease prevention strategies are emphasized.

551 Discipline of Nursing, Part IV (1). Prerequisites, NURS 251, NURS 351, NURS 451. This course explores professional practice through research review and clinical situations. Ethics, care as a central nursing tenet, compassion, spirituality, presence, hope, truth telling and advocacy will be explored.

581 [082] Genetics in Nursing Practice (1). Prerequisites, NURS 255, NURS 261, NURS 262, NURS 362, NURS 363, NURS 365, NURS 468, NURS 370, NURS 372, 468; corequisites, NURS 462, NURS 472, and NURS 478 or NURS 480 or NURS 483. Knowledge, skills and values associated with the nursing role in the promotion of genetic health and well-being of the client and family are explored.


587 [087] The Nurse in Today's Health Care Environment (3). Prerequisites, NURS 255, NURS 261, NURS 262, NURS 362, NURS 363, NURS 365, NURS 367, NURS 468, NURS 370, NURS 372, 468, NURS 476, NURS 478, NURS 480, NURS 582, NURS 483, 585; corequisites, NURS 585. Issues and policies impacting affecting the profession of nursing and the health care delivery system examined both globally and with application to the learner's practice setting.

589 Professional Nursing II (3). Course is under revision; see nursing.unc.edu for details.

592 Professional Nursing Part III (3). Course is under revision; see nursing.unc.edu for details.

593 [093] Nursing Care of Patients with Major Adult Health Problems II (8). Prerequisites, NURS 251, NURS 252, NURS 261, NURS 351, NURS 356, NURS 357, NURS 358, NURS 359, NURS 366, and at least two of the following: NURS 471, NURS 473, NURS 474, NURS 475; pre/corequisite, NURS 592. Second level course in applying critical thinking skills to complex health problems of adults. Emphasis will be placed on continuity of care and intervention necessary for promoting optimal patient outcomes.

595 [095] Alternative Paradigms for Nursing Practice (3). Prerequisite, admission to the program. Concepts and principles underlying biomedical and biopsychosocial approaches to health care delivery are analyzed to determine their impact on health and to provide a framework for integrating both approaches to care.
Clinical Assistant Professors


Clinical Instructors

Kevin L. Almond, Christine Goodman, Jenna Ivey, Sum Lam, Jennifer Peterson.

Research Professor

Doyle M. Cummings, Clark Jeffries.

Research Associate Professors

Juan Li, Fen Liu, Susan Morris-Natschke.

Research Assistant Professors


Professors Emeriti

George Coclas, Iris Hall.

School of Pharmacy

www.pharmacy.unc.edu

ROBERT A. BLOUIN, Dean

Executive Associate Dean

Gary M. Pollack.

Associate Deans

Kevin L. Almond, Pamela U. Joyner, James McAllister, Dhiren R. Thakker.

Professors


Associate Professors


Assistant Professors

Joel Farley, Richard A. Hansen, Roy Hawke, Michael Jarstfer, Andrew L. Lee, Craig Lee, Jian Liu, Rihe Liu, Mary Roth, Christine Walko, Qisheng Zhang.

Clinical Professors


Clinical Associate Professors


Introduction

The School of Pharmacy was established as an academic unit of the University of North Carolina at Chapel Hill in 1897. For the past 50 years the school has occupied Beard Hall, named in honor of the school’s second dean, John Grover Beard. In 2002, the Banks D. Kerr Hall annex was opened, doubling the space of the school and providing a modern research wing along with outstanding new teaching facilities. The School of Pharmacy is located on the UNC-Chapel Hill Division of Health Affairs campus with the Schools of Medicine, Dentistry, Public Health, and Nursing. Additionally, a satellite campus of the doctor of pharmacy (Pharm.D.) program, operated in partnership with Elizabeth City State University ( ECSU), enrolled its first students in August 2005. This partnership program provides students the opportunity to complete requirements for the UNC-Chapel Hill doctor of pharmacy degree while living on the ECSU campus. The doctor of pharmacy program, including the ECSU satellite, is accredited by the Accreditation Council for Pharmacy Education. Graduates of the school’s Pharm.D. program may sit for the state licensure examination for pharmacists.

Pharmacy is an evolving profession with opportunities for generalist and specialist practitioners. Generalists may practice in a variety of environments, including community pharmacies, health-system pharmacies, and the pharmaceutical and health care industries. Specialty pharmacy practitioners pursue training beyond the Pharm.D. in the form of residencies and fellowships and may ultimately practice in medical areas such as pediatrics, geriatrics, cardiology, oncology, ambulatory/community care, and others. Pharmacists must be able to evaluate complex approaches to drug therapy and advise patients and other health care professionals on strategies to achieve optimum quality of pharmaceutical care. Other
pharmacists are engaged in practices that involve monitoring, managing, and implementing policies affecting drug prescribing and use across large groups of patients, such as those enrolled in a health plan.

The School of Pharmacy offers graduate education and training programs in addition to the clinical practice (Pharm.D.) degree. The school offers the M.S. and Ph.D. in various disciplines within the pharmaceutical sciences, with concentration areas in molecular pharmaceutics, pharmacotherapy and experimental therapeutics, medicinal chemistry and natural products, and pharmaceutical outcomes and policy.

Program of Study

The degree offered is doctor of pharmacy.

The entry-level degree into the profession and practice of pharmacy is the doctor of pharmacy degree, also known as the Pharm.D. degree. The Pharm.D. degree is neither an undergraduate nor a graduate degree program, but rather a professional degree program. Since fall 1996, the University of North Carolina at Chapel Hill has offered the Pharm.D. as its sole professional degree preparing individuals for practice licensure.

The Pharm.D. curriculum requires a minimum of two years to satisfy requirements normally completed in the General College, followed by four years of professional course work. During the professional program, ten months are spent in professional practice experiences under the direct supervision of practicing pharmacists. Eight months of these practice experiences occur during the final year.

Pharm.D. curriculum requirements and costs of attendance are the same for students on the Chapel Hill and Elizabeth City campuses. Pharm.D. students on the ECSU campus remain on the ECSU campus, with the exception of orientation and special events, for the first three years of instruction in the professional program. Instruction is delivered to students on the ECSU campus through synchronous and asynchronous video teleconferencing, Web-based instruction, and instruction by ECSU-based faculty. Students from both campuses complete the ten-month experiential requirements through the Area Health Education Center (AHEC) system.

Students graduating from the UNC-Chapel Hill School of Pharmacy must demonstrate professional practice competencies, including, but not limited to, the ability to:

- Develop patient-specific therapeutic plans
- Select an appropriate route and method of medication administration
- Determine the appropriate dose and dosage schedule for a medication
- Provide and manage systems for delivering pharmaceutical products
- Counsel patients regarding the importance, nature, scope, and methods of delivery of the drug products and therapeutic plans being implemented
- Monitor drug therapy and educate patients with regard to self-monitoring to help manage disease
- Communicate effectively with patients, patient advocates, and other health care professionals
- Organize, plan, direct, and manage a pharmaceutical care practice/system

In addition, pharmacy graduates must pass national and state licensing examinations in order to practice as a pharmacist.

Admission Requirements

Students are admitted to the Pharm.D. program (the four-year program of professional studies) in the School of Pharmacy upon completion of at least two years (the pre-pharmacy years) of college work in the General College of the University of North Carolina at Chapel Hill or in any accredited institution of higher learning in the United States. Criteria for admission include satisfactory completion (with a grade of C- or better) of all pre-pharmacy courses prior to beginning the pharmacy program. Other considerations for admission include overall quality of academic performance in pre-pharmacy courses, Pharmacy College Admissions Test (PCAT) scores, interview scores, involvement in extracurricular activities, and two letters of recommendation.

Application Procedures

Students applying to the School of Pharmacy must submit complete applications to the Pharm.D. program through the Pharmacy College Application Service (PharmCAS) and the School of Pharmacy. For application deadlines, process, and procedures, visit our Web site at www.pharmacy.unc.edu. Those who wish to be considered for admission to the partnership program on the ECSU campus should complete a PharmCAS application for the UNC-Chapel Hill program and note their campus preference on the required form in the School of Pharmacy supplemental application materials.

In addition, because pharmacy students are health care workers, the UNC-Chapel Hill School of Pharmacy requires that accepted applicants complete immunizations in addition to those required for the general population. To enroll in this program, a student must have been fully immunized against hepatitis B. Note that the hepatitis B vaccination series takes a minimum of six months to complete, so students should start the series no later than January 1st of the year in which they plan to enroll.

Prerequisites and Program Requirements

The General Education requirements and program prerequisites for the School of Pharmacy can be found on the school's Web site at www.pharmacy.unc.edu.

Honors in Pharmacy

The school offers a departmental Honors Program to provide professional growth to highly motivated students. The Honors Program of the school is an enrichment of the Pharm.D. curriculum designed to help develop critical thinking skills and expand the range of possibilities available to academically talented and motivated pharmacy students. Students are invited to participate in the Honors Program seminar during the fall semester of their first year of pharmacy school. Students have to complete an application and interview with the Honors Program committee. Once admitted into the program, the students must meet several requirements for retention into the program. Honors Program students complete all required course work in the curriculum and have the additional opportunity to work closely with individual faculty on topics of particular interest. In addition, they participate in a weekly seminar series and conduct original research in collaboration with a faculty member. Most research projects lead to publications in a professional or scientific journal, and students often find the Honors Program is an avenue to expanded career opportunities. Approximately ten to twelve students are admitted each year to the program.
Special Opportunities in the School of Pharmacy

Departmental Involvement

Pharmacy students are very active in campus and community activities. They belong to groups that link them to such national professional organizations as the American Pharmacists Association and the American Society of Health System Pharmacists. Pharmacy students provide medication reviews for elderly citizens, staff clinics for indigent patients, and participate in health fairs on campus and in local malls or corporations. Several times each year, trips are planned to attend meetings across the nation.

Experiential Education

The Professional Experience Program provides entry-level doctor of pharmacy students with a structured, supervised program of participation in the practice of pharmacy. Students gain experience in problem solving and providing patient care services while applying the basic and pharmaceutical sciences learned in the classroom and practice laboratories. Under the supervision of faculty and selected preceptors, the student learns to make decisions based on professional knowledge and judgment. Broad exposure to as many pharmacy activities as possible, as well as significant personal study and reflection, facilitates this transition. The Professional Experience Program requires ten months of full-time precepted practice, with early practice experience in the second professional year and third professional year, followed by eight months of advanced practice experiences in the fourth professional year. Students receive four hours of academic credit for each month of professional experience. The ten-month Professional Experience Program meets the North Carolina Board of Pharmacy experience requirement (1500 hours) to sit for the licensure examination.

Laboratory Teaching Internships and Assistantships

Approximately 25 laboratory teaching assistantships, providing a modest stipend, are available for third professional year students to serve as course facilitators to students in the first year pharmaceutical care lab courses. Students may apply for these assistantships in the spring of their second professional year. Eligibility criteria for these positions include excellent communication and problem-solving skills and completion of first and second year lab courses with a grade of B or better.

Residencies and Fellowships

To increase the depth of their education, a growing number of Pharm.D. graduates are seeking residency training in pharmacy practice. Pharmacy residencies, like medical residencies, provide stipends for further clinical training. There are approximately 800 pharmacy residency positions in the United States, with sites in hospitals, community pharmacies, and some specialized facilities. Residency programs may be taken in general pharmacy practice and in specialty areas such as pediatrics, drug information, infectious diseases, oncology, psychiatry, and many others. Some Pharm.D. graduates seek additional training in research methods in drug development, pharmacokinetics, pharmacoeconomics, or pharmacotherapy. Postgraduate fellowship programs involve advanced training in these areas and may occur at academic centers or throughout the pharmaceutical industry. Like residencies, they are paid positions.

Facilities

The School of Pharmacy houses state-of-the-art teaching and research laboratory facilities. Two lecture halls and two small group classrooms house cutting-edge video teleconferencing and recording equipment used primarily for delivery of instruction to the satellite campus at ECSU but also available to graduate and continuing education.

Graduate School and Career Opportunities

Graduate degrees offered through the School of Pharmacy are administered by the Graduate School of the University of North Carolina at Chapel Hill. Students may pursue graduate study in pharmaceutical sciences with concentration in molecular pharmaceutics, pharmacotherapy and experimental therapeutics, medicinal chemistry and natural products, or pharmaceutical outcomes and policy.

Pharmacy offers a variety of opportunities for career advancement and job security. Because pharmacy education draws from the chemical, physical, biological, and behavioral sciences to develop its knowledge base, pharmacists can contribute to the rational use of medications in many settings. Pharmacists work in all areas of the health care system, including:

- Community pharmacy – as a practitioner or a manager in a retail pharmacy, clinic, or office practice
- Health system pharmacy – as practitioner, supervisor, or manager in large or small hospitals, nursing homes, extended care facilities, and health maintenance organizations
- Pharmaceutical industry – in positions involving research, production, product development, product marketing, and drug information
- Government – in the U.S. Public Health Service, Veterans Administration, Drug Enforcement Administration, Food and Drug Administration, and military services

Contact Information

For further information, please write to the Office of Student Services, School of Pharmacy, CB# 7360, Beard Hall, Chapel Hill, NC 27599 or visit the school’s Web site at www.pharmacy.unc.edu. For additional information about the UNC-ECSU Pharmacy Partnership Program, send inquiries to pharmacy@mail.ecsu.edu.

School of Public Health

www.sph.unc.edu

BARBARA K. RIMER, Dean
Peggy Leatt, Associate Dean for Academic Programs
Felicia Mbane, Assistant Dean for Students

Lists of faculty in the four departments (biostatistics, environmental health science, health policy and administration, and nutrition) are included with information about those undergraduate majors.

Introduction

The School of Public Health is located on UNC's south campus, around the corner from UNC Hospitals and near the schools of Medicine, Nursing, Dentistry and Pharmacy. In this inspiring atmosphere, faculty guide students in science-based research and studies. Together, they conduct groundbreaking research across North Carolina and around the world. They don't just discover new knowledge; they also translate it into practice.
Accredited by the Council on Education for Public Health, the school offers both undergraduate and graduate programs in traditional classrooms and through the latest distance-education technology. Facilities include a new state-of-the-art research center. Many other offices, classrooms, and labs are being updated and renovated.

The School of Public Health has combined nearly 70 years of experience with a passion for teaching, research, and practice, all with the ultimate goal of improving local, national, and global health. Its positive results help it remain a national leader, ranked the top public school of public health by U.S. News and World Report (2003).

To learn more about public health, visit www.whatispublichealth.org. Developed by the Association of Schools of Public Health, the site describes public health, its effect on our lives and the variety of public health careers.

Programs of Study
The undergraduate degree offered is the bachelor of science in public health (B.S.P.H.). The program consists of four majors: biostatistics, environmental health sciences, health policy and administration, and nutrition. Each of these majors combines features of a broad-based education with concentrated study in a specific public health discipline. The programs prepare individuals for pre-professional positions in health-related fields and provide a firm base for graduate study.

Admission to the School
Students who wish to obtain the B.S.P.H. degree typically spend two years in the General College of the University of North Carolina at Chapel Hill (or in an equivalent core program of academic study elsewhere) and two subsequent years under the administration of the School of Public Health. Enrollment in the B.S.P.H. degree programs is limited. Students are typically selected in the latter half of their sophomore year and are admitted on a competitive basis. The recommended GPA for admission is: biostatistics - 3.0; environmental health science - 3.0; health policy and administration - 3.0; nutrition - 3.0.

For current UNC-Chapel Hill students, the B.S.P.H. application is available online at: https://admprosapp3.admissions.unc.edu/BSPH/?pid_login=default.asp.

Transfer students must apply through the Office of Undergraduate Admissions (https://admprosapp3.admissions.unc.edu/admissionpros/default.asp).

Requirements Common to All Undergraduate Majors in the School of Public Health
- The last 30 hours of degree credit must be taken in residence in Chapel Hill. The School of Public Health requires that students earn a C (not C-) or better in prerequisite, core public health, and department-required courses. The Department of Nutrition requires at least a B- in BIOL 252, CHEM 102, CHEM 261, and NUTR 240.
- A first-year/sophomore load is approximately 60 semester hours of courses. These must include all Foundations and Approaches requirements and at least five Connections courses, including courses in Global Issues, Experiential Education, and U.S. Diversity. One of the two Physical and Life Science Approaches courses must be BIOL 101 and 101L.
- The junior-senior total of approximately 60 semester hours and include BIOS 600, ENV 600, EPID 600, and a minimum of three electives (seven credit hours) outside the School of Public Health.
- The specific requirements of the four majors which are outlined below.

DEPARTMENT OF BIOSTATISTICS

MICHAEL R. KOSOROK, Chair
Lawrence L. Kupper, Associate Chair

Professors

Research Professors

Adjunct Professors

Associate Professors
Lloyd J. Edwards, Amy H. Herring, Bahjat F. Qaqish, Craig D. Turnbull, Fred A. Wright, Haibo Zhou.

Research Associate Professors

Adjunct Associate Professors
J. Michael Bowling, Kerrie E. Boyle, David B. Dunson, Katherine L. Monti, Timothy M. Morgan, R. Woodrow Setzer, Steven M. Snapinn, Maura E. Stokes, Donald C. Trost.

Assistant Professors
Mayetri Gupta, Anastasia Ivanova, Ethan Lange, Donglin Zeng, Fei Zu, Mark A. Weaver.

Research Assistant Professors
Petra Buzkova, Diane Catellier, Michael Hudgens, Charity Moore, Todd A. Schwartz.

Clinical Assistant Professor
Jane Monaco.

Adjunct Assistant Professors

Research Instructor
Katherine J. Roggenkamp.

Professors Emeriti

Majoring in Biostatistics: Bachelor of Science in Public Health

The undergraduate major in biostatistics prepares students to apply quantitative skills to a variety of health-related issues, including the physical environment, population studies, health service costs and effects, and patterns of disease, disability, and death. Prerequisites for this major include course work in mathematics (through the level of Calculus and the Functions of Several Variables) and Introductory Programming.

First-Year/Sophomore required courses:
MATH 231, 232, 233
BIOL 101, 101L
COMP 110
Junior-Senior required courses:
BIOS 511, 545, 550, 664, 668, 691
MATH 381, 521 or 528, 547
BIOL 201 or 202

Honors in Biostatistics
The Department of Biostatistics has an Honors Program in which undergraduate seniors with high levels of academic achievement can pursue individualized study and undertake a special project. The program is intended for undergraduates who show their potential and apparent talent to do research. It is not designed to award academic achievement.

To be eligible for admission to the Honors Program, students must have, at a minimum, a cumulative grade point average at UNC-Chapel Hill of 3.2 at the end of the semester preceding the semester in which they intend to begin honors work.

Applicants for the Honors Program are expected to have an identified interest in special academic work, which they wish to pursue for honors. Faculty member readiness to guide the students in their honors work governs the final selection of those to enter the program.

Honors students are expected to enroll for six to nine credit hours in acceptable research and honors courses (BIOS 399). As part of this course work, they are expected to carry out a special project and prepare a thesis based on the project. They are also required to give an oral presentation on the honors research.

Students must meet the following criteria, as a minimum, to graduate with honors or highest honors:

- Attainment of a grade point average of 3.3 or better for honors, or 3.6 or better for highest honors, by the end of the first semester of the senior year:
  - All courses taken at UNC-Chapel Hill.
  - The core required public health courses in biostatistics, environmental protection, and epidemiology, along with all courses required by Biostatistics Department.

- An evaluation of honors or highest honors, for the respective levels of honors, on the specialized honors work and the oral presentation.

The program involves a review committee, consisting of three faculty, including the advisor, for the special project and at least one person from another department. The review committee is selected by the student and his/her research advisor after consultation with the department's honors director.

A copy of the honors thesis must be given to the North Carolina Collection (in Wilson Library) and to the Department of Biostatistics’ library.

Special Opportunities in the Department of Biostatistics

Departmental Involvement
Students are encouraged to participate in and assume leadership of the activities of the school’s and the department’s student organizations.

Experiential Education
Students are required to take BIOS 691 (Field Observations in Biostatistics) during the fall semester of the senior year. This course consists of an orientation to, and observation of, six major non-academic biostatistics programs in North Carolina’s Research Triangle Park area.

Laboratory Teaching Internships and Assistantships
Students are encouraged to undertake part-time employment during the academic year and full-time employment during the summer after their junior year with our faculty and their collaborators on research projects and service projects.

Study Abroad
Students are encouraged to participate in the University’s study abroad programs.

Undergraduate Awards
Our Theta Chapter of Delta Omega is the only chapter that can honor up to ten percent of the department’s graduates with an Award of Excellence.

Undergraduate Research
Students are encouraged to consider doing honors research; however, many of them choose to take advantage of the myriad part-time employment opportunities with our faculty on their research and service projects.

Facilities
The Department of Biostatistics has a student library, a student study-room, and computer facilities for its students.

Graduate School and Career Opportunities
The B.S.P.H. in biostatistics program has graduated 183 persons. Forty-four percent of them continued their studies immediately upon graduation. Seventy percent of our graduates eventually pursued at least master’s level education, and 26 percent of them chose doctoral studies.

Seventy-four percent of our graduates have been employed full-time in the Research Triangle Park area. There are a myriad employment opportunities for our graduates in both public and private research and service organizations. The department is not aware of any of its B.S.P.H. graduates who are unemployed and seeking employment.

Contact Information
Go to www.sph.unc.edu/bios or contact the Department of Biostatistics at (919) 966-7262.

BIOS
397 [097] Readings in Biostatistics (1-21). Direct readings or laboratory study. May be taken more than once. Two to six laboratory hours a week.
399 [099] Honors Research in Biostatistics (3). Directed research. Written and oral reports required.
511 Introduction to Statistical Computing and Data Management (4). Introduction to use of computers to process and analyze data, components of digital computers, characteristics of magnetic storage devices, use of JOCL and utility programs, concepts and techniques of research data management, use of statistical program packages and interpretation.
540 [140] Problems in Biostatistics (1-21). Prerequisites to be arranged with the faculty in each case. A course for students of public health who wish to make a study of some special problem in the statistics of the life sciences and public health.
541 [141] Quantitative Methods for Health Care Professionals I (4). Prerequisite, permission of instructor. Course is designed to meet the needs of health care professionals who need
to be able to appraise the design and analysis of medical and health care studies and who intend to pursue academic research careers; covers basics of statistical inference, analysis of variance, multiple regression, categorical data analysis, and an introduction to logistic regression and survival analysis; emphasis is on applied data analysis of major health care studies.

542 [142] Quantitative Methods for Health Care Professionals II (4). Prerequisites, BIOS 541 and permission of instructor. Continuation of BIOS 541; main emphasis is on logistic regression; other topics include exploratory data analysis and survival analysis.

545 [145] Principles of Experimental Analysis (3). Prerequisites, BIOS 600 or equivalent; a basic familiarity with a statistical software package (preferably SAS) that has the capacity to do multiple linear regression analysis; permission of the instructor except for majors in School of Public Health. Continuation of BIOS 600; the analysis of experimental and observational data, including multiple regression, and analysis of variance and covariance.

550 Basic Elements of Probability and Statistical Inference I (GNET 636) (4). Prerequisite, MATH 232 or equivalent. Fundamentals of probability, discrete and continuous distributions; functions of random variables; descriptive statistics; fundamentals of statistical inference, including estimation and hypothesis testing.

600 [110] Principles of Statistical Inference (3). Prerequisite, knowledge of basic descriptive statistics. Major topics include elementary probability theory, probability distributions, estimation, tests of hypotheses, chi-squared procedures, regression, and correlation.

660 [160] Probability and Statistical Inference I (3). Prerequisite, MATH 233 or equivalent. Introduction to probability, discrete and continuous random variables; expectation theory; bivariate and multivariate distribution theory; regression and correlation; linear functions of random variables; theory of sampling; introduction to estimation and hypothesis testing.

661 [161] Probability and Statistical Inference II (3). Prerequisite, BIOS 660. Distribution of functions of random variables; Helmert transformation theory; central limit theorem and other asymptotic theory; estimation theory; maximum likelihood methods; hypothesis testing; power; Neyman-Pearson Theorem, likelihood ratio, score, and Wald tests; noncentral distributions.

662 [162] Intermediate Statistical Methods (4). Prerequisites or Corequisites, BIOS 511, BIOS 550, or equivalents. Principles of study design, descriptive statistics, sampling from finite and infinite populations, with particular attention to inferences about location and scale for one, two, or k sample situations. Both distribution-free and parametric approaches are considered. Gaussian, binomial, and Poisson models, one-way and two-way contingency tables, as well as related measures of association, are treated.

663 [163] Intermediate Linear Models (4). Prerequisite, BIOS 662 or equivalent. Matrix-based treatment of regression, one-way and two-way ANOVA, and ANCOVA, emphasizing the general linear model and hypothesis, as well as diagnostics and model building. The course begins with a review of matrix algebra, and it concludes with some treatment of statistical power for the linear model and with binary response regression methods.

664 Sample Survey Methodology (STOR 358) (4). Prerequisite, BIOS 550 or equivalent or permission of the instructor. Fundamental principles and methods of sampling populations, with primary attention given to simple random sampling, stratified sampling, and cluster sampling. Also, the calculation of sample weights, dealing with sources of nonsampling error, and analysis of data from complex sample designs are covered. Practical experience in sampling is provided by student participation in the design, execution, and analysis of a sampling project.

665 [165] Analysis of Categorical Data (3). Prerequisites, BIOS 545, 550, and 662, or permission of the instructor. Introduction to the analysis of categorized data: rates, ratios, and proportions; relative risk and odds ratio; Cochran-Mantel-Haenszel procedure; survivorship and life table methods; linear models for categorical data. Applications in demography, epidemiology, and medicine.

666 [166] Applied Multivariate Analysis (3). Prerequisite, BIOS 663 or equivalent. Application of multivariate techniques, with emphasis on the use of computer programs. Multivariate analysis of variance, multivariate multiple regression, weighted least squares, principal component analysis, canonical correlation, and related techniques.


670 [170] Demographic Techniques I (3). Source and interpretation of demographic data; rates and ratios, standardization, complete and abridged life tables; estimation and projection of fertility, mortality, migration, and population composition.

680 [180] Introductory Survivorship Analysis (3). Prerequisite, BIOS 661 or permission of the instructor. Introduction to concepts and techniques used in the analysis of time to event data, including censoring, hazard rates, estimation of survival curves, regression techniques, applications to clinical trials.

691 [191] Field Observations in Biostatistics (1). Field visits to, and evaluation of, major nonacademic biostatistical programs in the Research Triangle area. (Field fee $25.)

DEPARTMENT OF ENVIRONMENTAL SCIENCE AND ENGINEERING

MICHAEL AITKEN, Chair

DONALD L. FOX, Associate Chair

Professors


Joint Professors

Associate Professors

Assistant Professors
Ivan Rusyn, Jacqueline A. MacDonald, Marc L. Serre, William Vizette, Howard S. Weinberg, J. Jason West.

Research Associate Professor
Lori A. Todd.

Research Assistant Professor

Adjunct Professors

Adjunct Associate Professors

Adjunct Assistant Professors

Adjunct Lecturer
Raymond Hackney.

Kenan Professor Emeritus
Daniel Okun.

Professors Emeriti

Majoring in Environmental Health Sciences: Bachelor of Science in Public Health

The undergraduate major in environmental health science is designed to develop a comprehensive understanding of the environmental factors that impact human health; the physical, chemical, and biological processes that underlie the impact of human activity on the environment and human health; methods used to assess the impact of human activity on the environment and human health; and science-based solutions for environmental problems. Students may choose to emphasize either human health protection or environmental protection. Admission into the program requires satisfactory completion of course work in biology, chemistry, and mathematics. Recent graduates have entered graduate programs in environmental science, microbiology, marine science, applied mathematics, and environmental engineering. Students who pursued employment after completing the B.S.P.H. degree are working in environmental advocacy organizations, environmental consulting firms, industry, and investment banking firms.

First-Year/Sophomore required courses:
BIOL 101,101L, 201, 202
CHEM 101, 101L, 102, 102L, 261
PHYS 104 or 116*, 105 or 117*
MATH 231, 232

*Preferred

Junior-Senior required courses:
All students, regardless of track, must complete each of the following courses during the junior and senior years. These provide an overview of the principles of environmental science and their application to environmental problems.
ENVR 230, 300**, 430

**To be taken only in the senior year.

Additional required courses for the human health protection emphasis:
BIOL 205
CHEM 262, 262L, 430

Environmental health electives:
All students must complete four advanced (400 level or above) courses within the department or in environmental health-related departments on campus.

Honors in Environmental Health Science
Students who have a GPA of 3.2 or higher are eligible to participate in honors research and to write an honors thesis.

Special Opportunities in Environmental Health Science

Study Abroad
There are several opportunities for pursuing environmental study abroad, both through the department and through the Study Abroad Office at the University.

Undergraduate Research
Many undergraduate students participate in the research programs of the department. Students are encouraged to consult individual faculty members for opportunities to participate in such research. In addition, the department has information concerning fellowships and internships, some of which are combined with research opportunities in laboratories or field settings.

Facilities
The Department of Environmental Sciences and Engineering houses research laboratories located in Rosenau Hall, McGavran-Greenberg Building, Michael Hooker Research Center, the Bailey Building, and off-campus research facilities. These research labs are involved in important research in groundwater, wastewater, and drinking water quality, atmospheric chemistry, air pollution, industrial engineering, mutagenic effects of environmental chemicals, and occupational health and safety.

The department also offers labs for modeling and computational analysis of environmental systems, such as atmospheric circulation and air quality models; ground and surface water flow and transport models; fluid flow and contaminant transport models for indoor air environments; exposure analysis and health effects; risk assessment and environmental epidemiology.

More detailed information about the individual labs and centers can be found on the department's Web site: www.sph.unc.edu/ envr/research_188_552.html.

Graduate School and Career Opportunities
While undergraduate education prepares students for citizenship in ways that go beyond professional concerns, the program in environmental health science also provides skills needed for employment and graduate study. Students ending their studies at the undergraduate level gain skills necessary to work in positions such
as risk analysts in consulting firms and regulatory agencies; as research assistants in local, state, and national environmental and environmental health departments; as scientific advisors to environmental organizations. The degree also prepares student for graduate study in the environmental sciences, environmental health sciences, environmental studies, toxicology, and professional disciplines such as medicine, environmental law, and public health.

Students have opportunities to explore possibilities for employment through the rich network of connections among the department, the University, and the numerous environmental organizations in the Research Triangle Park area, which is home to the highest concentration of environmental health science groups in the nation.

Contact Information
Go to www.sph.unc.edu/envnr or contact the Department of Environmental Sciences and Engineering at (919) 966-3844 or the Carolina Environmental Program at (919) 962-9805.

ENVR

190 [097] Selected Topics in Undergraduate Studies (1-3).
Permission of the instructor required. Current topics of interest in environmental science and their application to understanding environmental issues are directed towards undergraduates. Topics and instructors will change. One to three lecture hours per week.

230 [080] Environmental Health Issues (3).
This course examines key events that have shaped our understanding of the impacts of environmental agents on human health, and uses them to introduce basic concepts in environmental health.

295 [099] Undergraduate Research (3).
Directed readings or laboratory study. Written reports is are required. May be taken more than once for credit. Six to nine hours per week.

300 [095] Analysis and Solution of Environmental Problems (ENST 698 capstone). (3).
Interdisciplinary, team-based analyses of environmental phenomena are performed and applied to problems of the selection of effective environmental strategies. Students may select from a wide range of examples and venues. Three lecture hours a week.

312 [078] Risk-Based International Environmental Decisions (ENST 312) (3).
A Web-based course on the methods and roles of risk assessment in the international setting, with a primary focus on U.S.-European Union applications in environmental policy decisions.

400 [103] Seminar Series (1).
Presents the results of ongoing research projects in the Department of Environmental Sciences and Engineering. Topics and presenters are selected from among the departmental graduate students and faculty.

401 [104] Unifying Concepts (3).
Unifying concepts of environmental systems, including conservation principles, modeling, economics, and policy with applications from throughout natural, engineered, human systems. Interfaces among scientific, engineering, and policy aspects of the field.

402 [105] Problem-based Learning (2).
Prerequisite, permission of instructor. A problem common to the field of environmental science will be studied in detail through the use of small groups of students from the various disciplinary areas in the department.

403 [110] Environmental Chemistry Processes (ENST 403) (3).
Prerequisite, a background in chemistry and mathematics, including ordinary differential equations. Chemical processes occurring in natural and engineered systems: chemical cycles; transport and transformation processes of chemicals in air, water, and multimedia environments; chemical dynamics; thermodynamics; structure/activity relationships.

411 [111] Laboratory Techniques and Field Measurements (3).
Learn laboratory, field, and analytical skills. Provides a solid introduction to experimental research in environmental sciences and engineering. Students are provided with applications in limnology, aquatic chemistry, and industrial hygiene.

412 [112] Ecological Microbiology (3).
Prerequisite, one course in general microbiology. A description of microbial populations and communities, the environmental processes they influence, and how they can be controlled to the benefit of humankind.

413 [113] Limnology (3).
Prerequisites, introductory biology, chemistry, and physics. Basic aspects of freshwater ecosystem function. Emphasis on trophic level interactions and integration of physical, chemical, and biological principles for a holistic view of lake ecosystem dynamics. Three lecture hours per week.

Prerequisites, one year of biology, one year of chemistry, one semester of ecology, and permission of instructor. An introduction to the functioning of freshwater and estuarine marsh and swamp ecosystems, with emphasis on systems of the southeastern United States.

Prerequisites, one year biology plus organic and/or physical chemistry, or one of MASC 401, GEOL 501, ENVR 419, or permission of the instructor is required. (Note: Advanced graduate students should consider MASC 550.) Integrated application of biological and chemical concepts to understand the processes controlling the cycling of carbon, nutrients, and bioactive trace elements in seawater and marine sediments.

416 [116] Introduction to Aerosol Science (4).
Prerequisite, admission to the Department of Environmental Sciences and Engineering or permission of the instructor. Physical and chemical principles underlying behavior of particles suspended in air. Topics include rectilinear and curvilinear motion of the particles in a force field, diffusion, evaporation, and condensation, electrical and optical properties and particle coagulation, as well as the behavior of the cloud in toto. Three lecture hours and two lab hours a week.

417 [117] Oceanography (BIOL 350, GEOL 403, MASC 401) (3).
Prerequisites, major in a natural science or at least two college-level courses in natural sciences. The origin of ocean basins, chemistry and dynamics of seawater, biological communities and processes, the sedimentary record, and the history of oceanography. Term paper. Intended for students with college science background; other students should see GEOL 103. Three lecture hours per week.

418 [118] Chemical Oceanography (GEOL 505, MASC 505) (4).
Prerequisite, one semester of physical chemistry or ENVR 119 or CHEM 180, or permission of instructor. Variation and abundance of seawater constituents, the chemical, physical, and biological processes contributing to their distribution, as well as problems of dispersion of conservative and nonconservative substances. Three lecture and two recitation hours a week.

419 [119] Chemical Equilibria in Natural Waters (3).
Principles and applications of chemical equilibria to natural waters. Acid-base, solubility, complex formation, and redox reactions are
discussed. This course uses a problem-solving approach to illustrate chemical speciation and environmental implications. Three lecture hours per week.

421 [133] Environmental Health Microbiology (3). Prerequisite, introductory course in microbiology or permission of the instructor. Presentation of the microbes of public health importance in water, food, and air, including their detection, occurrence, transport, and survival in the environment; epidemiology and risks from environmental exposure. Two lecture and two laboratory hours per week.

422 [134] Air and Industrial Hygiene (3). Problem definition, sources of information, health effects, legislative framework, and control methods for chemical, physical, and biological hazards. Recognition, evaluation, and remediation of hazards associated with community and industrial environments. Three lecture hours per week.

423 [135] Industrial Toxicology (3). Toxicological assessment of and a case presentation of related exposure is given. A conceptual approach is utilized to design appropriate programs to prevent worker illness due to industrial toxicant exposure. Two lecture hours per week.

430 [130] Health Effects of Environmental Agents (3). Prerequisites, basic biology, chemistry through organic, math through calculus; permission of the instructor if prerequisites not met. Interactions of environmental agents (chemicals, infectious organisms, radiation) with biological systems including humans, with particular attention to routes of entry, distribution, metabolism, elimination, and mechanisms of adverse effects. Three lecture hours per week.

431 [131] Techniques in Environmental Health Sciences (2). Prerequisites, basic biology, chemistry through organic, math through calculus; permission of the instructor if prerequisites not met. A practical introduction to the measurement of biological endpoints, emphasizing adverse effects of environmental agents, using laboratory and field techniques. Two laboratory hours per week.

432 [137] Occupational Safety and Ergonomics (PHNU 786, PUBH 786) (3). Fundamentals of occupational safety and ergonomics with emphasis on legislation and organization of industrial safety and ergonomic programs, including hazard recognition, analysis, control, and motivational factors pertaining to industrial accident and cumulative trauma disorder prevention.

433 [138] Health Hazards of Industrial Operation (3). Prerequisite, ENV422. An introduction to the health hazards associated with the various unit operations of industry. Field trips to local industries planned.

434 [139] Theory and Practice of Exposure Evaluation (3). Prerequisites, ENV416. Methodology and philosophy of evaluating exposures to air contaminants in the workplace. Course is divided into lectures, case-study analyses, and hands-on term project. Three lecture hours per week.

442 [132] Biochemical Toxicology (BIOC 442, TOXC 442) (3). Prerequisites, CHEM 430 plus one course in biochemistry; permission of the instructor if prerequisites not met. Biochemical actions of toxicants, and assessment of cellular damage by biochemical measurements. Three lecture hours per week.

449 [141] Ecology of Wetlands (4). Prerequisites, one year of biology, one year of chemistry, one semester of ecology, and permission of instructor. An introduction to the functioning of freshwater and estuarine marsh and swamp ecosystems, with emphasis on systems of the southeastern United States.

450 [150] Principles and Applications of Environmental Engineering (3). Principles that govern the behavior of contaminants in air and water. Application of these principles to engineered processes that control air and water quality. Three lecture hours per week.

451 [151] Process Dynamics in Environmental Systems (3). Prerequisites, MATH 524 or equivalent, permission of the instructor. Application of fluid transport, mass transfer, and chemical reactor principles to describe important processes in water/wastewater treatment, air pollution control, and natural systems. Three lecture hours per week.

452 [152] Fluid Dynamics (GEOL 560, MASC 560, PHYS 660) (3). Prerequisites, PHYS 301 or permission. The physical properties of fluids, kinematics, governing equations, viscous incompressible flow, vorticity dynamics, boundary layers, irrotational incompressible flow. Three lecture hours per week.

453 [153] Groundwater Hydrology (3). Prerequisites, math through differential equations and some familiarity with fluid mechanics. Conservation principles for mass, momentum, and energy developed and applied to groundwater systems. Scope includes the movement of water, gas, and organic liquid phases, the transport and reaction of contaminants. Three lecture hours per week.

460 [154] Marine Systems Modeling (GEOL 480, MASC 480) (1-3). Prerequisites, MATH 232 or permission of instructor. Mathematical modeling of the dynamic system, linear and nonlinear. The fundamental budget equation. Case studies in modeling convective transport, biogeochemical process, population dynamics. Analytical and numerical techniques, chaos theory, fractal geometry. Three lecture hours per week.

461 [160] Environmental Systems Modeling (ENST 415, GEOL 415, MASC 415) (3). Prerequisites, MATH 383, PHYS 105, or PHYS 117 (may be taken concurrently) or permission of instructor. Methods for developing explanatory and predictive models of environmental processes are explored. Includes discussion of the relevant scientific modes of analysis, mathematical methods, computational issues, and visualization techniques. Two lecture and one computer laboratory hour per week.


468 [167] Advanced Functions of Temporal GIS (3). Advanced functions of temporal geographical information systems (TGIS). These fields describe natural, epidemiological, economic,
and social phenomena distributed across space and time. Three lecture hours per week.

470 [175] Environmental Risk Assessment (ENST 470) (3). Prerequisites, ENV 403, ENVR 430. Methods of environmental risk assessment, including hazard identification, exposure assessment, exposure-response assessment, and risk characterization, are developed and applied. Three lecture hours per week.

471 [176] Quantitative Risk Assessment in Environmental Health Microbiology (3). Prerequisites, microbiology, epidemiology, and infectious diseases recommended. Survey of alternative approaches, frameworks, and decision-making tools for quantitative risk assessment of microbial pathogens that infect humans and cause disease by the exposure routes of water, food, air, and other vehicles.

480 [460] Marine Systems Modeling (1-3). Prerequisite, MATH 232 or permission of instructor. Mathematical modeling of the dynamic system, linear and nonlinear. The fundamental budget equation. Case studies in modeling convective transport, biogeochemical process, population dynamics. Analytical and numerical techniques, chaos theory, fractal geometry. Three lecture hours per week.


520 [120] Biological Oceanography (BIOL 657, MASC 504) (4). Prerequisite, BIOL 201 or BIOL 475 or permission of instructor. Physical, chemical, and biological factors characterizing estuarine and marine environments emphasizing factors controlling animal and plant populations, including methods of analysis, sampling, and identification.

522 [181] Environmental Change and Human Health: Introduction to Eco-Human Interconnectivities (ENST 522) (3). Prerequisite, ENST 202 or ENST 201. The course will provide students with a multidisciplinary perspective of environmental changes to encompass both human health and ecological health (ecohalth).

525 [125] Organic Geochemistry (GEOL 552, MASC 552) (3). Prerequisites, MASC 505 or CHEM 261 or permission of instructor. Sources, transformations, and fate of natural organic matter in marine environments. Emphasis on interplay of chemical, biological, and physical processes that affect organic matter composition, distribution, and turnover.

585 [185] American Environmental Policy (ENST 585, PLAN 585, PLCY 585) (3). Intensive introduction to environmental management and policy, including environmental and health risks, policy institutions, processes, and instruments, policy analysis, and major elements of American environmental policy. Lectures and case studies. Three lecture hours per week.


662 [164] Scientific Computation II (COMP 760, MATH 662) (3). Topics: direct methods for linear systems, least squares problems, iterative methods for linear systems, direct and iterative methods for eigenvalue problems, the singular value decomposition, methods for (stiff) systems of ODEs. Three lecture hours per week.

668 [165] Methods of Applied Mathematics I (MATH 668) (3). Topics: contour integration in the complex plane, asymptotic expansions and steepest descent/stationary phase methods, special functions often arising in physical applications, elliptic functions and theta functions, Sturm-Liouville spectral theory. Three lecture hours per week.

669 [166] Methods of Applied Mathematics II (MATH 669) (3). Topics: perturbation methods for ODE and PDE; WKBJ method, averaging, modulation theory for linear dispersive PDEs and nonlinear wave equations; long-time asymptotics of Fourier integral representations of PDEs; Green's functions; physical applications. Three lecture hours per week.

685 [286] Water and Sanitation Planning and Policy in Developing Countries (PLAN 685) (3). Prerequisite, permission of the instructor. Seminar on policy and planning approaches for providing improved community water and sanitation services in developing countries. Topics covered include the choice of appropriate technology and level of service; pricing, metering, and connection charges; cost recovery and targeting subsidies to the poor; water vending; community participation in the management and operation of water systems; and rent-seeking behavior in the provision of water supplies. Three seminar hours per week.

686 [186] Policy Instruments for Environmental Management (ENST 686, PLAN 686, PLCY 686) (3). Prerequisites, ECON 410 or PLAN 710 or equivalent. Design of public policy instruments as incentives for sustainable management of environmental resources and ecosystems, and comparison of the effects and effectiveness of alternative policies.

691H [099H] Honors Research (3). Permission of the instructor required. Directed readings or laboratory study of a selected topic. A written report is required in the form of an honors thesis (ENVR 692H). Six to nine hours per week.

692H [098H] Honors Thesis (3). Students complete honors research projects.

DEPARTMENT OF HEALTH POLICY AND ADMINISTRATION

PEGGY LEATT, Chair
Laurel A. Files, Associate Chair

Professors

Research Professors

Clinical Professor
Deborah Bender.
Adjunct Professors

Associate Professors

Research Associate Professor
Sandra Greene.

Clinical Associate Professors
Edward F. Brooks, Dean Harris, John Paul, Pam Silberman.

Adjunct Associate Professors
Mary A. Beck, Patricia MacTaggart, Michael Markowitz, Patricia Pittman, Janet Porter, Arjun Rajaratnam, Betsy Sleath, Steven J. Sloane, Wendee Wechsberg.

Assistant Professors
Jessica Lee, Kristen Hasmiller Lich, Felicia Mebane, Kristin Reiter, Rebecca Wells.

Research Assistant Professor
Michelle Mayer, Sue Tolleson Rinehart, Debbie Travers.

Clinical Assistant Professors
Oscar Aylor, Suzanne Havala Hobbs, James V. Porto Jr.

Adjunct Assistant Professors

Clinical Instructor
Eugene Pinder, Christopher Shea, Scott Stewart, John Bennet Waters.

Adjunct Instructors

Lecturer
William Gentry.

Adjunct Lecturers
Kathryn B. Ahlport, Rita Konetzka, Jay Levy.

Professors Emeriti
Sagar Jain, Arnold Kaluzny, Kerry Kibpatrick.

Clinical Professors Emeriti
Jacob Koomen Jr., Robert A. Loddegaard.

Associate Professors Emeriti
Patricia Z. Fischer, William S. Flash, William T. Herzog.

Majoring in Health Policy and Administration: Bachelor of Science in Public Health

The curriculum combines excellent preparation for a professional career with a firm grounding in the liberal arts. Areas of study range from community health to strategic planning in tertiary health care facilities.

The sequenced program of courses is designed to provide students with a solid understanding of the organization of health care services in the United States and skills for effective management of health system resources, including human, financial, and health information. The internship experience, placed between the junior and senior years, provides students an opportunity to apply new skills, anticipate learning needs, and clarify personal career goals.

The objective of the department's undergraduate degree program is to develop responsible and successful graduates who have the necessary conceptual frameworks, skills, and ability to make sound judgments necessary for assuming leadership roles in the current complex health care environment.

Prerequisites for admission to the B.S.P.H. program in health policy and administration:

BIOL 101 and BIOL 101L
BUS 100
ECON 101

Two of the following six mathematical sciences courses: MATH 152, 130, 231, 232, 233, STOR 155 (STOR 155 is recommended)

Junior-Senior required courses:

HPA 350, 351, 220, 230, 340, 310, 330, 341, 301/302, 320 and six hours of elective course work within the department. There is a $450.00 field training fee for HPAA 302.

Honors in Health Policy and Administration

The department offers an Honors Program. Students who have at least a 3.20 GPA at the completion of their junior year are invited to participate in the two semester Honors Program. HPAA 65H1 is offered as a seminar in the fall semester. This seminar does count as one of the two required HPAA electives. HPAA 692H is offered as an independent study in the spring semester. Students defend their theses at the HPAA Annual Poster Day in late spring.

Special Opportunities in Health Policy and Administration

Departmental Involvement

Opportunities exist for involvement in the Healthcare Executives Student Association (an affiliate of the American College for Healthcare Executives Higher Education Network), the Healthcare Information and Management Systems Society (HIMSS) Special Interest Group, and the department's Student Council. Students also volunteer to help with the management of SHAC, a student-run health care clinic.

Experiential Education

Each student in the department is required to complete a twelve-week, field based practicum or internship. Usually, this is completed during the summer between the junior and senior years.

Study Abroad

Students in the department may complete their twelve-week internship in a country other than the United States, provided that the internship meets all other criteria.

Undergraduate Awards

The department reserves several awards for undergraduate students. These awards are presented at the HPAA Annual Awards Day in late spring.
Undergraduate Research

See the Honors Program description.

Graduate School and Career Opportunities

See program description above.

Contact Information

For additional information go to www.sph.unc.edu/hpaa or contact the Department of Health Policy and Administration at (919) 966-7391.

HPAA


230 [073] Management of Human Resources (3). Prerequisite, permission of instructor for non-health policy and administration majors. General introduction to the field of human resource management in health organizations in the United States. Detailed treatment of selected topics with a view to help develop operational skills.

249 [269] Clinical Informatics for Outcomes Management (3). Explores the practical role of clinical informatics skills and tools in health care organizational performance improvement and how this role is currently evolving in hospitals, group practices, and provider organizations.

301 [097] Field Training in Health Policy and Administration I (3). Required of all B.S.P.H. students in HPAA. Prerequisite, health policy and administration major. The first six weeks of a supervised 12-week administrative internship in a health care organization.

302 [098] Field Training in Health Policy and Administration (3). Prerequisite, health policy and administration major. Orientation to health services organizations, under faculty supervision. Relevant to School of Public Health course work in all majors; can contribute to development of acceptable plans for summer internships. (Field training fee: $400.00.)

310 [082] Introduction to Law and Ethics in Health Administration (3). Prerequisite, HPAA 350. An introduction to health law and ethics for health administration undergraduate seniors.

320 [145] Health Care Consulting (3). This course will provide students with a working knowledge of the various forms of health care consulting, including internal consulting. Students will enhance their analytical, presentation, teamwork, and project management skills.

330 [083] Introduction to Health Organization Structure, Functions, and Design (3). Prerequisite, senior standing or permission of instructor. Basic concepts of organization structure, functions, and design, and relevant administrative behavior, as applied to health and human services organizations.

340 [075] Foundations of Health Care Financial Management (3). Prerequisites, BUSI 100, permission of instructor for non-B.S.P.H. students. Basic methods and techniques in financial management of health care programs, including financial statement analysis, cost determination and allocation, pricing of services, and budgeting.

341 [085] Computers in Health Administration (3). Prerequisite, permission of instructor for non-health policy and administration majors. The purpose of this course is to provide the student with a general introduction to the theory and major applications of computers, especially microcomputers.

350 [070] Introduction to Health Services Systems (3). Prerequisite, permission of health policy B.S.P.H. program director, except for majors in health policy or health behavior and health education. An introduction to the current organization, financing, emerging trends, practices, and issues in the delivery of health services.

351 [071] Policy Issues in Health Services Delivery (2). Prerequisite, permission of health policy and administration B.S.P.H. program director, except for majors in health policy or health behavior and health education. This seminar addresses current health services delivery concerns from policy perspectives. Guest speakers, debates, and development of issue papers are used to explore implications for access and quality of health care.

380 [057] Database Design for Health Care Applications (3). Hands on introduction to the design and implementation of relational databases to manage and analyze health care data (using Microsoft Access). Includes design of fully automated databases as well as the use of Access as an analysis tool in conjunction with Microsoft Excel.

396 [091] Readings in Health Policy and Administration (1-3). For undergraduates enrolled in the department's bachelor's degree program. Prerequisite, permission of instructor. Directed readings or research; written reports are required.

404 [204] HPAA 204 Management Principles and Practices (3). Provides an overview of knowledge and skills required for effective health services management. Aimed primarily at individuals who plan on assuming management roles in health services and related fields.

405 [221] Organization and Administration of Multihospital Systems (3). Legal, financial, and organizational issues of multihospital systems development and management.

435 [141] Marketing for Not-for-Profit Organizations (3). Prerequisite, permission of instructor. Application of basic principles of marketing and marketing decision models to problems in health care and other not-for-profit organizations.

440 [155] Introduction to Management Information Systems in Health Care (3). Conceptual and practical aspects in the analysis, development, and utilization of computer-based information and control systems with emphasis on application to the health care environment.

455 [124] Long-Term Care and Aging Policy Issues (3). Long-term care and aging policy in the United States from the early 1960s through the late 1990s will be reviewed along with Medicare, Medicaid, and public/private long-term policies.

456 [163] Intermediate Linear Models (3). Prerequisite, BIOS 662 or equivalent. Matrix-based treatment of regression, one-way and two-way ANOVA, and ANCOVA, emphasizing the general linear model and hypothesis, as well as diagnostics and model building. The course begins with a review of matrix algebra, and it concludes with some treatment of statistical power for the linear model and with binary response regression methods.
465 [125] Managed Care, Market Reform, and the Impact on Vulnerable Populations (3). Students will gain an understanding of how the changes in the health care market affect care for underserved populations and develop strategies to ensure the needs of these populations are met.

466 [279] Competition, Regulation, and Insurance (3). Examines alternative approaches to containing health care costs adapted by public and private payers.

470 [144] Statistical Methods for Health Policy and Administration (3). Introduction of linear model approach to analysis of data in health care settings. Topics include probability distributions, estimation tests of hypotheses, methods in multiple regression, and analysis of variance and covariance.

471 [176] Introduction to Health Services Research (3). Prerequisite, MPH student. Provides systematic introduction to selected methods for health services research, literature, and research writing.

472 [245] Program Evaluation (3). Concepts and methods of the program evaluation paradigm as applied in health administration.

480 [157] Database Design for Health Care Applications II (3). Hands on introduction to the design and implementation of relational databases for managing and analyzing health care data (using Microsoft Access).

496 [140] Readings in Health Policy and Administration (1-3). Directed readings or research. Written reports are required.

510 [185] Ethical Issues in Health Policy and Administration (3). Introduction to ethical issues in HPAA including rationing, managed care, clinical research, organizational ethics and compliance programs, administrative ethics, and bioethical issues such as assisted suicide.

520 [122] Long-Term Care Administration I (3). Prerequisite, HPAA major. Introduction to administration of long-term care facilities. Evolution of long-term care and survey of the current field. Examination of state and national requirements.

521 [123] Long-Term Care Administration II (3). Prerequisite, HPAA 520 or permission of instructor. Nursing home care, organization monitoring, costs, and financing. Exploration of trends and issues such as cost controls, productivity, quality assurance, medical staffing, and organization.


531 [126] Physician Practice Management (3). Prerequisites, senior status and permission of instructor. Course targets students interested in a health care career. Topics include: structure of group practices, governance/ownership, risk management, malpractice, physician compensation, operational and financial management.

532 [146] Health Care Consulting (3). This course will provide students with a working knowledge of the various forms of health care consulting, including internal consulting. Students will enhance their analytical, presentation, teamwork and project management skills. Open to graduate students and seniors.

550 [195] Medical Journalism (HBHE 660, JOMC 460) (3). Prepares students to work as medical journalists for a variety of media, including print, broadcast, and the Internet. The course emphasizes writing skills and interpreting medical information for consumers.

551 [196] Medical Reporting for the Electronic Media (HBHE 661, JOMC 461) (3). Conceiving, scripting, reporting, producing, and editing medical stories for electronic media, especially television. Students work in teams to produce projects for professional media outlets.

552 [197] Science Documentary Television (HBHE 662, JOMC 462) (3). Students learn skills needed to produce a science documentary for broadcast on television, including research and script writing.

560 [261] Media and Health Policy (3). Introduces students to news media organizations and their role in health policy development. Students will learn how to evaluate media content and strategies and to effectively communicate via mass media.

561 [262] Advanced Policy Analysis for the Public's Health (PUBH 305) (3). The purpose of the course is to develop an understanding of the values and beliefs that drive formal public policies in health. The readings will cover philosophies of justice, the role of government and individuals, and ways to reconcile the plurality of values that exists in the American policy as citizens seek to provide health care or manage the public's health.

564 [220] Health Care in the United States: Administrative and Policy Issues (3). Prerequisite, HPAA major. An overview of key health services issues including quality, access, financing, insurance, ethics, and delivery systems plus an introduction to health care policy and politics.

570 Theory and Practice of Health Policy and Administration (3). Policy and management issues and ideals, including their historical derivations and international implications, in relation to current state and local practice.

600 [119] Introduction to Health Policy and Administration (2). Prerequisites, senior status and permission of instructor; does not qualify as a core course or elective for HPAA undergraduate majors. Provides an overview of the U.S. health system, emphasizing role of policy development and administrative decision making through case examples.

601 [106] Issues in Health Care (1). Lectures on current topics in health care.

602 [109] Concurrent Practice (1-3). Prerequisite, permission of HPAA program director. Supervised activities in an approved health organization, to include one or more specific projects, approved by HPAA faculty member and directed by an approved preceptor/mentor in the organization.

604 Theory and Practice of Health Policy and Administration (3). Policy and management issues and ideals.

634 Public Health Issues in Community Preparedness and Disaster Management (PWAD 634) (3). Examines conventional public health constructs of community preparedness and disaster management. Includes a review of traditional and emerging literature. Emphasizes conceptual development and application of adaptive leadership strategies.

650 [128] Pharmaceutical Research, Development, and Marketing (DPOP 800) (3). Acquaints future regulators, policy analysts, and corporate managers with the internal and external
environments influencing decision making and management in the discovery, development, and marketing of pharmaceuticals.

652 [268] Economic Evaluation of Health Care Technology (DPOP 802) (3). Focus is on determination of costs and benefits associated with alternative resource allocation schemes. Crucial economic concepts (e.g., utility valuation of health states and marginal analysis) are presented.

660 [110] International and Comparative Health Systems (3). Methods of comparing health systems, examinations of related national health systems and analysis of related high prevalence health issues.

661 [210] Management of Foreign Aid in Health and Population (3). Examines selected policy and management issues in foreign assistance from the point of view of both the donors and the recipients.


663 [212] International Cooperation in Health and Population (2). Roles, problems, opportunities for different kinds of international organizations in health and population fields.

664 Globalization and Health (MHCH 664) (3). Globalization — its economic, environmental, political, technological, institutional, and socio-cultural dimensions — historically and currently contributes to beneficial and adverse effects on population, community, and family and individual health.

670 [244] Systems Simulation for Health Services (3). Course will prepare students to simulate health services using the MedModel simulation software. Basic concepts of discrete event simulation.

691H [099] Honors Research (1-3). Prerequisite, overall GPA of 3.2 by end of junior year in all UNC-Chapel Hill courses. Readings and seminars for undergraduates who show potential and talent to do research. Students will design an independent research project, write a proposal and complete an IRB application as partial completion of an honors thesis.

692H [100] Independent Honors Research (1-3). Prerequisites, HPAA 691H and permission of instructor. Students collect data, analyze and report findings, and make recommendations to complete an honor thesis and present finds in presentation/poster format.

DEPARTMENT OF NUTRITION
JUNE STEVENS, Chair

Professors

Associate Professors
Pamela S. Haines, Anna Maria Siega-Riz, Boyd R. Switzer.

Assistant Professors
Terry Combs, Penny Gordon-Larsen, Ka He, Jessie Satia, Deborah Tate.

Research Professors
Martin Kohlmeier.

Clinical Professor
William D. Heizer.

Research Associate Professor
Miroslav Styblo.

Research Assistant Professors

Adjunct Professors
Daniel E. Carroll, Katherine Flegal, Ellen Piwoz, Martin Root, Richard Theuer.

Adjunct Associate Professors
Alvin Berger.

Adjunct Assistant Professors
Jarol Boan, Majorie Busby, Rebecca Freeman, Barbara Laraia, Miriam Peterson.

Adjunct Research Professor
Rudolf Salganik.

Adjunct Instructor
Angelo Mojica.

Professors Emeriti
Joseph Chike Edozien, Mildred Kaufman.

Associate Professor Emerita
Rebecca Broach Bryan.

Clinical Associate Professor Emerita
MaryAnn C. Farthing.

Majoring in Nutrition: Bachelor of Science in Public Health

The bachelor of science in public health program in nutrition introduces the undergraduate student to the science of nutrition in health and disease and to social and behavioral aspects of eating in the context of public and individual health. The Department of Nutrition is one of the top-ranked nutrition departments in the country. The curriculum offers a wide range of courses on the nutritional and epidemiological aspects of human diseases. Depending on the core completed, a B.S.P.H. in nutrition prepares students for many careers. Students who graduate with a B.S.P.H. degree in nutrition through Core 1 are prepared for acceptance into accredited dietetic internships, entry-level jobs in community health agencies in North Carolina and some other states or graduate degree programs. Core 1 is in the process of being converted from an approved didactic program to an accredited didactic program. The site visit and program review is being conducted by the Commission on Accreditation for Dietetics Education of the American Dietetic Association, 120 South Riverside Plaza, Suite 2000, Chicago, Ill. 60606-6995, phone: 1-800-877-1600 ext. 5400. Students who graduate with a B.S.P.H. degree in nutrition through Core 2 have the necessary prerequisites for applying to medical school, dental school, pharmacy school, veterinary school and other graduate programs in nutrition. This core also allows students to participate in nutrition research projects or explore other related areas of interest.

Prerequisite Courses Required for Admission
BIOL 101, 10IL
BIOL 252
CHEM 101, 10IL
CHEM 101, 102L
CHEM 261
MATH 130
MATH 231
NUTR 240
Courses in mathematics not completed during the first two years may be taken during junior year.

Junior-Senior:
NUTR 400, 600, 615, 620, 680
Two alternative cores are currently available in the B.S.P.H. Program:
• Core 1 (generalist) provides all of the courses required for admission into a dietetic internship or graduate program in nutrition
• Core 2 (pre-professional) provides courses in preparation for admission into medical school, dental school, veterinary school, pharmacy school, or other doctoral programs.

Core 1 Additional Requirements:
HPAA 330
NUTR 630, 640, 650, 660, 661L, 670
PSYC 101
MCRO 251 or 255
BIOL 202

Core 2 Additional Requirements:
CHEM 241, 241L, 262, 252L
NUTR 295 or 692H (12-hour course required)
PHYS 104 or 116
PHYS 105 or 117
BIOL 202

Honors in Nutrition
The Department of Nutrition provides an opportunity for honors study for qualified students. To be eligible for admission to the Honors Program, students must have, at a minimum, a cumulative grade point average of 3.2 at the end of the semester preceding the semester in which the student intends to begin honors work. Students register for nine to 12 credit hours in acceptable research, readings, and/or NUTR 692H honors course in the Department of Nutrition.

Special Opportunities in Nutrition
Departmental Involvement
The Student Coalition is an organization of students enrolled in the four degree programs of the Department of Nutrition. The coalition meets several times each semester to address student concerns and to plan service and social activities. Open to the entire department, the coalition strives to broaden the scope of understanding of the various fields and environments where nutrition is making advances. “A is for Apple” is a student-led, volunteer organization to teach basic nutrition principles to local elementary school students. Career development workshops are available each year to provide guidance for students applying to graduate and medical schools.

Experiential Education
Several courses include experiential components (e.g., NUTR 611, 630, 640, and 650). However, these courses do not fulfill the general college experiential education requirement.

Undergraduate Awards
Nutrition honors research students may apply for the Honors Undergraduate Research Awards. The application is available on the Honors Program Web site: www.honors.unc.edu. Students may also be considered for any of the following awards: Chancellor’s Awards for Excellence in Student Activities and Leadership; The Order of the Golden Fleece; The Order of the Graft-Valleys; The Order of the Old Well; Frank Porter Graham Honor Society; Phi Beta Kappa; and the Joseph Edozien Outstanding Undergraduate Award in Nutrition.

Undergraduate Research
To enhance students’ general education and to help them decide whether a research career is something they might pursue in the future, all B.S.P.H. nutrition students are encouraged to get involved in nutrition research, either as part of the honors thesis or as independent research.

Contact Information
For additional information, go to www.sph.unc.edu/nutr or contact the Department of Nutrition at (919) 966-7212.

NUTR
295 [098] Undergraduate Research in Nutrition (3). For undergraduates enrolled in the department’s bachelor’s degree program. Permission required from faculty research director. Directed readings or laboratory study on a selected topic. May be taken more than once for credit.
400 [100] Introduction to Medical Nutrition (3). Prerequisites, NUTR 240; CHEM 101, 102; BIOL 101. For advanced undergraduates and graduate students needing to enhance background prior to NUTR 600. Function of the human body focusing on nutrient interaction. Review of structure and function of cells and organs.
600 Human Metabolism: Macronutrients (3). Prerequisite, NUTR 400 or equivalent. Cell biochemistry and physiology emphasizing integration of proteins, carbohydrates and lipids in whole-body metabolism, regulation of energy expenditure, food intake, metabolic adaptations, and gene expression, and macronutrient-related diseases (atherosclerosis, obesity).
611 [111] Nutrition of Children and Mothers (MHCH 611) (3). Prerequisite, NUTR 400 or equivalent. Biologic bases for nutrient requirements and dietary recommendations as they vary throughout the life cycle. Covers the nutritional needs of women during childbearing years, infants, children, adolescents, and aging adults.
615 [112] Nutrition in the Elderly (1). Prerequisite, NUTR 400 or equivalent. Special dietary and nutritional needs and conditions of the elderly. Includes overview of biology and demography of aging. Discussion of nutritional requirements and assessments of the elderly in good health and in various disease states.
620 Human Metabolism: Micronutrients (3). Prerequisite, NUTR 400, 600 or equivalent. Cell biochemistry and physiology emphasizing metabolism of vitamins and minerals including antioxidant protection, immune function, nutrient control of gene expression and disease states induced by deficiencies (e.g., iron-deficient anemia).
630 [132] Nutrition Assessment and Counseling Skills (3). Prerequisite, NUTR 240 or equivalent. Functions of a nutritionist working with individuals, emphasizing interviewing, assessment,
nutrition care planning, counseling, and service documentation in prevention and therapeutic situations. Practice in the use of current dietary analysis software programs and development of educational materials included.

640 [121] Medical Nutrition Therapy (3). Prerequisite, NUTR 630; corequisite, NUTR 620. Course designed to examine the rationale and implementation of diet therapy and nutrition support in the prevention and treatment of disease.

650 [140] Food Science and Meal Preparation (2). Prerequisite, NUTR 400. Introduction to foods important in the American diet; composition and properties; factors affecting the selection, handling, and preparation of foods; menu planning and meal preparation. Laboratory fee: $50. One lecture hour and two laboratory hours per week.

660 [141] Food Service Systems Management (2). Instructor's permission required for non-majors. Basic concepts of institutional food service systems management applied to small- and medium-sized health care facilities in the community. Two lecture hours and two laboratory hours per week.

670 [142] Food Production, Processing, and Packaging (2). Prerequisite, NUTR 400 or equivalent. Impact of all parts of food industry on availability and nutritive value of foods, and food safety.

680 [150] Nutrition Policy and Programs (2). Prerequisite, NUTR 240. Introduction to program and policy approaches for improving nutritional status of populations. Broad basis and rationale for nutrition policy introduced. Design, implementation of relevant food, nutrition, health programs examined.

690 [170] Readings on Nutrition (1-9). Permission of instructor is required. Reading and tutorial guidance in special areas of nutrition.

692H [099] Honors Research in Nutrition (3). Permission required from faculty research director. Directed readings or laboratory study on a selected topic. Requires a written proposal to be submitted to and approved by B.S.P.H. committee and faculty research director. A written report is required. May be taken more than once for credit. Six laboratory hours per week.

695 [190] Nutrition Research (1-9). Permission of instructor required. Individual arrangements with faculty for bachelor's and master's students to participate in ongoing research.

696 [170] Readings on Nutrition (1-9). Permission of instructor is required. Reading and tutorial guidance in special areas of nutrition.

The William and Ida Friday Center for Continuing Education
fridaycenter.unc.edu

NORMAN LOEWENTHAL, M.Ed., Director
Timothy Sanford, Ph.D., Associate Director for Credit Programs for Part-time Students
Annette Madden, M.Ed., Associate Director for Professional Development and Enrichment Programs
Ruthie Lawson Bynum, B.S., Associate Director for Friday Center Conference Services
June Blackwelder, B.A., Associate Director for Communication and Instructional Design
R. J. Vaccarella, B.S., Associate Director for Finance
Linda Carl, Ph.D., Associate Director for Distance Education and E-Learning
Brick Oettinger, M.A., Correctional Education

The Friday Center for Continuing Education is the University's arm for extending credit and noncredit instruction to North Carolinians who wish to further their education on a part-time basis or through short, intensive periods of study. The Friday Center's conference facility is designed to accommodate varied continuing education activities.

Through Self-paced Courses, students may complete degree-related correspondence and online courses under the direction of UNC-Chapel Hill instructors. UNC-Chapel Hill serves as the administrative center for this statewide program that also offers courses from seven other member institutions of the University of North Carolina system. Carolina Courses Online is a distance education program that offers courses via the Internet. Class sessions are not required, but courses generally follow the semester schedule. World Wide Web access and e-mail are required in order to enroll.

Part-time Classroom Studies enables part-time students to enroll in undergraduate and graduate evening and daytime courses. Off-Campus Credit Studies provides classroom instruction in locations away from campus or in flexible time formats. The Correctional Education program enables qualified inmates in the North Carolina prison system to take correspondence courses and on-site classes, and provides assistance in transition to study release.

Professional Development and Enrichment Programs provides consultative and management services in developing continuing education programs in a variety of formats. A number of noncredit conferences and institutes are held at UNC-Chapel Hill each year, usually with the cosponsorship of a University school or department or an educational or professional organization. Enrichment programs for the local community are also offered.
Academic Procedures

Regulations and Requirements

The University does not recognize the regulations published in this bulletin as valid beyond the academic year for which the bulletin is published. The faculty reserves the right to make any changes deemed necessary in the curricula and in regulations. Ordinarily, students may expect to receive a degree by fulfilling the requirements of a curriculum as specified in the Undergraduate Bulletin that was in force when they first entered the University. The University is not strictly obligated to fulfill this expectation since changes to the structure of degree requirements may entail widespread curricular adjustments, but it will make every effort to modulate changes so that appropriate substitutes for particular requirements, or particular courses, are available to students operating under a previous set of expectations. Students are responsible for observing the procedures, regulations and requirements of the University as they are set forth here and in other official University publications. This section describes many of the requirements and regulations that apply to undergraduates, but it is not a complete list of all such regulations and requirements. Unless otherwise stated, the regulations described below will govern the academic progress of the students from their first year in the General College through their final semester in the College of Arts and Sciences or one of the undergraduate professional schools. The staff of the University will gladly provide students with detailed information concerning their program or academic problems, but this does not relieve any student of individual responsibility for meeting the University’s requirements and observing University regulations.

Policy on Awarding of Undergraduate Degrees and Transcript Notations

The College of Arts and Sciences

The College of Arts and Sciences at the University of North Carolina at Chapel Hill will award only one bachelor’s degree to a student, regardless of possible second-major declaration, and will not admit or award a degree to a student who has already earned a bachelor’s degree through another school of the University or at another college. Undergraduates in the professional schools in the Divisions of Academic Affairs and Health Affairs may earn a second major (not a second degree) in the College of Arts and Sciences, but the first major must be in the professional school. A student may earn a second bachelor’s degree in one of several health profession schools of the University after receiving a bachelor’s degree from the College of Arts and Sciences if the student is admitted to the professional school. Students pursuing two major fields of study for the bachelor of arts degree earn one degree and receive one diploma. Both the diploma and the official transcript will indicate the degree and the two majors. Students completing the requirements for both a bachelor of science degree and a bachelor of arts major earn only the bachelor of science degree and receive only that diploma. Note that the student must complete the Supplemental General Education requirements in addition to the requirements of the bachelor of arts major. Both the diploma and the official transcript will indicate the degree (with its major) and the second major. Students completing the requirements for two bachelor of science degrees in the College of Arts and Sciences earn only one degree and receive only one diploma. Both the diploma and the official transcript will indicate the degree (with its major) and the second bachelor of science major program for which requirements were completed.

Related Policies

Only one degree is awarded at graduation, and all graduation requirements must be completed before a degree is awarded.

Undergraduates who meet the criteria for a degree in both the College of Arts and Sciences and the Division of Health Affairs cannot receive two degrees at the same graduation. The degree from the College of Arts and Sciences must be awarded first; the second degree can be awarded at the subsequent graduation, provided all degree requirements have been met. Under no circumstances can a second undergraduate degree be awarded in academic affairs after one has been earned in health affairs. In the rare instance that an undergraduate student completes the requirements for an undergraduate degree and a graduate degree at the same time, the two degrees cannot be awarded at the same graduation. The undergraduate degree must be awarded first, and the graduate degree awarded at a subsequent ceremony.

Students who apply to graduate on a given degree award date, but who must complete requirements (such as courses with grades of IN) after that degree award date, must reapply to graduate on a degree award date that follows the actual completion of requirements. Course work taken after the degree award date cannot be used to change a degree already awarded or to retroactively complete a degree or to retroactively add a second major or a minor. Adjustments may ordinarily be made to a transcript only for one year following the date of graduation. Grade protests, for instance, can be initiated after graduation. Courses with temporary grades (AB or IN) can be completed after the date of graduation and the grade-point average changes accordingly; however, the student status at the time of graduation is not affected. Graduation with distinction, for instance, is based only on the grade-point average at the date of graduation and may not be awarded retroactively. Students who neglect to declare a second major or a minor at the time of graduation may request that the dean’s office verify that the requirements had been satisfied at the time of graduation. In such cases, indication of the second major or minor can be added to the transcript within one year after the graduation date.

Registration

General Policies

The majority of UNC-Chapel Hill students use the Web site studentcentral.unc.edu to register for courses. Specific steps toward accomplishing registration are outlined in the online Directory of Classes (regweb.unc.edu/resources/directory.php), which is available online in March for the summer and fall terms and in October for the spring term. Students should refer to the directories for instructions regarding registration. This information is also located on the Web site of the Office of the University Registrar: regweb.unc.edu.

Students who register during the billing period must pay tuition and fees or give notice of anticipated aid to the University Cashier’s Office by the published tuition and fees due date or their schedule
will be cancelled and all their classes dropped before the beginning of classes. Students who register after the billing period must pay estimated tuition and fees or give notice of anticipated aid to the University cashier before they can register for that semester. Students who register after the date designated for official registration must pay an additional fee of $20 for late registration. If the delay results from circumstances clearly beyond the student's control, an appeal may be made in writing to the Registrar. The appeal must show sufficient justification for the delay and has to be approved by the dean of the school in which the student is enrolled. Approval of the dean is required before the appeal is submitted to the Registrar's Office.

North Carolina law requires that no person shall attend a college or university in North Carolina without presenting a certificate of immunization to the college or university on or before the first day of matriculation. This certificate indicates that the student has received immunizations required by law. New students at UNC-Chapel Hill must provide the director of Campus Health Services with an immunization record certified by a physician. Students who fail to present the required certificate of immunization within 30 days of enrollment will not be permitted to continue their enrollment at the University.

Registration for credit for any course at the start of the semester is limited to the first five days of classes unless a late registration is approved by the course instructor and the student's dean or academic advisor. Registration changes that are limited to dropping courses may be effected by the student during the first 10 days of classes and must be in accordance with University requirements governing minimum academic hours of enrollment. After these deadlines, students must obtain a registration/drop/add form from a department or their school dean's office with appropriate signatures as required by their dean. Any courses added after the first five days of classes must also be approved by the teaching department, specifically course instructors.

**First-Year Students and Sophomores**

New first-year students will be notified of their academic advisor's name and office location before they arrive on campus for their first semester.

All first-year students must see their advisor or a member of their advising team for registration advising during their first semester on campus. Advisors will answer students' questions and review students' tentative course selections to ensure appropriate academic progress. In their second semester and during their sophomore year, students receive registration advising from their academic advisor or advising team in the Academic Advising Programs in the College of Arts and Sciences and the General College. Students should consult the advising website about registration requirements that may vary according to their major and should follow instructions received from the Office of the Registrar, which may be accessed by logging into studentcentral.unc.edu and clicking on the menu item Registration Information.

**Juniors and Seniors**

Juniors and seniors receive registration advising according to the directives set out by their college and major. Juniors and seniors in the College of Arts and Sciences have a departmental advisor in their major department and an advising team in the offices of the Academic Advising Programs. It is the department in which the student's major is housed that determines the procedures juniors and seniors must follow for registration. In some cases, the student's major departmental advisor must approve his or her course selection before the student will be able to register. Departmental advisors are excellent resources for students who have questions specific to the major and to graduate and career opportunities in the field. The student's total graduation requirements must be determined, however, by advisors in the office of Academic Advising Programs. Students admitted to a professional school (for example, education, journalism, public health, business) will receive advising and assistance on all academic matters from an advisor in their school. In a few cases - for example, some interdisciplinary curricula - students will not have a major department advisor and therefore will receive assistance regarding registration advising from members of their advising team in the Academic Advising Programs. Again, students should review the Registration Information section at studentcentral.unc.edu.

For information about class standing, see section on "Classification (Class Standing)" under Academic Affairs.

**Registration Priority**

Registration priority is based on the number of semesters completed. Those with more semesters completed are granted higher priority. This policy was approved by Faculty Council in February 2007. The schedule of implementation had not been set when this bulletin went to press.

**Cancellation of Enrollment**

A cancellation is, in effect, the same as not having a registration at all. No entry is made on the student's permanent record, and no tuition and fees are charged. A registration cancellation will be processed on any student who has a "registration cancellation University stop" on the tuition and fees due date for each term. A cancellation notice will be mailed to the student's grade/billing address. A cancellation will be processed if a student is: 1) not cleared financially; 2) not academically eligible to continue in school; or 3) shows a cashier stop, undergraduate admissions stop, dean's office stop or Student Health Services cancellation stop. A registration cancellation notice is processed on any student who has not registered for courses as of the tuition and fees due date each term. Students may either come by the University Registrar's Office or call to request a registration cancellation. For a cancellation after classes begin, however, students must process the cancellation through their school dean's office.

**Administrative Changes to Course Registration**

It is the student's responsibility to maintain the accuracy of his/her course schedule. A department (or curriculum) in the College of Arts and Sciences has the option to drop a course from a student's registration if the student fails to attend both of the first two class meetings (or the first class meeting if the course meets only once each week). The appropriate dean's office will be responsible for informing departments of approved late-arrival students who cannot attend the first two class meetings because of illness or other reasons approved by a dean. Students should never presume that an instructor or department will systematically drop classes from the student's schedule. However, if such action is taken by a department, the registration openings resulting from these drops will be offered to other students seeking enrollment in the courses during the official add period (first five days of classes) or thereafter, as determined by the instructor of the class, department or school.
Before the last day to reduce course load for financial credit, departments can drop students' courses using the computerized registration system.

To effect such a drop after that date, the department must submit a completed registration drop/add form first to the student's dean's office for approval and then to the Office of the University Registrar.

Auditing of Courses

To audit a course, students must get written permission from the course instructor and from the department chairperson. Students can request this permission only after the end of the official registration period. Auditing is permitted only in lecture-based courses and never in courses that include laboratories or performances. Auditing is not permitted in courses that focus on the development of oral communication skills or that rely heavily on class participation. Auditing is not permitted in independent studies courses, internships, special topics, directed readings or similar courses. Furthermore, full-time students may not audit (1) courses in the Friday Center for Continuing Education (Part-Time Classroom Studies, Carolina Courses Online, Self-paced Courses or tutorial programs) or (2) a course preparing the student for credit by examination. Students auditing a course do not write examinations, papers or other work, nor should they request grades or the review of written work by the instructor. Auditors should refrain from participating in class discussions unless otherwise directed by the course instructor. Students who audit a course may not subsequently receive course credit for that course.

Students officially registered for other courses during a semester or summer session may audit a course without paying a fee. Those not officially registered must pay a $20 fee to the University Cashier and must file a copy of the receipt with the course instructor at the beginning of the term.

Changes in Fall and Spring Semester Schedules

Course Schedule Changes before the End of the Eighth Week of Classes

Insofar as possible, changes in course registration schedules should be made during the first five days of classes. During this time, students may add courses using the registration system if their academic advisor has granted prior approval for registration in these courses. After the first five days of classes, the addition of a course to a student's registration schedule requires the permission of the course instructor or the department concerned. Additionally, students must obtain a registration/drop/add form from their academic advisor, the concerned department or their school. Students are required to have the signature of their advisor or dean on the form. If permission is granted, the student must submit a registration/drop/add form to the Registrar's Office on the day of issuance.

Course Schedule Changes after the Eighth Week of Classes

After the eighth week of classes, students must petition to drop courses through the dean's office of the school in which they are enrolled. (For students in the General College and the College of Arts and Sciences, the associate dean for advising has this authority.)

The notation of W (withdrawn without penalty) is employed for course drops made after the end of the eighth week of classes, unless an exception is made by the dean (see Other Procedures below).

Other Procedures

Students enrolled in a professional school should become acquainted with the specific procedures used for making official changes in their course registration schedules. General College and College of Arts and Sciences students must use the following procedures after the first five days of classes: Students admitted as first-year students or sophomore transfers are required to maintain continuous enrollment in ENGL 101 and 102 (ENGL 100, 101, and 102, if applicable) until they have completed their Foundations composition and rhetoric requirement. Any change in a student's registration schedule involving the dropping of ENGL 100, 101, or 102, at any time during the semester, must be approved by a dean in the Academic Advising Programs in the General College and College of Arts and Sciences. Similarly, first-year students and sophomore transfers may not drop foreign language courses in levels 1-3 unless and until they have completed their Foundations foreign language requirement. To drop a course after the eighth week of classes, students must complete and submit a petition form to the appeals committee of their college or school. In the General College and the College of Arts and Sciences, these committees meet weekly to examine the evidence and consider student petitions. Possible reasons for requesting a course drop after the eighth week of classes include: serious illness, personal or family problems, financial problems requiring employment, or other serious problems that prevent students from meeting their academic responsibilities.

Students must first discuss their reasons for requesting a late course drop with a member of their academic advising team or their appropriate academic dean. The advisor or dean provides the student with a standard form that explains the process for an appeal. The appeal must include a statement from the student, a statement from the course instructor and any pertinent documentation (e.g., statements from employers, physicians, etc.) that provides compelling support for the appeal. The student must submit the completed form to the office of the associate dean for advising in the Academic Advising Office in the General College or the College of Arts and Sciences, as specified by the advisor or dean. Because submission of a petition does not assure that the request will be granted, students must continue to attend classes until informed of the committee’s decision. If a course drop is approved, the registration/drop/add form is processed through the Registrar’s Office. All drops approved by the committees appear with the notation of W (withdrawn without penalty) unless an exception is made and the dean's office lists “no W” on the registration/drop/add form. If a petition is denied, the student may submit a second petition with additional supporting evidence. Students enrolled in professional
schools should acquaint themselves with the appropriate appeals procedures in their schools. Any student who ceases to attend a class without officially being dropped may receive a temporary grade of AB or IN or a permanent grade of FA.

A temporary grade of AB is computed as an F grade and is converted to a permanent F grade at the end of the next regularly scheduled semester (fall or spring) after the AB grade is awarded. A temporary grade of IN is computed as an F grade and is converted to a permanent F grade at the end of the first eight weeks of the next regularly scheduled semester (fall or spring) after the IN grade is awarded. The grade of FA is computed as a permanent F grade upon assignment. A grade of F may be assigned instead of a temporary grade or a grade of FA where a final examination is not required in the course. The conditions that apply to the assignment of temporary grades are described under Grading System.

Policies and Guidelines for a Cooperative Learning Environment

Teaching and learning occur simultaneously through a partnership between instructor and student. Instructors share knowledge, experience and ideas with their students. Students process these thoughts, generate new ones and share them with their teachers. In most cases, students and instructors communicate clearly and effectively. However, misunderstandings do occur. In an attempt to foster a positive academic environment, the Faculty Council, upon recommendation of the Educational Policy Committee, establishes these policies and guidelines.

_The Faculty Council resolves:_

**Part I. Policies**

_**Section 1.**_

The Faculty Council recognizes and affirms the following policies. This recognition is not to be interpreted as precluding modification of any policy by the appropriate authority.

_The Honor Code._ The faculty should inform students of the provisions of the honor code and be aware of their own responsibilities specified in the honor code. Faculty responsibilities are stated in the Instrument of Student Judicial Governance.

_Student Grievance Procedures._ According to UNC-Chapel Hill Student Grievance Committee procedures, students may file a grievance against a UNC-Chapel Hill employee, EPA non-faculty employee, staff employee or student employee (when acting in the role of employee) when there is a violation of one of the following:

A. the UNC-Chapel Hill Sexual Harassment Policy;
B. the UNC-Chapel Hill Racial Harassment Policy;
C. the UNC-Chapel Hill Policy on Sexual Orientation;
D. the Americans with Disabilities Act;
E. Title IX, which prohibits exclusion from participation on the basis of sex;
F. section 504 of the Rehabilitation Act of 1973, which outlaws discrimination on the basis of a handicap; or
G. the Family Educational Rights and Privacy Act, which allows students to challenge the content of their educational records. Copies of these can be obtained from the Office of the Dean of Students. They contain information about how to file a grievance. A grievance based on incidents that occurred more than six months before the complaint was filed will not be considered.

_Student Access to Academic Records – Protection Against Improper Disclosure._ As stated in _The Family Educational Rights and Privacy Act of 1974_, students may have access to their full academic records. Individuals who are, or have been, in attendance at UNC-Chapel Hill may inspect and review their education records. Otherwise, education records are subject to confidentiality requirements as specified by law and may not be disclosed improperly. Requests for recommendations imply that the student has given consent to the disclosure of information related to ability and performance. Judgments of ability and character may be provided under appropriate circumstances, normally with the knowledge or consent of the student. "Education records" are those records directly related to a student that are maintained by an educational institution. Particular University policy provisions are found in the University of North Carolina at Chapel Hill's Policies and Procedures under the Family Educational Rights and Privacy Act of 1974.

_Appealing a Grade._ The University has systems for appealing a grade. The exact procedures vary among the academic units. Students should consult with their dean or department chairperson to obtain information about grade appeal procedures. See section on Grade Protests.

**Part II. Guidelines**

_**Section 2.**_

The Faculty Council endorses the following guidelines for the faculty-student relationship. This endorsement shall not be construed as faculty legislation, is not intended to establish a contractual undertaking by the University or any individual, and shall not constitute the basis for civil action in a court or a claim in any administrative or judicial body of the University of North Carolina at Chapel Hill.

_Clear Definition of Potential Honor Code Violations._ In an attempt to avoid unintended misunderstanding, instructors should clearly state what is acceptable in their class. When study aids such as computers are allowed, the instructor is responsible for explaining what constitutes proper use of these items. These rules should be established at the beginning of the course and should not be changed without giving students proper notice.

_Assignment of Graded Work during the Last Week of the Semester._ Instructors may not assign graded work during the last week of classes unless the course syllabus clearly states that such an assignment will be given.

_Suggested Classroom Procedures._ In general, instructors are strongly encouraged to follow the guidelines for course design and classroom procedures recommended by the Center for Teaching and Learning. When students enter into a learning relationship, they have certain needs and expectations. They are entitled to information about course procedures, content and goals. Instructors should provide a syllabus that describes the course and methods of evaluation. Particular attention should be paid to several areas of special concern to students, including provision of reserve readings and grading policy.

Evaluated assignments should be returned to the students within a reasonable amount of time. Since part of the purpose of such assignments is to provide feedback, students should be given time to assess and to learn from their mistakes. Ideally, such assessment would take place while the relevant topics are still fresh in their minds.

_Extra credit, if offered, should be announced publicly and made available to the entire class._

_Students Should Have Freedom of Expression._ Students should be free to take reasoned exception to the data or views offered in any course of study. They are responsible, however, for learning the con-
tent of any course of study for which they are enrolled. Incorrect
facts and poorly supported arguments or opinions inevitably have
an impact on grades. Nothing herein shall be construed to limit the
freedom of the faculty to assign grades according to appropriate
academic standards.

Responsibilities of Students and Teachers. Just as students ought to
expect instructors who are knowledgeable and well prepared, so
should teachers expect their students to be motivated, eager to learn
and actively engaged in class. It is the responsibility of teachers to
make their courses serious intellectual experiences for themselves
and for their students. It is the responsibility of students to take seri-
ously the courses in which they enroll. Good teachers need good
learners.

Students should understand that they are members of a commu-
nity of scholars, and membership in such a community is not a pas-
seive activity. To be full participants in the educational community
and to maximize the educational value of a class, pre-class prepara-
tion is necessary. Proper class preparation involves obtaining course
materials as they are needed and completing assignments as they
are due. Full participation in a class requires regular attendance,
arriving on time and remaining until class conclusion, and active
involvement in the work of the class.

Students should also consider the extent of their own involve-
ment in a class in assessing the educational value of a class.

Class Attendance

The following legislation by the Faculty Council gives each
instructor the authority to prescribe attendance regulations for his
or her classes: “Regular class attendance is a student obligation, and
a student is responsible for all the work, including tests and written
work, of all class meetings. No right or privilege exists that permits
a student to be absent from any given number of class meetings.” If
a student misses three consecutive class meetings, or misses more
classes than the instructor deems advisable, the instructor may
report the facts to the student’s academic dean. However, only
instructors excuse absences from class for valid reasons (such as ill-
ness or family emergency). A student should present his or her
explanation for any absences to the instructor at the next meeting.

Students who are members of regularly organized and author-
ized University activities and who may be out of town taking part
in some scheduled event are to be excused during the approved
period of absence. Notification of such an absence must be sent by
the responsible University official to the instructor before the date(s)
of the scheduled absence.

The University calendar does not recognize religious holidays.
The faculty are encouraged to make reasonable accommodations for
students requesting to miss class due to the observance of religious
holidays.

Improper Relationships between Students and Employees

On March 15, 1996, The University of North Carolina Board of
Governors adopted a system-wide policy that prohibits amorous or
sexual relationships between faculty or staff employees and (1) stu-
dents they evaluate or supervise by virtue of their teaching,
research, administrative or other employment responsibility and (2)
students who are minors below the age of 18. The policy also states
that faculty or staff employees may not supervise or evaluate stu-
dents to whom they are related by blood, law or marriage.

For the full guidelines based on the board’s policy, please see
hr.unc.edu/Data/SPA/employeeRelations/harassment/improper-relations.

Final Examinations

Undergraduate courses taught on campus must include a final
assessment (i.e., final examination) unless the provost grants an
exception. A traditional final examination is written, is administered
at a predetermined time as specified in the final examination sched-
ule, and takes place at a designated location. Only the provost can
grant exceptions to the scheduled time and location of a traditional
examination after review and approval of the appropriate depart-
ment head and the dean.

The final examination schedule, announced prior to the begin-
ing of the semester, sets the time for each examination. Once hav-
ing been fixed, the schedule cannot be changed. Examinations must
be held at the time shown on the schedule. No special preparation
quizzes may be given during the last five days of classes (last two
days of classes for Summer School) before the beginning of the final
examination period. No examination (except for laboratory sec-
tions) may be held at a time other than that specified in the general
schedule except with the advance approval of the provost. No
examination may start later than 7:00 P.M. Final examinations for a
full course should ordinarily cover a minimum of two hours and
should not exceed a period of three hours. Only examinations
requiring an exceptional portion of practical work should be longer
than three hours.

An instructor may, due to highly unusual circumstances, petition
for a change in the examination schedule. The petition must be
made before the first day of final examinations, and it must be
dealt with by the department head and the appropriate dean before
consideration by the provost. If the petition is approved, the instruc-
tor assumes responsibility for making special arrangements to give
the examination to any student who has a schedule conflict as a
result of the change.

Departmental chairs (i.e., heads of instructional units) must give
permission for faculty to use nontraditional examinations, such as a
portfolio of a semester’s work or a take-home examination. The
chair should submit to the appropriate dean an annual summary of
the exceptions that were granted. For multidisciplinary and co-
taught courses, permission to give a nontraditional examination
must be granted solely by the chair of the instructional unit in which
the course is based.

All regular final examinations must be held in Chapel Hill. In
exceptional cases a student may apply to his or her dean for permis-
sion to take examinations in absentia. (A fee of $10 is charged for
each examination so taken.)

Students who are absent from an examination receive a course
grade of Absent (AB), which is equivalent to F. When students are
unable, for reasons clearly beyond their control, to take a final
examination at the scheduled time, they can be excused only by the direc-
tor of Campus Health Services (who can authorize the Registrar to
issue an “official permit to take final examination”) or their academ-
ic dean (who can issue an “examination excuse”). An absence may
be excused for severe health problems leading to the student’s
placement on the Infirmary List, for serious personal or family prob-
lems, or for a scheduling conflict involving multiple examinations.
In cases of illness or personal or family emergency, additional docu-
mentation may be required by the dean.
A student who has three final examinations scheduled by the Registrar's Office within a 24-hour period may petition his or her dean for permission to have one of the scheduled examinations rescheduled. In the event that one of the scheduled examinations is a common final examination for a multiple-section course, that examination is the one to be rescheduled.

Students who have secured an "examination excuse" or an "official permit," and who transmit the document to the instructor or the instructor's departmental chair or dean, must be granted permission to take the exam at an alternate time, although students will need to arrange a mutually convenient time with the instructor. Except when the provost has provided an exception in writing, the exam will be taken at a time subsequent to the regularly scheduled exam, though no later than the end of the following semester.

The final examination in any course may be taken only by regularly enrolled members of the class whose registration has been certified and by students certified to be eligible to take a special examination in that course. The certifying authority is the Registrar's Office.

Each student is required to sign a full and explicit pledge certifying that he or she has neither given nor received aid during the examination.

Academic Course Load

**Fall and Spring Semesters**

To meet the minimum graduation requirement of 120 academic hours in eight semesters, students should average 15 hours each semester. For first-year students, however, four-hour foreign language courses and four-hour laboratory science courses often account for course loads of 16 to 18 hours. Other students may not enroll in more than 18 academic hours unless they have earned a 3.0 grade-point average in the preceding regular semester and have a cumulative 2.5 grade-point average. Exceptions require the approval of the student's dean. Seniors meeting graduation requirements during their final semester in residence may enroll in 20 academic hours if they have a cumulative and preceding semester grade-point average of 2.0.

The minimum course load for a single semester is 12 academic hours. Students may not go below the 12-semester-hour minimum without permission of their dean. All students should discuss semester enrollment of fewer than 15 academic hours with their advisor because such enrollments may affect academic eligibility.

**Note:** Students who enter the University as first-year students in Fall 2007 must petition if they wish to enroll in a ninth semester. Permission to enroll in a ninth semester or beyond must be secured in advance from the appropriate officials in the college or school in which the student is enrolled. Any student needing a 10th semester will graduate with no minors and with one major only.

**Summer Sessions**

Two three-semester-hour courses constitute the normal academic load for one summer session. Students with a 2.00 cumulative grade-point average may enroll in a maximum of nine hours during a summer session with the approval of their advisor or dean.

**Maymester**

Students may enroll in one course. Students enrolled in a Maymester course are not allowed to enroll in any other course during first summer session, on campus or online.

**Twenty-Five Percent Tuition Surcharge**

Since 1993, undergraduate students seeking a baccalaureate degree at UNC-Chapel Hill are subject to a 25 percent tuition surcharge in some circumstances, as required by Section 89 (b), Senate Bill 27, of the 1993 Session laws.

**Students Subject to the Surcharge**

The surcharge should be imposed on all counted credit hours in excess of the threshold defined below for each of the following three categories of undergraduates:

1. For students earning a first baccalaureate degree in a program that requires no more than 128 credit hours, the surcharge shall be applied to all counted credit hours in excess of 140.
2. For students earning a first baccalaureate degree in a board-approved program that requires more than 128 counted credit hours, the surcharge shall be applied to all credit hours that exceed 110 percent of the credit hours required for the degree.
3. Such programs include those that have been officially designated by the Board of Governors as five-year programs, as well as those involving double majors or combined bachelor's/master's degrees.

**Counted Credit Hours**

The undergraduate credit hours to be counted for this purpose include: 1) all regular session degree-creditable courses taken at UNC-Chapel Hill, including repeated courses, failed courses and those dropped after the end of the second week of class; and 2) all transfer credit hours accepted by UNC-Chapel Hill. The following credit hours shall be excluded from the calculation: 1) those earned through the College Board's Advanced Placement (AP) and College Level Examination Program (CLEP) or similar programs; 2) those earned through institutional advanced placement, course validation or any similar procedure for awarding course credit; and 3) those earned through summer sessions, the Friday Center for Continuing Education or another UNC institution.

**Grading System**

**Permanent Letter Grades**

A letter-grade and plus/minus system for evaluating academic performance is employed for all undergraduates. Each letter grade corresponds to a number of grade points and each letter-graded course receives a numerical value of quality points (quality points equal grade points times semester credit hours per course) for the purpose of determining a student's grade-point average (per credit hour) for a term's work and for averaging grades for all terms' work to find a student's cumulative grade-point average (per credit hour).

The letter grades and the grade points represented by each are as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
</tr>
</tbody>
</table>

To determine the grade-point average for a term, first determine the total quality points earned in the term by multiplying the number of grade points awarded for each course by the course's assigned number of semester credit hours and adding the resulting
quality points earned for each course in the term. Then divide the total quality points earned in the term by the number of semester credit hours attempted (for letter grades) in the term.

**Example**

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Grade Points</th>
<th>Credit Hours</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course A</td>
<td>C+</td>
<td>2.3</td>
<td>x 3.0</td>
<td>6.90</td>
</tr>
<tr>
<td>Course B</td>
<td>B-</td>
<td>2.7</td>
<td>x 3.0</td>
<td>8.10</td>
</tr>
<tr>
<td>Course C</td>
<td>B</td>
<td>3.0</td>
<td>x 4.0</td>
<td>12.00</td>
</tr>
<tr>
<td>Course D</td>
<td>C-</td>
<td>1.7</td>
<td>x 3.0</td>
<td>5.10</td>
</tr>
<tr>
<td>Course E</td>
<td>A-</td>
<td>3.7</td>
<td>x 1.0</td>
<td>3.70</td>
</tr>
<tr>
<td>Course F</td>
<td>F</td>
<td>0.0</td>
<td>x 3.0</td>
<td>0.00</td>
</tr>
<tr>
<td>Course G</td>
<td>A</td>
<td>4.0</td>
<td>x 1.0</td>
<td>4.00</td>
</tr>
</tbody>
</table>

Total quality points earned: 39.80
Total graded hours: 18.0
Term grade-point average: 39.80 / 18.0 = 2.211

**Permanent grades are defined as follows:**

A **Mastery of course content at the highest level of attainment that can reasonably be expected of students at a given stage of development. The A grade states clearly that the student has shown such outstanding promise in the aspect of the discipline under study that he/she may be strongly encouraged to continue.**

B **Strong performance demonstrating a high level of attainment for a student at a given stage of development. The B grade states that the student has shown solid promise in the aspect of the discipline under study.**

C **A totally acceptable performance demonstrating an adequate level of attainment for a student at a given stage of development. The C grade states that while not having shown any unusual promise, the student may continue to study in the discipline with reasonable hope of intellectual development.**

D **A marginal performance in the required exercises demonstrating a minimal passing level of attainment for a student at a given stage of development. The D grade states that the student has given no evidence of prospective growth in the discipline; an accumulation of D grades should be taken to mean that the student would be well advised not to continue in the academic field.**

F **For whatever reasons, an unacceptable performance. The F grade indicates that the student’s performance in the required exercises has revealed almost no understanding of the course content. A grade of F should warrant an advisor’s questioning whether the student may profitably register for further study in the discipline before remedial work is undertaken.**

Grades earned and semester hours attempted at other institutions are not included in the calculation of the University grade-point average. Plus-minus grades earned prior to the 1978 fall semester are not assigned a particular numerical quality point value; the value of the basic letter grade A, B, C, or D alone is used in computing a grade-point average. Records of progress are kept by this institution on all students.

Students have three methods to gain access to term grades:

2. Submitting a written request for printed grades (submitted after the first day of classes but before the last day of classes) each enrolled term and sent to: Office of the University Registrar, CB#2100, UNC-Chapel Hill, Chapel Hill, NC 27599-2100. The request should include the student’s full name, personal identification number, term for which grades should be mailed and college/school in which the student is enrolled.
3. Making a request in person at the Registrar’s Office. Call the Office of the University Registrar at (919) 962-0495 if you have questions about the grade reporting services.

**Temporary Grades (IN and AB)**

Students who do not complete all requirements in a course by the end of the semester receive a temporary grade of IN or AB in place of a permanent letter grade. Grades of IN and AB carry the force of an F grade (zero quality points) and are used in the computation of a semester and cumulative quality point average. Students who do not complete the course requirements within a specified period of time are assigned permanent F* grades on their academic transcripts by the Registrar’s Office.

A **The instructor must report the grade of AB for any student who did not take the final examination and who, by taking the final examination, could pass the course. This AB grade translates to an F in computing the student’s cumulative and semester grade-point average, and later converts to an F* unless the student arranges to take the final examination before the close of the next scheduled semester (fall or spring) after receiving the grade. If the student cannot pass the course regardless of a final examination performance, the instructor must report the grade FA.**

When submitting an AB, an instructor must enter the grade on the instructor’s grade report and must also complete a temporary grade assignment form (supplied by the Registrar’s Office). The purpose of this form is to establish a record of what arrangements, if any, have been made between student and instructor to clear the AB. Absence from a final examination may be officially excused only by the student’s dean or the director of Campus Health Services or Counseling and Wellness Services. An absence may be excused for significant physical or emotional illness or for serious personal or family problems.

**Campus Health Services.** Students who are seriously ill during the time of their final examination(s) should consult Campus Health Services or Counseling and Wellness Services about having their names entered on the Infirmary List. In some cases, outpatient treatment can also result in a student’s name being entered on the Infirmary List. Students on the Infirmary List may obtain an official permit to take the final examination to remove grade of AB from the Office of the Registrar. They must make arrangements to take the final examination with their course instructor and provide the instructor with their official permit. If students are treated at Campus Health Services or Counseling and Wellness Services but do not appear on the Infirmary List, they should see the dean of their college as soon as possible.

**Academic Dean.** If students know in advance that they must miss one or more final examinations because of illness or other serious problems, they should see the dean of the school in which they are enrolled before the final examinations are given. If this is not possible, they should see their dean as soon after the fact as possible. For students in the College of Arts and Sciences, only the associate dean for advising is authorized to issue examination
excuses. For other students, only the dean of the school in which the student is enrolled has that authority.

Assuming that a student did not take a final examination for one of the reasons previously cited, the dean will issue an official “examination excuse,” which the student must present to the course instructor when arrangements are made for a suitable time to take the final examination. The dean may require documentation of a student’s illness or problems.

If a student presents an examination excuse or an official permit to take the final exam to an instructor or the instructor’s departmental chair or dean, then a final examination must be given to the student.

B. The grade IN may only be assigned by an instructor to a student who took the final examination in a course but did not complete some other course requirement such as signing the honor pledge and who, by virtue of completing that missing work, might pass the course. An IN translates to an F in computing a student’s cumulative and semester grade-point average. Unless removed within eight weeks of the beginning of the regularly scheduled semester (fall or spring) following its assignment, an IN converts to an F*.

When submitting an IN, an instructor must enter the grade on the instructor’s grade report and must also complete a temporary grade assignment form supplied by the Registrar’s Office. The purpose of this form is to establish a record of what arrangements, if any, have been made between student and instructor to clear the IN.

C. Important Rules and Procedures Pertaining to AB and IN Grades. The decision to report an IN grade is solely the responsibility of the course instructor; however, a student may present proper justification for the instructor’s consideration.

Temporary grades should be cleared by completion of the work outstanding, preferably no later than the start of the following semester. The deadline for clearing a temporary grade of AB is the end of the next regularly scheduled semester (fall or spring) after the AB grade is awarded. A temporary grade of IN must be cleared within the first eight weeks of the regularly scheduled semester (fall or spring) after the IN grade is awarded.

If students intend to remove IN or excused AB grades, they should not officially enroll in the course(s) during the next semester or summer session. If recommended by the course instructor, a student may attend a part of that instructor’s section of the course or another instructor’s section of the same course in which the temporary grade was awarded.

If a student enrolls in a course in which a temporary grade has been previously received, the second enrollment is taken as evidence that the student could not or is not permitted to remove the temporary grade. This results in the replacement of the temporary grade by F* after the deadline for removing the temporary grade. The grade earned during the second enrollment is also reported on the student’s academic transcript and is used along with the F* grade in the computation of a cumulative grade-point average.

Other Grades and Notations

A grade of PS (pass) indicates a passing grade in a course taken pass/fail. The rules governing the use of pass/fail are presented later in this section.

A notation of W (withdrawn passing) is entered in the grade column of students’ academic transcripts if they are permitted to drop a course after the sixth week of classes. This notation is automatically entered unless the student’s academic dean specifies otherwise. The symbol W is not employed in Summer School.

A notation of BE (by exam) is entered in the grade column of students’ academic transcripts if they are awarded credit for a course as a result of evaluation by examination. This is to be distinguished from any placement examination taken before enrollment in a course.

A notation of PL (placement) is entered in the grade column of students’ academic transcripts if they are awarded credit for a course as a result of an evaluation that would ordinarily place them in a succeeding course.

A grade of SP may be used in the first course of a departmental Undergraduate Honors Program. The Honors Program runs through two semesters and a final grade is not reported until completion of the second course. When the final grade is reported, the previously assigned SP grade must be changed to the appropriate permanent letter grade by an official grade change form.

A blank grade is shown on courses when the instructor has not submitted the official grade roll for the course.

Repeating Course Enrollments

Students who have received passing grades in courses may not enroll in the same courses at a later time without the written approval of their academic dean. If a student proceeds with such an enrollment without securing permission, any grade received beyond the initial enrollment may be administratively removed from the student’s academic transcript.

A second enrollment in a course for which a student has received a grade less than C through a previous enrollment at the University will be approved in writing by an academic dean at the request of the student if any of the following apply:

• the course is specifically required by the student’s academic major and is a prerequisite to other courses required in the major;
• at least a grade of C (2.00) must be earned in a course specifically required in the student’s academic major to satisfy graduation requirements in the academic major;
• several years have elapsed since a student’s initial enrollment in a course and a current, satisfactory knowledge of the course material is either required or advisable.

In some circumstances, permission may be granted to repeat a specific course regardless of the grade earned (C or higher) during the initial enrollment.

If a student is permitted to repeat a course in which a passing grade previously has been earned, no additional credit hours beyond the first enrollment will be counted toward the fulfillment of the University’s minimum graduation requirement of 120 academic hours. Grades and academic hours earned as a result of both enrollments, however, will be computed in the student’s semester and cumulative grade-point averages.
Certain University courses (e.g., applied music, special studies, undergraduate research, etc.) may be taken more than once for credit and are so designated under individual department course descriptions in the Undergraduate Bulletin. A particular physical education activity (PHYA) course may be taken repeatedly. However, a different level of the same course (beginning, intermediate, and advanced) must be taken during each separate enrollment. Students may count up to two lifetime fitness (LFIT designation begins Spring 2008) courses in their credit hours toward graduation; any additional lifetime fitness courses will not count toward graduation and will not be factored into the student's grade-point average.

**Grades Earned at Other Institutions.**

Grades earned and semester hours attempted at other institutions are not included in the computation of a grade-point average at the University. A grade-point average earned at another university may not be used to restore academic eligibility; however, academic hours earned at another university may be used to restore academic eligibility if the student is short only credit hours.

**Grade Protests.**

The grades of H, HP, P, LP, L, A, A+, B+, B, B-, C+, C, C-, D+, D, PS, F, FA, F* and numerical grades in the Law School are considered to be permanent grades. Once reported, the instructor's grade report may not be changed except under certain conditions. For a grade change to be considered, it must be based upon one or more of the following grounds and upon allegation that the ground or grounds cited influenced the grade assignment to the student's detriment:
- arithmetic or clerical error;
- arbitrariness, possibly including discrimination based on race, sex, religion or national origin of the student;
- personal malice;
- student conduct cognizable under the Instrument of Student Government.

A grade appeal must be made no later than the last day of classes for the succeeding fall or spring semester.

a. **Grade Appeals Correcting a Clerical or Arithmetical Error.** An instructor who has reported an incorrect grade for a student because of an error in calculating the grade or in transporting it to the official class roll and grade report may change the grade to one of the other letter grades, provided this change is made no later than the last day of classes of the succeeding fall or spring semester. Such a change must be reported to the University Registrar's Office on an official report of grade change form. This report must contain a statement to the effect that the grade change is due to clerical, arithmetical or transposition error and must contain the written approval of the department chair concerned and, for graduate students, the approval from the dean of the Graduate School.

b. **Other Grade Appeals.** Any student who protests a course grade shall first attempt to resolve this disagreement with the instructor concerned. (An instructor may change a permanent grade only when a clerical or arithmetical error is involved; see paragraph a. above.) Failing to reach a satisfactory resolution, the student may appeal the grade in accordance with the procedures outlined below. Such appeal must be made no later than the last day of classes of the succeeding fall or spring semester. Students should present the appeal in writing to the dean of their school (for students in the College of Arts and Sciences, this is the associate dean for advising.) The dean will refer the appeal to the administrative board of his/her school, which will meet to consider whether the student has offered sufficient grounds for referring the appeal to the chair of the department concerned. The department chair will appoint a committee to consider the appeal and will make a recommendation to the administrative board based on the committee's findings. The administrative board will make the final decision and no change of grade will be made except as a result of the decision by the board. The chair will report such decision to change the grade to the University Registrar's Office.

**Pass/D+/D/Fail Option.**

The pass/D+/D/fail option provides students an opportunity to enroll in an additional course (beyond the usual load of five academic courses) or to reduce their concerns about competing with prospective majors in a course in which they have considerable interest. Students who declare a course on the pass/D+/D/fail option will receive the grade of PS (pass) when a letter grade of A through C- is recorded on the official grade roll, a D+ or D when a letter grade of D+ or D is recorded on the grade roll, or F when the course is failed. For the purpose of computing a grade-point average, a PS grade does not count as hours attempted; therefore, a PS grade does not affect a student's average. Grades of D+, D or F under the pass/D+/D/fail option count as hours attempted and are treated as D+, D and F grades earned in any other course.

Course content and requirements are the same for pass/D+/D/fail registrants as for regular registrants. The minimum performance for a PS grade is equivalent to the minimum performance for the letter grade of C-.

**Regulations Governing the Pass/D+/D/Fail Option.**

The following regulations govern the use of the pass/D+/D/fail option:

A. Students must take at least nine academic hours for regular letter-grade credit in the semester in which other hours are declared pass/D+/D/fail.

B. No more than four credit hours (e.g., one three-hour academic course and a physical education activity course) may be taken on the pass/D+/D/fail grading system during a single semester.

C. A maximum of 11 hours of pass/D+/D/fail credit may be taken in a student's undergraduate career.

D. Not to be counted in the limits specified in B and C above are up to seven hours taken in courses for which ONLY PS or F grades are assigned.

E. The following may not be declared pass/D+/D/fail:
   - courses used to satisfy General Education requirements (with the exceptions of lifetime fitness courses and some forms of experiential education).
   - courses in one's major or minor department (or cross-listed with those departments), even if used as an elective; see note 1
   - courses specifically required by the major or minor; see note 2
   - Summer School courses;
   - Carolina Courses Online;
   - an honors seminar or honors section of a course (note that some honors seminars are designated by the Honors Office to receive only pass/fail credit);
   - courses taken via inter-institutional enrollment;
   - first-year seminars.
Students who place into level 4 of a foreign language (and will receive credit for level 3 upon successful completion of level 4) may not declare level 4 pass/D+/D/fail if using that language to satisfy the Foundations foreign language requirement.

Notes:

1. Students who change their major (or minor) may count in the new major (or minor) one course previously completed with the grade PS.

2. One exception: Students pursuing a BS degree in one of the natural sciences may declare a foreign language course pass/D+/D/fail if that course is not used to satisfy the minimum Foundations foreign language requirement (e.g., level 4 for students who placed into level 1, 2 or 3).

**Pass/D+/D/Fail Declaration Procedure**

To declare a course on the pass/D+/D/fail grading system, a student must complete the PS/D+/D/F course registration form. It is obtained from the academic advisor or dean's office. Students should always discuss the advisability of taking a course on the pass/D+/D/fail grading system with their advisor before committing themselves to a formal declaration.

The period for making PS/D+/D/F declarations begins on the fifth day of classes of each semester and concludes at the end of the sixth week of classes. Pass/D+/D/F request forms may not be submitted or withdrawn after the sixth week of classes.

**Academic Eligibility**

The University expects all students to study and perform to the best of their abilities. The eligibility standards listed below define the minimally acceptable levels of performance. Students failing to meet these standards are not making good use of their educational opportunities.

**Eligibility Standards Effective Summer 2007**

First-year students entering the University on or after May 14, 2007 are required to meet the requirements listed below. (These standards will apply to sophomore transfer students beginning Fall 2008 and to junior transfer students beginning Fall 2009.)

**Eligibility Standards for Continued Enrollment**

Good Standing entitles a student to enroll in a fall or spring term.

**Ordinary Good Standing**

The requirements for ordinary Good Standing are as follows:

- A 2.000 cumulative UNC-Chapel Hill grade-point average and the following number of academic semester credit hours passed:
  - 9 academic hours to enter a second semester
  - 24 academic hours to enter a third semester
  - 36 academic hours to enter a fourth semester
  - 51 academic hours to enter a fifth semester
  - 63 academic hours to enter a sixth semester
  - 78 academic hours to enter a seventh semester
  - 93 academic hours to enter an eighth semester

- Special permission of the dean to enter a ninth semester

**Good Standing – On Probation**

Students who fail short of the standards for ordinary Good Standing will be considered in “Good Standing – On Probation” for one semester provided they passed at least nine credit hours of graded coursework (excluding BE or PL credits) in the preceding semester and were not already on probation. Probation is considered good standing.

**Academic Ineligibility**

Students who do not qualify for automatic probation or who do not meet cumulative eligibility standards after a probationary term are academically ineligible and may not enroll in a spring or fall term.

**Appeals**

Students may, under extraordinary circumstances, present an appeal in writing to the dean of their school (for students in the College of Arts and Sciences, this is the associate dean for advising). The dean will refer the appeal to the administrative board of the school.

**Academic Eligibility Standards for Students Enrolled in Part-time Classroom Studies**

All UNC-Chapel Hill course work attempted is taken into consideration in determining whether a student meets the minimum grade-point averages to remain academically eligible. Students enrolled in Part-time Classroom Studies should consult the Friday Center for continuing eligibility standards.

**Restoration of Academic Eligibility**

Certain procedures are required of students who wish to restore their academic eligibility. Information can be obtained from the student’s academic advisor or dean.

Students can locate information regarding their academic eligibility status at studentcentral.unc.edu.

Students failing to meet the minimum cumulative grade-point average and transfer students who have not passed the minimum number of academic credit hours in UNC-Chapel Hill courses may attempt to restore or retain their academic eligibility by:

- A. taking courses in the Summer School at UNC-Chapel Hill;
- B. taking courses through the Self-paced Courses program (Internet or print-based and online courses with flexible scheduling) at UNC-Chapel Hill;
- C. taking courses through the Carolina Courses Online program (Internet courses that follow the semester schedule) at UNC-Chapel Hill;
- D. removing excused AB or IN grades.

Students satisfying the minimum cumulative grade-point requirement, but failing to satisfy the requirement for cumulative semester hours passed, may use one or more of the above procedures in attempting to retain or restore academic eligibility. To satisfy the requirement for cumulative hours passed, students also may use semester hours of approved transfer credit from another institution. (Note that this option is not available to transfer students who have not passed the minimum number of academic credit hours in UNC-Chapel Hill courses prior to a second or third semester at UNC-Chapel Hill.) Students wishing to use transfer credit for this purpose should obtain approval from the Office of Undergraduate Admissions and their academic dean or advisor before enrolling in these courses. (Not all courses are acceptable for transfer credit.) To receive credit hours for a course taken at another institution, a student must earn a grade of C- or higher in the course; however, grades earned at another institution are not included in a student’s UNC-Chapel Hill grade-point average.

In addition, students should understand the following regulations concerning restoration of academic eligibility:
A. If students enroll at another institution for 15 or more semester hours per academic term (fall or spring) before applying for readmission to the University, those semesters will count as semesters-in-residence and will determine requirements for restoring academic eligibility.

B. Students who are academically ineligible or who have pending academic ineligibility because of their cumulative grade-point average should NOT attend another institution if they intend to return to the University at some future date.

C. Students who are declared academically ineligible, who attend another institution (summer, fall or spring), and who apply for readmission must have at least a 2.0 (C) average in work at the other institution.

D. Academically ineligible students who have a housing assignment or a housing contract on file for the following semester should either notify the Department of Housing and Residential Education at the University of their plans to seek continued admission by restoring their academic eligibility or cancel their application or contract.

### Summer Sessions

Students not regularly enrolled in courses on campus during a spring semester must apply for readmission in order to attend a Summer Session at the University. For more information, visit admissions.unc.edu/applying/readmission.htm and see the Admissions chapter of this Undergraduate Bulletin (following the Introduction).

### Self-paced Courses (Friday Center)

Students planning to restore academic eligibility through completion of one or more correspondence or online courses should be familiar with the following rules and recommendations that apply to time limits and course selection:

A. Students may enroll and begin work at any time during the year. They may be enrolled in a maximum of two courses at any one time. Enrollment in Self-paced Courses expires nine months from the date of enrollment.

B. Students should allow at least three months for the completion of a course taken through Self-paced Courses. The following policies govern the minimum time within which Self-paced Courses may be completed:

- The minimum time for completing a course taken through Self-paced Courses is 12 weeks from the receipt of the first assignment.
- Students may not submit more than one-fifth of the total number of assignments in the course at one time.
- Students may not submit assignments more often than once every two weeks unless all assignments previously submitted have been graded and returned by the instructor.
- Examinations taken at the Friday Center on the UNC-Chapel Hill campus must be scheduled at least one week prior to the examination date, and those to be taken elsewhere must be scheduled at least two weeks prior to the examination date.
- Examinations may not be taken until all assignments have been submitted.

C. Only grades earned in Self-paced Courses labeled “UNC-Chapel Hill” can be considered for restoration of academic eligibility. To avoid problems, students should clear their course selection(s) with their advisor or dean before enrolling in the Self-paced Courses program.

D. The following policies apply to students seeking restoration of academic eligibility in the General College or in the College of Arts and Sciences.

The College of Arts and Sciences and the General College will count toward restoration of undergraduate academic eligibility for a given semester only the Self-paced Courses for which a final course grade has been recorded in the Friday Center for Continuing Education by the last day of the official registration period of that semester.

No professional school courses offered through Self-paced Courses, except those explicitly required for professional school degrees, shall be used to restore undergraduate academic eligibility in the General College and in the College of Arts and Sciences. The professional schools are: business, education, information and library science, journalism and mass communication, and Division of Health Affairs programs. Students should consult their dean before enrolling in one or more professional school courses.

### Carolina Courses Online

Carolina Courses Online is a distance education program that offers courses over the Internet. Class sessions are not required, but courses follow the semester schedule. Students must have access to the World Wide Web and e-mail, with a browser the equivalent of Netscape 6.0 or higher, Mozilla 1.5 or higher or Internet Explorer Version 5.0 or higher. The courses are administered through the Friday Center for Continuing Education, (919) 962-1134, fridayscen-ter.unc.edu. To enroll, contact the Friday Center or visit the Web page. Certain restrictions may apply. Students should consult the dean's office of their school for details.

### Removing AB or IN Grades

For information about completing courses with grades of “absent from final examination” or “incomplete,” see the grading system information in the pages of this Undergraduate Bulletin immediately preceding this section on academic eligibility.

### Nontraditional Readmission

The University’s policy for traditional readmission as an undergraduate requires that former University students fulfill certain minimal requirements. These requirements include a specified cumulative grade-point average and number of academic hours passed based on their total number of semesters-in-residence.

Although the traditional policy for readmission is the norm, the University recognizes that individuals can gain personal and intellectual maturity over a period of years. In such cases, the University may choose to evaluate applicants for readmission on the basis of their current academic promise rather than earlier academic performance.

Under this policy, the University will review applicants who have not been enrolled full time in a formal educational program for at least five years and who by their special life experiences might be considered nontraditional applicants. Readmission to the General College or the College of Arts and Sciences under this policy requires the approval of the associate dean for advising or the appeals committee of the college. Readmission to a professional school under this policy requires the approval of the professional school to which the student is seeking readmission.

Advising and degree-granting bodies within the University will monitor the performances of all individuals admitted under this policy. This monitoring will provide up-to-date guidance and coun-
suling and insure that each person readmitted fulfills the requirements for continued enrollment as specified in the letter of readmission issued by the Admissions Office. Students who fail to meet these requirements and who lose their academic eligibility must then meet traditional readmission requirements before they will be permitted to continue their enrollment at the University. A nontraditional readmission to the University is granted only once.

Withdrawal

Students withdrawing from the University should complete an official withdrawal through the appropriate University office (see sections on medical and academic withdrawal below) before the end of classes during a semester or summer session. An official withdrawal constitutes an honorable dismissal from the University and may facilitate readmission. Failure to withdraw officially results in the assignment of an AB course grade that is computed as an F grade in establishing grade-point averages and academic eligibility. Students who do not withdraw officially will be responsible for the tuition and fee payments associated with the course(s).

Medical Withdrawal

If a student decides to withdraw for reasons of illness, the student should contact Campus Health Services, whether the treatment was received there or elsewhere. If a medical withdrawal is authorized, the official withdrawal will be handled through the Office of the Director of Campus Health Services. A medical withdrawal is effectuated without grades and without a semester-in-residence.

Academic Withdrawal

If a student decides to withdraw for reasons other than illness, or if a medical withdrawal cannot be authorized, the student must contact the dean's office of the school in which he or she is enrolled. An official withdrawal involves the completion of an application for withdrawal form.

The student must obtain clearance signatures from course instructors and certain University offices, as determined by the dean's office, before the form is submitted. In determining an undergraduate student's eligibility for readmission the following conditions apply:

Students who officially withdraw from the University are awarded a semester-in-residence if their withdrawal is initiated before the end of classes during a fall or spring semester and if it is accompanied by the recording of six or more academic hours of F grades for that semester's work.

Withdrawal from a summer session is not counted as a semester-in-residence. Failing grades are recorded, however, if the student is reported as below passing in more than one academic course. Students enrolled as summer session visitors must withdraw through the Office of the Director of the Summer School.

If a student completes an official withdrawal from a fall or spring semester, tuition and fees will be prorated over a period of nine weeks at a rate of one-tenth of the semester's bill after deduction of an administrative charge. The last date for credit on a student's financial account for withdrawal is nine weeks after registration. If a student completes official withdrawal from a summer session, tuition and fees will be prorated over a period of three weeks at a rate of one-fourth of the summer session's bill after deduction of an administrative charge.

If students withdraw from the University during a semester and they receive financial aid funds prior to the date of withdrawal, they may be expected to repay a portion of the funds to the aid program(s). The repayment will be calculated by the Office of Scholarships and Student Aid when the student is cleared by that office at the time of withdrawal.

Retractive Withdrawal

Students may request a retractive withdrawal from a semester or summer session on the basis of extraordinary circumstances. Such requests must be made in writing to the appeals committee of the administrative board of the college or school having jurisdiction over the student during the semester or summer session in question. The decision of that appeals committee is final.

Graduation

To qualify for an undergraduate degree, a student must successfully complete at least 120 academic semester hours (requirements are higher than this minimum in some bachelor of science degree curricula). Also, the student must have a 2.0 (C) average on all work attempted at the University of North Carolina at Chapel Hill.

The required 2.0 average must be earned in the total number of hours, not to exceed 45 hours beyond the minimum graduation requirements for the degree being sought. A minimum of 45 academic credit hours must be earned from UNC-Chapel Hill courses, and at least 24 of the last 30 academic credit hours applied to the degree requirements must be earned from UNC-Chapel Hill courses. These may include courses taken by correspondence, through Carolina Courses Online, or in study abroad programs sponsored by the University. In the College of Arts and Sciences, at least 18 semester hours of work with grades of C (not C-) or higher are required in the student's major (some majors may require more), and at least half of the student's major must be completed in this University. Beginning with the first day of classes in the term for which the student expects to graduate, students should file an application for a degree in the office of the dean. A student who has not filed an application for graduation on or before the announced deadlines for fall graduation and for spring graduation will not be included in the graduation program.

Students must pay tuition, fees and other obligations owed the University before receiving a diploma.

Degrees with Distinction

To graduate with distinction or with highest distinction, one must have completed at least 43 academic hours at UNC-Chapel Hill and have an overall grade-point average of at least 3.5 or 3.8, respectively. The grade-point average is based on the grades received and recorded by the Office of the University Registrar as of the degree award date. No changes are permitted to the awards after that date.

Transcripts of Record

A statement of official academic record includes all significant recorded information concerning the student's admission, classification and scholarship. No partial or incomplete scholastic record will be given.

If the student's scholastic progress has been such as to prevent his or her continuance in the University and eligibility has not been retained or restored, a plain statement of this fact will be included.

A statement of honorable dismissal will not be granted to students whose conduct and character would not entitle them to remain in the University. In every transcript full mention will be made of any probation, suspension or other temporary restriction
imposed for unsatisfactory conduct and still in force when the statement is made.

The University does not release an official transcript unless tuition, fees and other obligations due the University have been paid. Students have two methods by which they may obtain a transcript from the University Registrar’s Office: in person or in writing. These methods require the student’s signature for the University Registrar’s Office to release the transcript. Students may inspect their academic records at the Registrar’s Office, 105 Hanes Hall. For more information on how to request a transcript, please call (919) 962-2350.

Inter-institutional Registration
A student regularly enrolled in a degree program at the University may enroll by inter-institutional registration for a course at Duke University, North Carolina Central University, North Carolina State University, the University of North Carolina at Charlotte or the University of North Carolina at Greensboro under the following conditions:
A. Space must be available in the course.
B. The student’s academic dean must certify:
   • that the course is appropriate for the student’s degree program and
   • that an equivalent course is not available at this University during the same term.
C. Enrollment in inter-institutional registration is normally limited to one course per term, provided that the student is also registered for the balance of his or her normal load at the home institution.
D. A student will be billed by his or her home institution for all the courses taken (including inter-institutional courses) at the prevailing tuition rate. The University of North Carolina at Chapel Hill will receive no fees from an inter-institutional student taking courses at this campus unless there is a special fee associated with a particular course. In such a case, the student must pay the fee. Additional information, procedural instructions and forms are available at the Registrar’s Office, 105 Hanes Hall.

Veterans Educational Benefits
Students who expect to use their veterans’ educational benefits must contact the Veterans Services Section in the University Registrar’s Office in 105 Hanes Hall. For further information, please visit regweb.unc.edu/veterans/index.html or call (919) 962-8292.

Loan Deferments, Certification/Verification of Enrollment Status
The University Registrar’s Office provides confirmation of student enrollment data to financial institutions, organizations or agencies requiring proof of registration. To obtain enrollment certification, students may complete an online request at regweb.unc.edu/official/forms/enroll_cert.html, call (919) 962-3954, come to 105 Hanes Hall, or mail their request to the University Registrar’s Office, CB# 2100, 105 Hanes Hall, Chapel Hill, NC 27599-2100.
DIVISION OF STUDENT AFFAIRS

MARGARET A. JABLONSKI, Vice Chancellor for Student Affairs
Melissa Exum, Associate Vice Chancellor and Dean of Students
Christopher Payne, Associate Vice Chancellor
Winston Crisp, Assistant Vice Chancellor
Sarah Jonczak, Director of Administration

The importance of the learning process is paramount at the University of North Carolina at Chapel Hill. The Division of Student Affairs provides many services and programs that encourage and support the learning that takes place beyond the classroom. These departments and programs aim to assist students in integrating the various aspects of their lives so as to promote learning, self-awareness, self-determination and broadened perspectives on the world. Student Affairs departments and programs afford students the opportunity to gain knowledge and develop skills to improve performance inside and outside the classroom; to enhance leadership potential; to find opportunities to serve fellow students and the community; to explore, plan and prepare for a career; to plan for an active and rewarding life; to develop citizenship and to improve interpersonal and life skills.

The Office of the Vice Chancellor in 104 Steele Building coordinates the division's programs and provides guidance and leadership for its departments. The office also acts in a consulting role for faculty, administrators and students who wish to raise issues that concern the University community, with a particular focus on student needs. Members of the Office of the Vice Chancellor also serve on many University committees to represent the division's various constituencies. Contact the office at (919) 966-4045; CB# 5000; e-mail www.dsa@unc.edu; or visit the Web site at studentsaffairs.unc.edu.

Information on the departments and programs in Student Affairs is presented below.

Departmental Programs and Services

Carolina Leadership Development promotes effective and ethical leadership through experiential learning, training and resources. Several programs, academic courses and resources are available to all students.

The North Carolina Fellows Program, founded in 1968, is a four-year, cohort leadership development program designed to support and accelerate the development of highly motivated undergraduates. One of two such programs in the state, it seeks to instill in students a strong sense of responsibility toward those whom they serve and a greater degree of ethical congruence. Students participate in educational retreats, an academic course, monthly seminars with community leaders, internships and community service projects. Each fall semester, all first-year undergraduates at Carolina are invited to apply to the program.

The Women's Mentoring Program is a one-year program for first- and second-year women interested in leadership. Women faculty and staff join the students and serve as mentors. Together they attend sessions focused on issues related to women's leadership.

The staff of Carolina Leadership Development also works with student organizations and individuals seeking to increase their insight into leadership-related issues. A new focus of the department is an expansion of services to a wider cross-section of students, with an emphasis in leadership as a mechanism for positive social change.
Family Weekend, Parent Handbook, family newsletters, Parent Clubs, Carolina Parents Association and Carolina Parents Council. For more information, call (919) 962-8304.

The Department of Disability Services supports the University’s commitment to an accessible environment. In consultation with faculty, staff and students, the department works to identify and eliminate barriers that limit a student’s ability to independently meet the numerous demands of University life.

Individual needs are addressed on a case-by-case basis through the provision of reasonable accommodations that allow the University to maintain the integrity of its programs and services. The following are examples of services available to students (undergraduate, graduate/professional, full and part-time):

**Academics**
- Accessibility to printed materials (textbooks, course packs, library resources), Braille (embossed or electronic), large print, electronic text (multiple formats)
- Communication access (sign language interpreters, cued speech; transcribers, assistive listening devices [ALD], digital/video recordings)
- Examinations (extended time, alternative input [computers])
- Technology (software for laptop accessibility, screen readers, voice-activated speech recognition, screen enlargers)
- Class notes
- Physical access to classrooms

**Campus Life**

With the goal of creating an accessible environment, the Department of Disability Services works closely with programs, offices and departments throughout the University, including Housing and Residential Education, Parking and Transportation, Facilities Services, Athletics, and Academic Affairs.

**Eligibility**

To effectively address individual needs, in most instances, documentation describing current functional abilities will be required. The department is also prepared to assist individuals with temporary injuries/medical conditions that limit access to the University environment.

For more information about the Department of Disability Services please visit the Web site: disabilityservices.unc.edu. The office is located in the Student Academic Services Building (Suite 2126) between the Rams Head Center and Morrison Residence Hall. Office hours are 8:00 a.m. – 5:00 p.m. Monday through Friday.

The staff can be contacted by telephone at (919) 962-8300 (V/TDD) or by electronic mail at disabilityservices@unc.edu.

**Counseling and Wellness Services (CWS),** a department of Campus Health Services, is located on the third floor of the James A. Taylor Building.

The mission of Counseling and Wellness Services is to provide high-quality, confidential, compassionate and culturally competent service through a continuum of wellness promotion and psychological services to enhance the lives of students and promote social, personal and academic growth.

Psychological services include individual, couples and group therapy, urgent consultation and crisis intervention, and medication evaluation/management. Wellness services provide education and health promotion programs in the areas of alcohol and substance use, stress management, nutrition and sexual behavior. Massage therapy is also offered. The CWS staff is comprised of licensed psychologists, psychiatrists, social workers and health educators as well as administrative support personnel.

Please call (919) 966-3658 to schedule an appointment or to find out more about CWS services. If you have a psychological crisis, please call immediately. If your crisis is after hours, we strongly advise you to call Campus Health Services at 919-966-2281.

University Career Services (UCS) provides information, career counseling and advising, interest assessment, and career-related programs and services to help students learn about various careers and how to prepare for them, make career decisions, acquire job/internship search skills and interact with potential employers.

Services include workshops on career planning, resume writing, interviewing, networking, internship and job seeking; resume mailing to employers; individual career counseling; on-campus interviewing; interest testing, full- and part-time job and internship vacancies online; a Web-based alumni networking database; a reference file service for students in selected curricula or who are applying to graduate/professional school; and many print and electronic resources. Additional resources and programs include occupational and employer information, career panels and fairs, networking nights and law school exploration day. Some services are limited to students in a UNC-Chapel Hill degree or certification program who are within two semesters of graduation. University Career Services is located in 219 Hanes Hall. Web address: careers.unc.edu; e-mail address: UCS@unc.edu; telephone: (919) 962-6507.

Campus Health Services (CHS), located next to Kenan Stadium in the James A. Taylor Building, provides a broad range of ambulatory, primary care and prevention services. Specialty care services also are available, including orthopedics, obstetrics and gynecology, dermatology, travel information and immunization, and allergy management. For convenience, in-house laboratory, radiology, pharmacy and physical therapy services also are available.

Any student who has paid the campus health fee for the current semester or summer session is eligible for health care at CHS. The fee covers the cost of most professional services (no office visit charge) provided by CHS physicians, physician extenders, nurses, physical therapists and health educators. The health fee also provides reduced charges for prescription drugs, miscellaneous supplies, laboratory tests, X-rays, medical procedures and specialty services. Spouses not enrolled in the University as students become eligible to receive the same services as students by demonstrating appropriate insurance coverage and by paying the campus health fee at CHS.

Hours of operation vary according to the academic calendar. Hours of operation during the academic year are 8 a.m. to 8 p.m. Monday through Friday, and 8 a.m. to 5 p.m. Saturday and Sunday. Hours of operation in the summer are 8 a.m. to 5 p.m. Monday through Friday. Preferred year round CHS office hours are 9 a.m. to 4:30 p.m., Monday through Friday, when students are seen on an appointment basis. For convenience, please call (919) 966-2281 to verify hours of operation or to schedule an appointment.

After hours care is available from 4:30 p.m. to 8:00 p.m., Monday through Friday, and 8:00 a.m. to 5:00 p.m. on weekends (during fall and spring semesters only). Physician extenders are available with medical and psychiatric back up. After hours services are considered premium services with a visit charge during these times. If other ancillary services are required, an additional fee will apply. Major medical problems may be referred to the UNC Hospitals Healthcare Emergency Department by the CHS staff when open, or by the HealthLink nurse (919-966-2281) when the CHS is closed. Please note: The student health fee does not provide benefits at UNC Hospitals Healthcare or other clinical facilities. Students are
responsible for charges incurred at the UNC Hospitals Healthcare Emergency Department or other clinical facilities.

North Carolina law mandates that all new students at the University document the completion of immunization requirements. Failure to comply may result in cancellation of registration 30 days after classes begin. Vaccines are offered at Campus Health Services at reduced rates for students who need to complete their immunization requirement.

Because the health fee does not cover hospitalization, surgery and intensive care, it is strongly recommended that students are enrolled in a medical insurance plan. The University has made arrangements with Blue Cross/Blue Shield/North Carolina to offer group health insurance coverage, including major medical benefits to single and married students, their spouses and children. Details about this plan are available through Hill, Chesson and Woody (local brokers), at (919) 967-5900; or via their Web site at www.hillichesson.com. For additional information about CHS services, see the Web site at campuseshealth.unc.edu.

The Campus Y's mission of social justice through the cultivation of pluralism guides the activities of this large, vibrant, student-led organization. Seventeen committees offer a variety of service and advocacy opportunities, ranging from tutoring local school children and organizing campus programs on hot topics to traveling abroad to promote nutrition programs. Groups of Y committees come together each year to organize educational and awareness theme weeks in collaboration with other campus organizations, including Race Relations Week, Children's Rights Week and Human Rights Week.

There are also opportunities for student-initiated special projects, social justice entrepreneurship programs, leadership development and serving on the Y officers committee. Students are encouraged to visit the Campus Y offices in the YMCA Building, adjacent to South Building, to learn about these opportunities and campus, community, youth, and global social justice issues.

The Carolina Union, or Union, is the term used for both the Frank Porter Graham Student Union Building and the University department that serves students in many aspects of their co-curricular lives. Governed by a board of directors comprised of students and faculty, the Carolina Union's role is to bring the diverse campus community together by providing programs, services and facilities.

Cultural, educational, social and recreational programs are planned and implemented by the all-student Carolina Union Activities Board.

With a president and committee leaders (selected through open interviews each spring), the Carolina Union Activities Board provides valuable leadership experiences for those involved. Students are welcome to stop by the office in Union 3109 to find out how they may join the committees that create the variety of programs (films, lectures, forums, exhibits and concerts, among others) presented throughout the year.

The Frank Porter Graham Student Union Building also houses several student media organizations (The Daily Tar Heel, Blue and White, Yackety Yack, WXCY and STV), as well as the offices of student organizations such as Student Government, the Graduate and Professional Student Federation, the Black Student Movement, the Carolina Athletic Association and the Residence Hall Association.

Official University recognition of all student organizations is provided through the Union's Office of Student Activities and Student Organizations located in Union 2501. The Office of Events Planning (Union 3105) schedules meeting rooms, program spaces and major event planning of student activities for recognized student organizations and University departments in the Union and in a limited number of other campus facilities.

The Union is the gathering place for the University community. It offers program spaces and meeting rooms, comfortable lounges, art galleries, an auditorium where movie screenings and other activities take place, the Great Hall for large gatherings, big-screen TVs, Alpine Bagels and vending machines, two centers for information services (the Union and South Road Desks) and a box office. A full-service copy center is available as well as wireless online access throughout most areas of the building.

The Carolina Union Box Office sells tickets to numerous on-campus events and performances. The Carolina Union is the place where the campus community comes together - the place to meet friends, to relax, to learn, to have fun and to get involved.

The Office of the Dean of Students (presently located in the basement of Steele Building) works to educate the entire University community, including the faculty and staff, about relevant policies and ways of responding to student-related matters. It serves as an initial point of reference for students who have concerns about issues concerning their campus experience. Through a wide variety of educational programs, the supervision of campus functions, such as the Office of Fraternity and Sorority Life and the Student Judicial System, and the enforcement of University policies such as the Racial Harassment Policy, the Sexual Harassment Policy and the Student Alcohol Policy, the Office of the Dean of Students promotes a positive learning environment in which students may achieve their full academic and personal potential.

The Lesbian, Gay, Bisexual, Transgender and Queer (LGBTQ) Center works to foster a safe, inclusive environment for UNC-Chapel Hill community members of all sexualities, gender identities and gender expressions.

The LGBTQ Office opened in spring 2003 and offers social and educational programs, a confidential peer support and discussion group, drop-in support hours, a resource library with more than 1,000 holdings, and a wealth of information about local organizations and resources. Web site: lgbt.unc.edu.

The Department of Housing and Residential Education serves to provide campus housing to enhance the intellectual climate, inclusive environments that promote student learning and citizenship, and opportunities for involvement and leadership. Housing and Residential Education staff develops and coordinates inclusive learning communities that augment and extend the intellectual climate of the University; it educates and promotes student citizenship, civility and responsibility as well.

Students who live on campus are more likely to interact with professors outside of class, attend cultural events, seek employment on campus and participate in clubs and organizations. By getting involved, students develop an identity with the University community, quickly develop social networks, and find opportunities for intellectual, spiritual, physical and occupational growth.

As the residence halls have changed to meet the needs of students, they have become more than just places to sleep, eat and socialize with friends. In the past few years, the opportunities for students to learn as well as live in the residence halls have broadened, connecting the academic environment and the living environment. Among the offerings at Carolina:

- Learning Communities allow students to live and learn with residents who share an interest in a particular subject or lifestyle. Current Learning Community options include Academic
Enhancement. Language Houses, UNITAS, Health Sciences, Connected Learning, Service and Leadership, Women's experiences and Sustainability. Students play an integral part in the design, leadership and implementation of all programs.

- Program Spotlights

The Connected Learning Program at Cobb Residence Hall

This Learning Community has inquiry and discovery at its core. The Connected Learning Program will facilitate academic excellence through students' pursuit of a passionate intellectual interest. Residents will develop academically based projects that will connect their passionate interests with classroom experiences, campus involvements and the greater community. Possibilities include but are not limited to:

- Projects that join the expertise of different academic departments to explore a common topic through discussions, lectures, film series, concerts and performances or other similar activities
- Projects that connect international experiences to campus classrooms and communities
- Projects that support original research or artistic activity
- Projects in which students pursue deeper understanding and action on contemporary issues

Additional information regarding the Connected Learning Program is available on the Web at housing.unc.edu/communitys/theme/index.html.

Sustainability Learning Community

The Sustainability Learning Community is a residential living and learning program that will be located in the newly renovated Morrison Residence Hall. This community places emphasis on practicing responsible lifestyles related to energy usage, waste disposal and recycling by trying to help members discover what sustainable living entails. This is achieved by focusing on different aspects of sustainable living, including the impact of sustainability measures on the residence hall, campus, local community, state, nation and world. In this manner, this program assists residents in formulating smart, responsible practices suitable to their unique goals and values in a sustainable community.

The Sustainability Learning Community will offer many unique opportunities to interact with faculty, student leaders and the Chapel Hill community. There will be several opportunities expected of students in order to remain in the program, which include attending faculty presentations, participating in a committee to help run the program, volunteering in the community, and a possible field trip outside of Chapel Hill.

- Every residence hall offers direct, in-room connections to the campus computer network, live-in peer “resident computer consultants,” and access to the campus 24-hour computer help desk.
- A wide variety of educational support, learning and recreational programs are offered in every residence hall, including extended quiet study hours, study groups and computer labs.

Expanding the range of housing options available to students has had a measurable impact. Research shows that students living in the residence halls have a much higher graduation rate with higher GPAs. Academic and thematic programs in the residence halls also have been beneficial for increasing faculty involvement and promoting understanding of different aspects of students' lives.

Co-curricular Involvement

Undergraduate students encounter many experiences outside the classroom that contribute to personal and skills development. Involvement in co-curricular activities is one such experience. Through meeting and working with others in co-curricular activities, students gain self-understanding, develop relationships, establish personal values and beliefs, and further enhance their abilities and intellect. Each year the University extends official recognition to approximately 600 co-curricular organizations formed by students. These organizations include but are not limited to academic/preprofessional, cultural, international, honorary societies and service groups, music and performance groups, publications and media, religious groups, fraternities and sororities, sports and recreation clubs, student government and special interest groups. This wide variety allows each student to select areas of particular interest, yet there are no limitations, as students may create new organizations if they have additional interests.

Opportunities exist to gain leadership experience and skills by serving as officers of these organizations. Training in leadership development is offered to members of recognized organizations through the Office of Carolina Leadership Development (Division of Student Affairs). Teaching of program planning, event management and organizational development is available through the Office of Student Activities and Student Organizations, Room 2501, Frank Porter Graham Student Union. There are also opportunities for involvement in community service and related organizations on the campus, such as the Campus Y, APPLES and the Carolina Union Activities Board. Involvement in these organizations provides students with the potential for personal and professional skills development.

Students interested in learning more about how to get involved and about the opportunities available are encouraged to visit the Associate Director for Student Activities and Student Organizations, 2501 Frank Porter Graham Student Union (activities.organizations@email.unc.edu).

Recognition of Co-curricular Student Organizations

The University requires that co-curricular student organizations complete the official University recognition process each academic year. This process is designed to ensure that student organizations affiliated with the University comply with University policies, including the University's Official Recognition of Student Organizations Non-Discrimination Policy (see www.unc.edu/campus/policies/studentorg nondiscrim.html). Official recognition provides student groups access to the following benefits: the privilege of applying for use (through reservation) of specified University facilities, property, services or equipment pursuant to the Facilities Use Policy; use of the University's name in the organization's title, so long as University sponsorship or endorsement is not implied or stated; the privilege of applying for funding from the Student Activity Fee which is legislatively apportioned by the Student Congress; and the assistance of University staff. Applying each year additionally ensures that active students are aware of University policies and provides the University community with current information concerning University-recognized student organizations.

Official University Recognition Agreement forms are available from the Student Organization Resource Center (SIORC), 2501 Frank Porter Graham Student Union. Once the agreement form has been read and signed by the student primary contact and organization's advisor, the application process is completed in a meeting with the associate director for student activities and student organizations.
All information in and attached to the application is considered public information upon the granting of recognition.

The Honor System

For over a century, students at the University of North Carolina at Chapel Hill have accepted responsibility for their own conduct and discipline in academic and nonacademic affairs. Although the specific expectations with regard to student behavior have varied over time, the faith in the individual student's ability to conduct himself or herself in an honorable fashion has not changed. The trust bestowed upon students has precluded the necessity of any extensive system for monitoring student behavior inside or outside the classroom. The honor system has helped to cultivate an atmosphere of trust for students in pursuit of their academic and social activities.

With this trust comes also an added degree of responsibility for students at UNC-Chapel Hill to uphold the Honor Code. The Honor Code forbids lying, cheating and stealing by students, and sets expectations outside the classroom by requiring students to conduct themselves in a manner that does not impair the welfare or the educational opportunities of others.

Each student's acceptance of enrollment in the University presupposes his or her commitment to the Honor Code, and to the principles of self-regulation on which their continued viability rests.

The Honor Code

The Honor Code is the heart of integrity at Carolina. In brief, the Honor Code states that all students shall "refrain from lying, cheating or stealing," but the Honor Code imparts much more. It is the guiding force behind the responsible exercise of freedom, the foundation of student self-governance at UNC. By abiding by the Honor Code, students can be assured that their individual rights and academic work will be respected.

Mutual Responsibilities of the Faculty and Students

Academic work is a joint enterprise involving faculty and students.

Both have a fundamental investment in the enterprise and both must share responsibility for ensuring its integrity. In relation to the Honor Code, therefore, specific responsibilities of the faculty which parallel the responsibilities of the students have been formally adopted by the Faculty Council.

Responsibilities of the Faculty

I. Awareness: To assure that community-wide expectations regarding academic integrity are understood and communicated, and that students are held accountable for conforming their conduct to such expectations.

II. Communicating Expectations and Administering Examinations: To assist students in complying with their responsibilities relating to academic integrity, faculty members, teaching assistants and other instructional personnel should:

A. Use good judgment in setting and communicating clear ground rules for academic work conducted under their supervision.

B. Require students to sign the honor pledge as a condition of submitting academic assignments.

C. Take steps to prevent unauthorized access to examinations during development, duplication and administration.

D. Avoid re-using prior examinations in whole or in part to the extent possible.

E. Take all reasonable steps consistent with physical classroom conditions to reduce the risk of cheating during the administration of examinations.

F. Maintain proper security during the administration of examinations, including as appropriate overseeing distribution and collection of examinations and proctoring the examination session.

III. Oversight: In the event of student misconduct that appears to violate the requirements of the Honor Code, faculty members, teaching assistants and other instructional personnel should:

A. Report to the appropriate Student Attorney General any instance in which the instructor has reasonable basis to conclude that a student under the faculty member's supervision has engaged in academic dishonesty or substantially assisted another to do so in connection with academically related work.

B. In the instructor's discretion, notify the student of the instructor's intention to report the suspected academic dishonesty and permit the student to provide relevant further information if the student chooses to do so.

C. Refrain from taking unilateral punitive action as to a student rather than reporting conduct in suspected violation of the Honor Code.

D. Cooperate with representatives of the Honor System in conducting necessary investigation, providing testimony or other evidence, recommending appropriate sanctions, or otherwise bringing the matter to prompt conclusion.

IV. Involvement: To bring to bear requisite faculty judgment regarding the nature and importance of academic integrity, and to nourish a strong campus-wide understanding and commitment to associated intellectual and personal values, faculty members, teaching assistants and other instructional personnel should:

A. Explore issues of integrity in connection with instructional activities where relevant and appropriate.

B. Encourage their academic units to take matters of academic integrity seriously, become informed regarding related problems and advisable means of preventing problems from arising, and provide requisite training and support to instructional personnel.

C. Participate upon request as part of educational initiatives, faculty advisory panels and University Hearing Boards designed to create, nurture and enforce high standards of academic integrity within the University community.

Responsibilities of Students

In order to ensure effective functioning of an Honor System worthy of respect in this institution, students are expected to:

I. Conduct all academic work within the letter and spirit of the Honor Code, which prohibits the giving or receiving of unauthorized aid in all academic processes.

II. Consult with faculty and other sources to clarify the meaning of plagiarism, to learn the recognized techniques of proper attribution of sources used in the preparation of written work, and to identify allowable resource materials or aids to be used during examination or in completion of any graded work.

III. Sign a pledge on all graded academic work certifying that no unauthorized assistance has been received or given in the completion of the work.

IV. Comply with faculty regulations designed to reduce the possibility of cheating - such as removing unauthorized materials or
aids from the room and protecting one's own examination paper from the view of others.

V. Maintain the confidentiality of examinations by divulging no information concerning an examination, directly or indirectly, to another student yet to write that same examination.

VI. Treat all members of the University community with respect and fairness.

VII. Report any instance in which reasonable grounds exist to believe that a student has given or received unauthorized aid in graded work or in other respects violated the Honor Code. Such report should be made to the Office of the Student Attorney General, the Office of the Dean of Students, or other appropriate officer or official of their college or school.

VIII. Cooperate with the Office of the Student Attorney General and the defense counsel in the investigation and hearing of any incident of alleged violation, including the giving of testimony when called upon.

**Procedure for Reporting**

Members of the University community who wish to report possible violations of the Honor Code should contact the Student Attorney General (966-4084) or the Office of the Dean of Students (966-4042). Faculty members who have cause to report a student should use the online report form available at the following Web site: honor.unc.edu.

**Student Government**

The by-laws of the Board of Trustees of the University invest in the Chancellor of the University "the duty...to exercise full authority in the regulation of student conduct and in matters of student discipline..." At the same time the Chancellor may delegate, and has delegated, authority to exercise disciplinary and administrative functions in student life to agencies of Student Government. Thus, within the context of this delegated authority and responsibility, the student body at the University has for decades been self-governing.

Student Government at Carolina is more than 100 years old, and hundreds of students are involved in the various branches every year. From serving on the Board of Trustees to the appropriation of student fees, from instituting governmental service to enforcing the Honor Code, Student Government affects every day of student life.

The entire framework of Student Government's activities rests on its ability to maintain the foundation of administrator-student relations. The University should serve as an advisor - not as a supervisor to the student body. In order to enjoy this freedom, students at Carolina must be willing to take a certain amount of responsibility to develop their own lifestyles. Student Government serves to maintain this freedom and the advisory, not supervisory, relationship.

In 1876 the Honor System officially ended all vestiges of the monitorial system; in 1904 a judicial body, the University Council, was established; in 1938 the Student Legislature was established; and in 1946 a written constitution was approved. In 1968 the coeducational Honor Court was formed out of the Men's Court and Women's Court to hear all Honor Code cases. The *Instrument of Student Judicial Governance* was ratified and put into operation in 1974 and was significantly revised in 2003.

Roughly patterned after the federal system of government with its three branches, Student Government at UNC-Chapel Hill consists of an executive branch, a legislative branch and a judicial branch. Heading the executive branch is the President of the Student Body, assisted by the Vice President, Executive Assistants and the Treasurer. The President designs a Cabinet and committees to work in areas of student concern.

Listed below are some of the officers and the three branches of Student Government:

**A. Executive Branch.** This group serves as the official voice of the student body to the University and broader community, including the Town of Chapel Hill and State of North Carolina. Major officers include the Student Body President, Student Body Vice President, Student Body Treasurer and Student Body Secretary. Other officers include committee chairs overseeing hardship parking, elections board, student services, information technology, student affairs, minority affairs, human relations and public service (as determined by the needs of the student body).

**B. Honor Court.** The Honor Court hears all cases involving potential violations of the Honor Code. There are separate courts for undergraduate students, graduate students and students in the schools of law, medicine, dentistry, pharmacy and business.

**Office of the Student Attorney General.** The appropriate Student Attorney General investigates all potential violations of the Honor Code. Staff members also present cases to the Honor Court and assist students accused of violating the Honor Code.

**University Hearings Board.** These boards are made up of faculty, staff and students. The University Hearings Board generally hears appeals of Honor Court cases.

If you are interested in serving on the Honor Court or the Student Attorney General's staff, contact the Honor System Office (919-966-4084) for information about how to apply.

**Student Supreme Court.** This court adjudicates all issues of student constitutional law to be decided under the Student Government Code.

**C. Legislative Branch**

**The Student Congress (SC).** The legislative branch of Student Government is unicameral (one house), consisting of 37 representatives elected by the student body, with the Student Body President and the Student Body Treasurer serving as nonvoting ex officio members. The Speaker of the SC is elected from among the 37 representatives. Graduate and professional students and on- and off-campus undergraduates are proportionally represented in the Congress.

The Congress handles a vast amount of legislation and, as one of its primary responsibilities, prepares an appropriations budget. Established by student and University committees before approval by the Board of Trustees, a predetermined amount of fees paid by each student provides the source of funds for Student Congress Annual Allocation and Subsequent Appropriations Budgets to be allocated to petitioning student organizations which have received official University recognition. The Student Body can petition for changes in their student activities fee at any time.

The representatives are elected in the spring for one-year terms, and each member serves on one of three standing committees - Finance, Rules and Judiciary, and Student Affairs. A fourth committee, Ethics, is composed of senior members of the Congress.
Facilities and Services

The University of North Carolina at Chapel Hill is determined to maintain physical and instructional facilities that respond to increased enrollments while remaining commensurate with the University's standards of academic excellence. Supplementary facilities and modern equipment have been added to older classrooms and laboratories, and new buildings have been constructed and new programs developed that aid the students' academic progress and enhance their total education. The following information describes the University's facilities and services.

Ackland Art Museum

The Ackland Art Museum, on Columbia Street just south of Franklin Street, houses an internationally known collection of more than 15,000 works of art from Asia, Africa, Europe and America, ranging from antiquities to contemporary objects. The collection includes North Carolina's premier collection of Asian art and works on paper (drawings, prints and photographs). In addition, the museum holds significant collections of European masterworks, 20th-century and contemporary art, African art, and North Carolina pottery and folk art. Find out about exhibitions, programs and special events by calling the Ackland at (919) 966-5736 or visiting the museum's Web site at www.ackland.org.

About 6,000 of the Ackland's 45,000 annual visitors are university students who use the museum to support their academic work in courses across the curriculum. To find out more about the creative learning opportunities the Ackland can offer, and to schedule class sessions at the museum, call the educator for university audiences at (919) 962-3343 (voice) or 962-0837 (TTY). Students with an interest in fine arts and public service are encouraged to become involved as volunteers at the Ackland. Volunteer opportunities include special events staffing, event photography, general administrative support and staffing the Ackland Visitor Services desk. For more information, please contact the museum's volunteer coordinator at (919) 843-3676. Students are encouraged to join the Student Friends of the Ackland Art Museum. Student Friends receive all general membership benefits as well as invitations to private cultural, professional and social events planned by and for Student Friends.

Information Technology Services (ITS)

UNC-Chapel Hill's central technology and telecommunication services are organized within Information Technology Services (ITS).

Via the Web services provided by ITS, applicants to Undergraduate Admissions can apply to the University, view academic records, and update permanent and grade billing addresses online. Additional information about the information technology and telecommunication services and resources ITS provides to Carolina's campus can be found at its.unc.edu. The list below provides new students with the "Top 10 ITS Resources" that will ensure a smooth transition into Carolina's campus.

No. 1: ITS Response Center (also known as the ITS Help Desk)

The ITS Response Center offers free technical support to UNC-Chapel Hill students, staff and faculty for desktop and laptop computers, Internet issues, software questions and more. Students can contact the ITS Response Center using one of several convenient methods:

- Online: help.unc.edu (with step-by-step guides, documentation, and frequently asked IT questions)
- By phone: (919) 962-HELP (4357). The telephone line is staffed 24 hours a day, seven days a week
- In person: R. B. House Undergraduate Library basement or the Student and Academic Services Building.

No. 2: E-mail

All enrolled UNC-Chapel Hill students must have an ONYEN, a login ID known at Carolina as the "Only Name You'll Ever Need." Only with an ONYEN can students access campus online services and create campus e-mail accounts. Since the University uses e-mail for official communications to students, every student must have a University e-mail account. To create an ONYEN or to subscribe to online services, go to https://oneyen.unc.edu

No. 3: ResNET (Residential Networking, Education and Technology)

The ITS ResNET team is responsible for providing on-site IT support and IT training for on-campus residents. The program is one of the largest in the nation and the staff is made up of students who live in residence halls. ResNET is also in charge of providing high-speed wired networking to each residence hall room and Wi-Fi (wireless) networking in lounges and other common areas. With residential networking services, Carolina students can e-mail professors, have online discussions with classmates, access UNC-Chapel Hill's online library services and surf the Web. Note that Granville residents also have direct Internet access, although it is provided by a third party. Learn more about ResNET and its services at its.unc.edu/resnet.

No. 4: Cable TV (ResTV)

University residence halls are equipped with connections to the ResTV system with 42 channels of informational, educational and entertainment programming free of charge (all costs are included in basic room rental). Optional premium services are available for a small fee. Additionally, ITS makes SCOLA, foreign language news broadcasts, available 24 hours a day. Language majors use this service in their studies, and international students especially enjoy hearing the news from home in their native language. Learn more about ResTV at www.telecom.unc.edu/student.

No. 5: Computer Labs

ITS manages and supports student computing labs, located in libraries and academic buildings, with a standard selection of software. More information about the labs is available at its.unc.edu/labs/index.php or by calling (919) 962-6702.

No. 6: Local and Long Distance Telephone Services

All residence halls and student family housing units are equipped with active local telephone service. Telephone handsets must be provided by student residents. Long distance accounts, voice messaging service, and other local service options may be added by contacting the Student Telecommunications Office at (919) 962-2700. All Student Telecommunications offerings are detailed at www.telecom.unc.edu/student/telecom.
**No. 7: ITS Training and Education**

ITS Teaching and Learning offers face-to-face workshops, online tutorials and computer-based training (CBT). CBT allows any UNC-Chapel Hill student with a computer and an Internet connection to choose from more than 2,800 computer-related and business skills online courses. For more information, go to learnt.unc.edu.

**No. 8: AFS Data Storage**

UNC-Chapel Hill campus members with a valid ONYEN (see No. 2 on this list) are eligible to receive, at no charge, an entitlement of data storage space. Go to the help.unc.edu site and complete a search for “AFS” to learn about requesting your data storage space allocation.

**No. 9: Software**

ITS Software Acquisition provides access to software for students, staff and faculty at UNC-Chapel Hill. This includes licensed software that is often free but may have a fee, and free shareware software. For more information, visit https://software.unc.edu/available.php and https://shareware.unc.edu.

**No. 10: Computer Repair**

The ITS Response Center includes one of the largest authorized Lenovo repair centers in the Southeast. Carolina Computing Initiative (CCI) customers can drop off computers at the ITS Response Centers in the Undergraduate Library or the Student and Academic Services Building for repairs authorized by Lenovo. Should you have another type of computer (Dell, Gateway, etc.), the ITS Response Center can typically assist you with software repairs.

Remember that whether you contact them in person, online or on the phone, the staff of the ITS Response Center are ready to answer your technology and telecommunications questions. Go to help.unc.edu or call 962-HELP 24 hours a day, seven days a week.

**The North Carolina Botanical Garden**

The North Carolina Botanical Garden is a center for the study, display, interpretation and conservation of plants and of the natural areas of which these plants are a part. Garden staff administer several sites, including the 75-acre display gardens and nature trails, Coker Arboretum and Battle Park in the heart of the campus, and the 367-acre Mason Farm Biological Reserve. The garden’s main visitor site, including the Totten Center, display gardens and nature trails, is located near the intersection of Manning Drive and Fordham Boulevard (U.S. 15-501 Bypass) on the UNC-Chapel Hill campus. The garden emphasizes the botany, ecology and horticultural uses of southeastern native plants and maintains natural habitat gardens representing North Carolina’s coastal plain, piedmont and mountains. Other collections include perennial displays, rare and aquatic plants, a garden of flowering plant families, an extensive carnivorous plant display, an accessible gardening demonstration area, and the award-winning Mercer Reeves Hubbard Herb Garden. The historic Coker Arboretum, 100 years old in 2003, is revered by students, faculty, alumni and other visitors. The five-acre arboretum in the heart of the UNC campus features a collection of native and exotic trees, shrubs and herbaceous plants growing amid lawns intersected by brick and natural paths. The Campus-to-Garden trail through the Coker Pinetum provides a walking route from campus to the Totten Center and gardens. The Botanical Garden sites constitute an outdoor laboratory and museum that support University teaching and research. They offer a variety of opportunities for general education and quiet recreation in the display gardens and nature trails; in the garden’s public classes, workshops and lectures; and in interpretive exhibits. The UNC Herbarium, which became a part of the Botanical Garden in June 2000, houses more than 750,000 pressed plant specimens, the largest such collection in the southeastern United States. The herbarium serves faculty, students and researchers across the nation and worldwide, both on-site and through the loan of specimens by mail.

Development of digital and electronic technology is making possible the loan of virtual specimens via the Internet. Admission to all Botanical Garden sites is free. University students, faculty and staff are welcome and encouraged to use garden sites for education, research, recreation and contemplation. They are welcome, as well, to become members of the Botanical Garden Foundation, Inc., the garden’s membership support organization. Call (919) 962-0522 for student, individual and family rates. Members receive the garden’s bimonthly newsletter and other benefits, including discounts on class registration fees and invitations to special member events. Information about the Botanical Garden’s programs and properties can be found on the Web at www.ncbg.unc.edu.

**Campus Safety**

The UNC Department of Public Safety is committed to the creation and maintenance of an environment where students, employees and visitors to campus can feel safe in this vital community. Though its philosophy of Community Oriented Policing (COP), the department strives to employ professionalism, problem solving and innovative strategies to remain one of the premier public safety agencies in the nation.

Public Safety needs your help in achieving its high standards of excellence. Visit the department’s Web site at www.dps.unc.edu and familiarize yourself with security enhancements like the Point-to-Point transportation system, the campus-wide network of emergency call boxes, self-defense instruction and other crime prevention classes, and much more.

Other initiatives by the UNC Department of Public Safety include a renewed emphasis on bike patrols and the recent establishment of a Community Response Unit, comprised of the department’s successful Larceny Reduction Unit and its highly visible Traffic and Pedestrian Safety Unit, housed in a centrally located substation in the Rams Head Center. Main administrative offices are in the Public Safety Building atop Hardin Drive off Manning Drive (adjacent to Morrison Residence Hall).

The department hopes that the information presented through contact with its officers and through its Web site helps UNC partner with it in the mission of protecting North Carolina’s future.

**Emergency Disciplinary Action**

In order to protect University property or members of the University community or to prevent disruption of the academic process, occasionally the University must take emergency action to separate a student from the University. The Chancellor has, therefore, created the Emergency Evaluation and Action Committee. With respect to disciplinary matters, the committee acts only when no other administrative solution, including action by the Student Judicial System, is in its judgment adequate to deal effectively with the situation.

Students whose cases may require action by the committee fall into five categories:

A. Applicants for admission or readmission to the University who have been convicted of a crime involving assaultive or felonious
behavior, who have a record of violent behavior or who have a record of academic dishonesty or disciplinary rule violations elsewhere;

B. Students whose behavior, on or off campus, is such that their presence in the University, in the judgment of the committee, poses a serious threat of disruption of the academic process or a continuing danger to other members of the University community or University property;

C. Students or applicants who have been arrested and charged with a serious crime of a violent or dangerous nature, or a serious crime that involved placing another person in fear of imminent physical injury or danger, where, in the judgment of the committee, if the students are found guilty, their presence in the University would pose a serious threat of disruption of the academic process or a continuing danger to other members of the University community, or University property;

D. Students, charged by the University with a violation of policies concerning illegal drugs, whose continued presence within the University community would, if the charges are true, constitute a clear and immediate danger to the health or welfare of other members of the University community.

E. Students whose behavior on or off campus is such that, in the judgment of the committee, they pose a danger to themselves.

Full information on the committee and its procedures is available from the Division of Student Affairs through the office of the Dean of Students. The text of the committee's policy and procedures is on the Web at www.unc.edu/policies/tapedec88.pdf.

The Library System

The UNC-Chapel Hill Library System is one of the premier libraries in the South. Everyone is welcome to use all campus libraries, including the House Undergraduate Library, Davis Library, Wilson Library and numerous campus libraries with various subject specialties. The libraries’ Web page (www.lib.unc.edu) contains links to research databases, e-journals and e-books, and information about the libraries.

The Robert B. House Undergraduate Library serves the unique needs of undergraduates. Features include all-night hours, quiet and group study space, online and print reserves, audio and video production and editing facilities, computer workstations and network connections, the ATN help desk and a computer lab, and a student lounge.

Students who need help getting started with a project can instant message a librarian at undergradref.

Morehead Planetarium and Science Center

The Morehead Building, home to one of the largest planetariums in the United States, is located on the north end of the University campus. The Morehead Building and its grounds, complete with a 68-foot, domed Star Theater, scientific exhibits, gift shop, 24-inch reflecting telescope, observation decks, Visitors' Center, Genevieve B. Morehead Art Gallery, rotunda and rose garden with a massive sundial, were built for students and the people of North Carolina. For the future, the planetarium will be the cornerstone for an expanded Morehead Planetarium and Science Center (MPSC) that will blossom over the next few years.

Public star shows, which run weekends and Thursday through Saturday evenings at the planetarium, explore the latest topics in astronomy and space science (see www.moreheadplanetarium.org for current show schedule). From the Hubble Space Telescope to space probes targeting the planets, the star shows encourage exploration of the universe for all ages. MPSC staff members often host "Carolina Skies," a popular live, interactive narrated show. Weekend matinees give children a chance to explore the stars through shows such as "Magic Tree House® Space Mission." Many planetarium productions are Morehead originals, produced on the UNC-Chapel Hill campus.

In addition to Star Theater shows, MPSC offers science-themed movies and live experiential science shows in its NASA Digital Theater. Changing exhibits, showcasing University research in the sciences, are featured in the Lower Exhibit Gallery. The planetarium generates involvement from the entire community through non-credit classes for adults and children, summer camps, guest speakers, special programs, public observing sessions of astronomical events and memberships at a variety of levels.

The Morehead Building and its planetarium were gifts of industrialist John Motley Morehead III (1870-1965), class of 1891, whose mission of science education and outreach to the general public is realized through the planetarium's programs. Since 1949, the Star Theater has been a giant classroom for students, teachers, school groups, senior citizens, youth groups and the general public. An early contributor to the American space program, the Morehead Planetarium provided training for United States astronauts from the Mercury, Gemini, Apollo, Skylab, Apollo-Soyuz and early Space Shuttle programs. The Morehead Building serves as the University's academic front door. In addition to the Star Theater, the John Motley Morehead Foundation and the UNC-Chapel Hill Visitors Center are housed within the building, while the UNC Department of Physics and Astronomy and the UNC-Chapel Hill Undergraduate Admissions Office also have a presence here. The dome dining room, 350-seat Banquet Hall and Faculty Lounge within the building serve a variety of special event functions.

Beyond the Morehead Building's walls, MPSC provides science outreach to North Carolina schools through its DESTINY traveling science learning program. DESTINY serves pre-college teachers through professional development workshops and through school visits from its mobile laboratories.

University News Services

University News Services is the official media relations agency for the University. Part of the Office of University Relations, News Services promotes Carolina by providing information to international, national, state and local media outlets.

Established in 1918, News Services is one of the oldest offices of its kind in the United States. Today, its primary role continues to be keeping the people of North Carolina, the nation and the world informed about the University's teaching, research and public service activities.

News Services meets the University's media relations needs by:

- writing and distributing news releases, advisories, tip sheets and photographs on topics ranging from upcoming cultural and academic events to the latest University research. Placement efforts target wire services, newspapers, magazines, specialty publications, and radio and television stations.

- suggesting story ideas and responding to reporters' requests for expert faculty and administration sources and general information. Media calls are the top priority; the goal is to respond accurately, candidly and as quickly as possible.
counseling the University community about media relations. This support ranges from advice on specific situations to workshops on how to talk to reporters.

News Services is a resource for the University community. Staff members work with national, state and local media every day and can answer questions about what reporters do and why. If you have questions or concerns about the media, please call (919) 962-2091 or access www.unc.edu/news/newserv.

Physical Education and Athletics

Physical education and recreational sports facilities include Woollen and Fetzer gymnasia; multiple outdoor fields, indoor and outdoor pools. Finley Golf Course, the Student Recreation Center, tennis courts and others. Varsity athletic teams compete at Carmichael Auditorium, Boshamer Baseball Stadium, Henry Stadium, Kenan Stadium, Koury Natatorium, Fetzer Field, the Dean E. Smith Center and other modern venues.

Physical education and athletics play an important role in undergraduate activity. Formal courses in physical education are required of first-year students. Varsity teams compete with those of comparable institutions and often achieve national rankings. Intramural teams are numerous, and competition among residence halls and student organizations is spirited.

PlayMakers Repertory Company and Department of Dramatic Art Performances

PlayMakers Repertory Company, located on the UNC campus and associated with the Department of Dramatic Art, is a full-season professional Equity Theatre and a member of the League of Resident Theatres (a national association of nonprofit regional theatres). Each year, guest professional directors, designers and actors work with the resident company of faculty, resident artists and qualified pre-professional students to produce a season of five or six plays. The varied repertory includes a mix of classic and modern plays during a 40-week season.

Undergraduate students have the unique opportunity to work with resident and guest artists in every aspect of professional theatre: administration, stage management, box office, costumes, properties, set construction, lighting, sound, assistants to the directors and acting (in appropriate roles). Auditions are held regularly for productions with PlayMakers Repertory Company.

The Department of Dramatic Art produces fully-staged, faculty-directed plays (known as DDA Mainstage) each semester and sponsors a variety of other productions such as DDA Advanced Showcase, a venue for experienced student directors. A playwright's program known as DDA Playwriting Studio provides a showcase for new student writing, including readings, fully produced plays and the Samuel Selden Playwriting Prize contest. The student-produced Lab! Theatre mounts eight shows a year, fully supported by the department and performed at Historic Playmakers Theatre on Cameron Avenue and the new Elizabeth Price Kenan Theatre at the Center for Dramatic Art. These are low budget productions with a limited number of performances. The emphasis in the Lab! Theatre is on the acting and directing experience. All productions mounted in the Lab! Theatre are selected and produced by a three-member student board elected in the spring.

Radio Stations

WUNC (FM) has been licensed to the University of North Carolina at Chapel Hill since 1952. In 1976 the station was recognized as a full-service public radio station by the Corporation for Public Broadcasting and became a member of National Public Radio. WUNC operates as a noncommercial educational station, partially supported by listener contributions, with 100,000 watts of power at 91.5 FM. The station offers educational and cultural programming as a public service to the community and provides training opportunities for students under the direction of its professional staff. Find out more about the station at www.wunc.org.

WXYS 89.3 FM is a 400-watt progressive music station broadcasting from UNC's student union. Founded in 1977, the station is run primarily by students, who make up the majority of the 140-person staff. WXYS is on the air 24 hours a day, 365 days a year and has long been recognized as a programming innovator by the community and by the music industry.

Block programming at WXYS is limited, with an emphasis instead on an eclectic mix of music. This includes regular rotation of new releases from local, national and international acts, plus music drawn from throughout the 20th and 21st centuries. WXYS's playlists include rock, jazz, blues, reggae, hip-hop, techno, soul, country and traditional artists from a broad range of cultures. The station's programming also includes news, talk and sports shows; the emphasis is on variety and a balanced mix of the familiar, new and unusual. In 1994 WXYS became the first radio station in the world to continuously rebroadcast its live signal over the Internet. Listen and find out more about the station at www.wxys.org.

The Research Laboratories of Archaeology

The Research Laboratories of Archaeology is one of the preeminent institutes for archaeological research in the South. Located on the first two floors of the Alumni Building, its facilities include laboratories, a library, a darkroom, microcomputers and extensive collections of archaeological records and artifacts. The collections consist largely of materials excavated from North Carolina and adjacent states. They also contain ethnographic and archaeological specimens from Latin America, Europe, Africa and Asia. Exhibits on North Carolina archaeology are maintained on the first floor of the Alumni Building and are open to the public during normal business hours.

This unit regularly holds public programs on archaeology for students and community members alike. It also provides numerous opportunities for undergraduates to participate in archaeological research. Students interested in archaeology are encouraged to visit the Laboratories.

Cultural Activities

Carolina's students, faculty and staff participate in and attend a variety of cultural activities. Here is a sampling:

- The Department of Music sponsors concerts and lectures by faculty, guest artists, student ensembles and visiting scholars. Special events include the William S. Newman Concert Series, opera productions, the Annual Jazz Festival, and the biennial Festival on the Hill. A large number of ensembles (orchestras, choirs, bands) are open to all students, while non-major courses on all aspects of classical and popular music are a prized part of the general curriculum. For further details, see music.unc.edu.

- The Department of English and Comparative Literature sponsors a yearlong program of public lectures and readings by students, teachers and local writers. There are frequent public lectures and readings by visiting scholars and writers. When new books are published by local writers and faculty members, receptions and autograph parties are held in the student bookstore.
Religious Activities

Campus Ministers' Association

The Campus Ministers' Association at UNC-Chapel Hill seeks to work cooperatively, respecting the learnings from the distinctive and enduring legacies of different religious communities, and developing interfaith educational programs that emphasize common values. Baptist, Episcopal, North Carolina Hillel, Lutheran, Orthodox, Presbyterian, Roman Catholic and United Methodist are members. Meeting times for these groups are as follows:

Episcopal

Episcopal Campus Ministry (ECM) at Chapel of the Cross 304 E. Franklin St. (next to Morehead Planetarium) Tuesdays at 5:30 p.m. – worship, dinner, fellowship Chaplain: The Rev. Tambria E. Lee Telephone (919) 929-2193 tlee@chapelofthecross.org www.unc.edu/ecm

Jewish

North Carolina Hillel 210 W. Cameron Ave. Fridays at 6:15 p.m. – Sabbath services and dinner Josh Blumenthal, Director Telephone (919) 943-4057 josh@nchillel.org

Lutheran

Lutheran Campus Ministry 300 E. Rosemary St. Wednesdays at 5:30 p.m. – Eucharist and student meal Rev. Mark Coulter, Campus Minister Telephone (919) 942-2677 mcoulter@email.unc.edu www.holytrinitychapelhill.org

Orthodox

Orthodox Christian Fellowship 414 Summerwalk Circle Chapel Hill, NC 27517 John Stonestreet, OCF Chaplain Telephone (919) 624-9479 johno@ocf.net www.orthodoxunc.com

Presbyterian (USA)

Presbyterian Campus Ministry 110 Henderson St. Thursdays at 6:00-7:45 p.m. – student dinner and program Rev. Caroline Craig, Campus Minister Telephone (919) 967-2311 pcm@email.unc.edu www.unc.edu/pcm

Roman Catholic

Newman Catholic Student Center Parish Catholic Campus Ministry 218 Pittsboro St. Wednesday student nights at 5:30 – dinner and program Rev. John Gillespie, Pastor and Campus Minister Kelly Dunlop, Associate Campus Minister Telephone (919) 929-3730 newman@unc.edu www.newman-chapelhill.org

United Methodist

Wesley Foundation 214 Pittsboro St. Sundays at 7 p.m. – worship Wednesdays at 5:30-8:00 p.m. – communion, dinner, and program Rev. Jan Rivero Telephone (919) 942-2152 wesleyunc@bellsouth.net

Evangelical Campus Ministries Association

The Evangelical Campus Ministries Association (ECM) is an organization of leaders from various evangelical Christian groups that gather regularly for mutual support, discussions of campus life and ministry, and sharing of information. The members of ECM are listed below.

For more information about ECM, please contact Brad Novosad, (919) 968-4120, novosad@email.unc.edu.

Baptist Campus Ministry

203 Battle Lane Thursdays at 5:45 p.m. Rev. Lee Sullens, Campus Minister Telephone (919) 942-4266 leesullens@unc.edu www.unc.edu/student/orgs/bsu

Campus Christian Fellowship

Dean Owens – Campus Minister 204 Glenburnie St dean@email.unc.edu Office: (919) 942-8952 www.unc.edu/ccfhouse

Campus Crossroads

Justin Wright – Pastor Box 126 FPG Student Union UNC-Chapel Hill, CB#5210 Chapel Hill, NC 27599-5210 (919) 667-5678 info@campuscrossroads.org www.campuscrossroads.org

Campus Crusade for Christ

Miles O'neill 12 Balthrope Pl Chapel Hill, NC 27517 (919) 933-7331 miles.oneill@uscarm.org carolinacru.org

Chi Alpha Christian Fellowship

Gina Archer 200 NC 54 East, Apt 208N Carrboro, NC 27510 (919) 423-0539 ginaarcher@yahoo.com www.xa-unc.com
Campus Connection
Grace Church
Brad Novosad
200 Sage Road
Chapel Hill, NC 27514
(919) 968-4120
brad@gracelife.com
www.gracelife.com

InterVarsity Christian Fellowship
Alex Kirk, Area Director
5501 Lacy Road
Durham, NC 27713
(919) 730-7414
alex_kirk@ivstaff.org
www.unciv.org

Jennifer Hagin, Undergrad
364 Summerwalk Circle
Chapel Hill, NC 27517
(919) 923-5700
jennifer_hagin@ivstaff.org

Jim Herman, International Student Ministry
(919) 824-7780
jimivism@bellsouth.net

Dave Shepley, Greek Ministry
4800 University Dr., #3N
Durham, NC 27707
(919) 452-7437
shep@unc.edu

Hank Tarlton, Grad Ministry (Focus)
5602 McCormick Rd.
Durham, NC 27713
(919) 619-6141
htarleton@mac.com

Reformed University Fellowship
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FINANCES AND FINANCIAL AID

Student Finances

Living Expenses

Expenses for the 2006-2007 academic year (two semesters) were approximately $15,250 for an in-state student and $30,448 for an out-of-state student. These expenses are listed separately below.

Tuition and fees are assessed on a semester basis. Any past due charges must be paid prior to registration. Students registering in Early Registration will be mailed a bill at their billing address prior to the beginning of that term. To avoid registration cancellation, tuition, fees and housing must be paid or deferred by the due date on the bill. All past charges must be paid to avoid cancellation. Students who are receiving financial aid and wish to defer payment of upcoming term charges must complete the Tuition, Fees and Housing Deferment Form on the back of the bill and send it to the Office of Student Accounts and University Receivables along with a payment for any unfunded balance due by the due date on the bill. Students registering during Term Registration must either pay tuition and fees or provide the Office of Student Accounts and University Receivables with documented eligibility of financial aid plus payment for any previous charges or unfunded tuition and fees prior to being cleared to register.

It is extremely important for students to refer to the online Directory of Classes, which is produced by the University Registrar (see regweb.unc.edu/resources/directory.php), prior to each semester or summer session and to follow instructions concerning payment/delay due dates to avoid registration cancellation. If the student’s billing address is that of a parent, the student should notify the parent of the importance of the due date on the bill and that a registration cancellation will occur if either the full payment or the deferment and payment for any unfunded balance are not received on time.

Payment Methods

By mail or in person: Cash (in person only), money order, check or cashier's check. All payments must be in U.S. dollars. Checks and cashier’s checks must be drawn on a U.S. bank. Please note the student’s PID on any check, cashier’s check or money order.

Online payment from your checking account: This option is available only through studentcentral.unc.edu, Monday - Friday from 7:30 a.m. to 5 p.m., excluding holidays. To make a payment, click on the “pay your bill” option under the Cashier Services section. There is currently no transaction fee for the use of this online service. Online payments from your checking account must be drawn from a U.S. bank. This new method currently allows only students to make online payments from their checking accounts. Students can access their account on studentcentral.unc.edu by using their ONYEN and password. The Office of Student Accounts and University Receivables is exploring options that will allow parents to do the same.

Credit card: ONLINE ONLY through studentcentral.unc.edu or cashiers.unc.edu, Monday - Friday from 7:30 am. to 5 p.m., excluding holidays, with your credit card (MasterCard or Diners Club card only). There is a 2 percent nonrefundable transaction fee for the use of this online service.

By installment plan: Offered through Tuition Management Systems, Inc. (TMS). Eligible expenses are tuition, fees, meal plans and on-campus housing. To enroll: Tel. 1-800-722-4867; Web: www.afford.com.

By financial aid: Deferment is available if the student is receiving verifiable financial aid.

For up-to-date information on payment options, please visit cashiers.unc.edu/paymentoptions.htm.

Expenses for an undergraduate student for the 2006-07 academic year included:

<table>
<thead>
<tr>
<th></th>
<th>NC Resident</th>
<th>Non-resident</th>
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<tbody>
<tr>
<td>Tuition</td>
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<tr>
<td>Fees</td>
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<td>Books and Supplies</td>
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</tr>
<tr>
<td>Personal Expenses</td>
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<td>1,120.00</td>
</tr>
</tbody>
</table>

* For the most updated information, please visit www.studentaid.unc.edu.

Mandatory student fees include Student Health Service, Athletic Association, APPLES Program, Intramural Recreation Program, Safety and Security, Student Body Scholarship, Student Endowment Library Fund, Student Government, Student Legal Services, Student Recreation Center operating expense, Student Union operating expense, Undergraduate Teaching Award, Student Facilities Debt Service, Student Dining Debt Service, registration fee, transit fee, and an educational and technology fee. All new students are required to pay an orientation fee (first-year students $42, junior transfer students $29). In addition to these fees, special lab and designated program fees also may be charged. The returned check fee is $25 and the late registration fee is $20.

Students who are over age 65 and are North Carolina residents may qualify for waiver of their tuition and fees. Students must complete and then submit a “Request for Waiver of Tuition and Fees for Senior Citizens” to the University Cashier.

Each student is responsible for payment of his or her University charges. If a third party will be paying the charges, the Office of Student Accounts and University Receivables should be notified well in advance so that arrangements can be made, if possible, for a separate invoice to be sent to the proper agency or organization in order to ensure timely payment.

Students who are expecting to receive financial aid or scholarship funds should bring with them sufficient funds (cash or traveler’s checks) to take care of living expenses for approximately 15 days. This should provide sufficient time for financial aid or scholarship funds to be made available.

The last day to reduce a course load for credit on a student's financial account is two weeks from the first day of classes for each semester. Dropping the only course requires official withdrawal.

In case of withdrawal from the University, tuition and fees will be prorated over a period of nine weeks at an approximate rate of one-tenth of the semester’s charges per week. The last date for credit on a student’s financial account for withdrawal is nine weeks after the first day of classes.
Educational Tax Incentives
The Hope Scholarship Tax Credit provides for up to $1,500 tax credit for qualified tuition and fees paid during the year on behalf of a student who is enrolled at least half-time for at least one academic period in a program leading to a degree or certificate at an eligible post-secondary institution. The Lifetime Learning Tax Credit is available for students who are not eligible for the Hope Credit or for students as an alternative to the Hope Credit. For more information regarding the tax credits, please contact a tax professional or the IRS at (800) 829-1040 or www.irs.ustreas.gov.

Twenty-five Percent Tuition Surcharge
As required by the NC General Assembly Senate Bill 27, students who take more than 140 degree credit hours to complete a baccalaureate degree in a four-year program or more than 110 percent of the credit hours necessary to complete a baccalaureate degree in any program officially designated by the University of North Carolina Board of Governors as a five-year program, are to be assessed a 25 percent tuition surcharge. For further explanation of how the degree credit hours are determined, visit the Web site regweb.uit.unc.edu.

Direct Deposit of Financial Aid Funds
For students who are receiving financial aid in excess of tuition, fee, housing and meal plan costs, the Office of Student Accounts and University Receivables will deposit excess funds from your student account to either a checking or savings account at your bank. Please return a Direct Deposit consent form to the Office of Student Accounts and University Receivables as soon as possible. It will take eight to 10 business days to validate the bank account information. You must inform the Office of Student Accounts and University Receivables of any changes to your banking information.

Scholarships and Financial Aid
studentaid.unc.edu
aidinfo@unc.edu

The University of North Carolina at Chapel Hill has a long-standing commitment to assure that qualified students have the opportunity to study at the University, regardless of their ability to pay the full costs of attendance. Tuition at UNC-Chapel Hill is lower than at most other major universities, and an education at the University is an outstanding value. To help students meet their costs, the University provides through the Office of Scholarships and Student Aid a comprehensive program of financial aid. Scholarships, grants, loans and job opportunities are awarded to meet the difference between the costs of attendance and the amount the student and family should be able to pay toward expenses. There are also loan programs open to all students, regardless of financial circumstances. A limited number of academic scholarships are awarded to entering first-year students with exceptional academic ability. The Office of Scholarships and Student Aid awards and administers more than $220 million in financial aid to more than 13,000 students. Scholarships and financial aid funds come from federal, state, University and private sources. Awards are made according to procedures established by donors and agencies and to policies developed by the University Committee on Scholarships, Awards and Student Aid.

Eligibility for Need-Based Financial Aid
To receive financial aid from programs administered by the Office of Scholarships and Student Aid, a student must be enrolled at least half-time and be making satisfactory progress toward the completion of a degree or certificate from the University. The student may not be in default on a loan previously received for college expenses nor owe a refund on a scholarship, grant or loan from an earlier enrollment period. In addition, the student must establish by information reported on the application form that the financial resources of the student and family are not sufficient to meet the costs of attending the University.

Federal Aid Programs
To measure eligibility for federal student aid funds, the financial circumstances of the student and family will be reviewed according to a methodology established by the U.S. Congress. The standard need analysis takes into consideration the income and assets of the student and family, the number of persons in the household and the number in college, taxes paid and other relevant factors. The guidelines expect the student to contribute to costs with earnings during the summer and/or school year, based on the amount earned by the student during the previous year. Scholarships and other awards from private sources are also considered in determining eligibility for federal funds.

University Scholarships and Grants
Undergraduate students are considered for scholarships and grants based on an analysis of family financial circumstances according to a methodology used by many colleges and universities to award institutional funds. The home equity of the family is reviewed, as well as other income and assets which may not have been treated in the calculation of federal aid eligibility. A student is expected to contribute to educational costs, regardless of income earned during a previous year. The amount of eligibility for University scholarships and grants is usually less than federal aid eligibility, but scholarship and grant funds are often combined with federal aid to provide a total package of assistance. In awarding University scholarships and grants, the Office of Scholarships and Student Aid will consider the student's characteristics and match the student with funds for which he or she may be uniquely qualified. Specific criteria may include academic achievement, home county or state, and leadership experiences.

Applying for Need-Based Aid
The application process for need-based scholarships and financial aid requires careful completion of appropriate forms, attention to deadlines and prompt response if additional information is requested. Financial aid funds are limited, and the most beneficial types of aid, including University scholarships, campus jobs and lower-interest loans, are awarded first to students whose files are completed accurately and on time.

Preference Deadline
The Office of Scholarships and Student Aid gives priority for financial aid to students who submit the necessary forms to the processing agencies by March 1 prior to a summer or academic year enrollment. An entering student should not wait for a notification of admission but should file the necessary forms by the priority date, even if he or she has not decided which college to attend. Returning students should also meet the March 1 priority filing date. Timing of
financial aid award notices is dependent on the application filing date, and only those students who apply by March 1 can expect to have funds delivered at the beginning of the school year. Late applications will be considered as time and resources permit.

Application Forms

All students—undergraduate, graduate, and professional—who apply for need-based financial aid through the Office of Scholarships and Student Aid must complete the Free Application for Federal Student Aid (FAFSA). The form collects basic information about the financial circumstances of the student and family so that eligibility for federal aid programs can be determined. It is strongly advised to file the FAFSA online by going to www.fafsa.ed.gov. There is no fee for processing the FAFSA, and it must be received by the federal processing agency by March 1 with the UNC-Chapel Hill code number 002974 listed in the appropriate section. Undergraduate students must also complete the CSS PROFILE Application in order to be considered for University scholarships and grants. File online at profileonline.collegeboard.com. The PROFILE form should be completed by the student and family and received by the processing agency no later than March 1. There is a processing fee, which must be paid by credit card if the fee is not waived automatically upon application.

Award Decisions

An entering undergraduate student who files an application for financial aid by the March 1 priority date and provides any requested additional information promptly can expect to receive an award decision in April. Returning undergraduate students who meet the March 1 filing date are usually notified in early May. Both entering and returning graduate and professional students are usually informed of aid decisions in May if applications are filed by March 1. Students who do not meet the March 1 preference deadline cannot be assured of award notifications or of the delivery of funds until after the beginning of the enrollment period.

Types of Need-Based Financial Aid

Financial aid at UNC-Chapel Hill consists of scholarships, grants, loans, and jobs. When a student applies for need-based aid, he or she will be considered for all types of assistance for which he or she is eligible, including scholarships for undergraduates. The student does not need to indicate an interest in specific scholarships nor a preference for gift funds. The award will include as much scholarship or grant aid as resources will permit. Remaining aid eligibility for undergraduate students will usually be met by the offer of a loan, a part-time job or both. Graduate and professional students will receive loans and/or work to meet any eligibility remaining after awards from schools or departments.

General Scholarships

University scholarships are awarded by the Office of Scholarships and Student Aid to undergraduate students who complete both the FAFSA and the PROFILE and who have financial aid eligibility and above-average academic records. Some general scholarships are supported by state appropriations and special sources, such as income from Student Stores and from trademark royalties. Other awards are made possible by gifts to the University from its benefactors. General scholarship awards range in value from $100 to $3,000 per year, depending upon the student's eligibility and academic achievement and on the availability of funds.

Special Scholarships

The Office of Scholarships and Student Aid administers several competitive scholarship programs to recognize and encourage academic excellence. An award will meet a student's financial aid eligibility according to the methodology for University scholarships. If a recipient has federal financial aid eligibility beyond the amount of the scholarship, the student may receive additional assistance from federal student aid programs. A separate scholarship application is not required; students who apply by March 1 for need-based aid and for University scholarships will be considered. The James M. Johnston Awards are the most attractive need-based scholarships offered by the University. Every year, approximately 60 entering first-year students are chosen to be Johnston Scholars, based on outstanding high school records and leadership potential. The Johnston Awards Program seeks to develop in scholars a sense of community within the University. Special programs are offered to enrich educational experiences and expand personal development, including faculty mentors, peer counselors, leadership activities and Johnston Honors Seminars. A number of Johnston Awards are made to students in the School of Nursing. Other Distinguished Scholarships are awarded to entering first-year students who apply by March 1 include the Mark R. Braswell, Josephus Daniels, Fred W. Morrison, Herbert D. and Mayme C. Pegg, Caroline and Thomas Royster, and William A. Whitaker Scholarships. Distinguished Scholarships are awarded on the basis of academic achievement and financial need.

Grants

Undergraduate students who apply for need-based financial aid will be considered for grant assistance to meet a portion of financial aid eligibility. Awards are made to students with exceptional financial need from the Federal Supplemental Educational Opportunity Grant Program and from University funds. These awards may range in value up to $4,000 for in-state students and $9,200 for out-of-state students, depending upon the student's financial circumstances. The Federal Pell Grant Program provides assistance to eligible first-degree undergraduate students. These awards are targeted to the neediest students, and eligibility is measured by a formula approved by the U.S. Congress. A Pell Grant award for an eligible student will be included as part of his or her financial aid package.

UNC Campus Scholarships Programs—Undergraduates

The University of North Carolina offers a two-part scholarship program to promote educational access and diversity.

Part I provides need-based scholarships for undergraduate students with "exceptional financial need" whose enrollment contributes to the intellectual experiences and diversity of the undergraduate population. Students must be residents of North Carolina who are enrolled in full-time degree credit course work.

Part II provides need-based scholarships for undergraduate Native American students. To be eligible for these funds, students must be residents of North Carolina and must be Native American, defined as an individual who maintains cultural and political identification as a Native American through cultural and political identification through membership in an Indian Tribe recognized by the State of North Carolina or by the United States.

Carolina Computing Initiative

The Carolina Computing Initiative (CCI) is a technology plan that requires all first-year students to own an Intel-based laptop computer (PC). If you are a first-year student and you qualify for financial
aid based on the Profile Application, you will be eligible for a grant to cover all or some portion of the cost of the laptop because computer ownership is an admission requirement. Eligible students who purchase their computers through the University's Student Stores will be given credits toward their purchase of a computer; no cash awards will be made.

Need-Based Loans

The Office of Scholarships and Student Aid administers a number of student loan programs, both federal and institutional, which provide low-interest, long-term loans to undergraduate, graduate and professional students who have financial aid eligibility under federal guidelines. Most financial aid packages to undergraduate students include assistance from one or more loan programs, and the majority of aid to graduate and professional students is from loan sources. The Office of Scholarships and Student Aid determines which loan source is most appropriate for the student, based on the funds available at the time an award is made.

The Federal Perkins Loan Program is supported by federal allocations and by loan repayments from previous borrowers. There is no interest while the student is in school, and repayment at five percent begins six to nine months after termination of student status. The program calls for deferment of payments under certain circumstances and for partial cancellation of the loan if the borrower is fulfilling specific teaching or military service. The Office of Scholarships and Student Aid may recommend a Subsidized Federal Stafford Loan as part of a student's financial aid award. The Office of Scholarships and Student Aid prefers that students borrow from College Foundation Inc. (CFI), North Carolina's primary lender. Unless a student indicates another lender at the beginning of the financial aid application process, the Office of Scholarships and Student Aid will electronically forward information about the student's loan eligibility to CFI. Students in certain medical and Allied Health Programs at the University may be eligible for loans from the Health Professions Student Loan Program. Interest rates are comparable to those for other loan assistance, and repayment begins after termination of student status or completion of deferment periods.

Employment

Many students work in part-time jobs, on and off campus, to meet a portion of their University expenses. Employment can provide not only a source of income, but also valuable work experience. Funds are provided by the federal government and matched by the state for Federal Work-Study Program jobs in many University departments and offices and in community service agencies. A Work-Study job may be included as part of a financial aid package. Undergraduate students are employed in hourly paid jobs that require 10 to 15 hours per week and that pay more than the federal minimum wage. Students who remain in the same Work-Study job from year to year will receive an annual increase in the wage rate. Graduate students may be assigned Work-Study Assistantships, with teaching and research responsibilities in their major departments or schools. Students are given the opportunity to select from a variety of Work-Study jobs to meet their skills, interests and career plans.

Non-Need-Based Loans

Students who do not meet eligibility requirements for need-based aid, or who must have funds in addition to need-based aid, may apply for federal loans that are not based on the financial circum-
stances of the student and family. Students may borrow from the Unsubsidized Federal Stafford Loan Program, up to the amount of annual eligibility for Stafford Loans but not to exceed the difference between costs of attending the University and other financial aid awards. Annual loan limits for dependent undergraduate students from the Subsidized and Unsubsidized Stafford Loan Programs combined are: $3,500 for first-year students, $4,500 for sophomores, and $5,500 for juniors, seniors, and fifth-year students. Independent undergraduate students may borrow up to $7,500 for the first year, $8,500 for the second year, and $10,500 for the third and subsequent years. Graduate and professional students may receive up to $20,500 per year. Borrowers are responsible for interest payments during in-school, grace and deferment periods. Unsubsidized Stafford Loans have origination and insurance fees of up to three percent, deducted proportionately from each loan disbursement; however CFI waives these fees for their borrowers. Just as with Subsidized Federal Stafford Loans, students who wish to be considered for Unsubsidized Stafford Loans, either as the only aid source or in addition to need-based aid, should contact the Office of Scholarships and Student Aid for information. The parents of undergraduate students who do not receive need-based aid, or who must have additional assistance, may apply for Federal PLUS Loans. These loans, like Stafford Loans, are offered by the College Foundation of North Carolina, Inc (CFI). A parent with a good credit history may borrow up to the difference between costs of attending the University and any other assistance the student may be receiving. The interest rate on PLUS Loans is 8.5 percent; origination and insurance fees of up to three percent are charged. Repayment generally begins within 60 days after disbursement of the loan.

Academic Scholarships

Each year the University of North Carolina at Chapel Hill offers special scholarships to a select group of entering first-year students. These competitive scholarship programs recognize and encourage academic excellence. Criteria for the University's academic scholarships include academic achievement, leadership qualities, commitment to service and potential for success at the University. Financial need is not a consideration.

The University seeks to identify students who have earned academic distinction in high school. Because Carolina is a selective university, competition for academic scholarships is strong. More than 245 new scholarships will be awarded this year to students in a first-year class of nearly 3,800. In addition to impressive academic achievements, scholarship winners excel in extracurricular activities and demonstrate strong leadership skills. Selection is based on the information provided in the application for admission. Except for the Pogue Scholarship, there is no separate application for academic scholarships.

For full consideration for academic scholarships, students must apply for admission to the University by the January 15 deadline.

Scholarship candidates will be notified in early January (for Deadline 1 Admissions applicants) and late February (for Deadline 2 Admissions applicants) if they have been invited to move forward in the scholarship process. Candidates will be invited to campus to meet faculty and participate in discussions on a variety of topics, which will determine the type and amount of scholarship award to be offered. Scholarship winners will receive strong consideration for the University's Honors Program. There is no separate application for the Honors Program. The following scholarships are awarded
each year to first-year students and are renewable for three years of undergraduate study at the University, provided students maintain the required grade point average.

**Carolina Scholars Awards**

The Carolina Scholars Program represents the University's long-standing commitment to provide an outstanding education to the most able and promising students of the state and the nation. The program seeks to identify academically talented first-year students, enrich their academic experiences and encourage their contributions to the intellectual life of the University. Superior academic achievement, evidence of self-direction and intellectual curiosity and a genuine motivation for learning are the chief criteria for selection. Carolina Scholars awards provide $7,500 per year for students from North Carolina, and the equivalent of the cost of tuition, fees, room and board for students from other states.

**Robertson Scholars Program**

The Robertson Scholars Program is a unique undergraduate merit award that is jointly administered by the University of North Carolina and Duke University. The primary goal of the Robertson Scholars Program is to foster collaboration between the two institutions, which selects approximately 30 scholars to participate each year. Half of these scholars matriculate at UNC and exhibit exceptional leadership abilities, abiding commitment to public service and high academic achievement. Robertson Scholars at UNC are awarded full tuition and living stipends, summer community-building and enrichment opportunities in the U.S. and abroad, support for research and related travel, and top-of-the-line laptop computers. There is no separate application process for the scholarship; however, selected finalists will be invited to an interview weekend at UNC in late March or early April.

**Pogue Scholarships**

The Pogue Scholarships were established to attract the most outstanding students to the University, with special emphasis on minority applicants. However, students from all ethnic backgrounds are considered for this award. The Pogue Scholarship program seeks to identify students who demonstrate academic achievement, value diversity, exhibit strong leadership potential and eagerly identify ways to implement positive change. Successful Pogue Scholarship candidates are individuals who show clear evidence of an abiding commitment to their local community and the principles of diversity and display maturity and wisdom in trying to impact important issues. Competition for the Pogue Scholarships requires a separate application, available at the Web site of the Office of Scholarships and Student Aid (studentaid.unc.edu). Applications from North Carolina residents are due December 5, and in-state Pogue applicants must also be sure to apply for admission to the University by November 1st. For non-residents, Pogue applications are due no later than January 5, and applicants must apply for admission by the January 15 deadline. Candidates selected as finalists for the Pogue Scholarships are invited to Chapel Hill in February for a two-day visit and interview. The Pogue Scholarships provide $7,500 per year to students from North Carolina, and the equivalent of tuition, fees, room and board to students from other states.

**Other Academic Scholarships**

A wide array of additional scholarships are awarded to students from North Carolina and other states and are based on academic achievement, leadership qualities and special characteristics. These scholarships provide at least $2,500 per year to students from North Carolina and up to the equivalent of tuition, fees, room and board per year to students from other states. Some of these scholarships give special attention to students from certain North Carolina counties or other geographic areas.

**The Johnston Awards Program**

The Johnston Awards are the premier need-based scholarships offered by UNC-Chapel Hill. Johnston Awards are given every year to approximately 60 entering first-year students, based on their outstanding high school records. Most of these students have contributed significantly to their schools and communities. To be considered for Johnston Awards, students must submit the Free Application for Federal Student Aid (FAFSA) and the Profile Application by March 1. Stipends for the scholarships vary according to the student's financial circumstances.

**College-Sponsored National Merit Awards**

Nationally, UNC ranks very highly in the number of National Merit College-Sponsored Award recipients enrolled. National Merit Finalists who have not been offered another Merit Scholarship award and have notified the National Merit Scholarship Corporation that the University of North Carolina is their first choice are considered for an award. The minimum amount of the award is $1,000 per year, but can as much as $2,000, depending on the level of financial need.

**The Honors Program**

All students who win academic scholarships are strongly considered for participation in honors work at Carolina. The criteria used in the selection of honors students are similar to those of the academic scholarship selection. Factors include academic performance and course selection in high school and standardized test scores. The Honors Program offers approximately 200-300 first-year students an opportunity to learn from some of the University's most distinguished faculty in small classroom settings. There is no separate application process for the Honors Program. Honors participants are selected from the pool of top accepted first-year students and invited to join the program by April.

The University offers a wide range of need-based scholarships and financial aid opportunities, and students are encouraged to consider the financial aid process along with the academic scholarship competition. To be considered for scholarships and aid based on financial need, students must complete the Free Application for Federal Student Aid (FAFSA) and the Profile Application of the College Scholarship Service. These forms should be available in the high school's guidance office by January. The University's priority date for submitting the FAFSA and Profile Application is March 1.

**Morehead-Cain Awards**

Morehead-Cain Awards are given by the Morehead-Cain Foundation (a private foundation established in 1945) to approximately 60 incoming first-year students each year. Scholarships are designed to cover the full cost of four years of undergraduate study at the University. Students attending North Carolina high schools may either be nominated for the Morehead-Cain Award by their schools or they may nominate themselves for consideration. Students attending school outside North Carolina are eligible to be nominated only if they attend a school eligible to participate in the Morehead-Cain Program. Each eligible out-of-state school may
nominate one student per year. Out-of-state students who do not attend eligible schools may be considered as "at large" candidates on the basis of their admissions application to the University.

The four selection criteria for the Morehead-Cain Award are scholarship, leadership, character and physical vigor. In addition to receiving an academic stipend, Morehead-Cain Scholars receive grants to participate in the Morehead-Cain Foundation's Summer Enrichment Program. For more information, please link to www.moreheadfoundation.org.

Information and Instructions

Students who are interested in applying for need-based financial aid, for non-need-based loans and/or for academic scholarships may obtain additional information from the Office of Scholarships and Student Aid by consulting its comprehensive Web site at studentaid.unc.edu, which contains additional information about scholarships and financial aid, including helpful links to related University departments and financial aid services external to the University. Inquiries may be sent to aidinfo@unc.edu.
The personal conduct of the University student is subject to the moral and legal restraints found in any law-abiding community. Additionally, the Honor Code is a positive force for good citizenship. University regulations are not specifications for acceptable conduct or detailed lists of offenses subject to penal action. They are intended to provide an informational basis for systematic procedures and equitable decisions in many situations involving individual students and officers of the University.

**Code of the University of North Carolina (1975)**

Section 502D(3) - Subject to any policies or regulations of the Board of Governors or the Board of Trustees, it shall be the duty of the Chancellor to exercise full authority in the regulation of student affairs and student conduct and discipline. In the discharge of this duty, delegation of such authority may be made by the Chancellor to faculty committees and to administrative or other officers of the institution, or to agencies of student government, in such manner and to such extent as may by the Chancellor be deemed necessary and expedient. In the discharge of the Chancellor's duty with respect to matters of student discipline, it shall be the duty of the Chancellor to secure to every student the right to due process. Appeals from these disciplinary decisions are allowable only on the following grounds:

1. a violation of due process; or
2. a material deviation from Substantive and Procedural Standards adopted by the Board of Governors.

Where the sanction is suspension or expulsion, an appeal may be made to the Board of Trustees. No appeal to the President is permitted. When the sanction is expulsion, the final campus decision is appealable to the Board of Governors.

**Alcoholic Beverages**

Possession and use of alcoholic beverages is substantially regulated by federal, state, and local laws and ordinances. Within this legal framework, the University's Policy on Student Possession and Consumption of Alcoholic Beverages in Facilities of the University of North Carolina at Chapel Hill sets out the conditions under which alcoholic beverages may be used on University property.

According to North Carolina law:

A. Generally persons 21 or older may purchase or consume alcoholic beverages and may possess alcoholic beverages at their homes or temporary residences.

B. It is against the law for any person under 21 to purchase or possess any alcoholic beverage.

C. It is against the law for anyone to sell or give any alcoholic beverage to a person under 21 or to aid or abet such a person in selling, purchasing or possessing any alcoholic beverage.

D. No alcoholic beverages may be sold by any person, organization or corporation on a college campus except by a hotel or nonprofit alumni organization with a mixed beverages or special occasion permit, by a performing arts center with permits for malt beverages and unfortified wine, or by a University golf course open to the public that has a permit for malt beverages. Both direct and indirect sales are unlawful.

According to Chapel Hill ordinance, it is against the law for anyone to possess any open alcoholic beverage on streets, sidewalks, alleys or any other property owned or controlled by the Town of Chapel Hill.

In addition to the law, the University's Policy on Student Possession and Consumption of Alcoholic Beverages in Facilities of the University of North Carolina at Chapel Hill sets out special rules about alcohol for students and student organizations. The Office of the Dean of Students will provide copies of the policy and assistance in understanding its full implications. The text of the policy can be accessed on the World Wide Web at the following address: [www.unc.edu/campus/policies/studentalcohol.html](http://www.unc.edu/campus/policies/studentalcohol.html).

Under the policy:

A. Alcohol may not be served or consumed in any University building or open space except as provided in the University's Guidelines for Serving Alcohol at University-Sponsored Events. The guidelines are available on the Web at [www.unc.edu/campus/policies/alcohol.html](http://www.unc.edu/campus/policies/alcohol.html).

B. Alcohol may not be possessed or consumed at any campus athletic event or at any performance on campus, and alcohol may not be consumed at any outdoor campus location.

C. Common source containers of alcohol (e.g., kegs) are not permitted on campus.

D. Students and their guests aged 21 and older may possess and consume alcoholic beverages in individual campus residence hall rooms or apartments on campus, but not in the common areas of a campus residence hall.

E. No Student Activity Fees or other University-collected fees may be used to purchase alcohol.

F. No other funds of an officially recognized student group deposited or administered through the Student Activities Fund Office may be used to purchase alcohol.

G. Student groups are not prohibited from having events off campus at which individual group members aged 21 or older bring or buy their own alcoholic beverages. Students who violate the policy face mandatory alcohol education, housing sanctions (for violations arising in University Housing) and sanctions including written reprimand, restitution, counseling/referral and/or educational/community service activities. Student groups who violate the policy face sanctions of written reprimand, restitution, mandatory educational programs or community service and/or loss of University recognition. Behavior that violates the Code of Student Conduct, state or federal laws may also be referred to the Student Judicial System, the Emergency Evaluation and Action Committee and/or state and federal authorities.

**Commercial Activities**

Selling or soliciting by any person (private citizen, employee or student), firm or corporation on the campus of the University is prohibited except as provided for in the University Facilities Use Policy. The policy can be accessed online at [www.unc.edu/campus/policies/facility_use.html](http://www.unc.edu/campus/policies/facility_use.html).
Conduct in and Use of Residence Halls and Apartments

Regulations governing conduct in and use of the residence halls and apartments are set out on the Department of Housing and Residential Education's Web site at housing.unc.edu/policies/index.html. It is expected that every student in his or her conduct and activities will have consideration for the rights and comfort of others.

Emergency Disciplinary Action

In order to protect University property or members of the University community or to prevent disruption of the academic process, occasionally the University must take emergency action to separate a student from the University. The Chancellor has, therefore, created the Emergency Evaluation and Action Committee. With respect to disciplinary matters, the committee acts only when no other administrative solution, including action by the Student Judicial System, is in its judgment adequate to deal effectively with the situation.

Students whose cases may require action by the committee fall into five categories:

A. Applicants for admission or readmission to the University who have been convicted of a crime involving assaultive or felonious behavior, who have a record of violent behavior, or who have a record of academic dishonesty or disciplinary rule violations elsewhere;

B. Students whose behavior, on or off campus, is such that their presence in the University, in the judgment of the committee, poses a serious threat of disruption of the academic process or a continuing danger to other members of the University community, or University property;

C. Students or applicants who have been arrested and charged with a serious crime of a violent or dangerous nature, or a serious crime that involved placing another person in fear of imminent physical injury or danger, where, in the judgment of the committee, if the students are found guilty, their presence in the University would pose a serious threat of disruption of the academic process or a continuing danger to other members of the University community or University property;

D. Students, charged by the University with a violation of policies concerning illegal drugs, whose continued presence within the University community would, if the charges are true, constitute a clear and immediate danger to the health or welfare of other members of the University community.

E. Students whose behavior on or off campus is such that, in the judgment of the committee, they pose a danger to themselves.

Full information on the committee and its procedures is available from the Division of Student Affairs through the office of the Dean of Students. The text of the committee's policy and procedures is on the Web at www.unc.edu/policies/tapedec98.pdf.

Transportation and Parking

Parking

Every student at UNC-Chapel Hill and UNC Hospitals who parks an automobile between 7:30 a.m. and 5 p.m. on weekdays in the University’s designated reserved parking is required by the Department of Public Safety to obtain and display a parking permit. Parking permit holders must park only in specific zones as indicated on their parking permits. After 5 p.m. on weekdays, however, students may park in any unreserved space except those in resident student lots, which are reserved until 9 p.m. Please note the signs at the entrances to each lot which detail the hours of enforcement for that parking area.

Motor vehicle parking permits may be applied for during normal registration procedures at the Department of Public Safety. Vehicles found parked illegally may be cited by the Department of Public Safety’s Parking Control Division, and subsequent violations may result in further citations, immobilization (“booting”) or towing of the vehicle. Citations may be appealed through the Department of Public Safety’s Appeals Office. Appeals also can be entered by telephone by calling the Appeals Office at 962-3953, Monday through Friday, from 7:30 a.m. to 5 p.m.

The Parking Control Division operates MAP, the cost-free Motorist Assistance Program. If a vehicle requires a “jump start” or if the keys are locked inside the vehicle, motorists may call for assistance at 962-8006, weekdays, 7:00 a.m. until 9:00 p.m. During all other times (and on University holidays), the UNC Police Department should be contacted for Motorist Assistance at 962-8100.

The Commuter Alternatives Program

The Commuter Alternatives Program (CAP) is an initiative with the goal of reducing campus traffic congestion and parking demand through the promotion and management of viable alternatives to single-occupancy vehicle use at UNC. It is a free program designed to reward campus community members for the use of bicycling, walking, transit, park and ride services and ridesharing. CAP requires only that a registrant commute to UNC from outside a two-mile radius from the Bell Tower at the center of the campus and not be registered for a parking permit. CAP has a listserv, giveaways, prizes, discounts to local merchants and daily benefits in relation to alternative transportation programs. To request a CAP brochure, call the Department of Public Safety or visit the department's Web site at www.dps.unc.edu/cap.

Alternatives to Parking

The Web site www.redefinedtravel.org provides excellent information on student transportation alternatives. RedefineTravel.org is designed to give students all the information needed to ride the bus, ride with friends or bike to great destinations all over the Triangle. The site has a Transit Trip Planner to popular destinations, schedules for TTA, DATA, CAT and Chapel Hill Transit, information about TTA's Express Bus to Raleigh, Bike Safety information and City Bike Maps, a Calorie Counter to show how active transportation affects health, information on student carpool options and a Calculator tool that calculates how much an individual can save by using alternative transportation.

Municipal and Regional Transit

All Chapel Hill Transit routes are fare-free. The exchange of money, coupons or display of a bus pass is not needed when boarding. Campus "U" route and "RU" (Reverse U) shuttles run in continuous loops from 7:00 a.m. to 8 p.m., serving nearly every area on campus.

Commuting students can join the Commuter Alternative Program and use any of the 5 Town or 4 Campus Park and Ride lots. Chapel Hill Transit provides free and quick service to and from Campus. Student CAP participants receive one 1-day temp pass per semester allowing free parking on 511 lots. Additional, if necessary, they may use UNC's Emergency Ride Back service to get back to the
Park and Ride lots or any location within Carrboro or Chapel Hill municipal boundaries. Consult the Chapel Hill Transit Guide for information on specific routes.

Regional transit (to and from RDU, Raleigh and Durham) is available aboard Triangle Transit Authority (TTA) buses. Included in the full complement of regional service, is express service from Raleigh to UNC and from Hillsborough to UNC. For more route information, call TTA at 919-549-9999. Students who live more than 2 miles from the Bell Tower and are members of the Commuter Alternative Program can purchase a monthly TTA bus pass for $10. Purchasers of TTA bus passes can register for TTA’s Emergency Ride Home service.

Also, a free annual TTA “GoPass” is available to all eligible CAP permit holders. These passes also give free access to all DATA (Durham Transit) routes. Passes must be picked up at the Department of Public Safety Building or at the UNC Hospitals Parking Office.

Park and Ride Lots

There are five Town park and ride lots and four additional lots available to those who join UNC’s Commuter Alternative Program. Many commuting students find the park and rides to be a reliable transportation solution. Parking is free and all the lots receive free transit service. TTA also serves some of the lots. The nine lots ring the campus, and space is available on a first come first served basis. Parking at the preferred lot is usually possible, but not guaranteed as the most popular lots fill up by the end of rush hour.

Point-to-Point

Point-to-Point Transportation (P2P) offers fare-free fixed-route service aboard their P2P Express minibuses, operating on a continuous loop around campus during evening hours, 7 p.m. until 3 a.m., seven nights a week (when residence halls are open) during fall and spring academic semesters. Students must show their UNC ONE Card to board the P2P Express. After dark, a demand-response can be accessed by students in areas which are not served by the P2P Express route.

P2P also offers fare-free demand-response transportation service to disabled students and students going to or from Student Health Services 24 hours a day.

Safe Ride

A student run program called “Safe Ride” aims to provide increased mobility between 11:15 p.m. and 2:30 a.m. on weekend evenings. Although it shares part of the name, this is a different program from the P2P Library Safe Ride Shuttle. There are three Safe Ride bus routes operating on Thursday, Friday and Saturday nights.

They provide service between campus and many private student housing developments and other off campus destinations after Chapel Hill Transit routes service ends for the evening. More information can be found online at www.unc.edu/safereide/index2.htm, via e-mail from safereide@unc.edu or in the Chapel Hill Transit Guide to Service.

UNC Bicycle Registration

The Department of Public Safety requires bicycle registration for bicycles stored or traveling on campus. The program serves as a deterrent to crime, aids in the identification of lost or stolen bicycles, and enables the department to better plan for improved bicycle parking facilities around campus in the future. Forms for bicycle registration are available here: www.dps.unc.edu/dps/alternatives/bikeregistration.htm or by visiting the Department of Public Safety. Cyclists who live more than 2-miles from the Bell Tower may join the Commuter Alternative Program.

Zipcar for Students 21 and Over

For students 21 and over, UNC’s carsharing program, Zipcar, provides another option. For a $20 annual fee, reimbursable in driving credits if used within 30 days, UNC’s four on-campus Zipcars can be reserved for short or long trips. Currently, UNC has two Volkswagen beetles, a Toyota Matrix station wagon and a Scion xA coupe/hatchback. Cars are reserved online by using a toll-free phone number. The Zipcar membership card serves as the key to the vehicle, and a gas card is inside. Fuel, insurance and maintenance bills are footed by the program, and the reservation rate is $5 per hour with a $35 per day maximum fee. More information can be found by visiting www.zipcar.com/unc, dialing 866-4ZIPCAR or e-mailing info@zipcar.com

For More Information

Visit the Department of Public Safety during regular business hours (weekdays, 7:30 a.m. - 5 p.m.), in the Public Safety Building via Morrison Drive (just off Manning Drive) on south campus. For more information on Parking and Transportation at UNC-Chapel Hill, log onto the Department of Public Safety’s Web site at www.dps.unc.edu. Concerns may be addressed at the following campus telephone numbers:

General Information 962-3951, 3952
Police Emergencies 911
Police Non-emergencies 962-8100
Parking Control 962-8006
Accounts Receivable 962-6073
Parking Appeals 962-3953
Visitor Pay Parking 966-4424
Point-to-Point Shuttle Dispatcher 962-7867 (962-"P-TO-P")
Commuter Alternatives Program 843-4414

Students with temporary physical handicaps or other hardships requiring special consideration should contact the Department of Disability Services for complete information. Information about the process for obtaining a disability permit may be obtained by visiting the Department of Public Safety or the Web site at: www.dps.unc.edu/dps/disability/application_process.htm.

Smoking Policy

Smoking is prohibited in University facilities, residence hall rooms, apartments and common area spaces, including hallways, lounges, lobbies, stairwells, laundries, vending areas, balconies, breezeways, connectors and porches. In addition, smokers are expected to remain at a reasonable distance from building entrances while smoking, such that second-hand smoke does not interfere with access or the rights of others. Smokers are also to dispose of cigarette and cigar butt appropriately in provided containers. Littering with cigarette butts is not acceptable. The University will make reasonable efforts to provide residential smoking rooms in campus housing in proportion to annual student demand for such spaces.

Visitation Policy in Residence Halls and Apartments

Regulations concerning visitation are applicable only to University-owned and approved residence halls and apartments. In those living areas, students are permitted to visit in the rooms of
members of the opposite sex in accordance with the visitation policy published by the Department of Housing and Residential Education. Within the parameters of the guest policy, there are two visitation options within University housing. The housing application allows you to check if there is a visitation option to which you do not wish to be assigned.

The two visitation options include:

**Standard Visitation.**

- Sunday - Thursday 9:00 a.m. - 1:00 a.m. (with roommate consent)
- Friday and Saturday 9:00 a.m. - 2:00 a.m. (with roommate consent)

**Open Visitation.**

- Any day of the week 24-hour visitation (with roommate consent)
THE UNIVERSITY OF NORTH CAROLINA:
16 CONSTITUENT INSTITUTIONS

The UNC System

History of the University
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 Chapel Hill is one of 16 constituent institutions of the multicampus state university.

The University of North Carolina, chartered by the North Carolina 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 18th 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 North Carolina General Assembly began sponsoring additional institutions of higher education, diverse in origin and purpose. Five were historically black institutions, and another was founded to educate American Indians. Several were created to prepare teachers for the public schools. Others had a technological emphasis. One is a training school for performing artists.

In 1931 the North Carolina 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 of Agriculture and Engineering at Raleigh (now North Carolina State University at Raleigh) and the North Carolina College for Women (Women's College) at Greensboro (now the University of North Carolina at Greensboro). The new multicampus 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, 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.

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 are elected by the General Assembly for four-year terms. Former board chairs and board members who are former governors of North Carolina may continue to serve for limited periods as nonvoting members emeriti. The president of the UNC Association of Student Governments, or that student's designee, is also a nonvoting 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 North Carolina 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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Chief of Staff

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Vice President for Communications and Strategy Development

Russ Lea, Ph.D.
Vice President for Research and Sponsored Programs

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Vice President for Academic Planning and University-School Programs

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Equity in Athletics Disclosure Act

Information compiled under the federal Equity in Athletics Disclosure Act is available on request from the Office of the Director of Athletics.

Expulsion

A student who has been expelled from an institution in the University of North Carolina system may not be admitted to another UNC-system school unless the institution that originally expelled the student rescinds that expulsion.

Family Educational Rights and Privacy Act

As a general rule, under the federal Family Educational Rights and Privacy Act (FERPA), personally identifiable information may not be released from a student’s education records without his or her prior written consent. Exceptions to this rule are set out in the FERPA regulations and the FERPA policy of the University of North Carolina at Chapel Hill. A few of the exceptions are listed below; others may be found in the University’s FERPA policy and accompanying federal regulations.

The University will disclose personally identifiable information from a student’s education records to officials of another school or school system in which the student seeks or intends to enroll and to officials of another school or school system in which a currently-enrolled UNC-Chapel Hill student is contemporaneously enrolled.

If the University takes disciplinary action against a student for conduct that posed a significant risk to the safety or well-being of the student, other students or members of the University community, the University may disclose information about that disciplinary action to officials of other schools who have a legitimate educational interest in the student’s behavior.

If the University, pursuant to campus disciplinary procedures, finds that a student has committed a violation of the Honor Code that constitutes a crime of violence or a nonFelony sex offense, the University will, upon request, disclose the name of the student, the violation committed and any disciplinary sanction imposed on the student.

The University will release information from a student’s education records to UNC-Chapel Hill school officials (including teachers, officials and employees) who have a legitimate educational interest in the information. A school official has a “legitimate educational interest” if it is in the educational interest of the student in question for the official to have the information, or if it is necessary or desirable for the official to obtain the information in order to carry out his or her official duties or to implement the policies of the University of North Carolina.

The University makes public certain information that has been designated as “directory information” unless the student has notified the Office of the University Registrar to restrict the release of this information. The University considers the following to be “directory information”: the student’s name; address; telephone number; dates of attendance; degrees and awards received; the most recent previous educational institution attended by the student; the University also publishes the Campus Directory annually, and some professional and graduate student groups publish directories of students in their departments or schools.

Students who wish to restrict how address information is printed in the Campus Directory, or who wish to have some or all directory information restricted, or to remove some or all student data from the Web, must either select the appropriate access online via the Web at Student Central (studentscentral.unc.edu), notify the Office of the University Registrar in writing or go to 105 Hanes Hall to complete the appropriate form. The Office of the University Registrar will accept requests and update the student’s listing in the online Campus Directory at any time; however to affect the listing in the printed Campus Directory students must submit the request to the Office of the University Registrar by the last day to register in the fall semester. For more information consult the Office of the University Registrar.

Receipt of an approved master’s thesis or doctoral dissertation in The Graduate School is tantamount to publication; and the thesis or dissertation will be available to the public. Honors theses are also made available to the public through the University Library. Other student papers may be put in campus libraries or otherwise made public in accordance with individual course or program requirements.

The Family Educational Rights and Privacy Act also gives a student the right to inspect his or her education records and to request amendment of those records if they are inaccurate, misleading or otherwise in violation of the student’s privacy rights. To inspect his or her education records, a student must file a written request with the individual who has custody of the records that the student wishes to inspect. To request amendment of his or her records, a student first discusses the matter informally with the records custodian, and if the custodian does not agree to amend the records, he or she will inform the student of applicable appeal rights. Students also have the right to file a complaint with the U.S. Department of Education alleging that the University has not complied with FERPA.

Questions about FERPA should be addressed to the Office of University Counsel (CB# 9105). The University’s FERPA policy and the text of the federal FERPA regulations are available on the Web at www.unc.edu/polices/ferpa-pol.pdf.

Fireworks, Firearms and Other Weapons

It is a felony, punishable by fine and/or imprisonment, to possess or carry, openly or concealed, any gun, rifle, pistol or other firearm of any kind, or any dynamite cartridge, bomb, grenade, mine or powerful explosive on any University campus or in any University-owned or operated facility. Such conduct may also constitute a violation of the Honor Code.

It is a felony to use, possess, or promote the use of fireworks or any sharp-pointed or edged instrument (except institutional supplies, unaltered nail files, and self-defense tools and self-defense maintenance (as defined by law) upon any University campus or in any University-owned or operated facility. Such conduct may also constitute a violation of the Honor Code.

Immunization Requirement

Effective July 1, 1986, North Carolina state law requires that no person shall attend a college or university in North Carolina unless a certificate of immunization indicating that the person has received the immunizations required by the law is presented to the college or university on or before the first day of matriculation.

If the UNC-Chapel Hill Medical History Form containing the certificate of immunization is not in the possession of the UNC-Chapel Hill Student Health Service 10 days prior to the registration date, the University shall present a notice of deficiency to the person. The person shall have 30 calendar days from the first day of attendance to obtain the required immunizations. Those persons who have not complied with the immunization requirements by the end of 30 calendar days will be administratively withdrawn from the University.

Military Tuition Benefit

The information in this section comes from three sources: (1) North Carolina General Statutes, Sect. 116-143.3 (b), as amended Fall 04, (2) A Manual to Assist the Public Higher Education Institutions of North Carolina in the Matter of Student Residence Classification for Tuition Purposes, revised September 1985, (3) Chancellor’s Rules and Procedures for Residence Classification of Students for Tuition Purposes and Determination of Eligibility for the Special Military Tuition Benefit. Please refer to the Web site at regweb.unc.edu/residency for the most recent amendments to the Military Tuition Benefit Law.

Certain members of the Armed Services and their dependent relatives who are not residents for tuition purposes may become eligible to be charged less than the out-of-state tuition rate under N.C. Gen. Stat. Sect. 116-143.3, the military tuition benefit provision. Any person seeking the military tuition benefit must qualify for admission to UNC-Chapel Hill and must file an application for the benefit with his or her admissions office before the first day of classes of the term for which he or she initially seeks the benefit. The burden of proving eligibility lies on the military tuition beneficiary, the applicant for the benefit, and the application and all required supporting affidavits must be complete and in proper order before the first day of classes of the term in question. Because of the time involved in securing the necessary affidavits from the appropriate military authorities, prospective applicants for the military tuition benefit are urged to secure approval and forms from their admissions offices and begin the application process several weeks before the first day of classes of the term for which they seek the benefit.

Eligibility of Members of the Armed Services

To be eligible for a military tuition benefit, the individual must be on active duty and a member of the United States Air Force, Army, Coast Guard, Marine Corps, Navy, North Carolina National Guard or a reserve component of one of these services and must be abiding in North Carolina incident to active military duty.

Eligibility of Dependent Relatives of Service Members

If the service member meets the conditions set forth above, his or her dependent relatives may be eligible to pay the in-state tuition rate if they share the service member’s North Carolina abode, if they have complied with the

Please note that the text is slightly altered to fit the format requirements and to ensure natural reading.
requirements of the Selective Service System (if applicable) and if they qualify as military dependents of the service member.

Please note: There are special exceptions to military personnel and their dependents if the military person is reassigned outside of North Carolina or retires in North Carolina. Please visit regweb.unc.edu/residency to see the most updated requirements to maintain military tuition benefit eligibility (for both active duty military/National Guard, and their dependents).

For a detailed explanation of the military tuition benefit provision, a complete list of categories of persons who are considered “dependent relatives” for purposes of establishing eligibility for the military tuition benefit, and information about the registration requirements of the Selective Service System, applicants should consult A Manual to Assist the Public Higher Education Institutions of North Carolina in the Matter of Student Residence Classification for Tuition Purposes (as amended September 1985). This manual is available for inspection in the Admissions Offices of the University. Copies of the manual are also on reserve at the Robert B. House Undergraduate Library, in the Reserve Reading Room of the Health Sciences Library and online at regweb.unc.edu/residency (click on “residency manual”).

Appeals of Eligibility Determinations of Admissions Officers

A student appeal of an eligibility determination made by any admissions officer must be in writing and signed by the student and must be filed by the student with that officer within 15 working days after the student receives notice of the eligibility determination. The appeal is transmitted to the Residence Status Committee by that officer, who does not vote in that committee on the disposition of such appeal. The student is notified of the date set for consideration of the appeal, and, on request by the student, is afforded an opportunity to appear and be heard by the committee.

Any student desiring to appeal a determination of the Residence Status Committee must give notice in writing of that fact to the chairman of the Residence Status Committee within 10 days of receipt of the committee’s decision. The chairman will promptly process the appeal for transmittal to the State Residence Committee.

North Carolina Teachers Tuition Benefit

The information in this section comes from two sources: (1) North Carolina General Statutes Section 116-143.5, and (2) University of North Carolina Administrative Memorandum No. 375 dated October 22, 1997. Certain North Carolina teachers may become eligible to be charged the in-state tuition rate even if they do not qualify as residents for tuition purposes under G.S. 116-143.1. These applicants may receive the benefit for courses "relevant to teacher certification or to professional development as a teacher" if approved by the principal of the applicant’s school.

To qualify, an applicant must be a teacher or another person paid on the North Carolina teacher salary schedule incident to full-time employment by a North Carolina public school. "Full-time employment" means the employee's duties qualify him/her for membership in the Teacher’s and State Employees’ Retirement System or would so qualify the employee if he/she were employed on a permanent basis. Applicants must qualify academically for admission to any school of UNC-Chapel Hill.

Additionally, to be eligible, an applicant must be a North Carolina legal resident domiciliary and must have established North Carolina domicile before the commencement of the approved course(s). However, he or she does not have to have been a legal resident for twelve months.

To apply for the benefit, applicants must submit the following documents to the proper admissions office no later than the first day of classes of the term for which this benefit is sought:

• a completed North Carolina Teachers Tuition Benefit application,
• a completed "Principal’s Declaration for In-State Tuition Benefit for North Carolina Teachers," and
• a four-page application for resident tuition status.

For a detailed explanation of the teachers tuition benefit law and to acquire application forms, applicants should contact the appropriate admissions office. Information concerning the application of this law is on reserve at the Undergraduate Library and Health Sciences Library. It is also available at all admissions offices, at the Residence Status Committee office and online at regweb.unc.edu/residency.

Appeals of Eligibility Determinations of Admissions Officers must be in writing and signed by the applicant and must be filed by the applicant with that admissions officer within 15 working days after the applicant receives notice of the eligibility determination. The appeal is transmitted to the Residence Status Committee by that officer, who does not vote in that committee on the disposition of such appeal. The applicant is notified of the date set for consideration of the appeal, and, on request by the applicant, is afforded an opportunity to appear and be heard by the committee.

Any applicant desiring to appeal a determination of the Residence Status Committee must give written notice of that fact to the chairman of the Residence Status Committee within 10 days of receipt of the committee’s decision. The chairman will promptly process the appeal for transmittal to the State Residence Committee.

Policy on Illegal Drugs

Introduction

The Board of Trustees of the University of North Carolina at Chapel Hill, in conformity with the direction of the Board of Governors of the University of North Carolina, hereby adopt this Policy on Illegal Drugs, effective August 24, 1988. It is applicable to all students, faculty members, administrators and other employees.

Education, Counseling and Rehabilitation

A. The University of North Carolina at Chapel Hill has established and maintains a program of education designed to help all members of the University community avoid involvement with illegal drugs. This educational program emphasizes 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.

B. The University of North Carolina at Chapel Hill provides information about drug counseling and rehabilitation services available to members of the University community through campus-based programs and through community-based organizations. Persons who voluntarily avail themselves of University services are hereby assured that applicable professional standards of confidentiality will be observed.

Enforcement and Penalties

A. The University of North Carolina at Chapel Hill shall take all actions necessary consistent with state and federal law and applicable University policy to eliminate illegal drugs from the University community. The University’s Policy on Illegal Drugs is publicized in catalogs and other materials prepared for all enrolled and prospective students and in materials distributed to faculty members, administrators and other employees.

B. Students, faculty members, administrators and other employees are responsible, as citizens, for knowing about and complying with the provisions of North Carolina law that make it a crime to possess, sell, deliver or manufacture drugs for any uses described as controlled substances in Article 5 of Chapter 90 of the North Carolina General Statutes. Any member of the University community who violates that law is subject both to prosecution and punishment by the civil authorities and to disciplinary proceedings by the University. It is not a defense to the civil and/or criminal authorities and the University to proceed against and punish a person for the same specified conduct. The University will initiate its own disciplinary proceeding against a student, faculty member, administrator or other employee when the alleged conduct is deemed to affect the interests of the University.

C. Penalties will be imposed by the University in accordance with procedural safeguards applicable to disciplinary actions against students, faculty members, administrators and other employees, as required by Section 3 of the Trustee Policies and Regulations Governing Academic Tenure in the University of North Carolina at Chapel Hill; by Section III.D. of the Employment Policies for Non-Faculty Employees of the University of North Carolina at Chapel Hill; by regulations of the State Personnel Commission, and the Personnel Procedures of the Staff Personnel Administration Guides (Human Resources Manual for SPA Employees), by the Instrument of Student Judicial Governance and by all other applicable provisions of the policies and procedures of the University of North Carolina at Chapel Hill.

D. The penalties to be imposed by the University may range from written warnings with probationary status to expulsions from enrollment and discharge from employment. However, the following minimum penalties shall be imposed for the particular offenses described.

Trafficking in Illegal Drugs

a. 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. Gen. Stat. 90-91, or Schedule II, N.C. Gen. Stat. 90-90 (including, but not limited to, heroin, mescaline, lysergic acid diethylamide, opium, cocaine, amphetamine, methaqualine), any student shall be expelled and any faculty member, administrator or other employee shall be discharged.

b. For a first offense involving the illegal manufacture, sale or delivery, or possession with intent to manufacture, sell or deliver, of any controlled substance identified in Schedules III through VI, N.C. Gen. Stat. 90-91 through 90-99, any student shall be expelled and any faculty member, administrator or other employee shall be discharged.

(employees subject to the State Personnel Act are governed by regulations of the State Personnel Commission. Because the minimum penalty specified in this Section and required by the Board of Governors exceeds the maximum period of suspension without pay that is permitted by State Personnel Commission regulations, the penalty for a first offense for employees subject to the State Personnel Act is discharge.) For a second offense, any student shall be expelled and any faculty member, administrator or other employee shall be discharged.
Illegal Possession of Drugs

a. For a first offense involving the illegal possession of any controlled substance, penalties under Section 1, N.C. Gen. Stat. 90-90, the minimum penalty shall be suspension from enrollment or from employment for a period of at least one semester or its equivalent. (Employees subject to the State Personnel Act are governed by regulations of the State Personnel Commission. Because the minimum penalty specified in this Section and required by the Board of Governors exceeds the maximum period of suspension without pay that is permitted by State Personnel Commission regulations, the penalty for a first offense for employees subject to the State Personnel Act is discharge.)

b. For a first offense involving the illegal possession of any controlled substance identified in Schedules I through VI, N.C. Gen. Stat. 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 drug education and counseling programs, consent to regular drug testing, and accept certain 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. (If this balance for an employee subject to the State Personnel Act exceeds one week, that employee shall be discharged.)

c. 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, administrators or other employees.

E. Suspension Pending Final Disposition

When a student, faculty member, administrator or other employee has been charged by the University with a violation of policies concerning illegal drug use or sale, he shall be suspended from enrollment or employment before initiation or completion of regular disciplinary proceedings if, assuming the truth of the charges, the Chancellor, or in the Chancellor's absence, the Chancellor's designee concludes that the person's continued presence within the University community would constitute a clear and present 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.

Implementation and Reporting

Annually, the Chancellor shall submit to the Board of Trustees a report on campus activities related to illegal drugs for the preceding year. The reports shall include, at a minimum, the following:

1. a listing of the major educational activities conducted during the year;
2. a report on any illegal drug-related incidents, including any sanctions imposed;
3. an assessment by the Chancellor of the effectiveness of the campus program; and
4. any proposed changes in the Policy on Illegal Drugs.

A copy of the report shall be provided to the President, who shall confer with the Chancellor about the effectiveness of campus programs.

Proration of Tuition

If a student withdraws from the University during a fall or spring semester, tuition and fees will be prorated over a period of nine weeks at a rate of approximately one-tenth of the term's bill each week. If a student withdraws during a summer session, tuition and fees will be prorated over a period of three weeks at a rate of one-fourth of the term's bill each week. If a student drops the only course he or she is taking, this constitutes a withdrawal from the University.

Residence Status for Tuition Purposes


The following sections summarize important aspects of the residency law. A 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 (hereafter referred to as the "manual"). This manual and other information concerning the application of this law are available for inspection in the Admissions Office of the University. Copies of the manual are also on reserve at the Robert B. House Undergraduate Library and in the Reserve Reading Room of the Health Sciences Library. All students are responsible for knowing the contents of the statute and the manual. The manual is also available online at regweb.unc.edu/residency. It is a reader-friendly version, written for laypeople rather than for legal personnel.

Every applicant for admission is required to make a statement of his or her length of residence in North Carolina. A person who qualifies as a resident for tuition purposes under North Carolina law pays a lower rate of tuition than a nonresident. To qualify for in-state tuition, a legal resident must have been domiciled in North Carolina for at least 12 months immediately prior to the beginning of the term for which classification is sought. A resident for tuition purposes is one who is not originally from the state but has been domiciled in the state for a period of 12 months. The period of 12 months in North Carolina is measured from the date of the applicant's arrival in the state until the date of the applicant's graduation. The 12-month period begins on the date the applicant was first present in the state during which 12-month period was for purposes of maintaining a bona fide domicile rather than for purposes of maintaining a mere temporary residence incident to enrollment in an institution of higher education. Domicile means one's permanent home of indefinite duration, as distinguished from a temporary abode. Domicile is synonymous with legal residence and is established by being physically present in a place with the concurrent intent to make that place a domicile. To determine intent, the University evaluates an individual's objectively verifiable conduct as an indicator of his or her state of mind.

Procedural Information

General. A student admitted to initial enrollment in an institution or permitted to reenroll following an absence that involved a formal withdrawal from enrollment is classified by the admitting institution either as a resident or as a nonresident for tuition purposes prior to actual matriculation. In the absence of current and final determination of the student's residence prior to matriculation, the student is classified as a nonresident for tuition purposes. The institution will thereafter make a final determination of the student's residence status. Unless a person supplies enough information to allow the admissions officer to classify him or her as a resident for tuition purposes, the person will be classified a nonresident for tuition purposes. A residence classification once assigned (and confirmed pursuant to any appellate process invoked) may be changed thereafter (with a corresponding change in billing rates) only at intervals corresponding with the established primary divisions of the academic calendar.

Transfer Students. When a student transfers from one North Carolina public institution of higher education to another, he or she shall be classified as a new student by the institution to which he or she is transferring and must be assigned an initial residence classification for tuition purposes. The residence classification of a student by one institution is not binding on another institution. The North Carolina institutions of higher education will each establish the classification and classification standards by which it classifies a student to another classifying institution upon request. A student or prospective student, who wants the University to consider his or her "residency" classification by another North Carolina public higher education institution, must include, with his or her application for resident status, copies of all the information concerning his or her status at the time that institution classified the student a resident for tuition purposes.

The transfer into or admission to a different component of the same institution (e.g., from an undergraduate to a graduate or professional program) is not construed as a transfer from one institution to another and thus does not thereby require a reclassification inquiry unless the affected student requests a reclassification inquiry or (2) the transfer or enrollment occurs following the lapse of more than one quarter, semester or term during which the individual was not enrolled as a student.

Residency Status of Students. Any student who is uncertain about the accuracy of his or her current residence classification for tuition purposes is responsible for securing a ruling by completing an application for residency classification and filing it with the admissions officer. The student who subsequently becomes eligible for a change in classification, whether from out-of-state to in-state or the reverse, is responsible for immediately informing the Office of Admissions in writing of his or her new status. Failure to give complete and correct information regarding residence constitutes grounds for disciplinary action.

Application Process. A person may obtain an application for resident status by visiting the University's admissions office or by going online to regweb.unc.edu and clicking on "residency." Also available on the web site is the resident status manual which sets forth the requirements of the statute. Applicants for admission who claim eligibility for in-state tuition rate customarily complete a two-page residency application as part of the admissions application packet. If a person has not been living in North Carolina for at least three consecutive years, he or she would complete the four-page "long form." Even if a person completes the two-page residency application, some applicants for admission will nonetheless be required to complete a complete two-page residency application. Enrolled students seeking a change from nonresident to resident status are required to complete a four-page residency application. All applications for resident status must be filed with the proper admissions office before the end of the term for which resident status for tuition purposes is sought. The last day of the final examination period is considered the last day of the term.

After filing a resident status application, a person may receive a letter from his or her admissions office requesting more information in connection with that application. When a student receives such a request before the end of the term, which classification is sought, he or she must respond to that request no later than three weeks after the end of the term. If the student receives the request for supplemental information after the end of the term in question, he or she must supply the requested information within three weeks after receipt of the request. Failure to supply the requested information within the specified time limit will result in a continuation of the student's nonresident classification unless good cause is shown for such failure.
The admissions office may require an applicant for admission to file a residency application or respond to a request for more information more quickly when residence status is a factor in the admissions decision.

For more details about the residency application process and other important information about the resident status for tuition purposes statute, visit the Web site of the UNC System and click on "Residency - Student Residency Applications." If a student is classified as a resident for tuition purposes after submitting falsified residency information or after knowingly withholding residency information, the student’s application for in-state tuition status is fraudulent. The institution may reexamine any application suspected of being fraudulent and, if warranted, will change the student’s residence status retroactively to the beginning of the term for which the student originally made the fraudulent application. If this occurs, the student must pay the out-of-state tuition differential for all the enrolled terms intervening between the fraudulent application and its discovery. Further, knowing falsification of responses on a resident status application may subject the applicant to disciplinary action, including removal from the institution.

Burden of Proof and Statutory Prima Facie Evidence. A person has the burden of establishing facts that justify his or her classification as a resident for tuition purposes. The balancing of all the evidence must produce a preponderance of evidence supporting the assertion of in-state residence. Under the statute, proof of resident status is controlled initially by one of two evidentiary burden points which are stated in terms of prima facie evidence:

a. Even if the person is an adult, if his or her parents (or court-appointed guardian in the case of some minors) are not legal residents of North Carolina, this prima facie evidence that the person is not a legal resident of North Carolina. If the person has been married or is a domiciliary of the state for five years prior to enrolling or registering to attend school. To overcome this prima facie showing of nonresident, a person must produce evidence that he or she is a North Carolina domiciliary despite the parents’ nonresident status.

b. Conversely, if the person’s parents are domiciliaries of North Carolina under the Statute, this fact constitutes prima facie evidence that the person is a domiciliary of North Carolina. This prima facie showing may also be overcome by other evidence to the contrary. If a person has neither living parents nor legal guardian, the presumptive prima facie evidence rule cannot and does not apply.

Erroneous Notice Concerning Classification. If a student who has been found to be a nonresident for tuition purposes receives an erroneous written notice from an institutional officer identifying the student as a resident for tuition purposes, the student is not entitled to receive the benefit of paying the out-of-state tuition differential for any enrolled term beginning before the classification institution notifies the student that the prior notice was erroneous.

Grace Period. If a student has been properly classified as a North Carolina resident for tuition purposes and, thereafter, his or her state of legal residence changes while he or she is enrolled in a North Carolina public institution of higher education, the statute provides for a grace period during which the student is allowed to pay tuition at the in-state rate despite the fact that the student is no longer a North Carolina legal resident. This grace period extends for a minimum of 12 months from the date of change in legal residence, and if the 12-month period ends during a semester, academic term or in which the student is enrolled, the grace period extends to the end of that semester or academic term.

Reacquisition of Resident Tuition Status. The prescribed 12-month period of legal resident status may be shortened if the person seeking to be classified as a resident for tuition purposes was formerly classified a North Carolina resident for tuition purposes, abandoned North Carolina domicile, and reestablished North Carolina domicile within 12 months after abandoning it. Interested persons should consult their admissions offices for a detailed explanation of the conditions which must be met to qualify under this section.

Appeals. A student appeal of a classification decision made by any admissions officer must be in writing and signed by the student and must be filed by the student with that officer within 15 working days after the student receives notice of the classification decision. The appeal is transmitted to the Residence Status Committee by that officer, who does not vote in that committee on the disposition of such appeal. The student is notified of the date set for consideration of the appeal, and on request of the student, he or she is afforded the opportunity to appear and be heard by the committee. Any student desiring to appeal a decision of the Residence Status Committee must give notice in writing of that fact (within 10 days of receipt of the committee’s decision) to the chair of the Residence Status Committee, and the chair promptly processes the appeal for transmission to the State Residency Committee.

Tuition Payment. 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 tuition billing pays the nonresident rate. Conversely, if a student is classified as a resident at the time of billing, he or she pays the resident rate. Any necessary adjustments in the rate paid will be made at the conclusion of the appeal.

Application of the Law to Specific Situations

Aliens. Aliens who are permanent residents of the United States, or who hold a visa that will permit eventual permanent residence in the United States, are subject to the same considerations with respect to determination of legal residence as citizens. An alien abiding in the United States under a visa conditioned at least in part upon intent not to abandon a foreign domicile (e.g., B, F, J, P, Q, and S visas) cannot be classified a resident. An alien abiding in the United States under a visa issued for a purpose that is so restricted as to be fundamentally incompatible with an assertion of the alien’s bona fide intent to establish a legal residence (e.g., C, D and M visas) cannot be classified a resident.

Possession of certain other immigration documents may also allow an alien to be considered for in-state tuition status. For more details, aliens should consult their admissions offices and the manual. All aliens must file a Residency Status Supplemental Form in addition to the forms normally required of applicants for resident status for tuition purposes. Aliens should also provide a copy of the front and back of the document(s) that they claim allow them to remain in the United States and establish a legal residence. More information concerning alien resident status for tuition purposes information and supplemental application may be found online from the institution.

Married Persons. The North Carolina resident status for tuition purposes statute provides a special provision for legal residents who are married. This provision is called the "spouse-pair" provision.

The domicile of a married person, irrespective of sex, is determined by reference to all relevant evidence of domiciliary intent. No person is precluded, solely by reason of marriage to a person domiciled outside of North Carolina, from establishing or maintaining legal residence in North Carolina. No person is deemed, solely by reason of marriage to a person domiciled in North Carolina, to have established or maintained a legal residence in North Carolina. The domicile of the spouse to whom the domiciliary of the state is married is deemed relevant evidence to be considered in ascertaining domiciliary intent.

If a person otherwise can demonstrate compliance with the fundamental statutory requirement that he or she be a legal resident of North Carolina before the beginning of the term for which resident status is sought, the second statutory requirement relating to the location of the residence of the resident is satisfied derivative, in less than 12 months, by reference to the length of the legal residence of the person’s spouse, if the spouse has been a legal resident of the state for the requisite 12-month period.

Please note: If a person feels he or she qualifies for the marital status provision, special application procedure must be followed. A separate supplemental formal residency application should be filed at the same time as either the short or long residence form is submitted. The spousal residency application may be filed after an admissions officer’s initial decision if the student seeks to appeal that decision. The admission office residualization decision letter provides instructions on where to file the appeal (with or without a spousal residency application). Residency applications of persons who are married and claiming the North Carolina “spouse-pair” provision are not to be submitted to the admissions office. They should be filed to the Residence Status Committee Office located in the University Registrar’s Office on campus. Applications are available online at regweb.unc.edu/residency.

Military Personnel. The domicile of a person employed by the federal government, Department of Defense, is not necessarily affected by assignment in or reassignment out of North Carolina. Such a person may establish domicile by the usual requirements of residential act plus intent. No person loses his or her in-state resident status solely by serving in the armed forces outside of the state of North Carolina. Any noncitizen entitled to any benefits provided to military personnel and their dependents.

Milsons. A minor is any person who has not reached the age of 18 years. Under the common law, a minor child whose parents are not divorced or legally separated is presumed to have the domicile of his or her mother. This presumption may be rebutted if a preponderance of the evidence indicates that the mother and father have separate domiciles and that, under the circumstances, the child can fairly be said to derive his or her domicile from the mother. If the father is deceased, the domicile of the minor is that of the surviving mother. If the parents are divorced or legally separated, the domicile of the minor is that of the parent having custody unless, if the custody has been granted by a court having jurisdiction over the minor’s person and property, the location of the domicile of the child is that of the parent with whom the child resides; or, if the minor resides with both parents, in the absence of a custody award, the domicile of the minor is presumed to remain that of the father. If the minor lives for part of the year with each parent, in the absence of a custody award, the minor’s domicile is presumed to remain that of the father. If the minor has lived in North Carolina for five years as set forth above in Burden of Proof and Statutory Prima Facie Evidence, subsection a, the common law presumptions do not absolutely control on the issue of the minor’s domicile, but they continue to be very strong evidence thereof.

In determining residence status for tuition purposes, there are three exceptions to the above provisions:

If a minor’s parents are divorced, separated or otherwise living apart and one parent is a legal resident of North Carolina, during the time period when that parent is entitled to claim, and does claim, the minor as a dependent on the North Carolina individual income tax return, the minor is deemed to be a legal resident of North Carolina for tuition purposes, notwithstanding any judicially determined custody award with respect to the minor.
If immediately prior to his or her 18th birthday a person would have been deemed a North Carolina legal resident under this provision but he or she achieves majority before enrolling in a North Carolina institution of higher education, that person will not lose the benefit of this provision if the following conditions are met:

a. Upon achieving majority the person must act, as much as possible, in a manner consistent with the right to be treated as a North Carolina legal resident in North Carolina; and

b. The person must begin enrollment at a North Carolina institution of higher education not later than the fall academic term next following completion of education prerequisite to admission at the institution.

If immediately prior to beginning an enrolled term the minor has lived in North Carolina for five or more consecutive years in the home of an adult relative (other than a parent) who is a legal resident of North Carolina, and if the adult relative during those years has functioned as a de facto guardian of the minor, then the minor is considered a legal resident of North Carolina for tuition purposes. If a minor qualified for resident status for tuition purposes under this provision immediately prior to his or her 18th birthday, then, upon becoming 18, he or she will be deemed a legal resident of North Carolina of at least 12 months’ duration.

Even though a person is a minor, under certain circumstances the person may be treated by the law as being sufficiently independent from his or her parents as to enjoy a species of adulthood for legal purposes. If the minor marries or obtains a judicial decree of emancipation under N.C. Gen. Stat. Sect. 7A-717, et seq., he or she is emancipated. The consequence, for present purposes, of such emancipation is that the affected person is presumed to be capable of establishing a domicile independent of that of the parents; it remains for that person (whether then demonstrating a separate domicile or not) to have been emancipated.

Prisoners. There are special provisions concerning domicile of prisoners. For more information, persons to whom these provisions may apply should consult the manual.

Property and Taxes. Ownership of property in or payment of taxes to the State of North Carolina apart from legal residence will not qualify one for the in-state tuition rate.

Students or prospective students who believe that they are entitled to be classified residents for tuition purposes should be aware that the processing of requests and appeals can take a considerable amount of time. A student is more likely to obtain a final decision on an application before tuition payment is due if he or she files the application several months in advance.

New Benefit for UNC Employees and Related Persons

A new subsection (m) has been added to the NC residency statute G.S. 116-143.1 that provides a new employment-connected benefit.

In the new subsection, full-time, permanent employees of UNC who are legal residents of North Carolina qualify for the in-state tuition rate even if they do not meet the 12-month requirement.

Further, this new classification category includes spouses and dependent children of the employee, the employee must be full-time, permanent, and a legal resident of North Carolina. Further, if it is a child who seeks to qualify, the child must be a dependent (as defined by tax dependency laws). Finally, if the person qualifies for this benefit, there is no limit on the number or type of courses for which the classification will apply. The effective date of this provision was July 1, 2005.

Please visit regweb.unc.edu/residency to learn more about residence status for tuition purposes.

Student Right-to-Know Act

Pursuant to the federal Student Right-to-Know Act, we report that, in 2005-2006, the completion or graduation rate for undergraduates who entered the University of North Carolina at Chapel Hill in 2000 on a full-time basis was 83.8 percent.

Students’ Education Records at the Office of the President, The University of North Carolina: Annual Notification of Rights

Certain personally identifiable information about students ("education records") may be maintained at the University of North Carolina Office of the President, which serves the Board of Governors of the University system. This student information may be the same as, or derivative of, information maintained by a constituent institution of the University; or it may be additional information. Whatever their origins, education records maintained at the Office of the President are subject to the federal Family Educational Rights and Privacy Act of 1974 (FERPA).

FERPA provides that a student may inspect his or her education records. If the student finds the records to be inaccurate, misleading or otherwise in violation of the student’s privacy rights, the student may request amendment to the record. FERPA also provides that a student’s personally identifiable information may not be released to someone else unless (1) the student has given a proper consent for disclosure or (2) provisions of FERPA or federal regulations issued pursuant to FERPA permit the information to be released without the student’s consent.

A student may file with the United States Department of Education a complaint concerning failure of the Office of the President or an institution to comply with FERPA.

The policies of the University of North Carolina Office of the President concerning FERPA may be inspected in the office at each constituent institution designated to maintain the FERPA policies of the institution. Policies of the Office of the President may also be accessed in the Office of the Secretary of the University of North Carolina, 910 Raleigh Road, Chapel Hill, NC.

Further details about FERPA and FERPA procedures at the Office of the President are to be found in the referenced policies. Questions about the policies may be directed to Legal Section, Office of the President, The University of North Carolina, Annex Building, 910 Raleigh Road, Chapel Hill, NC. Suitable address P.O. Box 2688, Chapel Hill, NC 27515-2688; tel: (919) 962-4588.

Tuition Waiver for Family Members of Deceased or Disabled Emergency Workers

The information in this section comes from three sources: (1) North Carolina General Statutes Section 115B-1 et seq., (2) University of North Carolina Administrative Memorandum No. 377 dated November 17, 1997, and (3) University of North Carolina Administrative Memorandum No. 385 dated August 6, 1998.

Certain family members of emergency workers killed or permanently disabled in the line of duty may become eligible for tuition-free enrollment.

The statute sets out the following requirements that must be met before the waiver can be obtained:

- the deceased or disabled emergency worker (firefighter, volunteer firefighter, law enforcement officer or rescue squad member) must have been a North Carolina legal resident (domicile) in active service or training for active service at the time of death or disability occurring in the line of duty;
- the emergency worker’s death or disability must have occurred on or after October 1, 1997;
- the emergency worker must have been employed by the State of North Carolina or any of its departments, agencies or institutions, or a county, city, town or other political subdivision of the State of North Carolina;
- the applicant for the tuition waiver must either be a child or unremarried widow or widower of a deceased emergency worker killed in the line of duty, or a spouse or a child (at least age 17, but not yet age 23) of an emergency worker who became permanently and totally disabled as a result of a traumatic injury sustained in the line of duty as an emergency worker;
- the applicant must qualify academically for admission to UNC-Chapel Hill, must meet all the requirements of the statute and implementing University regulations, and there must be space available in the course(s) for which he or she intends to register; and
- the completed application, with all supporting documents, must be submitted to the proper admissions office no later than the first day of class of the term for which the waiver is sought. If the applicant is under 18 years of age, a parent must also sign. The following documents are required as proof of eligibility for this tuition waiver:

- To prove permanent and total disability of an emergency worker:
  - Documentation of the permanent and total disability from the North Carolina Industrial Commission
  - Certificate of the cause of death from The Department of State Treasurer; or
  - The appropriate city or county law enforcement agency that employed the deceased; or
  - The administrative agency for the fire department or fire protection district that employed the deceased under the Department of State Auditor; or
  - The administrative agency having jurisdiction over any paid firefighters of all counties and cities

- To prove the parent/child relationship
  - Applicant’s birth certificate or legal adoption papers

- To prove the marital relationship
  - Applicant’s marriage certificate

Copies of the applicable law and implementing University regulations are on reserve in the Undergraduate Library and the Health Sciences Library. They are also available for inspection upon request in all UNC-Chapel Hill admissions offices and the Residence Status Committee Office. Applications can be acquired at the proper admissions office. More detailed information may be found online at regweb.unc.edu/residency.

Appeals of Eligibility Determinations of Admissions Offices must be in writing and signed by the applicant and must be filed by the applicant within 15 working days after the applicant receives notice of the eligibility determination. The appeal is submitted to the Residence Status Committee by the applicant who does not vote in that committee on the disposition of such appeal. The applicant is notified of the date set for consideration of the appeal, and, on request by the applicant, is afforded an opportunity to appear and be heard by the committee.

Any applicant desiring to appeal a determination of the Residence Status Committee must give written notice of that fact to the chairperson of the Residence Status Committee within 10 days of receipt of the committee’s decision. The chairperson will promptly process the appeal for transmittal to the State Residence Committee.
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