Western Carolina University is committed to equality of educational opportunity and does not discriminate against applicants, students, or employees based on race, color, national origin, religion, sex, age, sexual orientation, or disability. Moreover, Western Carolina University is open to people of all races and actively seeks to promote racial integration by recruiting and enrolling a larger number of African-American and other minority students.

For information concerning affirmative action policies and procedures, contact the Affirmative Action Office, 530 H.F. Robinson Administration Building, Western Carolina University, Cullowhee, North Carolina 28723, 704-227-7116.

The General Catalog Issue is one of two issues of The Record published by Western Carolina University giving full details of academic programs and regulations. The other is the Graduate Catalog Issue.

Copies of the appropriate issues are made available to all students registered at the university, high school principals and guidance counselors, college and university libraries, and all public and private high schools and institutions of higher learning in North Carolina. Additional copies are available for $2 each from the Office of Admissions, Western Carolina University, Cullowhee, N.C. 28723, 704-227-7317. Eighteen thousand copies of this public document were printed at a cost of $14,303, or $0.79 per copy.

THE WESTERN CAROLINA UNIVERSITY RECORD

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REGULATIONS SUBJECT TO CHANGE

Every effort has been made to assure the accuracy of this catalog to the extent possible at press time. However, changes in or elimination of provisions contained herein on any and all matters, including courses, course descriptions, designations of faculty, fees, and other charges, admission and degree requirements, and academic policies and procedures, may be made and applied before the next catalog is published. Students should contact the appropriate department head, dean, or other administrative office for current information.

Western Carolina University does not intend to enter into a contractual relationship with any student or other person through the issuance of The Record and does not intend to create any cause of action against the State of North Carolina, The University of North Carolina, the Board of Governors, the President, Western Carolina University (WCU), WCU’s Board of Trustees, WCU’s Chancellor, or any other officer, agency, agent or employee of the State, The University of North Carolina, or WCU.
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ACADEMIC CALENDAR

Fall Semester 1997

August 13-15, Wednesday-Friday

Orientation - Residence halls open for students attending freshman and transfer orientation
Registration in Asheville
Residence halls open for all students
Registration for new and transfer students returning and continuing students
Drop-add
Registration and advising
Freshman Convocation
All classes begin
Late Registration & schedule changes
Labor Day holiday

August 14, Thursday, 3-6 p.m.

Classes resume
Last day to drop a course with a W
Last day for students completing programs in May to file degree application in the deans' offices
Academic advising for spring semester and early registration in Cullowhee
Thanksgiving holidays

August 15, Friday, 9-11 a.m.

November 26-30

November 26-30

December 1, Monday, 8 a.m.

December 5, Friday

December 6-12, Saturday-Friday

December 13, Saturday

December 13, Saturday

Spring Semester 1998

January 4, Sunday, noon

Residence halls open
Registration in Asheville
Orientation for new students
Registration in Cullowhee for new and transfer students returning and continuing students
Drop-add
All classes begin
Late registration and schedule changes in Cullowhee
Martin Luther King Jr. birthday holiday
Last day to drop a course with a W
Spring holiday

January 5, Monday, 3-6 p.m.

January 5, Monday

January 6, Tuesday, 9-11 a.m.

January 7, Wednesday

January 7-13, Wednesday-Tuesday

January 19, Monday

March 2, Monday

March 7-15

Saturday-Sunday

March 16, Monday, 8 a.m.

March 16, Monday

March 16, Monday

March 23-April 9

March 23-April 9

Monday-Thursday

April 10-12, Friday, 8 a.m.-Sunday

April 13, Monday, 8 a.m.

April 13, Monday, 8 a.m.

Classes resume
Deadline for students completing programs in summer or fall to file degree applications in deans' offices
Academic advising for summer and fall semester and early registration in Cullowhee
Easter holiday
Classes resume

* The calendar applicable to graduate students may be found in the Graduate School Issue of The Record.

1 A late registration fee of $10 will be charged.
April 30 Thursday
May 1, Friday
May 2-8, Saturday-Friday
May 9, Saturday

(All Monday classes meet)
Last day of classes
Final examinations
Commencement

Summer Term 1998
May 28, Thursday, 4-6
June 1, Monday, 9-12
June 1, Monday-August 7, Friday
June 3, Wednesday-July 3, Friday
July 6, Monday-August 7, Friday
August 7, Friday

Registration in Asheville
Registration in Cullowhee
Summer session (ten-week session)
First summer session
Second summer session
Commencement

TELEPHONE NUMBERS

Area Code 704

Academic Advising .......................................................... 227-7170
Academic Affairs Office .................................................. 227-7495
Admissions, Readmissions ............................................... 227-7317
Book Store ...................................................................... 227-7346
Career Services ................................................................. 227-7133
Employment, Student ....................................................... 227-7134
Fees ................................................................................. 227-7334
Financial Aid, Loans, Scholarships ................................. 227-7290
Food Services .................................................................... 227-7396
Fraternities, Sororities, Clubs ........................................... 227-7234
General Student Information ............................................ 227-7234
Housing ............................................................................. 227-7303
International Students ....................................................... 227-7234
Orientation ........................................................................ 227-7234
Registrar, Student Records, Transcripts ......................... 227-7232
Colleges

College of Applied Sciences ............................................. 227-7272
College of Arts and Sciences ............................................. 227-7646
College of Business .......................................................... 227-7401
College of Education and Allied Professions .................... 227-7311
Graduate School ............................................................... 227-7398
Veterans Affairs ............................................................... 227-7234
THE UNIVERSITY

Western Carolina University is one of the sixteen public senior institutions of the University of North Carolina. It is a comprehensive university, authorized to offer programs of study at the baccalaureate, master's, intermediate, and doctoral levels. The university comprises four undergraduate colleges—Applied Sciences, Arts and Sciences, Business, and Education and Allied Professions—and a Graduate School. Statewide in scope, the university has a special sense of responsibility to the western region of North Carolina.

Role and Mission

The fundamental role of Western Carolina University is to foster a community of scholarship in which students, faculty members, administrators, and staff members learn and apply the products of learning. Teaching, service, and research missions are built upon this foundation of scholarship.

The most important activity at Western Carolina University is student-teacher involvement in learning. To this end, the university is committed to the preservation of small classes taught by fully qualified faculty members and to maintaining a climate in which teaching is valued and excellence in teaching is the norm. Excellence in teaching is also sustained through a series of ongoing university and state-wide programs which promote faculty knowledge and interaction concerning post-secondary teaching. Students are expected to take active responsibility for their learning. Students with a wide range of academic abilities and aptitudes may enter the university, but those who are graduated are expected to be knowledgeable in the perspectives included in general education; competent in critical thinking, logical reasoning, and in communication and research skills; aware of ethical and aesthetic values; and productive in employment and general life settings.

Scholarly service and research are essential to the goals of the university. The university encourages and supports service that extends the benefits of scholarship and the principle of lifelong learning to the people in the western region of North Carolina as well as to regional, state, national, and international constituencies. The university encourages and supports research and creative activity that provide opportunities for faculty members and students to engage in the exploration and development of knowledge and that support student-teacher interaction.

Principal Functions

The principal function of the university is to provide an academic curriculum appropriate to its role and mission, essentially for the benefit of the people of North Carolina. This curriculum is offered primarily in Cullowhee where creative teaching by a caring faculty in a residential setting creates an environment conducive to learning. In addition, graduate and undergraduate programs are extended to students through centers in Asheville and in Cherokee. Credit and noncredit courses also are sponsored in a variety of locations by the Division of Continuing Education.

The university's commitment to excellence in education at all levels is evident in its rich history of university-wide cooperation in the preparation of effective elementary and secondary school personnel, its establishment of partnerships with surrounding public school systems, its research and service activities within the educational community, and its selection as the host site for the North Carolina Center for the Advancement of Teaching.

Functions of specialized university centers and services include technical and research assistance in the development of human, economic, and natural resources in the southern Appalachian region of the United States; archival and museum activities that record and interpret the history of Western North Carolina, the Cherokee people, and the southern Appalachian region and help preserve their cultural artifacts; overseas educational ex-
changes and technical assistance projects, especially in less developed nations; summer programs for gifted, talented, and transitional precollege students; childhood developmental evaluation, as well as diagnostic and treatment programs in reading, speech and hearing, primarily for residents of western North Carolina; cultural enrichment of the university and regional communities through the fine and performing arts; and an array of activities dedicated to improving the quality of elementary and secondary school instruction and management and to increasing the quality of health care in the region.

Location

Western Carolina University is located in the scenic Appalachian mountain ranges at Cullowhee, North Carolina. The university consists of the main campus in Cullowhee and resident credit centers in Asheville and Cherokee. A faculty of about 335 serves a student body of almost 6,700 in resident-credit and extension classes.

The Cullowhee campus is in a rural valley between the Blue Ridge and Great Smoky mountains, fifty-two miles west of Asheville and seven miles south of Sylva on North Carolina Highway 107. The location at the southern end of Cullowhee valley in the heart of the Tuckasegee River basin gives it an unusually attractive setting. The closest airport to the university is located in Asheville, and there is airline service to Asheville. The university provides a bus service between Sylva and Cullowhee for students. Private taxi service also is available.

The central campus consists of about 265 acres, including beautifully wooded areas and modern academic, student residence, recreation, and athletic facilities. The Blue Ridge Parkway, Great Smoky Mountains National Park, Cherokee Indian Reservation, Fontana Lake, and numerous resort areas offer golf, skiing, fishing, hunting, hiking, water sports, and other recreational opportunities nearby.

Governance

Western Carolina University, a constituent institution of the University of North Carolina, functions under the jurisdiction of the Board of Governors of the University of North Carolina and the Board of Trustees of Western Carolina University. Policies of the Board of Governors are administered by the president and the General Administration of the University of North Carolina. The Board of Trustees receives its authority by delegation from the Board of Governors.

The chancellor is the chief administrative officer of the university. The Faculty Senate, the principal policy-recommending body of the faculty, operates under the provisions of a faculty constitution and bylaws.

Accreditation

Western Carolina University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097: Telephone number 404-679-4501) to award degrees at the baccalaureate, master's, and specialist levels. In addition to this institutional accreditation, other special accreditation by appropriate agencies includes these:

Technology Accreditation Commission of the
Accreditation Board for Engineering and Technology, Inc. (Manufacturing Engineering Technology and Electronics Engineering Technology)
American Assembly of Collegiate Schools of Business
American Chemical Society
American Dietetic Association (Approved Plan V Program)
American Association of Family and Consumer Sciences
American Speech-Language-Hearing Association
Commission on Accreditation of Allied Health Education Programs in cooperation with the
American Health Information Management Association, and the Joint Review Committee
on Educational Programs for the EMT-Paramedic
Council for Accreditation of Counseling and Related Educational Programs
Council on Social Work Education
National Accreditation Council for Environmental Health Science and Protection
National Accrediting Agency for Clinical Laboratory Sciences
National Association of Schools of Music
National Council for Accreditation of Teacher Education
National League for Nursing
North Carolina Board of Nursing
North Carolina Department of Public Instruction
Project Management Institute

The university is a member of appropriate state and national associations and organizations
to which its professional programs are related. These include but are not limited to:
Academy of Criminal Justice Sciences
American Association of Colleges for Teacher Education
American Association of Colleges of Nursing
American Association of Higher Education
American Association of State Colleges and Universities
American Council on Education
American Society of Allied Health Professions
Association for Theatre in Higher Education
Association for Continuing Higher Education
Association of Governing Boards of Universities and Colleges
College Entrance Examination Board
Conference of Southern Graduate Schools
Cooperative Education Association
Council of Graduate Schools in the United States
Institute for International Education, Inc.
International Council for Small Business
National Association of Student Financial Aid Administrators
National Business Education Association
National University Continuing Education Association
North American Association of Summer Sessions
North Carolina Academy of Science
North Carolina Association of Colleges and Universities
North Carolina Bar Association
North Carolina Criminal Justice Education and Training Standards Commission
Southeastern Theatre Conference
Southern Atlantic States Association for Asian and African Studies
Southern Regional Education Board
Southern States Communication Association
Speech Communication Association
United States Distance Learning Association
United States Institute for Theatre Technology

Academic Program

A varied academic program is offered by the university's four colleges. Through the
Graduate School, the university offers graduate degree programs in numerous major areas
leading to the Master of Accountancy, Master of Arts, Master of Arts in Education, Master
of Arts in Teaching, Master of Business Administration, Master of Health Sciences, Master
of Music Education, Master of Physical Therapy, Master of Project Management, Master of
Public Affairs, Master of School Administration, Master of Science, the Education Specialist
(on inactive status), the Certificate of Advanced Study in Counseling (on inactive status), and
the Doctor in Education. The programs leading to these degrees are listed in the Graduate
School section of this catalog, and complete information about them is available in the
Graduate Catalog Issue of The Record.
The four undergraduate colleges of the university offer programs leading to the Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Science, Bachelor of Science in Business Administration, Bachelor of Science in Education, and Bachelor of Science in Nursing.

**The College of Applied Sciences.** Bachelor of Science with majors in Birth-Kindergarten, Child Development and Family Relations; Clinical Laboratory Sciences; Clothing, Textiles, and Merchandising; Consumer Sciences; Criminal Justice; Electronics Engineering Technology; Emergency Medical Care; Environmental Health; Health Information Management; Health Services Management and Supervision; Hospitality Management; Industrial Distribution; Industrial Technology; Interior Design; Manufacturing Engineering Technology; and Nutrition and Dietetics. Bachelor of Science in Nursing.

**The College of Arts and Sciences.** Bachelor of Arts with majors in Anthropology, Art, Chemistry, English, French, Geology, German, History, Music, Philosophy, Political Science, Social Sciences, Sociology, Spanish, Speech and Theatre Arts, and Special Studies.

Bachelor of Fine Arts with majors in Art and in Theatre.

Bachelor of Science with majors in Anthropology, Biology, Chemistry, Communication, Computer Science, Geography, Geography/Planning, Geology, History, Industrial Chemistry, Mathematics, Natural Resources Management, Physics, Political Science, Social Sciences, Social Work, Sociology, and Special Studies.

**The College of Business.** Bachelor of Science in Business Administration with majors in Accounting, Business Administration and Law, Computer Information Systems, Economics, Finance, Management, Marketing, Office Administration, and Bachelor of Science with a major in International Business.

**The College of Education and Allied Professions.** Bachelor of Science in Education with majors in Communication Disorders, Elementary Education, General Special Education, Middle Grades Education, and Physical Education.

In collaboration with the College of Arts and Sciences: Bachelor of Science in Education with majors in Art, Biology, English, French, German, Mathematics, Music, Social Sciences, and Spanish.

In collaboration with the College of Business: Bachelor of Science in Education with a major in Business.

In collaboration with the College of Applied Sciences: Bachelor of Science in Education with a major in Family and Consumer Sciences.

Bachelor of Science with majors in Psychology, Sport Management, Recreational Therapy, and Parks and Recreation Management.

**The Academic Calendar**

Western Carolina University operates on an academic year of two semesters of fifteen weeks each. Additionally, a full array of programs and activities is offered during the summer term. Day classes are scheduled Monday through Friday. Night and Saturday classes, usually meeting once a week, are available in Cullowhee, Asheville, Cherokee, and various other locations. Commencement exercises are held at the end of the fall semester, spring semester, and the second summer session.

**Western Carolina University Programs in Asheville**

Western Carolina University offers, on the campus of the University of North Carolina at Asheville, a broad range of instruction at the advanced undergraduate and graduate levels, particularly in the areas of education, business administration, human resource development, nursing and health sciences, public affairs, engineering technology, and criminal justice. The
programs provided, intended principally for the residents of Buncombe and surrounding counties, are attended by students who commute from considerable distances throughout the region.

All of the course requirements for master's degrees in business administration, elementary education, English education, middle-grades education, health sciences, counseling, human resource development, mathematics education, general special education (with concentrations in behavioral disorders, learning disabilities, and mental retardation), public affairs, school administration, and school supervision are offered by the university. The Education Specialist degree is offered in educational administration and educational supervision. Two-year-college programs are available at the Master's and Ed.S. levels.

Some of the courses for master's degrees in business education, English, history, home economics, technology, mathematics, music education, physical education, project management, psychology, and science education are available. Also, some course work for the Doctor of Education degree in educational leadership is available. WCU programs in Asheville are affiliated with the Asheville Graduate Center.

Most of the course requirements for the bachelor of science degree in criminal justice and health services management and supervision are offered through the WCU Programs in Asheville. Through interinstitutional agreements, a program is available to students in Asheville leading to the Bachelor of Science in Nursing degree from Western Carolina University. Students enrolled in this program must complete their junior year of study on the Cullowhee campus. Registered nurses who are graduates of an Associate Degree or Diploma program can complete, in Asheville, all remaining requirements for the Bachelor's Degree. Also, through an interinstitutional partnership with Asheville-Buncombe Technical Community College, most of the course requirements for a Bachelor of Science Degree in electronics engineering technology, and manufacturing engineering technology are offered.

Western Carolina University administers its programs in Asheville through a staff whose offices are located in Room 120, Karpen Hall, on the campus of the University of North Carolina at Asheville. Additional information is available from Western Carolina University Programs in Asheville, One University Heights/UNCA, Asheville, North Carolina 28804-3299, or by telephoning (704) 251-6642, 251-6643, or 227-7423.

Western Carolina University Center in Cherokee

The Western Carolina University Center in Cherokee was established in 1975 in cooperation with the tribal government of the Eastern Band of the Cherokee Indians. The program at this resident-credit center serves Cherokee and the surrounding communities and is available to all of the people of the region. Offices of the center are located in Cherokee, (704) 497-7920, across from the Cherokee High School, and in the administration building at Cullowhee, (704) 227-7151.

Hunter Library

The library contains more than 550,000 books and bound periodical volumes, and one million units of microform. Approximately 2,400 serial subscriptions are received, including regional, national, and international newspapers. The annual addition rate of new materials is more than 15,000 items.

As a selective federal depository, the library holds more than 180,000 government documents and adds important items monthly. Of special interest is the North Carolina Documents Collection which houses publications generated by the state government.

Hunter Library is also a depository for maps published by the United States Geological Survey, the Defense Mapping Agency, and other federal agencies. The map room collection contains more than 110,000 sheet maps, over 600 atlases, and a small reference collection.
The Special Collections unit of Hunter Library maintains manuscripts collections, books, photographs, and other resources documenting the history of western North Carolina and Southern Appalachia, the history of the Cherokee Indians, literary works and papers of authors residing in or native to western North Carolina, the behavior of spiders, and the history of Western Carolina University.

As a service for professional education programs, a curriculum materials center is maintained that contains the state-adopted textbooks for North Carolina, curriculum guides, children’s literature, and manipulatives suitable for classroom use.

Hunter Library shares an on-line system with the libraries at Appalachian State University and the University of North Carolina in Asheville. Faculty, students, and staff may borrow materials from those libraries and generally receive them within seventy-two hours.

The library also provides access to online indexes, Infotrac, First Search, ERIC, Uncover, Chemical Abstracts, and Mathematical Reviews. In addition, the library offers the following CD-ROM bibliographic services: Compact Disclosure, MLA, Psyclit, Sport Discus, ERIC, Biography and Genealogy Master Index, and GPO.

Hunter Library provides library materials in UNCA’s Ramsey Library for Western Carolina University courses and programs offered on the Asheville campus.

Service and Research Centers

Faculty members and students participate in a wide range of service and research activity. The university’s service centers add impetus to the programs of the colleges and departments and provide significant assistance to the region in which the university is located.

Myron L. Coulter Faculty Center for Excellence in Teaching and Learning. This center provides services designed to assist all faculty on campus in achieving and maintaining excellence in their teaching. Extensive support is available for faculty who wish to use instructional technology in their teaching. The center also sponsors workshops, faculty project teams, and other special events designed to encourage instructors to talk about effective teaching and exchange creative ideas for enriching student learning. Activities and services typically include these:

- Consultation on course development, lesson plans, and applications of instructional technology
- The “Faculty Sandbox,” a place where faculty can develop instructional materials via computer
- Assistance in preparing to teach via distance education
- Computer classroom orientation and training
- Faculty Forum, a monthly publication featuring provocative opinion pieces by WCU faculty
- Faculty-to-faculty mentoring program
- A lending library of professional literature on college teaching
- Microgrants: travel funds for workshops on teaching
- Instructional Improvement Grants: funds for supplies and services for redesigning courses

Mountain Resources Center. The Mountain Resources Center (MRC) is a major technical assistance and service unit of Western Carolina University that extends the resources of the university beyond the campus. MRC is a recognized source of knowledge about western North Carolina, with special emphasis on rural economic and social development. Through counseling and technical assistance, planning and research support, data collection and analysis, specialized training, conferences, and workshops, MRC serves as a catalyst for economic and social development in Western North Carolina, the state, and the world. The center provides assistance for town, county, and state government; business and industry; educational and social agencies; chambers of commerce; citizens groups; civic clubs; voluntary and nonprofit organizations; and other special-purpose groups. MRC serves as the home for Western North Carolina Tomorrow (WNCT), a regional citizen-leadership organization; the Western and Catawba Valley regional offices of the North Carolina Small Business
and Technology Development Center; and a federal Economic Development Administration University Center. MRC encourages faculty and student involvement in its program activity, especially in the areas of economic development, human resources, natural resources, and international technical assistance and services.

**International Programs and Services.** The office of International Programs and Services (IPS) is the primary focus for information, coordination, and support of international activities for Western Carolina University. Activities are directed at student and faculty exchanges, academic programs, study abroad, research, university linkages, training, technical assistance, and enhancement of the international climate at WCU. IPS also serves as the headquarters of the Center for PVO/University Collaboration in Development, an association of more than thirty universities and private voluntary organizations cooperating in development activities throughout the world. IPS encourages student, faculty and public inquiries about international programs and activities available through WCU.

**Mountain Heritage Center.** The center collects, interprets, and disseminates knowledge about the southern Appalachian region and its people. It conducts research and collects and displays artifacts. It interprets the region's natural and cultural heritage through publications, exhibitions, and demonstrations. The center works with public schools in preparing programs for educational enrichment and provides an educational experience for university students through internships. Its essential objective is to promote public awareness of the rich traditions of the mountains.

**Reading Center.** In conjunction with academic programs for the preparation of reading teachers, the Reading Center in the College of Education and Allied Professions provides assessment of present reading strategies and an enrichment program for school-age children, as well as enrichment activities and reading improvement courses for college students and adults. A resource room in the Center provides literature, mathematics, social studies, and science materials, as well as teacher resources of many kinds. The staff provides consulting services, conducts workshops and conferences, and provides a variety of reading services for public schools in the area. The Center is located in Killian Building on the campus in Cullowhee.

**University Writing Center.** A staff of graduate assistants and peer tutors is available to assist students in developing skills for preparing essays, term papers, creative writing projects, articles for publication, and other purposes. Faculty members are encouraged to refer students to the center for general development of writing skills. Beginning with the writer’s initial ideas, tutors can help with brainstorming, prewriting, drafting, revising, editing, and proofreading. By offering the writer workable strategies, the tutors can move the student toward self-sufficiency. In addition to the one-on-one tutorial help, the center regularly offers mini-courses or workshops tailored to specific courses that emphasize writing and to specific problems exhibited by student writers. The Center is located in Hunter Library.

**Mathematics Tutoring Resource Center.** A student peer-tutoring program, staffed by undergraduate and graduate mathematics students, is available on a drop-in and individual appointment basis. Tutoring is offered in all lower-division undergraduate mathematics courses and beginning computer science courses. Tutoring experience is provided as a practicum for students majoring in mathematics education. The Resource Center has a small library of supplementary materials, including textbooks, computer-assisted instruction materials, and a few current periodicals in mathematics and computer science. The Center is located in Stillwell Building.

**Developmental Evaluation Center.** The Developmental Evaluation Center in the College of Education and Allied Professions is a service agency for the seven counties of Cherokee, Clay, Graham, Haywood, Jackson, Macon, and Swain, and the Qualla Indian Boundary. Projects are variously funded by the North Carolina Division of Maternal and Child Health; the Smoky Mountain Center for Mental Health, Developmental Disability, and Substance Services; local school systems; other community agencies; and Western Carolina University. The center provides developmental evaluation, recommendations for services, treatment, and guidance for families of newborns, infants, toddlers, and preschool children.
Special services are provided or located, if necessary, and progress is followed until the child enters a school program. The center’s program affords opportunities for training and research relevant to the university’s academic programs in child development, communication disorders, counseling, early childhood education, medical record administration, nursing, physical therapy, psychology, social work, and special education.

**Speech and Hearing Center.** The Speech and Hearing Center in the College of Education and Allied Professions is the primary clinical training site for students majoring in Communication Disorders. The Center provides outpatient diagnostic, treatment, and consultative services for persons with known or suspected speech-language-hearing disorders at its facilities on campus and in outreach clinics in Cherokee, Haywood, Jackson, and Swain counties. All personnel associated with the Center are appropriately certified and licensed in their respective fields.

**Highlands Biological Station.** The Highlands Biological Station is a regional field station where senior scientists and graduate students conduct research on the environments of the southern Appalachians. Located at Highlands, on a high plateau of the Blue Ridge Mountains south of Cullowhee, the station is administered by Western Carolina University. An interinstitutional facility of the University of North Carolina, it is partially supported by twenty-six southeastern universities.

**Mountain Aquaculture Research Center.** The center was established within the College of Arts and Sciences at WCU in 1988. Its mandate is to foster biotechnologically based research to support the economic sustainability of the aquaculture industry in western North Carolina. Research activities of the center are of both a basic and an applied nature. They are conducted in collaboration with faculty and students in the Departments of Biology, and of Chemistry and Physics, with the North Carolina Cooperative Extension Service, and with the commercial trout industry. Areas of research interest include culture characteristics of all-female and/or triploid rainbow and brook trout; identification of biochemical measures and DNA markers associated with sex, stress, and disease resistance, and other genetic traits of commercial interest; and monitoring impact and control of fish farm effluents.

**Center for Environmental and Energy Education.** The Western Carolina University Center for Environmental and Energy Education is one of several similar centers in a Tennessee Valley Authority-university network. The center identifies and coordinates the resources of this region in providing educational services addressing population, natural resources, and environmental changes.

**Center for Mathematics and Science Education.** The Western Carolina Center for Mathematics and Science Education in the College of Education and Allied Professions is one of ten centers comprising the North Carolina Mathematics and Science Education Network. The purpose of the center and network is to improve mathematics and science instruction in public and private schools by providing instructional activities for teachers, providing courses leading to certifications in mathematics and/or science, and conducting basic research.

**Office for Rural Education.** The Office for Rural Education in the College of Education and Allied Professions helps rural elementary and secondary schools improve the quality of their programs by conducting various types of studies, performing practical classroom research, providing instructional and administrative support services, and assisting in identifying alternative types of funding and instruction.

**Computer Center.** The Computer Center is responsible for providing, within the context of the WCU mission statement, the highest quality of computer information services to the campus community that allocated resources will allow. These services provide computing resources where students, faculty members, administrators, and staff members can develop a community of scholarship in which to learn and apply the products of learning.

The Computer Center provides planning and technical guidance in the integration of varied new and existing campus information technologies, and provides leadership in the efficient, effective, and timely use of a vital university resource-information. Located in the Forsyth building, the Computer Center reports to the Office of the Chancellor.
Computing facilities at WCU consist of two Digital Equipment Corporation (DEC) VAX 4000/700A computers. The computers operate as a cluster under the VAX/VMS operating system, supporting batch and interactive computing. Altogether, there are 384 terminal ports available. The VAX systems are interconnected with Ethernet, which allows users to select the resources they need between the systems.

The Computer Center supports a wide selection of software on the VAXs for academic computing. We are part of DEC's Education Initiative Program, better known as the Campus-Wide Software License Grant Program, which gives us access to a wide range of software products. Software programming languages include Basic, C, Fortran, Pascal, COBOL, and MACRO, with DATATRIEVE as a common report-retrieval language. The Student Information System (SIS), Financial Record System (FRS), Loans Management System (LMS), and Alumni Development System (ADS) are administrative software products from Systems & Computer Technology Corporation. The remaining administrative software applications have been developed by the Computer Center staff.

A variety of generalized programs for the solution of problems in statistics, numerical analysis, and other areas is available through the center's program library facilities. For large research problems and special applications, the computer resources of the North Carolina Supercomputer Center are available through the University of North Carolina Educational Computing Services (UNCECS). We are connected to the North Carolina Information Highway for data access to other locations. WCU is an INTERNET node and an active member of CAUSE and EDUCOM.

The Computer Center also supports the campus-wide network. The backbone between buildings is a FDDI dual optic fiber ring. Within each building is a central wiring closet with a router connecting departmental ethernet segments. Most departmental LANs use Novell servers. The campus-wide network is also connected to the state-wide NC-REN network which provides our Internet access. There are over 1,600 microcomputers in offices and lab facilities on campus. The Computer Center supports both DOS and Apple operating systems and various application programs. Site licenses have been established with Microsoft, WordPerfect, and Apple companies.

Office of School Services. The Office of School Services in the College of Education and Allied Professions maintains an inventory of campus resources that can be of service to the public schools through technical assistance or research initiatives. The office disseminates information on campus resources, receives requests for assistance from school districts, and directs requests to the appropriate campus resource.

Career and Academic Planning (CAP) Center. The CAP Center offers a wide range of services to students to help them with their career and academic planning. Services included are academic advising for freshmen and undeclared students; workshops, programs, and advisement for students in academic difficulty; career planning and testing; internships and cooperative education; assistance with student employment; special academic and personal support services, including services to students with disabilities; and job-placement assistance for seniors and alumni. This integrated approach to meeting the needs of students is highly personalized, and its ultimate objective is to help students prepare for a lifetime of living and learning.

Three federally funded programs for disadvantaged students are administratively a part of the CAP Center. They are the Upward Bound Math and Science Program, Talent Search, and Student Support Services. Upward Bound and Talent Search provide a wide range of support services to area middle and high school students. These services are designed to keep students in school and to provide post-secondary education and/or training. The Upward Bound Math and Science Program serves students from an eight-state region. Student Support Services assists WCU students with various academic and personal support services designed to improve the likelihood of graduation.

Continuing Education and Summer School. Through the Division of Continuing Education and Summer School, the instructional resources of all units of the university are made available to the people, businesses, industries, schools, organizations, and agencies of the region and the state. The division promotes and coordinates all noncredit and extension-
credit courses and programs as well as the university summer session and distance learning. Many noncredit programs, such as workshops, institutes, conferences, seminars, and short courses, are available for Continuing Education Unit (CEU) credit or Teacher Certificate Renewal Credit.

A full summer academic program at the graduate and undergraduate levels is offered in Cullowhee and in Asheville. Special short courses, workshops, and institutes in a number of subjects are available at these locations and in Cherokee. A preliminary schedule is available in late January and a summer school updated listing of the courses and programs offered is available in March of each year.

**Conferences.** The division is equipped to advise, assist, and provide administrative support in the delivery of conferences which have an educational purpose. Experienced staff can develop budgets; assist in program planning; secure appropriate facilities; arrange for lodging, meals, banquets, and tours; provide brochure design, printing, and mailing service; handle registrations; and manage financial details. Conference participants may be housed in campus facilities or off-campus commercial settings depending on the university calendar and the preference of sponsors.

**Continuing Professional Education.** With the rapid explosion of new knowledge and technologies, up-to-date information is vital for today's professional. A wide range of opportunities is available for continued learning in many fields. Programs can be tailored to meet specific organizational needs and to assist in corporate training efforts at any site.

**Distance Learning**

Assistance is provided for all academic and supporting units of the university to extend their resources using a variety of telecommunications technologies. Training and technical support is available to design and deliver academic programs and courses as well as video conferences and meetings to include audiences at distant sites. Distance learning resources include computer conferencing, video conferencing, and correspondence courses.

**Elderhostel.** This national program for people fifty-five years of age or older is offered on campus every summer and in the spring and fall at selected off-campus locations. Elderhostelers live in a residential setting and attend three classes each day for a week. They enjoy various types of entertainment in the evenings. The weekly fee includes room, board, classes, and extracurricular activities. A limited number of local commuter spaces are available in each session.

**Listener's Program.** The Listener's Program provides persons who are not currently enrolled in a college or a university the opportunity to attend selected undergraduate-level classes on a noncredit basis. Information about eligibility, courses, conditions of class attendance, and permits is available from the Division of Continuing Education and Summer School.

**Summer School Programs for Youth.** Under the leadership of various schools and departments, a number of summer programs are available for young students: the Cullowhee Experience is designed to challenge the gifted and talented in grades 5-10; the Legislators' School provides leadership training for youth in grades 7-12; and Summer Ventures provides enrichment in the sciences and mathematics. Physical and recreational programs are also offered.

**Special Summer Events.** Each year, the campus hosts a number of special activities enjoyed by students and citizens of western North Carolina. In addition, visiting artists and students enrich campus life with exhibits and displays in a variety of media.

**Speaker's Bureau.** The Speaker’s Bureau represents administrators, faculty, and staff from all areas of the university who are prepared to share their knowledge and experience with organizations in the region. These men and women are available to provide stimulating programs to corporate or community groups. Arrangements to schedule a speaker should be made through the Division of Continuing Education and Summer School.
Ramsey Regional Activity Center

The Liston B. Ramsey Regional Activity Center, adjacent to E. J. Whitmire Stadium, is the largest, most versatile public-assembly facility of its kind in western North Carolina. The center boasts a seating capacity of over 8,000 people and houses offices of Ramsey Center administration, the Department of University Athletics, and University Publications. Through a network of movable curtains, the Center can be transformed from a major concert venue or sports arena to a more intimate theatrical setting.

Ramsey Center's multipurpose design and excellent facilities provide for a wide variety of activities ranging from WCU basketball to major concerts, theater and television productions, workshops, banquets, receptions, and conferences. A ticket office, racquetball courts, weight room, and rifle range are also located in the Ramsey Regional Activity Center.

Other Offices and Services

Research and Sponsored Programs. The university's program to obtain contracts and grants for research and sponsored programs is the responsibility of the Office of Research and Graduate Studies. The office is the source of information about contract and grant possibilities and is the channel through which all faculty and staff proposals are submitted for university approval. They are then sent to the appropriate sponsoring agency. The staff assists faculty, staff, and students in the preparation of proposals, including budget development.

University Planning. The Office of University Planning is responsible for coordinating university strategic planning and assessment activities, conducting institutional research and assisting university departments with surveys, and providing university statistical information requested by other agencies. The Office is responsible for the publication of the University Fact Book.

University Services. The Office for University Services is responsible for institutional services in several programs, including the Cherokee Center, the Mountain Heritage Center, the Center for Improving Mountain Living, and the International Development Program. The office acts as liaison with regional, national, and international groups and agencies and coordinates the university's regional economic development initiatives and its international assistance and development programs.

University Advancement. The Office for University Advancement facilitates and supports collaborative university-wide efforts in fund raising, alumni affairs, institutional marketing, and student recruitment. The Development Foundation of Western Carolina University, Inc., founded in 1971 to promote the welfare and educational goals of the University, is housed administratively in Advancement, as are the offices of the Alumni Affairs, Catamount Club, Loyalty Fund, and Major Gifts programs. All institutional initiatives involving fund raising from private sources are coordinated through the University Advancement Office.

Public Information. The Office of Public Information is responsible for the administration of university programs in public information and publications. It is the liaison between university personnel and the news media, including newspapers and radio and television stations, and coordinates the planning and design of all university publications, exhibits, and displays including those in electronic formats. It is responsible for producing or arranging for production of all university film, video, electronic media, and slide-tape presentations intended for the public.

N.C. Center for the Advancement of Teaching

The North Carolina Center for the Advancement of Teaching was established by the General Assembly of North Carolina in 1985 as a statewide center to recognize and support outstanding North Carolina public school (pre K-12) teachers, and to enhance teaching as an art and profession. The center is located west of the WCU campus. A unit of the University of North Carolina, it is governed by a board of trustees, and its programs and activities are conducted by a professional staff of faculty and administrators.
Institute for College and University Teaching. The Institute for College and University Teaching (ICUT) promotes excellence in teaching among faculty members and higher education institutions in North Carolina and across the Southeast. The Institute designs and organizes programs for college and university faculty members on issues of teaching, learning, and student development. It promotes development of collaboration and partnerships among educators and education institutions of all types and at all levels. Dedicated to elevating the role and professional practice of teaching within higher education, the Institute provides a climate for post-secondary faculty to deepen their understandings of the art and science of teaching.

Vocational/Technical Instructor Project. An integral part of the Institute for College and University Teaching, this project provides assistance to instructors in the North Carolina Community College system desiring to earn a bachelor’s degree. Degree requirements may be met by a combination of transfer credit, experiential learning credit, and WCU credit. Courses are offered at locations and times convenient for program participants. The project provides funds for tuition and fees for qualified vocational/technical instructors.
Services are provided at Western Carolina University to further each student's academic and social development. The Office for Student Development has overall responsibility in this area, and its functions include providing comfortable housing, helping students adjust to campus life through orientation programs, providing programs of financial aid, counseling services, and health care, and enhancing the college environment with recreational and cocurricular activities.

Housing

The university’s eleven residence halls are an important part of campus life, offering a variety of experiences that can contribute to intellectual, personal, and social development. The residence halls are staffed by professional personnel who are responsible for the welfare of students living on campus and for the upkeep of the buildings.

The halls are open to all students, undergraduate and graduate, to the extent available. Freshmen are required to live on the campus. This requirement may be waived if the student lives with parents, legal guardians, grandparents, or brothers and sisters, or is married. Waivers for other reasons are decided by the Assistant Vice Chancellor for Student Development and the Director of University Housing.

All rooms are equipped to accommodate two students. There are no single rooms, but private occupancy may be arranged for an additional fee, if space is available.

Each room is furnished with single beds, study desks, chairs, dressers, and closets. Students provide their own pillows, bed linens, towels, lamps, clocks, wastebaskets, and telephones. They also may bring computers, radios, stereos, and television sets as long as outside antennae are not required. Cable television is available in public areas. Cable television service is also available in each room as an option to students who contract individually with a local commercial cable company serving the campus. Other facilities include vending machines, post office boxes, and coin-operated washers and dryers. Local telephone service is included in the housing fee. If the student requests long distance service, he or she is assigned a personal security code and will be responsible for those charges.

**Room Reservations.** A student may reserve a room by sending a $75 reservation/damage deposit and a signed application/contract card to the Department of University Housing. This should be done within four weeks after the student is admitted to the university. If all rooms are filled, the student will be notified and placed on a waiting list until a vacancy occurs.

Students who plan to be roommates should make their reservations at the same time. It is especially helpful if the deposits and contract cards are mailed in the same envelope. The Department of University Housing reserves the right to make reassignments when necessary. Students who wish to change rooms must get approval in advance from the Department of University Housing.

Students may move into the residence halls as early as noon on the day before registration. Freshmen and transfer students who need to arrive earlier for orientation programs will be admitted if they have been given approval by the Department of University Housing. Students who have official university duties also may arrive earlier if the Department of University Housing is notified in advance. A small fee is charged when students move into the halls before the official opening date. Unless the Department of University Housing is notified of late arrival, reservations expire at noon on the first day of classes.

**Residence Hall Contract.** Each student residing in a residence hall signs a contract with the university for the regular academic year, or any part of the year remaining when the student moves into the residence hall. The contract outlines the responsibilities of the student and the university and is a legally binding agreement. It may be cancelled by the student or the university only under conditions outlined in the contract.
**Deposit.** The $75 room-reservation deposit serves to reserve a room for each successive semester until graduation or until the student leaves the residence halls. It also serves as a damage deposit. The deposit will be refunded after the last term of residence, less damage charges and other university debts. Students should notify the Department of University Housing during their last term in residence so that the refund can be processed. The refund and penalty schedules are included in the residence hall contract.

**Summer School Reservations.** To reserve rooms in the residence halls for a summer term, new students send a $75 room-reservation/damage deposit and a signed application contract to the Department of University Housing. If a student has an active contract, he or she is required to fill out a summer school contract with the Department of University Housing. The deposit is refundable if the student notifies the Department of University Housing of the cancellation by May 15.

**Housing for Married and Graduate Students.** Robertson Hall is available for married students. It consists of thirty-seven efficiency and five one-bedroom apartments. Madison Hall is available for graduate students; it offers forty-one private rooms with private baths and is an air-conditioned, nonsmoking hall.

**Residence Hall Regulations.** For health and safety reasons, and because of legal statutes, the university is unable to allow certain items in resident housing. These items include body building equipment, cooking appliances, fireworks, outside antennae, radio transmitters, air conditioners, firearms, ammunition, explosives, water beds, and dart and archery equipment. To ensure the welfare of residents, certain harmful activities are not permitted. These include fighting, wrestling, gambling, vandalism, or littering in or around the buildings. Students who are involved in the damage or loss of residence-hall property will be required to pay for the cost of repair or replacement, or to share in such costs if more than one student is responsible for the damage or loss.

Housing inspections or investigations for purposes of safety, health, maintenance, sanitation, or reasonable cause are proper responsibilities of the Department of University Housing and are not to be interpreted as an invasion of privacy. Information about investigations or searches is contained in the Student Bill of Rights, Article 6, Section B.

The university extends to students the privilege of visiting with members of the opposite sex in residence hall rooms. Guidelines for guest visitation are established by each hall. All resident students and their guests are expected to follow the rules and regulations of the university as well as state and federal laws.

**Off-Campus Housing.** Students who plan to live off campus make their own living arrangements. It is a good idea to inspect the facilities before making any housing agreement and to obtain a written contract outlining the responsibilities of the renter and landlord. Students who move from the residence halls to off-campus locations must notify University Housing and receive approval in advance. Students living off campus are governed by the rules and regulations of the university while on campus. All freshmen are required to live on campus.

**Student Activities and Services**

A variety of programs, activities, and services identified with everyday living are available on campus. Students are encouraged to choose and participate in extracurricular activities wisely and balance them with their academic endeavors. The student activity fee helps to support many of these activities and services as well as a number of cultural and variety programs. The fee also supports the campus radio station, newspaper, literary magazine, and yearbook.

Voluntary associations of students on the campus are recognized as an important part of the educational process. More than one hundred recognized campus organizations provide students opportunities to explore their religious, political, professional, social, or special interests and to be recognized for their academic and personal achievements.
Student Government. The Student Government Association (SGA) is an active, vital part of the university community. Each student has the right to vote in all student elections and may participate in SGA by running for office or by applying for an appointive position. The SGA appoints voting members to committees of the Faculty Senate, and the president of SGA is an ex officio member of the university's Board of Trustees.

A. K. Hinds University Center. The University Center, a major division of the Office for Student Development, is the hub of campus activity. It houses the offices of the SGA, Last Minute Productions and University Center staff, a ballroom, several meeting and conference rooms, an art gallery, food service, outdoor rental, a television lounge, and billiard room. Through functions such as dinner on the lawn, films, dances, concerts, canoe trips, and various other events, the center caters to the needs of the entire university community. Many activities are planned and organized by the students themselves through a Last Minute Productions program committee.

Recreation, Fitness and Sports

The facilities of the Reid Health and Physical Education Building, Breese Gymnasium, and A. K. Hinds University Center make possible a rich recreational program. Indoor and outdoor recreation includes tennis, volleyball, basketball, swimming, bowling, handball, racquetball, softball, badminton, table tennis, and archery. An indoor fitness center is available for students, faculty, and staff members.

Cullowhee's location offers excellent opportunities for mountain climbing, fishing, skiing, hunting, golf, boating, and camping. Students may easily visit the Great Smoky Mountains National Park and other nearby places of interest.

Intramurals. The university offers a comprehensive intramural sports program for all students that includes more than thirty-five team, individual, and coed sports.

Athletics. The university provides a full program of fourteen intercollegiate sports. Athletic teams play a full schedule in football, baseball, men's and women's golf, men's and women's basketball, women's volleyball, men's and women's indoor and outdoor track, men's and women's cross country, and women's tennis. The university is a member of the National Collegiate Athletic Association (NCAA Division I) and the Southern Conference. A standing committee of the Faculty Senate is responsible for reviewing and recommending policy regarding intercollegiate athletics.

Health Services

Routine and urgent health care are provided by the University Health Service. Outpatient medical care as well as inpatient services, usually at no additional charge, are provided to students. Policies concerning outpatient services available to university employees are stated in the Faculty Handbook.

The Health Service does not assume responsibility for complicated or chronic mental or physical illness, surgical and dental operations, X-ray procedures, and needs that require the care of specialists. However, referral service is available.

Physician, nurse, and laboratory personnel and outpatient and inpatient facilities are housed in the Graham Infirmary where consultation hours are posted. For emergency referrals and health service information, the telephone number is 227-7640.

A complete medical record is required of all students entering the university. Additional information for updating during the period of actual attendance may be requested. New students are required by North Carolina General Statute 130A-155.1 to have the following current immunizations: diphtheria-pertussis-tetanus or tetanus-diptheria, measles (rubeola), rubella, and polio. Evidence of the immunizations should be in the student's records at the time of registration. If this evidence is not present, the student will have thirty days to correct the deficiency. If the deficiency is not corrected in this time period, the student will not be allowed to continue to attend the university.
Health Insurance. An accident and hospitalization group insurance policy is available to students from an approved commercial agent at registration. The coverage is optional, but it is strongly recommended that all students have some form of insurance to cover the cost of medical treatment not available through the University Health Service. Health insurance coverage is mandatory for international students. International students must purchase or prove coverage of comprehensive medical insurance before being allowed to register for classes. The insurance must be paid in full in advance and in effect for the entire academic year. More information is available from the Office for Student Development.

Mental Health Services

The Counseling and Psychological Services Center and the Testing Center. The Center provides free and confidential student services including individual and group counseling and therapy, emergency on-call, consultation, and outreach programming to aid students with educational, personal, or psychological concerns. Testing includes the Graduate Record Examination, The Praxis Series (PPST and NTE), Medical College Admission Test, Scholastic Aptitude Test, Law School Admission Test, Graduate Management Admission Test, Miller Analogies Test and College Level Examination Program (CLEP). Appointments can be made at 227-7469, Scott Building (East Wing).

Other Services and Facilities

New Student Orientation. To make the transition to college life easier, Western offers a summer orientation program for new freshmen and their parents and a program for transfer students. Students attending orientation have a chance to meet other new students, take placement exams, talk to an academic adviser, and register for their fall classes. Orientation is the time for students and parents to become familiar with the university and how it operates, to meet the faculty, and to learn more about the demands and concerns that accompany campus life.

Adult Fitness Program. The Adult Fitness Program in the College of Education and Allied Professions provides programs in exercise, diet, and stress management for faculty, staff, and the local community.

The Office of Special Programs/Teaching Fellows Program. The Office of Special Programs/Teaching Fellows Program in the College of Education and Allied Professions assists in organizing special events in the college (e.g., student recruitment activities, scholarship awards, Odyssey of the Mind Tournament) and coordinates the North Carolina Teaching Fellows Program for the university.

Teacher Placement Service. Placement services are available to all teacher-education graduates and alumni who seek employment in the field of education through the Career Advisement and Placement Center, 80 McKee Building.

Department of Veterans Affairs Educational Benefits. This institution is approved under the provisions of Title 38 United States Code, Chapter 36. Persons eligible and entitled under provisions of Chapters 30, 31, 32, 34, 35 and Section 901 and 903 and Title 10 United States Code, Chapters 106 and 107 may enroll in programs approved by the North Carolina States Approving Agency. All inquiries concerning VA educational benefits should be addressed to the Director of Student Services, Western Carolina University, Cullowhee, N.C. 28723.

International Student Services. The Director for Student Services and International Student Advisor serves as the advisor on immigration matters, advising, programming, and all aspects of university and community life.

Books and Supplies. The WCU Bookstore offers students a variety of educational materials and supplies, gift items, and miscellaneous articles for personal use. An extensive selection of paperback books is offered for class use and extracurricular reading. All books for graduate students and supplemental texts and course-related materials for undergraduates are sold by the store. Caps and gowns, graduation invitations and class rings also may be purchased at the store. The Book Rental plan operated through the Book Rental Department of the Bookstore is explained in the fees section of this catalog.
The Bookstore offers computer hardware and software for sale to students, faculty and staff members at vendor-discounted prices. Also available is the Connectivity Packet needed for access to the Internet via the campus network.

**Wellness Program**
The goal of the Wellness Program is to provide students, faculty, and staff a positive and healthy environment in which to live and grow. The program provides services on health and wellness issues, including health presentations; resources to help individuals with projects and personal issues; a Wellness Resource Library; a walking program for students, faculty, and staff; and events centered on national awareness topics such as fitness, nutrition, AIDS, and alcohol. For further information, call 704-227-7018.

**Meals.** Western Carolina University provides food services for students at three campus locations:
- Dodson Cafeteria on the lower campus
- Hinds University Center
- Brown Cafeteria on the upper campus

These facilities serve all students who participate in a board plan or who wish to purchase a la carte items. Students who live in the university's residence halls are required to participate in a food service plan. Participation in a food service plan is optional for commuting students.

The various food service plans offered are described in the fees section of this catalog.

Food service is not provided when the cafeterias are closed during holidays and other periods when the University is not in session.

**Mail Service.** Students residing on campus are assigned a residence-hall mailbox with their room assignments. All other students may rent a box in the Cullowhee Post Office. Postal regulations do not permit receipt of mail through general delivery after an initial thirty-day period. An on-campus branch of the Cullowhee Post Office, in McKee Building, provides service from 11 a.m. until 1 p.m., Monday through Friday.

**Laundry.** Coin-operated washers and dryers are provided in all residence halls for the use of the residents. Commercial coin-operated laundries are located in Cullowhee and Sylva for use by the general public.

**Bus Service.** The university provides (for students) a free late-afternoon shuttle bus service between Cullowhee and Sylva. This service is provided for all WCU students and travels to all shopping areas, grocery stores, and the health department in Sylva. Information about the schedule is available at the information desk in the University Center.

**Bank Services.** A branch office of the Wachovia Bank and Trust Company is located in Cullowhee. In addition, offices of this bank, First Union National Bank, NationsBank, Community Bank & Trust Company, and First Citizens Bank and Trust are located in or near Sylva.

**Disability Services.** Assistance for students with disabilities is available through the Office for Student Development, 460 H.F. Robinson Administration Building, Dr. Bonita Jacobs, 227-7234.

**General Regulations and Safety Policies**
The general regulations pertaining to student life at Western Carolina University are published in the *Student Handbook*. Student rules and regulations are the responsibility of the Office for Student Development. Other regulations deemed necessary for the welfare of the members of the university community are the responsibility of the appropriate unit of the university, subject to administrative approval.

All members of the university community have the responsibility of conducting themselves in a manner befitting the university environment. The university can fulfill one of its major
obligations to its students by providing opportunities for the development of self-discipline, respect for others, and concern for one's personal conduct.

While on the campus, students are subject to the rules of the university, whether or not classes are in session. Students who exhibit unseemly conduct or destructive behavior or who impinge on the rights of other individuals, as these terms are defined in the Student Handbook, are subject to disciplinary action by the university.

Hazing is forbidden under North Carolina law: "Upon conviction of any student of the offense of hazing, or of aiding in the commission of this offense, he/she shall, in addition to any punishment imposed by the court, be expelled from the college or school he/she is attending. The faculty or governing board of any college or school charged with the duty of expulsion of students for proper cause shall, upon such conviction, at once expel the offender, and a failure to do so shall be a misdemeanor."

Firearms are not permitted on university property except for academic instruction and law-enforcement purposes.

The university, in accordance with the laws of the State of North Carolina, forbids the possession or use of fireworks in any building or location on the campus. Severe disciplinary action will be taken if this law is violated.

Drunkenness, and other abuse of alcoholic beverages, is grounds for disciplinary action. Although possession and consumption of alcohol by students is not sanctioned by the university, these acts cannot be controlled in rooms assigned to students without undue invasion of privacy. Therefore, possession and consumption of alcoholic beverages within on-campus residence rooms is an option to be determined by the occupants of each room, within the framework of student regulations and North Carolina law. Public display or consumption of alcoholic beverages is not permitted. All students should be familiar with the policies in the Student Handbook and the laws of North Carolina concerning alcoholic beverages.

Policy on Illegal Drugs

I. Purpose

Western Carolina University is an academic community dedicated to the transmission and advancement of knowledge and understanding. The Board of Trustees is committed to the maintenance and protection of an environment in which students and faculty members may responsibly pursue these goals through teaching, learning, research, discussion, and publication, free from internal or external restraints that would unreasonably restrict their academic endeavors. Moreover, it is the obligation of all members of the university community—faculty, students, administrators, and other employees—to help maintain an environment where academic freedom flourishes and in which the rights of each member of the academic community are respected. The illegal use of and trafficking in drugs can jeopardize the welfare of members of this academic community. Accordingly, in an effort to responsibly address such threats to the integrity of the academic environment, the Board of Trustees adopts this policy.

II. Applicable Policies, Practices, and Programs

A. Education, Prevention, Counseling, and Rehabilitation

1. Just as the primary purpose of Western Carolina University is education, so also the university's major effort to address drug abuse should be educational in nature. The university shall maintain a comprehensive drug education program available to all members of the academic community (students, faculty, administration, and staff). The activities of the program shall be the responsibility of the Drug and Alcohol Education Task Force co-chaired by the vice-chancellor for student development and the associate vice-chancellor for academic affairs and composed of faculty, staff, and students. The task force shall develop and coordinate an ongoing program available to all members of the academic community that:
a. informs members of the academic community about the health hazards associated with drug abuse.

b. emphasizes the incompatibility of drug abuse and maximum achievement of personal and educational goals.

c. encourages members of the campus community to make use of available campus and community counseling, medical, and rehabilitation resources in dealing with drug abuse problems.

d. informs members of the academic community that they also may be subject to criminal prosecution for violating state laws relating to the illegal use, possession, delivery, sale, manufacture, or creation of controlled substances.

2. WCU shall provide information about drug counseling and rehabilitation services to members of the university community, through campus-based programs for students and through community-based organizations for faculty, staff, and students. Persons who voluntarily avail themselves of university services shall be assured that applicable professional standards of confidentiality will be observed.

B. Enforcement and Penalties

1. Western Carolina University shall take all actions necessary, consistent with state and federal law and applicable university policy, to eliminate illegal drugs from the university community. The institutional policy on illegal drugs shall be publicized in catalogs and other relevant materials prepared for all enrolled and prospective students and in relevant materials distributed to faculty members, administrators, and other employees.

2. 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 those drugs designated collectively 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 “double jeopardy” for both the civil authorities and the university to proceed against and punish a person for the same specified conduct. The university shall 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.

3. Penalties shall be imposed by the university in accordance with procedural safeguards applicable to disciplinary actions against students, faculty members, administrators, and other employees, and by regulations of the State Personnel Commission.*

4. The penalties to be imposed by the university shall range from written warnings with probationary status to expulsions from enrollment and discharges from employment. However, the following minimum penalties shall be imposed for the particular offenses described.

III. 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. General Statutes 90-90, or Schedule II, General Statutes 90-90 (including, but not limited to, heroin, mescaline, lysergic acid diethylamide, opium, cocaine, amphetamine, methaqualone), any student shall be expelled and any faculty member, 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. General Statutes 90-91 through 90-94 (including but not limited to

* Rules of the State Personnel Commission govern disciplinary actions that may be taken against SPA employees; under current Commission policies, discharge rather than suspension is the applicable penalty for SPA employees in instances where this policy otherwise requires suspension.
marijuana, pentobarbital, codeine), the minimum penalty shall be suspension from enrollment or from employment for a period of at least one semester or its equivalent. For a second offense, any student shall be expelled and any faculty member, administrator, or other employee shall be discharged.

IV. Illegal Possession of Drugs

A. For a first offense involving the illegal possession of any controlled substance identified in Schedule I, N.C. General Statutes 90-89, or Schedule II, N.C. General Statutes 90-90, the minimum penalty shall be suspension from enrollment or from employment* for a period of at least one semester or its equivalent.

B. For a first offense involving the illegal possession of any controlled substance identified in Schedules III through VI, N.C. General Statutes 90-91 through 90-94, the minimum penalty shall be probation, for a period to be determined on a case-by-case basis. A person on probation must agree to participate in a drug-education and counseling program, consent to regular drug testing, and accept such other conditions and restrictions, including a program of community service, as the chancellor or the chancellor's designee deems appropriate. Refusal or failure to abide by the terms of probation shall result in suspension from enrollment or from employment* for any unexpired balance of the prescribed period of probation.

C. For second or other subsequent offenses involving the illegal possession of controlled substances, progressively more severe penalties shall be imposed, including expulsion of the students and discharge of faculty members, administrators, or other employees.

V. 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 drugs, he or she may be suspended from enrollment or employment before initiation or completion of regular disciplinary proceedings if, assuming the truth of the charges, the chancellor or, 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 immediate danger to the health or welfare of other members of the university community; provided, that if such a suspension is imposed, an appropriate hearing of the charges against the suspended person shall be held as promptly as possible thereafter.

VI. Compliance with Federal Drug-free Workplace Act of 1988 Pertaining to Employees.

A. As a condition of employment an employee must abide by the terms of this policy and must notify his immediate supervisor at Western Carolina University of any criminal drug conviction occurring in the workplace no later than five days after that conviction.

B. Western Carolina University will notify federal granting or contracting agencies within ten days after receiving notice that an employee directly engaged in a grant or contract has been convicted of a drug offense in the workplace.

C. Western Carolina University will impose sanctions and/or require satisfactory participation in drug-abuse or rehabilitation programs by an employee convicted of a drug-related violation in the workplace no later than 30 days after notice of said conviction.

Policy on Computer Abuse

The university provides computer access through the computer center and college and department computer systems. It is essential that computer systems be protected from misuse and unauthorized access subject to university policy and applicable state and federal laws. Computer abuse defined as, but not limited to, privacy issues, theft, vandalism, copyright issues, and harassment will be referred to the Director of the Computer Center and/or college or department computer network and laboratory managers. Abuse involving theft or
vandalism will also be reported to the Director of Public Safety. Penalties include, but are not necessarily limited to, suspension or revocation of computing privileges, reimbursement to the university for resources consumed, other legal action including action to recover damages, referral to law-enforcement authorities, and referral to the Office of the Vice Chancellor for Student Development for disciplinary action. In connection with inquiries into possible abuses, the university reserves the right to examine files, programs, passwords, accounting information, printouts, or other computing material without notice authorized only by the Director of the Computer Center.

**Parking and Law Enforcement.** The Public Safety Office is responsible for traffic, parking, security, and general law enforcement on the campus, operating under the provisions of state and federal law and university regulations. State statutes provide that campus traffic and parking regulations have the force of law, and violators may be subject to the penalties prescribed by law. All students and university personnel owning, operating, or having custody of a motor vehicle on campus must register it at the Public Safety Office and display a current registration sticker. A detailed listing of regulations is published annually, and a copy is given to each vehicle registrant.

The Traffic and Security Committee, composed of students, faculty, and staff, is responsible for reviewing and recommending policy regarding traffic and parking on campus. The committee also functions as an appeals board for faculty and staff violations. Appeals of student violations are handled by a committee of SGA.

Information on crime-prevention programs and crime statistics is available at the Public Safety Office in the Jordan-Phillips Fieldhouse or from the Office for Student Development, 460 Robinson Administration Building.
FEES AND FINANCIAL AID

Western Carolina University holds its charges to the minimum commensurate with the provision of needed services. The following schedule of fees, due and payable at the beginning of each semester, will be effective beginning with the fall semester of the 1997-98 academic year. The university reserves the right to alter any charges without prior notice upon direction from appropriate governing authorities.

Applications for admission must be accompanied by a $35.00, non-refundable application processing fee in the form of a check or money order made payable to Western Carolina University unless exempted by one of the following conditions:

1. The applicant has been enrolled previously for courses at WCU.
2. The applicant has filed an application for admission within the previous two calendar years. Applicants who meet one of these conditions are not required to pay the $35.00 application fee.

Payment of Fees. All charges are due and payable on or before the date of registration for each term. Payment by check in the exact amount of the bill is recommended. A fee of $10 is assessed if a bank declines payment of a student’s personal check and the student is at fault.

Any fees or fines not paid will cause the university to withhold the issuing of transcripts and other records, including registration materials, until all debts are cleared. Failure to make proper payments on account will result in cancellation of registration.

Late Registration. A student who registers and pays fees after the last regular registration date will be charged a late registration fee of $10. See the Academic Calendar.

Fees Per Semester

I. Full-time Student

<table>
<thead>
<tr>
<th></th>
<th>Undergraduate</th>
<th>Graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>North Carolina student</td>
<td>$ 437.00</td>
<td>$ 437.00</td>
</tr>
<tr>
<td>Out-of-state student</td>
<td>$ 4,014.00</td>
<td>$ 4,014.00</td>
</tr>
<tr>
<td>Required fees*</td>
<td>$ 414.50</td>
<td>$ 414.50</td>
</tr>
<tr>
<td>Book Rental Fee</td>
<td>$ 68.00</td>
<td>**</td>
</tr>
<tr>
<td>Room</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residence Hall Double Room Rate</td>
<td>$ 705.00</td>
<td>$ 705.00</td>
</tr>
<tr>
<td>Madison Hall rate (graduate housing)</td>
<td>$ 1,450.00</td>
<td></td>
</tr>
<tr>
<td>Robertson Apartments (married housing)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Efficiencies</td>
<td></td>
<td>$ 1,410.00</td>
</tr>
<tr>
<td>One bedroom apartments</td>
<td></td>
<td>$ 1,575.00</td>
</tr>
<tr>
<td>Board (required of residence hall students)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Declining Balance-Standard Option</td>
<td>$ 695.00</td>
<td>$ 695.00</td>
</tr>
<tr>
<td>Declining Balance-Low Option</td>
<td>$ 631.00</td>
<td>$ 631.00</td>
</tr>
<tr>
<td>18-Flex Meal plus $50 plan</td>
<td>$ 840.00</td>
<td>$ 840.00</td>
</tr>
<tr>
<td>12-Flex Meal plus $100 plan</td>
<td>$ 748.00</td>
<td>$ 748.00</td>
</tr>
<tr>
<td>Totals:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Day student</td>
<td></td>
<td></td>
</tr>
<tr>
<td>North Carolina rate</td>
<td>$ 919.50</td>
<td>$ 851.50</td>
</tr>
<tr>
<td>Out-of-state rate</td>
<td>$ 4,496.50</td>
<td>$ 4,428.50</td>
</tr>
<tr>
<td>Residence hall boarding student:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>North Carolina rate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>with Declining Balance-Standard Option</td>
<td>$ 2,319.50</td>
<td>$ 2,251.50</td>
</tr>
<tr>
<td>with Declining Balance-Low Option</td>
<td>$ 2,255.50</td>
<td>$ 2,187.50</td>
</tr>
</tbody>
</table>

* Required fees include: Health Services $83.00; Recreational and Cultural, $74.00; Athletics, $121.00; Athletic Facilities, $16.00; University Center, $88.50; Documents Fee, $3.00; Education and Technology Fee, $29.00.
** Textbooks are available to graduate students by purchase only.
II. Part-time Student

(Undergraduate, enrolled for eleven hours or less; Graduate, enrolled for eight hours or less)

<table>
<thead>
<tr>
<th>Hours Enrolled</th>
<th>Undergraduate</th>
<th>Graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>In-State</td>
<td>Out-of-State</td>
</tr>
<tr>
<td>1</td>
<td>$146.80</td>
<td>$1,041.80</td>
</tr>
<tr>
<td>2</td>
<td>184.60</td>
<td>1,079.60</td>
</tr>
<tr>
<td>3</td>
<td>222.40</td>
<td>1,117.40</td>
</tr>
<tr>
<td>4</td>
<td>260.20</td>
<td>1,155.20</td>
</tr>
<tr>
<td>5</td>
<td>298.00</td>
<td>1,193.00</td>
</tr>
<tr>
<td>6</td>
<td>445.80</td>
<td>2,233.80</td>
</tr>
<tr>
<td>7</td>
<td>483.60</td>
<td>2,271.60</td>
</tr>
<tr>
<td>8</td>
<td>521.40</td>
<td>2,309.40</td>
</tr>
<tr>
<td>9</td>
<td>668.20</td>
<td>3,351.20</td>
</tr>
<tr>
<td>10</td>
<td>706.00</td>
<td>3,389.00</td>
</tr>
<tr>
<td>11</td>
<td>743.80</td>
<td>3,426.80</td>
</tr>
</tbody>
</table>

For each credit course scheduled for audit, a charge will be made equal to the credit hour value of the audited course.

III. Asheville Student

Fees for all Western Carolina University resident-credit courses taught in Asheville are the same as on the Cullowhee campus. All UNCA credit courses in which a student enrolls carry an additional cost per credit hour regardless of the fees paid for credit from Western Carolina University.

IV. Other Fees

- Undergraduate Admission Application Fee (one time only) $35.00
- Late Registration Fee 10.00
- Cap, Gown, and Hood obtained through WCU Bookstore
- CLEP, GRE, NTE, etc. fee set by Educational Testing Service

Board Plan

University policy requires students who live in a residence hall to purchase one of the following board plans:

*18-Flex Meal plus $50 plan $840.00
*12-Flex Meal plus $100 plan 748.00
**Declining Balance-Standard Option 695.00
**Declining Balance-Low Option 631.00

* The Flex Plan is a meal plan that combines an "All You Care To Eat" program located at Brown Cafeteria and a declining balance account than can be used at the other food-service locations on campus.
**The Declining Balance Meal Plans are dining programs wherein students pay an advance deposit at the beginning of each semester, and purchases are deducted throughout the term. During the semester, additional prepayments in minimum increments of $50 may be made by any student with a declining balance account.

Participation in any of the above-described board plans is optional for commuting students. Commuting students have two additional options:

--A declining balance plan with minimum prepayment of $50, or

--A commuter meal plan priced at $450 per semester.

**Tuition Surcharge Policy**

In keeping with requirements of the 1993 North Carolina Senate Bill 27, the Board of Governors of the University of North Carolina has established procedures to impose a 25 percent tuition surcharge on students who take more than 140 semester hours and more than eight regular semesters (i.e., fall and spring) to complete a baccalaureate degree. This policy is effective for all new undergraduates entering on and after fall semester 1994.

The semester hours used to calculate the total of 140 hours include repeated, failed, dropped (i.e. W's), and transferred credit courses.

Advanced Placement (AP), College Level Examination Program (CLEP), WCU advanced placement, and courses including extension courses earned through summer session(s) at any University of North Carolina institution are excluded from the 140-hour calculation.

Students pursuing a second baccalaureate degree will have the surcharge applied to hours that exceed 110 percent of the hours determined to be required to earn the degree.

In all cases the surcharge applies only to tuition and not fees.

The official policy may be obtained from the Office of Academic Services (HFR 560) during regular office hours.

**Book Rental Plan**

Textbooks for courses numbered 100-499 are furnished to on-campus undergraduate students on a rental basis by the Book Rental Department of the bookstore. Students pay a flat fee of $68 each semester and are entitled to the primary textbook adopted in each course for which they are registered. This plan does not provide notebooks, workbooks, paperbacks, manuals, or supplemental books and materials, but these are available for purchase at the bookstore. Students may buy textbooks at replacement cost (list price less 20 percent), but this does not exempt them from paying the rental fee. Further information about the Book Rental Plan can be found in the Faculty Handbook, Section 5.19, page 96.

Rental books must be returned no later than five working days after the last day of final examinations for each term, including summer school. Students not complying with this time limit will be charged a fine of $20 if the books are returned within the first two weeks of the next regular term, including summer school. Students who do not return their books within the first two weeks of the next regular term will be required to purchase the books at replacement cost (list price less 20 percent). Grossly mistreated books must be purchased by the student.

Graduate students must purchase all their texts regardless of the level of the courses. Textbooks for courses numbered 500 and above are available at the bookstore. Textbooks for courses numbered below 500 are available for purchase at the Book Rental Department.

**Residence Status for Tuition Purposes**

The basis for determining the appropriate tuition charge rests upon whether a student is a resident or a nonresident for tuition purposes. Each student must make a statement as to the length of his or her residence in North Carolina, with assessment by the institution of that statement to be conditioned by the following:
Residence. To qualify as a resident for tuition purposes, a person must become a legal resident and remain a legal resident for at least twelve months immediately prior to classification. Thus, there is a distinction between legal residence and residence for tuition purposes. Furthermore, twelve months legal residence means more than simple abode in North Carolina. In particular it means maintaining a domicile (permanent home of indefinite duration) as opposed to “maintaining a mere temporary residence or abode incident to enrollment in an institution of higher education.” The burden of establishing facts which justify classification of a student as a resident entitled to in-state tuition rates is on the applicant for such classification, who must show his or her entitlement by the preponderance (the greater part) of the residency information.

Initiative. Being classified a resident for tuition purposes is contingent on the student’s seeking such status and providing all information that the institution may require in making the determination.

Parents’ Domicile. If an individual, irrespective of age, has living parent(s) or court-appointed guardian of the person, the domicile of such parent(s) or guardian is, prima facie, the domicile of the individual; but this prima facie evidence of the individual’s domicile may or may not be sustained by other information. Further, nondomiciliary status of parents is not deemed prima facie evidence of the applicant child’s status if the applicant has lived (though not necessarily legally resided) in North Carolina for the five years preceding enrollment or re-registration.

Effect of Marriage. Marriage alone does not prevent a person from becoming or continuing to be a resident for tuition purposes, nor does marriage in any circumstance insure that a person will become or continue to be a resident for tuition purposes. Marriage and the legal residence of one’s spouse are, however, relevant information in determining residency intent. Furthermore, if both husband and his wife are legal residents of North Carolina and if one of them has been a legal resident longer than the other, then the longer duration may be claimed by either spouse in meeting the twelve-month requirement for in-state tuition status.

Military Personnel. A North Carolinian who serves outside the state in the armed forces does not lose North Carolina domicile simply by reason of such service. And students from the military may prove retention or establishment of residence by reference, as in other cases, to residency acts accompanied by residency intent.

In addition, a separate North Carolina statute affords tuition rate benefits to certain military personnel and their dependents even though not qualifying for the in-state tuition rate by reason of twelve months legal residence in North Carolina. Members of the armed services, while stationed in and concurrently living in North Carolina, may be charged a tuition rate lower than the out-of-state tuition rate to the extent that the total of entitlements for applicable tuition costs available from the federal government, plus certain amounts based under a statutory formula upon the in-state tuition rate, is a sum less than the out-of-state tuition rate for the pertinent enrollment. A dependent relative of a service member stationed in North Carolina is eligible to be charged the in-state tuition rate while the dependent relative is living in North Carolina with the service member and if the dependent relative has met any requirement of the Selective Service System applicable to the dependent relative. These tuition benefits may be enjoyed only if the applicable requirements for admission have been met; these benefits alone do not provide the basis for receiving those derivative benefits under the provisions of the residence classification statute reviewed elsewhere in this summary.

Grace Period. If a person (1) has been a bona fide legal resident of the required duration, (2) has consequently been classified a resident for tuition purposes, and (3) has subsequently lost North Carolina legal residence while enrolled at a public institution of higher education, that person may continue to enjoy the in-state tuition rate for a grace period of twelve months measured from the date on which North Carolina legal residence was lost. If the twelve months ends during an academic term for which the person is enrolled at a state institution of higher education, the grace period extends, in addition, to the end of that term. The fact of marriage to one who continues domiciled outside North Carolina does not by itself cause loss of legal residence marking the beginning of the grace period.
Minors. Minors (persons under eighteen years of age) usually have the domicile of their parents, but certain special cases are recognized by the residence classification statute in determining residence for tuition purposes.

(a) If a minor's parents live apart, the minor's domicile is deemed to be North Carolina for the time period(s) that either parent, as a North Carolina legal resident, may claim and does claim the minor as a tax dependent, even if other law or judicial act assigns the minor's domicile outside North Carolina. A minor thus deemed to be a legal resident will not, upon achieving majority before enrolling at an institution of higher education, lose North Carolina legal residence if that person (1) upon becoming an adult "acts, to the extent that the person's degree of actual emancipation permits, in a manner consistent with bona fide legal residence in North Carolina" and (2) "begins enrollment at an institution of higher education not later than the fall academic term following completion of education prerequisite to admission at such institution."

(b) If a minor has lived for five or more consecutive years with relatives (other than parents) who are domiciled in North Carolina and if the relatives have functioned during this time as if they were personal guardians, the minor will be deemed a resident for tuition purposes for an enrolled term commencing immediately after at least five years in which these circumstances have existed. If under this consideration a minor is deemed to be a resident for tuition purposes immediately prior to his or her eighteenth birthday, that person on achieving majority will be deemed a legal resident of North Carolina of at least twelve months duration. This provision acts to confer in-state tuition status even in the face of other provisions of law to the contrary; however, a person deemed a resident of twelve months duration pursuant to this provision continues to be a legal resident of the state only so long as he or she does not abandon North Carolina domicile.

Lost but Regained Domicile. If a student ceases enrollment at or graduates from an institution of higher education while classified a resident for tuition purposes and then both abandons and reacquires North Carolina domicile within a twelve-month period, that person, if he or she continues to maintain the reacquired domicile into re-enrollment at an institution of higher education, may re-enroll at the in-state tuition rate without having to meet the usual twelve-month durational requirement. However, any one person may receive the benefit of the provision only once.

Change of Status. A student admitted to initial enrollment in an institution (or permitted to re-enroll following an absence from the institutional program which involved a formal withdrawal from enrollment) must be classified by the admitting institution either as a resident or as a nonresident for tuition purposes prior to actual enrollment. A residence status classification once assigned (and finalized pursuant to any appeal properly taken) may be changed thereafter (with corresponding change in billing rates) only at intervals corresponding with the established primary divisions of the academic year.

Transfer Students. When a student transfers from one North Carolina public institution of higher education to another, he or she is treated as a new student by the institution to which he or she is transferring and must be assigned an initial residence-status classification for tuition purposes.

Waiver of Tuition. Legal residents of North Carolina who have attained the age of sixty-five and who meet applicable admission standards may enroll on a tuition-free basis if space is available, but must pay required fees. Further information is available from the registrar.

Refund Policies

Academic Year Tuition and Fees. During a fall or spring semester, a full-time or part-time student who withdraws from the university on or before the first day of classes will be refunded 100 percent of tuition and fees. Students who withdraw from the university following the first day of classes are entitled to refunds of tuition and fees in accordance with the following schedule:
1-11 calendar days following the first day of classes 90%
12-28 calendar days following the first day of classes 50%
29-57 calendar days following the first day of classes 25%
58 calendar days following the first day of classes 0%

EXCEPTION: Students who withdraw from the University in their initial term of enrollment are entitled to refunds of tuition and fees in accordance with the following schedule:

- On or before the last calendar day of regular registration: 100 percent
- 1-7 calendar days following the last day of regular registration: 93 percent
- 8-14 calendar days following the last day of regular registration: 86 percent
- 15-21 calendar days following the last day of regular registration: 79 percent
- 22-28 calendar days following the last day of regular registration: 72 percent
- 29-35 calendar days following the last day of regular registration: 65 percent
- 36-42 calendar days following the last day of regular registration: 58 percent
- 43-49 calendar days following the last day of regular registration: 51 percent
- 50-56 calendar days following the last day of regular registration: 44 percent
- 57-63 calendar days following the last day of regular registration: 37 percent
- 64-70 calendar days following the last day of regular registration: 30 percent
- 71 calendar days following the last day of regular registration: 0 percent

Students who withdraw from the university as a result of involuntary recall to military service, pursuant to a presidential order authorizing the call-up of reservists, and who are thereby prevented from receiving credit for the courses in which he/she is enrolled, will be entitled to a full refund of tuition and fees. Refunds of room and board charges will be prorated based on the number of days the dormitory room was occupied and the meal ticket was used. Students having the declining balance meal plan will be refunded the actual account balance at the time of withdrawal.

Students who reduce their course loads during the registration period for the semester as defined in this catalog, but who continue to be enrolled in the university, will have their tuition and fees adjusted fully to reflect only the number of semester hours in which they remain enrolled. Part-time students are eligible for a refund based on the semester hour tuition rate. Full-time students are eligible for a refund only when course loads are reduced below the minimum hours required to qualify as full-time. No adjustment will be made for reduced loads after the close of the registration period. However, students who drop all courses must withdraw from the university. They are, therefore, eligible only for the partial refunds that apply to university withdrawals.

Summer School Tuition and Fees. A student who withdraws from summer school on or before the first day of classes will be refunded 100 percent of tuition and fees. Students who withdraw after the first day of classes are eligible for refunds through the first 50 percent of the summer terms. The refund prorations for summer school are available from the controller's office.

Summer school students who reduce their course loads by one or more semester hours within three days following regular registration or on or before the date of the second class meeting, whichever is later, will have tuition and fees adjusted to reflect the number of semester hours in which they remain enrolled.

Room and Board. Refunds of room rent for any semester or summer term will be calculated at the same rate as tuition and fees. The residence hall deposit is not refundable if withdrawal occurs before completion of the current housing contract period.

Meal ticket refunds for Standard Meal Plans will be calculated at the same rate as tuition and fees. Meal ticket refunds for Declining Balance Plans will be based on the actual balance remaining on the student account at the time of withdrawal. Flex Meal Plans have a standard and a declining balance component. Refunds for Flex plans will be based on the policy applicable to each component. Refunds will not be made for the last two weeks of a semester or for the last week of a summer session.

All refunds, except those for withdrawals prior to the first day of classes, are subject to an administrative fee not to exceed the lesser of $100.00 or 5% of institutional charges.
Exceptions. Exceptions to these policies may be made if a student withdraws from the university for reasons of hardship. Prorated refunds of tuition and fees, room rent, and meal charges may be made to the student or the student's family in case of hardship, which is defined as (1) death of the student, (2) death in the student's immediate family, or (3) withdrawal upon recommendation of the director of student health services. The prorations and regulations governing refunds in hardship cases are available from the Office for Business Affairs. The vice-chancellor for student development must approve, and notify the controller's office, of any refunds or account adjustments for hardship situations. The controller's office will take appropriate action to make final settlement of the student's account. Any other exceptions require approval by the chancellor.

Financial Aid

The financial aid office administers several programs that assist students in meeting educational costs while attending Western Carolina University. Awards are offered on the basis of both need and academic promise. Most awards are renewable, provided that financial need continues and satisfactory academic progress is maintained. Applications for consideration of eligibility are filed annually at no cost to the student and family.

Entering students interested in applying for financial aid must complete the Free Application for Federal Student Aid (FAFSA). Continuing WCU students are sent Renewal Applications on an annual basis. This must be submitted as soon as possible after January 1 of each year the student will attend; Western Carolina University should be listed as a recipient of the information. The FAFSA may be obtained from the WCU Financial Aid Office or from a high school guidance counselor. The application should be completed as accurately as possible and conform with income tax information, since discrepancies require resubmission of information and consequent delay.

The WCU Data form will be mailed to applicants upon receipt of information from the federal processor. Receipt of this information generally completes the application process, provided applicants are not selected for verification, which requires additional documents. Since the most attractive sources of financial assistance are very limited, applicants are encouraged to complete the FAFSA by the institutional priority deadline date of March 31. Failure to complete the application may result in the loss of institutional grants or scholarships.

Federal guidelines regarding student financial aid require that a recipient be making "Satisfactory Progress" toward a degree. A student must be progressing both qualitatively and quantitatively toward graduation within a prescribed time frame. To comply with these guidelines, Western Carolina University has defined minimum satisfactory academic progress for a full-time undergraduate student to remain eligible for financial aid according to the following table:

<table>
<thead>
<tr>
<th>Full Time Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>At completion of this semester</td>
</tr>
<tr>
<td>Total minimum credits</td>
</tr>
<tr>
<td>Minimum required GPA</td>
</tr>
</tbody>
</table>

To remain eligible for financial aid a student must meet these minimum requirements.

Students are expected to complete their undergraduate degree in eight semesters (four years). As required by Federal Regulations, no student receiving financial assistance can exceed 150% (12 semesters) of the normal time (8 semesters) to complete an undergraduate degree. This allows for double majors and change of majors.
Notification of Awards. Notification of awards, beginning with completed applications for aid received prior to April 1, will begin April 1 and will continue thereafter. The processing time for applications is approximately three weeks after the file is complete.

Types of Aid. Three principle types of aid are available: (1) scholarships or grants awarded directly to the student that do not have to be repaid; (2) loans, usually long-term and low-interest, to be repaid after the student leaves college; (3) employment, often work related to the student's field of study. Composite awards frequently are made, with the total amount dependent upon the student's individual needs and financial situation. Application forms and further information are available from the financial aid office.

Loans

Federal Perkins Loan. These loans are awarded to undergraduate and graduate students who demonstrate financial need and meet the federal eligibility requirements. The maximum amount an eligible student may borrow is $3,000 per year as an undergraduate and $5,000 per year as a graduate. The maximum aggregate loan amount for an eligible undergraduate student is $15,000. A graduate student may borrow a maximum of $30,000 minus the amount borrowed as an undergraduate. Interest and repayment start nine months after the student leaves school or drops below half-time status. The interest rate is 5 percent.

Federal Direct Stafford/Ford Loan. These government-subsidized loans are available to students through lending institutions. They are insured by the federal government and are available to undergraduate and graduate students who demonstrate financial need and meet the federal eligibility requirements. Depending on demonstrated need, a student may borrow up to $2,625 as a freshman, $3,500 as a sophomore, and $5,500 per year for the third through fifth years of undergraduate work. Graduate students may borrow up to $8,500 per year. There is a 4 percent origination fee with a variable interest rate based on the 91-day Treasury Bill plus 3.10 percent (capped at 8.25 percent). Repayment begins the day following expiration of a six month grace period.

Federal Direct Unsubsidized Stafford/Ford Loan. The Federal Direct Unsubsidized Stafford/Ford Loan Program provides loans to students after their demonstrated need has been met. The maximum amounts to borrow are based on the grade level of the students. There is a 4 percent combined origination and insurance fee. The interest is the same as the subsidized Stafford except that the interest is capped at 8.25 percent and the borrower is responsible for accrued interest.

Federal Direct PLUS (Parents) Loans. These loans provide funds to parents to help meet the cost of education. They may borrow up to the cost of education per child minus other financial aid. There is a 4 percent origination fee with a variable interest rate on the 52-week Treasury Bill plus 3.10 percent (capped at 9 percent). Interest starts upon disbursement of funds. Repayment begins the date of disbursement of funds. Borrowers may not have an adverse credit history to be determined eligible.

Loans for Study in Health, Science, and Mathematics. The North Carolina State Education Assistance Authority (NCSEAA) provides loans to North Carolina residents for study in selected health, science, and mathematics disciplines. Programs at Western Carolina University to which the loans are applicable are education majors in biology, chemistry, mathematics, and physical and health sciences; other areas include medical technology and nursing.

The amount of the loan is $4,000 annually to undergraduates during their second, third, and fourth years of study, and $5,000 for graduate students for two years. Recipients agree to cancel their obligation by securing full-time employment in designated shortage areas in health or in secondary or post-secondary school systems. For more information, contact the North Carolina Student Loan Program for Health, Science, and Mathematics, P. O. Box 20549, 3824 Barrett Drive, Suite 304, Raleigh, NC 27619-0549, telephone (919) 571-4182.

North Carolina Four-Year Teaching Fellows Program. Established by the General Assembly, this program is designed to fully subsidize the college cost of up to 400 talented high school seniors. Recipients will receive $5,000 per year for each of their four years in
college. For each year that a Teaching Fellow teaches in a North Carolina public school after graduating from college, one-fourth of the Teaching Fellows award will be forgiven by the state. Applications are available through high school guidance offices, high school teacher recruiters, and the North Carolina Teaching Fellows Commission, Koger Center - Cumberland Building, 3739 National Drive, Suite 210, Raleigh, NC 27612, telephone (919) 781-6833.

**North Carolina Prospective Teacher Scholarship-Loans.** Financial assistance to full-time students in teacher education programs is available at $2,000 per academic year and may be continued for four years of undergraduate study if all prerequisites are met. Priority is given to students preparing for teaching in fields where the need is greatest. Scholarship loans are to be repaid in cash at 6 percent interest or by teaching in the public schools of North Carolina one year for each year of the loan.

**Nurse Education Scholarship Loan Program.** This scholarship loan program is based upon financial need to work in combination with existing financial resources. A scholarship loan may be repaid through service in the state following completion of the nursing program or repayment in cash plus ten percent interest from the date of disbursement. A completed Free Application for Federal Student Aid (FAFSA) is required for consideration. For additional information, contact the financial aid office.

**The Nurse Scholars' Program.** Established by the North Carolina General Assembly, this competitive, merit-based scholarship loan program is available to North Carolina students of exceptional academic achievement and leadership potential who desire to enter the nursing profession. Applications for a NSP award may be made by individuals who have been admitted to a participating nurse-education program and who meet the minimum qualifications for selection. The North Carolina Nurse Scholars Commission selects 100 high school seniors for four-year scholarships at $5,000 per year and 25 upper-class recipients for $3,000 per year. A year of assistance may be repaid through a year of employment in a health-care agency in North Carolina.

**Nursing Student Loans.** Nursing students with exceptional financial need are eligible to borrow the amount of their demonstrated financial need, up to $2,500 per year. Interest at six percent per year starts when repayment of the loan begins nine months after the student leaves school. Repayment may be deferred for up to three years during periods of active duty as a member of uniformed service or as a volunteer under the Peace Corps Act.

**Pickett and Hatcher Educational Fund, Inc.** The Pickett and Hatcher Educational Fund, Inc., is a private, nonprofit, noncommercial educational trust fund created to assist full-time undergraduate students in fields of study other than law, medicine, or the ministry. Low-interest loans with deferred payments are made to qualified residents of Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee, or Virginia. The fund begins the distribution of application blanks for the next academic year on October 1. The deadline for returning the completed application is May 15. For information write to Pickett and Hatcher Educational Fund, Inc., Post Office Box 8169, Columbus, GA 31908-8169.

**Wachovia Charitable Funds Bank Loan.** There are two separate accounts from which loans are available, the Thomas A. Case Student Loan Fund and the Lucius Lanier Memorial Funds. Applicants must reside in Western North Carolina, submit a written application, and appear for a personal interview in Winston-Salem. The maximum amount of loan is $1,500 per year with a total maximum of $6,000 per recipient. Interest on the loan is five percent on the unpaid balance and repayment begins within three months after the student terminates his or her enrollment. Applications and further information are available by contacting Wachovia Bank of North Carolina Charitable Funds, P. O. Box 3099, MC 31022, Winston-Salem, N.C. 27150.

**Grants and Scholarships**

**Federal Pell Grants.** Eligibility for assistance under the Pell Program is based on financial need as determined by a formula of the U.S. Department of Education which is applied uniformly to all applicants. Awards range from $400 to $2,470 per academic year depending
upon the cost of attendance. Students who complete the Free Application for Federal Student Aid (FAFSA) are considered for Federal Pell Grant eligibility.

**Minority Presence Grant Program.** Part I - provides funds for grants to white students at predominately African-American institutions and to African-American students at predominately white institutions who are residents of North Carolina, are enrolled for at least three hours of degree credit course work, and demonstrate financial need; Part II - provides funds for grants to Native Americans and other minority students at the constituent institutions of the University of North Carolina who are residents of North Carolina, are enrolled for at least three hours of degree credit course work, and demonstrate financial need.

**Incentive Scholarship and Grant Program for Native Americans.** Under this Board of Governors program, North Carolina residents demonstrating need who are Native Americans enrolled in a tribe recognized by North Carolina are eligible. The ISGPNA program has two components, including a need-based portion which awards a maximum of $700 per academic year to full-time students and a merit-based component that is available to entering and transfer students. The merit-based award criteria for entering students requires students to rank in the top one-half of their class upon graduation. They must also enroll for a minimum of 15 credit hours per term and agree to perform public service at least 6 hours a week as freshmen and at least 8 hours a week as upper classmen. Transfer students must have a cumulative GPA of 2.5 and hold a degree or certificate that articulates directly into an academic degree program. All applicants must apply for financial assistance by completing the Free Application for Federal Student Aid (FAFSA) and an application form available in the Financial Aid Office.

**Federal Supplemental Educational Opportunity Grants.** This program provides funds through participating educational institutions to undergraduate students with exceptional financial need who would be unable to enter or remain in an institution of higher education without such assistance. This grant is generally awarded only to students who are eligible for Pell Grants.

**North Carolina Student Incentive Grant Program.** Full-time undergraduate students who are legal residents of North Carolina may apply for grants based upon demonstrated financial need. Grants may not exceed $2,000 per academic year.

**North Carolina Tuition Grants.** Established by the General Assembly of North Carolina, each grant covers tuition and is available to academically talented North Carolina students having need who are generally eligible for Pell Grants.

**Advertising Federation of Western North Carolina Scholarship Fund.** This endowed scholarship program, established by the federation to promote careers in advertising, provides support for rising, entering, or enrolled juniors and seniors pursuing a concentration of courses in the advertising/marketing field. Preference is given to students who demonstrate financial need, and the awards may be renewed for a total of two years.

**Mary Lou Smith Albritton Scholarships.** These scholarships are awarded to students majoring in social work. Renewal depends on satisfactory academic progress.

**Athletic Grants.** Grants are made in accordance with regulations of the National Collegiate Athletic Association. For more information, contact the Director of Athletics.

**Bentivogli Scholarship Fund.** This scholarship was established by Sue B. Bentivogli to provide financial support for deserving students from Swain County who have financial need and who desire to continue their post-secondary education at Western Carolina University. Scholarship recipients are selected by the director of student financial aid on the basis of financial need and academic achievement.

**Biology Student Fund Scholarships.** This endowment, established by the faculty of the WCU Department of Biology, supports scholarships for biology students at WCU. Contact the head of the Department of Biology.

**Bruce Blankenship Scholarship Fund.** This scholarship program provides financial support for students pursuing a college education while working fulltime. Priority consid-
eration is given to students studying psychology, social work, business administration, or curricula in the Department of Human Services.

Taft B. and Malvery Botner Scholarships. Annual awards are made to academically outstanding students to pursue careers in elementary education and reading. Scholarships are renewable depending upon academic performance and continued promise of successful teaching. Contact the Department of Elementary and Middle Grades Education.

Albert Dudley Brewer Scholarships. These endowed scholarships, supported by the Adelaide Louise Brewer Fund, an endowed memorial, provide assistance for students with impaired hearing. Renewal depends on satisfactory progress toward a degree.

F. H. Brown Family Scholarships. This endowment, which honors the long-time relationship of the F. H. Brown family with Western Carolina University, provides awards to chemistry students. Selection is based on scholastic attainments and capabilities, character, and overall potential. Renewal depends upon satisfactory progress toward a degree.

Grace and David H. Brown Sr. Scholarships. This endowment honors a former superintendent of Jackson County Schools and his wife, a Cullowhee community leader. Preference is given to visually impaired students. Renewal depends on satisfactory progress toward a degree.

Helen Ramsey Brown Scholarship Fund. This scholarship program provides financial support for students in arts and sciences. Contact the dean of the College of Arts and Sciences.

Kim L. Brown Scholarship Fund. This award fund provides financial support to deserving students who show potential in writing. The WCU Writing Center will make recommendations based upon academic achievement and various school activities, including special writing events, topics, and activities.

Bryan History Award. Established by Mrs. Virginia Bryan Schreiber and Dr. Thomas Conn Bryan, these scholarships are awarded to deserving young history students who desire to complete a baccalaureate degree program in history at WCU.

Robert A. “Art” Byrd Scholarship Fund. This scholarship fund was established through the generosity of the friends and family of Robert A. “Art” Byrd in his memory. The scholarship provides financial support for students who graduated from a McDowell County public high school and whose current permanent residence is in McDowell County, North Carolina.

The Paul Cabe Delta Sigma Phi Scholarship Fund. This fund provides financial awards for deserving young brothers of Delta Sigma Phi, Delta Omicron Chapter of Western Carolina University.

Louise M. Caldwell Scholarship Fund. This endowed scholarship program provides financial support for Cherokee Indians to attend WCU. Recipients are selected by the University Scholarship Committee.

Patrick Lee Carmody Scholarship Fund. This scholarship fund provides financial support for qualified students in the radio-television program. The awards are based on academic achievement, civic and social activity, and contributions to student programs and activities. Renewals depend upon satisfactory progress.

Katherine Causey Award. This award provides financial support for deserving young students who live in rural areas of Alamance, Guilford, and Randolph Counties or counties west of the above-named counties in North Carolina.

Chattooga Club Student Employee Scholarship. This scholarship, established by the Chattooga Club, recognizes outstanding WCU students who are employees of the club and is awarded annually.

Wilma Cosper Scholarship. This scholarship program provides financial support for deserving students who have declared a major in one of the academic programs in the Human Environmental Sciences.
The Diane Withrow Coyle Art Fund. This scholarship program, established through the generosity of the family and friends of Diane Withrow Coyle, supports WCU students who pursue drawing as a creative and formal art medium.

The Anne and Frank Cowan Fund. Established by Anne and Frank Cowan, lifelong residents of Jackson County, for scholarship awards for entering and continuing students based on achievement and general activities in previous schooling and overall social, civic, and academic achievement and potential.

Crum Scholarship Fund. This endowed scholarship fund was established in honor of Joseph and Mabel Crum, former members of the WCU faculty. The fund provides support for worthy and deserving undergraduate students who are majors in mathematics or English. The awards are based on academic achievement and promise, participation in various school activities, and overall social and civic contributions. Awards are renewable.

Cullowhee School District Award. This award program provides funds for deserving young graduates of the Cullowhee school district who desire to attend WCU. Selection is based on achievement, participation in various school activities, overall social and civic contributions, and financial need.

Andrea Culpepper Scholarship Fund. This scholarship fund provides financial support for students enrolled in the nursing program. Priority will be given to rising seniors who have a grade-point average of 3.0 or above.

Homer Ray Davis Scholarship. This scholarship was established to honor Homer Ray Davis, the son of Sue Morgan Davis of Jackson County. It provides scholarship assistance on a need basis to students from Jackson, Swain, and Macon Counties.

Dr. A. P. and Frances Dickson Scholarships. A scholarship is awarded annually to a full-time undergraduate student who currently resides in Hoke County, North Carolina. Recipients are chosen by the financial aid office on the basis of academic standing and financial need. Awards are nonrenewable and vary in amount according to income available from the trust.

District I, North Carolina Retired School Personnel Senior Scholarship. This scholarship will be awarded annually to a rising senior in the College of Education and Allied Professions who is a resident of one of the 13 Western North Carolina counties.

The Barbara Dooley Piano Scholarship. Established by Dr. and Mrs. James E. Dooley, this fund provides support for outstanding piano students. For more information, see the head of the Department of Music and the director of the WCU Concert Choir.

J. Gerald Eller Scholarships. This endowment, honoring a former WCU dean and faculty member, supports awards for science students who are winners in the annual WCU Science Festival competitions.

Felts Scholarships. These endowed scholarships honoring Winston Felts are awarded to students from Mitchell County, who are majoring in music or teacher education, on the basis of academic achievement, overall civic and social activities and contributions, and financial need. Renewal is based on satisfactory academic achievement.

Ulysses H. Ferguson Family Scholarships. This endowment honors the memory of Edna Ferguson Rogers, an outstanding, dedicated teacher. It supports awards for students from Haywood County. Scholarship renewal depends on satisfactory academic progress.

Mary Woods Flintom Scholarships. This endowment, honoring a former staff member, provides scholarships on the basis of overall social, civic, and academic achievement and potential. Renewal depends on satisfactory progress.

Xena Bristol Forsyth Scholarships. This endowment honors Mrs. Xena Bristol Forsyth and her son, William Frank Forsyth. It supports renewable awards for juniors and seniors in the College of Business. Preference is given to students from Cherokee, Clay, and Graham Counties. Selection is based on overall social, civic, and academic achievement and potential.

Founders’ Scholarship. New freshmen and first-time transfer students are eligible for consideration for Founders’ Scholarships. These awards cover the cost of in-state tuition and
are renewable for three additional years for new freshmen and one additional year for first-time transfer students. Interested students must submit a completed Undergraduate Merit-Based Scholarship Application. High School performance and SAT/ACT scores will be the primary criteria used for new freshman consideration; collegiate performance and number of credit hours will be the primary criteria used for first-time transfer consideration. Contact the Office of Admissions for more information.

**Glaxo Women in Science Scholarship.** The Glaxo Women in Science Scholars endowed scholarship is established to provide scholarships for full-time women students at WCU. The purpose of the scholarship fund is to recognize outstanding scholarship, to provide an incentive for women science students to enter the science profession, and to provide students with a woman scientist mentor at Glaxo Inc. Students must have a grade-point average of 3.0 or better on a 4.0 scale to be eligible to receive the award. The student’s grade-point average must remain a 3.0 or better to be eligible to continue receiving the award. Recipients of the Glaxo Women in Science Scholars Program will be selected by a committee composed of the vice-chancellor for academic affairs, the dean of the College of Arts and Sciences, and the director of financial aid.

**Inez Wooten Gulley Scholarships.** This endowment, honoring a former head of the music faculty, supports awards for music students. An audition is required. Contact the head of the Department of Music.

**Gulley Talent Grants.** Awards are made to talented music students based on the student’s potential for contribution to the department’s major performance ensembles, the needs of the ensemble and the department, and the student’s financial need. An audition is required. Student assistantships also are available for work assignments of a musical nature. Contact the Department of Music.

**David McKee Hall Jr. Scholarships.** These renewable scholarships are based on academic achievement, leadership ability and potential, and civic and social activities and contributions. Preference is given to students from the Eleventh Congressional District who plan to pursue the study of law or a related field.

**The Lola Harwood Fund.** This scholarship, established in memory of John Henry and Mary Ida Harwood of Swain County, provides loans and scholarships to Western North Carolina students who excel academically and demonstrate successful participation in community and social organizations.

**Haywood County Western Alumni Scholarships.** These endowed scholarships are awarded to Pisgah and Tuscola high school graduates. Selection is based on academic achievement, civic and social activities, school activities, and financial need.

**Horatio A. and Adah G. Helder Scholarships.** Graduates of public high schools in Haywood County who have financial need may receive scholarships to attend Western Carolina University. Each scholarship is renewable for four years. Contact a high school guidance counselor.

**Lester C. Henderson Scholarships.** Established by Macon Savings Bank in honor of Lester C. Henderson, retired President and CEO of the bank, these scholarships will be awarded to students from Cherokee, Clay, and Macon Counties who are in need of financial assistance.

**The History Department Scholarship Fund.** Established by the faculty in the Department of History, these scholarship awards are for students planning to pursue a major in history. Consideration for scholarship will be based on merit.

**Dillard Hooper Scholarship.** Established through a bequest from the estate of Louise Hooper, this scholarship will be awarded annually to two students from Jackson County who attend Western Carolina University.

**Hospitality Management Scholarship Fund.** Established by W. D. McKee Sr., this scholarship will provide financial support for students majoring in hospitality management.

**Wanda S. Hutchins Fund.** This fund provides financial support for students majoring in social work. Selection of the recipient will be based upon overall ability, past achievement, potential for development, and dedication to the profession.
Marshall Hyde Scholarships. These renewable scholarships are awarded annually. Preference is given to undergraduate students from Graham County who have expressed an interest in working for the WCU landscaping program.

Wallace Hyde Scholarship Fund. Established by Mrs. Hyde in honor of her husband, this scholarship fund provides financial assistance to qualified and deserving high school graduates residing in Graham County. If no Graham County student qualifies, the university may make the award to a student who is a resident of a county contiguous to Graham County, or hold back the award until such time as a Graham County student qualifies.

Jackson County Western Alumni Scholarship Fund. This scholarship fund has been established by the alumni and friends of WCU in Jackson County to provide financial support for deserving young Jackson County students in baccalaureate degree programs at Western. Scholarship recipients are selected from Blue Ridge and Smoky Mountain high schools.

Kendall W. King Scholarship Fund. The purpose of this scholarship fund is to provide financial support for worthy and deserving international students. Undergraduate and graduate students are eligible for the award.

Jay I. Kneedler Scholarships. Awards are made to juniors and seniors in the College of Business based on overall social, civic, and academic achievement and potential. Renewal depends on satisfactory progress toward a degree.

John Sam and Zonell McPhail Lay Endowment. Established by the John Sam Lay Trust, this scholarship provides financial support for students from South Carolina who are attending WCU.

Nell M. Leatherwood Scholarships. This endowment provides scholarships, renewable for four years, to help deserving students of Swain County. Applications are available from high school guidance counselors.

James Lee Love Scholarship. This scholarship is awarded annually to a full-time North Carolina resident undergraduate student. Recipients are chosen by the financial aid office on the basis of academic standing and financial need. Awards are nonrenewable and vary in amount according to income available from the trust.

James G. K. McClure Scholarships. This fund provides scholarships to academically promising and financially deserving residents of Western North Carolina. Rural residents are given preference. The desire to be of service to one’s fellow men is an important criterion.

Ernest C. McCracken Scholarships. These endowed scholarships provide awards based on financial need and overall social, civic, and academic achievement and potential.

The Macon County Art Association Student Art Award. This art award program is established for the purpose of providing financial support for students studying art at WCU. All Macon County, North Carolina art students are encouraged to apply.

Governor James G. Martin Scholarship. Merit based scholarship established and funded by the Public Service Company of North Carolina, Inc. to honor former Governor Martin for his service to the state of North Carolina.

George A. Milton Scholarship. Awarded to undergraduate students majoring in mathematics or mathematics education. Applicants must have scored at least a 550 on the mathematics portion of the SAT, or an equivalent score on a comparable test and maintained at least a "B" average in all high school mathematics courses.

Mary Morrow-Edna Richards Scholarship. Named in memory of Mary Frank Morrow and Edna Cotten Richards. This scholarship is for NC residents enrolled in a teacher-education program. Student must be in the junior year in college and willing to teach in the public schools of NC for at least 2 years following graduation.

The Mountaineer/Josephus Daniels Scholarship Award. Established by the Josephus Daniels Charitable Foundation for students from the primary circulation area of The Mountaineer newspaper. Eligibility is based upon academic record, potential for continued
achievement, successful participation in school-sponsored activities, leadership ability and potential, social and civic contributions, and need. Renewals will be considered.

Alice Mathews Scholarship Fund. This endowed scholarship fund was established to honor a former member of the WCU faculty, Dr. Alice Mathews. The fund provides support for deserving students in the liberal arts with priority consideration given to students with a 4.0 QPR in their major. Contact the dean of the College of Arts and Sciences.

The Raymond Edward Nelson Lambda Chi Alpha Scholarship Fund. This fund provides scholarship support for deserving young brothers of the Lambda Chi Alpha, Beta Zeta Chapter of Western Carolina University. Brothers are selected for high academic achievement, participation in various school activities, and overall social and civic contribution.

Josefina Niggli Scholarships. These endowed scholarships honoring Josefina Niggli, distinguished playwright and teacher, are made to students with established records of achievement in the WCU theatre.

Western Carolina University Association of Educational Office Personnel Scholarships. The Western Carolina University unit of the association awards scholarships to students enrolled in degree programs in the College of Business. Contact the president of the organization.

Clyde M. Norton Scholarships. This endowment, established by the Norton family, honors the memory of Clyde Norton, an outstanding leader in business and public affairs in Western North Carolina. The fund provides support for students from McDowell County. Scholarship renewal depends on satisfactory academic progress.

J.W. and Patricia Palmer Scholarships. These endowed scholarships are awarded annually to students selected on the basis of academic achievement, civic and social activities, and leadership potential. Preference is given to residents of Clay County. Scholarships cover tuition, fees, room, and board, and are renewable for four years.

Aston Park Scholarship Fund. This scholarship program was established to provide financial support to deserving students from Western North Carolina who desire to obtain a baccalaureate degree in the College of Applied Sciences.

Performing and Fine Arts Scholarships. These awards are made by the music, art, and communication and theatre arts departments based solely on audition/performance.

The Dean Carroll Plemmons Scholarship Fund. The fund has been established by the family of Dean Plemmons in recognition of his personal achievements and contributions to his profession and to society in general. The scholarship provides financial support for returning students whose records at WCU reflect sound accomplishment in the classroom, as well as successful participation in civic and social organizations.

W. Hugh and Janet K. Powell Scholarships. These renewable scholarships are awarded annually to students on the basis of academic achievement, leadership ability and potential, and civic and social activities and achievement. Preference is given to undergraduate students from Clay County.

Jonathan Graham Pruett Scholarships. This endowment, a memorial to a former student, supports scholarships to worthy students who are active in the music program. Preference is given to students from Surry County who are in the band. Renewal depends on satisfactory progress toward a degree. Contact the Department of Music.

The Ramsey Family Scholarship Fund. This scholarship established in memory of Dr. Donald Ramsey, a Sylva optometrist, provides a full tuition award to a junior majoring in one of the preprofessional health sciences.

Bronce and Betty Ray Scholarships. These $1,000 renewable scholarships for students who live in the seventeen-county region of Western North Carolina are awarded on the basis of academic achievement, participation in various school activities, social and civic contributions, and financial need.
Paul A. Reid Scholarships. Grants are available to graduates of Surry County high schools to attend Western Carolina University either as undergraduate or graduate students. Applications are available from guidance counselors.

Richard and Marian Renfro Scholarships. These endowed scholarships, which honor professors emeriti Richard and Marian Renfro, are awarded to students majoring in music education. The scholarships are renewable based on satisfactory academic progress.

The John and Elisabeth Rice Scholarship Fund. Students who have declared a major and are working in a biology program of study are eligible for consideration. These awards are based upon academic achievement at WCU with supervision and guidance of an adviser for biological study.

The Richard Thomas Ruhlman/Sigma Nu Fraternity Scholarship Fund. The endowed fund was established in memory of Richard Thomas Ruhlman, a former student of WCU. The purpose of the scholarship fund is to provide financial support to a qualified and deserving brother of the Sigma Nu Chapter at WCU.

The St. David's Award. Established by Carl Richard Hill and the vestry of Saint David's Episcopal Church of Cullowhee, this fund provides financial support to deserving young people who have earned an associate degree at a technical college and who desire to pursue a baccalaureate degree program at WCU.

Jessie Siler Sloan and Georgia Neville Sloan Scholarships. Awards, one to a junior and one to a senior in the College of Arts and Sciences, are made on the basis of academic achievement and financial need. Preference is given to residents of Macon County, North Carolina.

Lewis J. Smith Scholarship Fund. These endowed scholarships, which honor Lewis J. Smith, a founder of the Cullowhee School and the first chairman of the board of trustees of Cullowhee School, are awarded to students majoring in history or education.

C. D. Spangler Jr. Scholarship for Minority Students. This endowed scholarship program’s purpose is to provide financial support for deserving young minority students. Awards are based upon high academic achievement, successful participation in various school activities, overall social and civic contributions, and financial need.

Sport Management Student Professional Association Scholarship. This scholarship is awarded annually to a currently enrolled sport management major who is active in the association and has exhibited dedication and professionalism. The student must maintain a minimum cumulative 2.7 quality point ratio. Current award level is $100 per semester.

State Employees’ Association of North Carolina Scholarships. State employees, their spouses, and their children who have financial need and demonstrate academic potential are eligible for these awards. Contact the financial aid office.

C. M. and M.D. Suther Scholarships. These nonrenewable scholarships are awarded annually to North Carolina resident undergraduate students on the basis of academic standing and financial need.

The Rachel R. Williams Sweet Scholarship Fund. The fund has been established for the purpose of honoring Rachel R. Williams Sweet, a 1935 graduate of WCU, and to provide financial support to undergraduate students who have expressed an intention to pursue early childhood education as their major course of study.

Roy A. Taylor Scholarships. Scholarships are awarded on the basis of a university-sponsored competition in debate, persuasive speaking, and extemporaneous speaking. Contact the head of the Department of Communication and Theatre Arts.

Valedictorian Scholarship. High school valedictorians from accredited high schools are eligible for consideration for the Valedictorian Scholarship. This renewable award covers the cost of in-state tuition and required fees. There are a limited number of these awards. Interested students must complete the Undergraduate Merit-Based Scholarship Application. Contact the Office of Admissions for more information.
Veterans Administration Programs. Most veterans who served on active duty for more than 180 days, any part of which occurred after January 31, 1955, are generally eligible for financial support. Before communicating with the university about these benefits, prospective recipients should make inquiries and complete all requirements at their local Veterans Administration Office.

Vocational Rehabilitation Assistance. Assistance covering fees, books, and supplies are provided. To be eligible, an individual must have a disability that interferes with employment, show reasonable promise of becoming suitably employed within an acceptable period of time, and be of, or close to, working age. Further information can be obtained from local Vocational Rehabilitation offices.

War Orphans Education Assistance Act. Sons and daughters of deceased veterans and of totally disabled veterans who are 18 through 26 years of age are eligible for financial aid if the death or disability of the parent was a result of service in the armed forces. Local Veterans Administration offices can supply complete details.

Robert L. (Bob) Waters Leadership Fund. This graduate and undergraduate assistantship program in football provides support for students who have completed eligibility for participation in intercollegiate athletics. Contact the Department of Athletics.

Pi Kappa Alpha/Robert L. Waters Scholarship Fund. This scholarship program is a memorial to Robert L. Waters for his outstanding leadership at Western Carolina University and in the Zeta Xi Chapter, Pi Kappa Alpha Fraternity. Recipients are selected on the basis of academic achievement, participation in school and community activities, demonstrated social and civic contributions, and financial need.

Western Meritorious Award for National Merit Finalists. High school seniors who are named National Merit Finalists and notify National Merit Corporation that WCU is their first-choice institution by the NMC deadline are eligible for consideration for the Western Meritorious Award. These renewable awards are limited to ten high school seniors annually and covers the cost of in-state tuition, required fees, room and board. Each recipient also is provided with a computer. Contact the Office of Admissions for further information.

Myrtle Olivia Whitmire Scholarships. Students who are residents of North Carolina and who are planning careers in early childhood education are eligible for annual awards. Renewal depends on the student's academic performance.

Max and Sarah Williams Scholarship Fund. This fund was established to support scholarship awards for students who are pursuing a major in the Department of History. The purpose of these awards is to support the history department's commitment to the pursuit of academic excellence.

Employment

Federal Work-Study Program. Employment is available to eligible students to help them pay for college expenses. An effort is made to assign students to work related to their fields of study or to use their special interests and skills. This program is administered through the financial aid office.

Graduate Assistantships. Stipends of $1,000 to $6,500, depending upon the assignment involved, are awarded to qualified graduate students through the Graduate School.

Resident Assistants. Positions as assistants in the residence halls are available to qualified undergraduate students. Contact the Housing Office.

Other Part-time Work Opportunities. A part-time job placement service for students is operated in the CAP Center. All non-work-study job opportunities on the campus are filed with, and recruited for, the CAP Center. Students should file an application with the CAP Center and periodically check the posted vacancies.
ADMISSION

Applications for undergraduate admission should be addressed to the Office of Admissions. Inquiries about graduate admission should be directed to the Graduate School. More information on graduate admission will be found in the Graduate School section of this catalog.

Campus Visit. Prospective students and their parents are invited to visit the campus. A visit provides an opportunity to visualize more fully the meaning of attending the university, especially if classes are in session. An appointment should be made to visit with a member of the admissions staff. Visits should be scheduled between 8 a.m. and 5 p.m., Monday through Friday, and by appointment only on Saturday. For more information, call the admissions office at (704) 227-7317.

Applications

Applicants for undergraduate admission must submit (1) a completed application form, (2) application processing fee (see Fees and Financial Aid section), and (3) complete academic records as described below in “Categories of Undergraduate Admission.” The application fee covers the cost of processing the application and is not refundable or applicable toward other charges and payments.

Admitted applicants must complete the medical form supplied by the Office of Admissions. All materials submitted, including transcripts, become the property of the university and cannot be forwarded or returned.

Admission Dates. Applications may be made for admission to regular terms beginning in August and January, and to summer sessions beginning in May and July. To assure timely processing and to avoid payment of a late registration fee, a completed application should be submitted at least 30 days before the beginning of the semester for which admission is desired. Application deadlines for fall admission vary with a student’s status and are listed in the following pages.

Early Registration for New Students. Students admitted to the university as undergraduates who plan to begin their enrollment in the fall semester are urged to attend one of the orientation conferences held each summer. During each two-day conference, the new student is given a general introduction to the university and campus life. In an individual appointment with an academic adviser, the student is assisted in selecting courses and registering for them. A special program of activities for parents of new students is available during each conference.

Undergraduate Admission

The university is open to all qualified students without regard to race, sex, color, national origin, religion, age, sexual orientation, or disability and is actively committed to recruiting and enrolling greater numbers of African-American and other minority students.

Freshman Students

Admission to Western Carolina University and placement into courses and programs are based upon a variety of factors including courses taken in high school, rank in class, SAT or ACT scores, high school grade point average, and placement tests at Western. Applicants must be graduates of accredited high schools. Graduates of unaccredited high schools may satisfy entrance requirements by examination. The university reserves the right to require any conditions deemed necessary. Applications also are considered for admission from prospective students who have achieved high school graduation equivalency by means of Tests of General Education Development (GED).

Entrance Examinations. Freshman applicants must take the Scholastic Aptitude Test (SAT) or the American College Test (ACT). The achievement test in subject-matter fields is not required. For the SAT, application forms and information concerning the test fee, dates, and
Secondary School Preparation. The quality and content of the applicant’s high school program are important. A good background in English, mathematics, foreign language, social studies, and natural sciences is recommended. Students with inadequate preparation in English and mathematics, if admitted, will be required to complete additional work in these areas.

To be considered for any category of admission, students must have graduated from high school and successfully completed the following 12 units of college preparatory courses in high school:

- 4 units of English
- 2 units of algebra
- 1 unit of geometry or advanced math
- 3 units of science including
  - 1 unit of a life or biological science and
  - 1 unit of a physical science
  - 1 unit of an additional lab science
- 2 units of social studies including
  - 1 unit in U.S. history

In addition, it is highly recommended that students complete at least two years of a foreign language in high school.

There are three categories of freshman admission to Western: regular, provisional and honors admission.

Regular Admission. Each applicant is evaluated on the basis of individual strengths and weaknesses for placement into the regular course sequence. Priority is given to those applicants who have demonstrated a strong potential for success in the academic programs at WCU. Factors which are used in the evaluation process include the following:

- Courses selected by the student in high school and the grades achieved in those courses. A strong college preparatory curriculum is recommended. All students who are admitted must meet the minimum unit requirements of the University of North Carolina system. Special attention may be given to work completed during the senior year.

- Scores achieved on either the Scholastic Aptitude Test (SAT) or the American College Test (ACT).

Placement tests in writing skills, mathematics, and oral communication are given during orientation to identify students who may be exempted from introductory courses or who may qualify for advanced standing. Reading may be added. The placement tests also determine the need for additional preparation in writing and mathematics before pursuing the regular course sequences in freshman English or freshman math.

Priority consideration for admission will be given to applications completed by May 1 for the fall term.

Provisional Admission. Students whose high school records and test scores do not qualify them for regular admission but who show some potential for successful college work may be considered for provisional admission to the university upon recommendation from their high school counselor and/or principal. Students admitted into the provisional category still must meet all Minimum Admission Requirement courses prior to enrollment. An applicant’s high school records and ACT or SAT scores will be the primary information used to determine
admission. The applicant must demonstrate the aptitude and motivation necessary to be able to successfully complete between 12 and 16 semester hours of college course work in the first semester of enrollment.

Admitted students will take placement tests in writing skills, mathematics, and oral communication during orientation. Depending upon placement, some courses in the first semester may not apply toward the 120-128 semester hours required for graduation.

The provisional admission program features additional tutoring and small, clustered classes that are designed to ease the transition from high school to college.

**Minimum Admissions Requirement at the 16 Institutions of the University of North Carolina.** The following courses are required for admission, in addition to an institution's own specific requirements: in English, four course units emphasizing grammar, composition, and literature; in mathematics, three course units including algebra I, algebra II, and geometry, or a higher level mathematics course for which algebra II is a prerequisite; in science, three course units including one unit in a life or biological science (for example, biology), one unit in a physical science (for example, physical science, chemistry, or physics), and one laboratory course; and in social studies, two course units including one unit in U.S. history, but an applicant who does not have the unit in U.S. history may be admitted on the condition that at least three semester hours in that subject will be passed by the end of the sophomore year.

In addition, it is recommended that prospective students complete at least two course units in one foreign language and take one foreign language course unit and one mathematics course unit in the 12th grade.

"Course units" as defined in these requirements may include those high school-level courses taken and passed by an applicant after graduating from high school, as well as those taken while enrolled as a high school student.

**Pre-University Honors Program.** This program enables high school students who have completed the junior year with superior academic records to begin work toward a university degree. Students who qualify may enroll in and earn credit for selected freshman courses. Full information is available from the Office of Admissions.

**Transfer Students**

Applicants must have official transcripts, with statements of honorable dismissal, submitted by all institutions formerly attended. The applicant must meet freshman admission requirements and submit an official high school transcript with SAT or ACT test results. If a transfer student failed to meet the Minimum Admissions Requirement, the student must earn six semester hours of transferable credits in each of the following subjects prior to enrolling at WCU: English, math, science, social science. Transfer applications should be submitted by July 1 for fall admission and at least 30 days prior to the beginning of spring or summer terms.

Transfer students must have earned a minimum grade-point average (GPA) of 2.00 (C average) on all work attempted and on courses attempted in their most recent term. A student on probation at another institution or one whose grade-point average is such that the student would be on probation if the credits had been earned at Western Carolina University, if admitted, may be accepted only on academic probation. The specific conditions will be stated in the letter of admission. Applicants who are ineligible to return to the last institution attended for any reason cannot qualify for admission.

Students transferring from any unaccredited institution, if admitted, will be placed on academic probation and may be permitted to validate transfer credits by attaining satisfactory grades at Western Carolina University. Normally, a minimum GPA of 2.30 on the first 12 semester hours attempted will be required.

The academic records of transfer students will be evaluated by an admissions officer and the department head of the student's major. University policies on transfer of undergraduate credit are explained in the section of this catalog on academic regulations.
Former Students

Readmission of former students is not automatic. Undergraduates who were not enrolled at the university in the immediately preceding semester (excluding summer terms) must apply for readmission. Applications, application fees, and all documents supporting the request for readmission must be submitted 30 days prior to the beginning of the term in which further enrollment is planned. Transcripts of work taken at any other colleges during the interim must be submitted. Former students who have attempted course work at another institution since their enrollment at Western also must meet transfer admission requirements.

Former students who are not in good standing at the university also must be approved for readmission by the Committee on Admission, Readmission, and Retention. The committee's decision is based upon the student's entire university record including, but not limited to, the student's academic record. Students should review the academic re-evaluation and two-year rule policies in this catalog before applying.

Post-Baccalaureate Students

Graduates of accredited four-year institutions may apply for admission to work toward another undergraduate degree. Students cannot be awarded more than one of the same type of undergraduate degree (i.e., two B.A. degrees, two B.S. degrees, etc.). The general requirements for second degrees are stated in the section of this catalog on degree programs and requirements. Students seeking to pursue advanced degrees should refer to the Graduate School section.

International Students

International students are welcome at the university. Students must apply for admission and submit all credentials sufficiently in advance of the first term of enrollment to allow for evaluation 30 days before the beginning of that term. A satisfactory score (550 or higher) on the Test of English as a Foreign Language (TOEFL) and evidence of financial responsibility are required. Students may enroll in English 131 and English 132, which are specifically designed for international students. Further information is available from the Office of Admissions, Graduate School, or the international student adviser in the Office for Student Development.

Other Eligible Persons

Special Students. Persons not seeking degrees may apply as special students by completing an application and the nondegree intent form and paying the $35 application fee. High school students seeking to enroll as special students also must have written recommendations from their high school principals or guidance counselors. Persons who plan to meet teacher certification requirements must provide transcripts of all college work attempted.

Extension Students. Individuals may enroll in extension courses with the approval of the coordinators of the courses. An extension student who later desires to enroll in courses for degree credit must meet regular admission requirements.

Transient Students. A student interested in enrolling for a semester or a summer session before returning to another institution may be admitted as a transient. A statement of good standing at the former institution and a statement from the student's dean indicating the acceptability of the credits to be earned at Western Carolina University are required.

Persons over Age 65. Legal residents of North Carolina aged 65 and over who qualify for admission may enroll in courses on a tuition-free basis if space is available. Information about admission and registration policies and procedures may be obtained from the registrar.

Special Consideration. Persons of above-average ability who do not meet admission requirements in any category may request special consideration by submitting a letter of
explanation and supporting information. However, regular admission guidelines are regarded as sound for the student and the university. Few exceptions are made.

**Appeals of Admissions Decisions**

Admissions decisions may be appealed by presenting a written request for reconsideration to the Committee on Admission, Readmission, and Retention through the director of admissions. The request should indicate the reasons for reconsideration and any factors the applicant feels were not given adequate consideration in the admissions process. Upon receipt of a written request, the director of admissions will present the application, supporting information, and the appeal to the Committee on Admissions, Readmissions, and Retention. Applicants will be notified of the committee's decision.

**Summer School Admission**

All policies in effect during the regular academic year are applicable to summer school. Further information is available upon request from the Division of Continuing Education and Summer School, Graduate School, or Office of Admissions, and in the *Summer School Catalog/Schedule*, issued each spring.
ACADEMIC REGULATIONS

Each annual General Catalog Issue of The Record becomes effective at the opening of the summer term. To receive a degree, a student must complete satisfactorily all requirements of the catalog in effect at the time of first enrollment. A student who leaves the university for a period of one calendar year or longer and then returns to the university will be required to meet the requirements in effect at the time he returns. A student who changes to another major will be required to meet the requirements in effect at the time of the change. A student who takes longer than seven years to graduate may become subject to current catalog requirements. Exceptions to these policies may be necessitated by changes in course offerings, degree programs, or by action of authorities higher than the university; but every effort will be made to avoid penalizing the student.

By exercising a written option, a student may choose to graduate under the terms of a catalog in effect at a time later than provided for above. Option forms are available in the deans' offices.

Courses listed in the catalog are offered at times appropriate for maximum availability to students; listings for each term are prepared well in advance. The university reserves the right to withdraw a course if registration is insufficient to justify offering it at the time planned.

Every effort has been made to assure the accuracy of this catalog to the extent possible at press time. However, changes in or elimination of provisions contained herein on any and all matters, including courses, course descriptions, designations of faculty, fees and other charges, admission and degree requirements, and academic policies and procedures, may be made and applied before the next catalog is published. Students should contact the appropriate department head, dean, or other administrative officer for current information.

Scholastic Status Check. Each student is expected to know the information in the catalog and to verify that qualitative and quantitative requirements for a particular class rank and for proper progress toward graduation are being met. All students should check official records periodically to confirm their status. The university does not assume responsibility for the student's unexpected failure at the last minute to meet all requirements for graduation, whether failure is due to misunderstanding or negligence concerning those requirements or to an inability to meet them.

Registration

Registration takes place on designated days at the beginning of each semester and summer term. Students already enrolled also may register early for the next term during each regular semester. New students who attend one of the summer orientation sessions are registered for the following fall semester during the conference.

Late Registration. Except under special conditions, no student is permitted to register or add courses after the last day of late registration as announced in the academic calendar. A late registration fee will be charged.

Credits, Grades, and Quality Points

The basic unit of credit is the semester hour. A semester hour represents one lecture-recitation hour or a minimum of two laboratory hours a week for a semester. In experiential courses a minimum of three hours is required per hour of credit.

Course Load for Undergraduates. The minimum full-time course load during a fall or spring semester is 12 hours. A normal load is 16 hours; however, a student may take up to 19 hours. Any schedule that exceeds 19 hours constitutes an overload and must be approved by the student's adviser and the appropriate administrators as indicated on the request and
approval form. Twelve hours is the maximum that may be earned in experiential courses during a semester. Course load regulations for the summer session are published in the Summer School Schedule of Classes.

Classification. Regular degree-seeking undergraduates are classified based upon cumulative hours earned:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Range of Hours</th>
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<tbody>
<tr>
<td>Freshman</td>
<td>0-29 hours</td>
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<tr>
<td>Sophomore</td>
<td>30-59 hours</td>
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<tr>
<td>Junior</td>
<td>60-89 hours</td>
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<td>Senior</td>
<td>90 or more hours</td>
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Grading and Quality Point System*

<table>
<thead>
<tr>
<th>Grade</th>
<th>Interpretation</th>
<th>Quality Points per Semester Hour</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
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<tr>
<td>A-</td>
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<tr>
<td>B-</td>
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<tr>
<td>C+</td>
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<td>2.33</td>
</tr>
<tr>
<td>C</td>
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<td>C-</td>
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<td>D</td>
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<td>D-</td>
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<td>0.67</td>
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<tr>
<td>F</td>
<td>Failure</td>
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</table>

<table>
<thead>
<tr>
<th>Grade</th>
<th>Interpretation</th>
<th>Quality Points per Semester Hour</th>
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</thead>
<tbody>
<tr>
<td>I</td>
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<td>--</td>
</tr>
<tr>
<td>IP</td>
<td>In Progress</td>
<td>--</td>
</tr>
<tr>
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<td>Satisfactory</td>
<td>--</td>
</tr>
<tr>
<td>U</td>
<td>Unsatisfactory</td>
<td>--</td>
</tr>
<tr>
<td>W</td>
<td>Withdrawal</td>
<td>--</td>
</tr>
<tr>
<td>AU</td>
<td>Audit</td>
<td>--</td>
</tr>
<tr>
<td>NC</td>
<td>No Credit</td>
<td>--</td>
</tr>
</tbody>
</table>

*See Graduate Catalog Issue for the graduate level grading system.

Students must be familiar with the class attendance, withdrawal, and drop-add policies and procedures.

Incomplete. The instructor may grant a student an I grade for work not completed if there is a reasonable prospect that the student can pass the course by making up the work missed, if the incompletion is unavoidable and not caused by the student’s negligence. All incomplete grades must be removed and a grade of A, A-, B+, B, B-, C+, C, C-, D+, D, D-, F, S, or U must be submitted to the registrar. The work must be made up and a grade received by the registrar by the last day of classes of the next regular semester, or the grade will become an F. A student may not re-register for the course until the I is removed or changed to an F. The instructor is required to list the conditions to remove the I and send them to the department head. If the instructor is no longer employed by the university, the department head will remove the I upon completion of the stated requirements. In extenuating circumstances, students should refer to the Academic Appeals Procedure section in The Record.

In Progress. In progress grades are assigned only in selected courses which have been approved for IP grading and is pending until the work is completed.

Satisfactory- Unsatisfactory. S/U grading is limited to courses in which standard or traditional grading is rendered difficult by the nature and purpose of the courses. There is no limit on the credit hours a student may earn in S/U grades except that imposed by the types of courses approved for such grading. S/U grades may not be awarded in courses unless specified in the course descriptions in this catalog and in the master class schedule. S and U are the only grades assigned in these courses. Neither grade is used in calculating the GPA, but an S allows hours of credit while a U does not.

Audit. When space is available, a registered student may audit a course with the approval of the adviser, the instructor, and the head of the department offering the course. A completed course audit form must be submitted in order to enroll. Change from audit to credit, or the reverse, is permitted only during the regular schedule adjustment period. No credit is earned
for auditing, but the audited course must not add hours in excess of the student's maximum load. An audited class will be noted on the student's transcript. Audit courses do not count toward the 12 hours required for full-time enrollment. Participation in class activities is optional with the instructor. Tuition and fees for audited courses are determined by the hour value of the courses.

**Final Grade Changes.** When a grade other than incomplete is reported officially by an instructor at the end of a term, the grade is recorded and can be changed only if an error was made in estimating or reporting it. The instructor will, with the approval of the department head, report the error in writing to the dean with a recommendation about the action to be taken. Only the instructor can change the grade in a course except as provided in the incomplete grade policy. Any request by a student for a change in a final grade must be submitted to the instructor within 30 days after the mailing of the final grade report.

**Withdrawal Policies and Procedures**

A student may find it necessary or advisable to withdraw from one or more courses during a term. In some cases, he/she may find it necessary to withdraw from the university.

**Course Withdrawal.** After consultation with the academic advisor and the instructor of the course, a student may withdraw from any course prior to the expiration of one-half of the term and receive a W. A completed withdrawal form must be presented to the registrar prior to the withdrawal deadline for posting. Course withdrawals do not count toward the 12 hours required for full-time enrollment.

After one-half of a term, a W will be assigned only for written verifiable health, medical, or legal reasons. This verification must come from a Western Carolina University physician, Counseling and Psychological Services staff, or from an official of a court of law. If withdrawal from a course is approved by the course instructor, the department head offering the course, and the student's adviser, the withdrawal form must be submitted by the last day of regular classes to the registrar by the department offering the course for posting. In extenuating circumstances students should refer to the Academic Appeals Procedure section in *The Record.*

**UNIVERSITY WITHDRAWAL.** To withdraw from the university (i.e. drop all courses), a student must:

1. Obtain a withdrawal form from the Office for Student Development;
2. Obtain all the required signatures on the withdrawal form;
3. Return the completed form to the Office for Student Development.

If an emergency prevents a student from completing the withdrawal process before leaving the campus, the student should call, write, or arrange for a friend or relative to contact the Office for Student Development.

Any time a student is forced to withdraw from the university during a term for health, medical, legal, or administrative reasons which are verified in writing, a grade of W will be assigned in all courses in which the student is registered. If a student withdraws from the university for other than health, medical, legal, or administrative reasons after one-half of the total class time has elapsed, an F, W, or I grade will be assigned by the instructor according to the following guidelines:

1. A W grade will be assigned if the student is passing or if the student's progress has not been evaluated.
2. An I grade will be assigned if the instructor agrees that there is a reasonable prospect that the work can be made up and agrees to allow the student to do so.
3. An F grade will be assigned if the student is failing.

Current policies and procedures pertaining to grades, indebtedness, and refunds are applicable upon withdrawal from the university. A student who withdraws from the university either during or at the end of a term for any reason is responsible for clearing any indebtedness
in the housing office, bookstore, financial aid office, controller's office, library, office of public safety, academic departments, and infirmary.

**Academic Appeals Procedure**

Students who feel that they have been treated unjustly by an instructor in any matter pertaining to their academic work normally shall appeal first to the instructor. If necessary, an appeal then may be addressed to the instructor's department head and next to the dean. The student may consult any administrator in beginning the process, but only the instructor can change a grade.

After appealing to the instructor, department head, and dean, the student may appeal to the Academic Problems Committee. This committee hears student grievances arising from academic matters and makes recommendations to the Office for Academic Affairs. A student who wishes to do so may appeal the vice-chancellor's decision to the chancellor. Information about the composition and procedures of the Academic Problems Committee is available in the *Student Handbook* and the *Faculty Handbook*, or in the Office for Academic Affairs.

**Academic Honesty Policy.** Western Carolina University, a community of scholarship, is also a community of honor. Faculty, staff, administrators, and students work together to achieve the highest standards of honesty and integrity. Academic dishonesty is a serious offense at WCU because it threatens the quality of scholarship and defrauds those who depend on knowledge and integrity. Academic dishonesty includes the following:

A. Cheating. Intentionally using or attempting to use unauthorized materials, information, or study aids in any academic exercise.

B. Fabrication. Intentional falsification or invention of information or citation in an academic exercise.

C. Plagiarism. Intentionally or knowingly representing the words or ideas of someone else as one's own in an academic exercise.

D. Facilitation of Academic Dishonesty. Intentionally or knowingly helping or attempting to help someone else to commit an act of academic dishonesty, such as knowingly allowing another to copy information during an examination or other academic exercise.

For specific information on procedures for cases involving allegations of academic dishonesty, see relevant sections in the *Student Handbook*.

**Transcripts.** Transcripts are furnished, either to the student or by mail, only after accounts are cleared and only upon the student's written request, which must include the student's signature and student identification number. There is no charge for transcripts issued.

The forgery of transcripts and diplomas or the use of such documents with intent to defraud is illegal under North Carolina law. Appropriate action will be taken.

**Student Academic Record Policy.** The university complies with the appropriate portion of the Family Educational Rights and Privacy Act of 1974 and recognizes the right of students to inspect their educational records, ask for interpretations, and request correction of errors. The full statement about records maintained and policies concerning them is available from the registrar.

**Academic Standing**

A student's academic standing during any term is determined by the cumulative grade-point average (GPA) earned on the total quality hours. To be in good academic standing, a GPA of 2.00 must be maintained. A student who is not in good academic standing is not eligible for graduation.

Students on academic warning or academic probation are eligible to attend the university under specified provisions but are not in good standing.
Quality Points and Grade Point Average. A quality point is the numerical value assigned to a letter grade. The quality points earned in a course are determined by multiplying the quality point value of the grade earned by the credit-hour value of the course. The GPA is determined by dividing the total number of quality points by the total number of semester quality hours.

The credit hours earned in all of the university's off-campus, degree-credit courses are awarded quality points on the same basis as courses on the Cullowhee campus.

Quality Hours. "Quality hours" refers to the total credit-hour value of all Western Carolina University courses in which a student has regularly enrolled and earned grades from A to F.

Transfer Hours. "Transfer hours" refers to the total credit-hour value of courses accepted toward a degree not earned by regular enrollment in Western Carolina University courses. This includes hours earned through (1) transfer of credit from other institutions, (2) military service courses, and (3) credit for experiential learning.

Academic Honors

The GPA for honors is computed only on work completed at Western Carolina University.

The Deans' List. To be on the deans' list each semester, a student must have a GPA of 3.50 or higher on a regular semester's work of not less than 12 hours, excluding remedial courses, with no grade of D+, D, D-, or F.

Graduation with Honors. To graduate summa cum laude, a student must have earned a minimum GPA of 3.90 on quality hours attempted at Western Carolina University for the degree; to graduate magna cum laude, a GPA of 3.70; and to graduate cum laude, a GPA of 3.50. In case of transfer hours from other institutions, a student must earn the appropriate GPA in all courses taken at Western Carolina University in order to graduate with honors.

To be designated University Scholars, students must have enrolled as freshmen and completed their entire undergraduate careers at Western Carolina University with a GPA of 3.90. Students who meet this requirement, except for courses taken with permission at other institutions as transients, are eligible for designation as University Scholars.

To be awarded an honors degree, a student must have successfully completed the Honors Program. With the appropriate GPA, a student receiving an honors degree will also receive the designation cum laude, magna cum laude, or summa cum laude.

The names of students graduating with honors must be jointly passed upon by the vice-chancellor for academic affairs and the registrar.

Retention Policy for Undergraduates

Good academic standing means that a student has earned an overall "C" or better average (2.0 grade-point average on a 4.0 scale) on courses taken at Western Carolina University. Good academic standing is expected of all students. Students must also meet the university's requirements for minimal progress or retention.

Some departments or colleges at WCU require a cumulative grade-point average higher than 2.0 for admission to or continuance in a major program. Students should refer to the appropriate section in this catalog for specific information. Any minimum grade point requirements imposed by the Office of Admissions at the time of admission will supercede this policy.

If a student's cumulative grade-point average falls below 2.0, the student is not in good academic standing, and a notice to that effect will appear on all grade reports and registration cards. These students should consult with their academic advisor and take advantage of university support services. Students who are in academic difficulty will receive one of the following messages on their grade reports: Academic Probation or Academic Suspension. These messages are determined by the following:
A student is on Quality Hours Academic Academic and Probation Suspension Transfer Hours: when GPA is: when GPA is:

<table>
<thead>
<tr>
<th>Hours</th>
<th>GPA Range 1</th>
<th>GPA Range 2</th>
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</thead>
<tbody>
<tr>
<td>1-17</td>
<td>1.999-1.000</td>
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<tr>
<td>18-21</td>
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</tr>
<tr>
<td>111 or more</td>
<td>---</td>
<td>1.999 or lower</td>
</tr>
</tbody>
</table>

In addition to the above determination based on grade-point average, a student will be placed on academic suspension if he/she has been on academic probation for two consecutive regular terms.

First semester transfer students will be academically suspended if they fail to achieve a minimum 1.0 GPA by the end of their first semester at WCU. After the first semester, transfer students must meet the grade-point average minimums listed above which correspond with the total of their transfer hours and WCU quality hours.

**Academic Probation.** Students who are on academic probation must achieve one of the following by the end of the next semester:

1. A cumulative GPA of 2.0 (while taking any number of hours), or
2. Attain a minimum 2.3 semester GPA on at least 12 hours but no more than 15 hours during the semester. (During summer terms a student must attain a minimum 2.3 semester GPA on at least six hours but no more than 12 hours.)

**Academic Suspension.** A student whose grade-point average and hours place him or her under academic suspension is no longer eligible for enrollment in the university. After one suspension, a student is ineligible to enroll at WCU before one regular semester has elapsed. Upon being suspended twice, a student is ineligible to enroll at WCU until two regular semesters have elapsed. Subsequent suspensions will cause a student to be ineligible to enroll at WCU until two calendar years have elapsed, at which time the student may ask that the two-year rule be applied.

Appeals for reinstatement without having to serve a specified period of suspension are approved or denied by the Admissions, Readmissions, and Retention (ARR) Committee. The ARR Committee’s decision is final and based upon the student’s written request for reinstatement, the supporting documentation submitted, and his/her previous academic record. Requests for reinstatement must be submitted to the Office of Academic Services as soon as possible but no later than ten days prior to registration.

A student whose appeal for reinstatement is approved will be designated as “Suspended/Reinstated” on his or her academic record. Each successful appeal resulting in reinstatement
will be counted as part of the student's total number of suspensions in determining the length of time a student is ineligible to enroll at WCU.

**Readmission After Suspension.** Students who have been out the required amount of time may apply for readmission in the same manner as other former students. See the “Admission of Former Students” in this catalog.

**Repeat Course Policy for Undergraduates**

A course previously taken for credit may be repeated only once at the university, except that if a student fails a course being repeated, the course may be scheduled again until it is passed. The student must complete the Repeat Course Request form each time a course is repeated.

A student is to be allowed to repeat a maximum of five courses but no more than 15 semester hours in which the initial attempt is exempted from GPA computation. After the five-course or 15-hour maximum, the hours attempted will be used to compute the student’s GPA.

If a course is repeated once for credit, only the quality points and the hours earned the last time the course was taken will be used in computing the student’s GPA. When a course is repeated more than once, the quality hours and grades earned each time the course is repeated will be counted in computing the student’s GPA. Courses taken after graduation will not affect the degree GPA. Neither a repeated course nor a grade is removed from the student’s transcript. It is the student’s responsibility to detect and report a needed adjustment to the academic record.

**Academic Re-evaluation Policy**

To be eligible to elect an academic re-evaluation, a student must have a cumulative GPA below 2.00 and must have made a GPA of 2.30 or better on 12 or more hours of work for each of two successive semesters, one of which may be summer school. At least 18 hours of the work taken in the two semesters must apply to general education requirements or the requirements in the major, if these have not been met already. A written request for re-evaluation is required.

To be eligible to graduate after re-evaluation, a student must complete at least two semesters in residence. No course passed with a D (1.0) grade prior to these two semesters will count toward the 120 or 128 hours required for a degree. Such courses may be used to waive general education requirements but not to fulfill major requirements.

The student’s GPA for retention and graduation will be computed only on work taken during and after the two semesters on which re-evaluation is based. However, the number of hours previously passed with a grade of C (2.0) or higher will be counted as earned hours.

This policy does not alter the administration of the two-year rule policy.

**Two-Year Rule Policy**

An undergraduate with a GPA below 2.00 who has not attended the university for two or more calendar years and who is eligible for readmission is given the option of having the two-year rule applied or not applied.

If the two-year rule is applied, all courses completed before the interruption are treated as if they were transferred from another institution. No hours of credit will be allowed for courses in which D (1.0) grades were earned, although, at the discretion of the student’s major department, they may be used to waive appropriate course requirements. The student’s cumulative GPA will be based on courses attempted after readmission. The earned hours will include all credits (1) transferred from other institutions, (2) completed with a grade of C (2.0)
or higher before the two-year rule was applied, and (3) earned after the last two-year rule was applied.

If the two-year rule is not applied, the student will return with a cumulative GPA, credit hours, and grades as if the interruption had not occurred. The quality point deficit of some students may be of such a magnitude that the application for readmission from a student who has chosen not to apply the two-year rule may be rejected.

A student, having elected to have the two-year rule applied or not applied, may not reverse the option later. Applications for the two-year rule may be obtained from the registrar and submitted to that office prior to the initial term of re-enrollment.

Credit and Placement Policies

Evaluation of transfer, CLEP, and advanced placement credits are coordinated through the Office of Admissions. The university will accept or transfer appropriate undergraduate credits earned through credit by examination, advanced placement, CLEP, correspondence courses, extension courses, armed forces service schools, and college-level courses completed prior to graduation from high school. With the approval of the appropriate academic departments, the amount of such credit which may be applied toward a degree is subject to limitation only by the university's general residence requirement and the prescribed courses in the major field of study and degree program. Credit toward a degree is not awarded for Continuing Education Units or for General Education Development tests (GED).

Transfer of Credit

A preliminary evaluation of credits offered in transfer is completed after admission. The final evaluation is made after all official records are received directly from each institution previously attended. The applicability of transferred credits toward degree requirements is determined by an admissions officer and the department head of the student's major. In some cases, due to accreditation standards, validation of a course by successful completion of more advanced work in the same discipline or by examination may be required.

Only work passed with a grade of C or better may be transferred. Grades from other grading systems that are equivalent to a C or better may be transferred. Except for consortium agreements, no credit will be allowed toward graduation or toward fulfillment of major requirements for a course passed with a D at another institution, but these courses may be used to waive a general education requirement. Credit will not be awarded for courses determined to be below the collegiate level at Western Carolina University. Undergraduate credit will not be awarded for graduate-level courses.

A minimum of 25% of semester hours applied toward a bachelor's degree must be earned through regular enrollment in Western Carolina University junior-senior level courses, including a minimum of 12 hours in junior-senior courses in the major field.

In addition to those credits accepted as equivalents of the university's freshman and sophomore courses, a maximum of 30 hours of credit may be allowed toward graduation for freshman and sophomore courses completed at other institutions which are normally offered above the sophomore level at Western Carolina University.

There is no time limit on the course work accepted for undergraduate transfer credit. However, students who plan to schedule courses with stated prerequisites should consider auditing the prerequisite courses if no work has been attempted in the field within the past five years.

Regularly enrolled students who desire to take any course at another institution and transfer it must secure the appropriate department head's and dean's approval before enrollment at the other institution. Forms are available in the Admissions Office and the departments. Course work taken at an institution which has a consortium agreement with Western Carolina University will be given credit on the same basis as course work taken at WCU.
Grades made in transferred courses are not considered in computing the GPA at Western Carolina University, but transferred hours are added to earned hours and will affect the student's overall academic standing. A student may not expect to have the repeat course policy applied on the basis of courses completed at other institutions. Currently enrolled and former students (those not enrolled for one or more of the immediately preceding semesters, excluding summer terms) who attempt courses at other institutions must earn a cumulative 2.00 GPA and submit official transcripts of all work attempted to the Office of Admissions in order to be eligible to return to WCU.

Transfer Credit from Unaccredited Institutions. Credit for courses taken at unaccredited institutions, if accepted, may be subject to validation by successful completion of more advanced courses and through the university's credit by examination and CLEP policies.

Transfer of Credit from Technical Programs. Credit may be transferred from a technical program of a two-year institution and applied toward an appropriate bachelor's degree if the institution is fully accredited or is a candidate for regional accreditation. Students who have not earned an associate degree in a technical program, or who hold a degree in a program not covered by a cooperative agreement, will have their credits evaluated by the Admissions Office and the department head of the student's major. Information about course transferability may be obtained in the admissions office.

Cooperative Transfer Agreements. For students who have earned an associate degree from a two-year institution in a program covered by a cooperative transfer agreement with that institution, the requirements for a degree in that program are as stipulated in the agreement.

English Proficiency Policy

Students are certified proficient in English as a corollary of the satisfactory completion of the freshman composition courses (ENGL 101 and 102). Students who receive transfer credit for ENGL 102 must take the English Proficiency Examination during transfer orientation session or in their first subsequent semester at the university.

Students may not repeat the examination, and examinations taken at other institutions are not accepted in lieu of the requirement. Students who fail the examination, and any other undergraduates who receive two composition-condition marks (CC), are required to enroll in ENGL 300 in the semester immediately following. A student may choose to enroll in ENGL 300 instead of taking the examination and meet the proficiency requirement by passing the course. The credit earned in ENGL 300 may be applied as general elective credit.

Composition-Condition Marks. A student whose written work in any course fails to meet acceptable standards will be assigned a composition-condition (CC) mark by the instructor on the final grade report. All undergraduates who receive two CC grades prior to the semester in which they complete 110 hours at Western Carolina University are so notified by the registrar and are required to pass English 300 before they will be eligible for graduation. This course must be taken within two semesters of receiving the second CC and must be passed with a grade of C (2.0) or better.

Oral Competence-Condition Marks. A student whose oral communication skills in any course fails to meet acceptable standards will be assigned an Oral Competence-Condition (OCC) mark by the instructor on the final grade report. All undergraduates who receive two OCC grades prior to the semester in which they complete 110 hours at Western Carolina University are so notified by the registrar and are required to pass CMHC 300 before they will be eligible for graduation. This course must be taken within two semesters of receiving the second OCC and must be passed with a grade of C (2.0) or better.

Placement in Freshman English

Based on the scores achieved on writing samples taken during orientation sessions, students will be placed in the appropriate composition section: ENGL 100, 101, or 102 Honors.
Students with exceptionally high scores on the writing sample may place out of Freshman English altogether, receiving six hours of credit toward graduation. Students placed in ENGL 102 Honors who achieve a grade of C (2.0) or better will receive an additional three hours of credit for ENGL 101. Students placing into ENGL 101 must complete the six-hour Freshman English sequence of ENGL 101, followed by ENGL 102.

Although students placing into ENGL 100 may not apply its three hours of credit toward graduation, they must complete that course to become eligible for entry into the ENGL 101-102 sequence.

**Placement in Mathematics**

A mathematics placement exam is administered to all entering students during the summer orientation sessions and at the beginning of each semester. Based on the results of this exam, students may place into MATH 130, 170, 145, 146, or 153. Students who do not pass the exam will be required to pass MATH 100 before enrolling in any course for which MATH 100 is a prerequisite.

If a student's major or program requires only a general education math course, students may take Math 101 regardless of their placement. Advisors should check the catalog for major or program requirements.

**Advanced Placement**

Students may become eligible to enter intermediate or advanced courses in a field, bypassing one or more lower-level courses, if they qualify on the basis of their performance on advanced placement tests.

**Placement in Modern Foreign Languages**

Students will be placed at the appropriate level in a language based on the number of years of high school and/or college-level language study. Any student placed in the second or higher course in French, German, or Spanish who passes that course with a grade of C (2.0) or better will receive three or six hours of credit for the courses bypassed. This may include the general education course 101. Additional information can be obtained from the department or from a CAP Center adviser.

**Chemistry.** Freshmen with above-average ability in chemistry are encouraged to take the American Chemical Society's standardized examination. Satisfactory performance allows a student credit in either CHEM 132 or 140. Additional tests may be taken for a maximum of 10 hours of credit.

**Mathematics.** A placement test is given to all entering students each semester. Based on the results of this test, students are placed in appropriate courses.

**Algebra.** The upper level algebra test, administered during the summer orientation sessions and at the beginning of each semester, should be taken by freshmen with two or more years of high school algebra. MATH 146 will be waived as a requirement for students whose performance is satisfactory.

**Trigonometry.** Every student who has had high school trigonometry and plans to take calculus is expected to take the upper-level placement test which has a trigonometry component. This test is administered during summer orientation sessions and at the beginning of each semester. MATH 145 will be waived as a requirement for students whose performance is satisfactory.

**Advanced Placement Program.** Students who earn a grade of 3 or above on the College Board advanced placement courses will be awarded credit based upon the evaluations of the appropriate department heads. Currently, credit may be earned in American and European history, art history, biology, chemistry, computer science, English, French language and literature, German literature, mathematics, physics, statistics, and Spanish language and literature.
Assessment Program. As part of WCU's continuing effort to maintain the quality of academic programs and university services, the university has implemented student outcomes assessment. Measuring student intellectual growth, attitudes, perceptions, and skills provides the university with essential information in evaluating its effectiveness. Students are required to participate in these assessments throughout their enrollment at the university. The assessment information is not part of the student's official record and individual scores may only be reported to the student. Other uses of assessment data will be reported only in aggregate form to the university community and required external sources.

Noncredit Courses. Credit earned in ENGL 100, MATH 100, and EDRD 150 will not count toward the 120 or 128 hours required for graduation. This policy became effective Fall term, 1987.

Credit by Examination

A student may apply to be examined in any general education course and any other course identified by a department head as available for credit by examination. The student must present an approved permission form after the examination has been completed. Students making an A (4.0) or B (3.0) will receive credit. Those making C (2.0) do not receive credit, but are eligible for a waiver of a course requirement. With a D or F, credit may be earned only by regular enrollment during a subsequent semester. The GPA will not be affected by the grade made on the examination. All credit by examination attempts must be completed prior to the semester of graduation.

The examination procedure may be attempted only once for any one course. Students who have completed more than two collegiate courses in the field of study concerned may earn credit by examination only after securing written approval of the head of the department in which the course is offered. However, they may take the examination and secure a waiver of a curricular requirement by scoring a C (2.0) or higher.

The fee for scheduling a course on a credit by examination basis is $15. No fee will be assessed if the examination is being used to validate transfer credits or when the student is enrolled fulltime during a fall or spring semester.

The College Level Examination Program

The university cooperates with the College Board in this program, through which credit may be awarded for the CLEP subject examinations that have been approved by the academic departments as appropriate measures of academic achievement in their courses. Elective credit may be granted for examinations covering material which is not the substantial equivalent of any specific Western Carolina University course. These elective credits may be applied toward graduation requirements if the student fulfills certain general education requirements or complies with other conditions prescribed by the appropriate deans and department heads. The subject examinations also may be used to validate credits earned at unaccredited institutions or courses taken through military service and to earn credit for courses failed at the university or other institutions. A list of the approved examinations and the credit that may be awarded is available in the Office of Academic Services.

The minimum score required for credit is the 50th percentile on the national norms for the examination in question. Departments also may require demonstration of achievement by satisfactory completion of an essay or by provision of other evidence of the competencies to be mastered in a course or course sequence. The general examinations of CLEP are not accepted for credit. Subject examinations that are repeated within less than one year from the date of previous testing will not be considered for credit.

Credits earned through CLEP will be posted on the transcript, but no grades are recorded. The student's GPA will not be affected. Duplicate credit is not awarded in any case. CLEP credits earned at other institutions will be evaluated in the same manner as the equivalent courses at those institutions. The same policies and procedures used in evaluating the applicability of other advanced-standing and transfer credits toward a degree will be applied.
Credit for Experiential Learning

Western Carolina University endorses the concept of undergraduate credit for experiential learning in recognition of valid learning experiences. Departments awarding credit for experiential learning do so on the basis of detailed departmental guidelines and procedures as approved by the Council on Instruction and Curriculum. However, credit is awarded by a department only for those competencies which are related to areas of instruction in that department and which are applicable to the degree program being completed. Credit is not extended automatically or in blanket fashion.

To receive credit for experiential learning a student must submit a request to the appropriate department head. A faculty committee named by the department head will review the request. If the request seems appropriate, the student will be provided with guidelines for preparing a portfolio which the committee will review to determine the conditions and amount of credit to be awarded.

Credit for all or part of a course(s) may be awarded. If partial credit is awarded, the student will pay the full cost of the course, but will be required to attend only those classes and do additional work as designated. There is no charge for courses for which full credit is awarded. Committee actions, when endorsed by the department head and dean, must be reported to the registrar. The credit awarded is not applicable to the university’s residency requirement.

Credit for Veterans of Military Service

To receive credit for military service, a veteran must have served at least 12 months in continuous active duty in a branch of military service and present the registrar an official copy of the Department of Defense (DD) 214. Once evaluated, the student will receive seven hours of credit in free-electives. Service school courses will be evaluated on a course-by-course basis using the American Council of Education recommendations for evaluation of military credits. This award of credit does not alter other university requirements, or major, minor, concentration, or general education requirements for a degree.

Class Attendance Policy

Western Carolina University expects students to recognize the positive effect on academic success of class attendance and participation. All undergraduates are expected to attend all meetings of the courses in which they are enrolled; any absence is incurred at the student’s own risk.

Each instructor will establish the attendance requirements, make-up procedures, and guidelines for excused absences in each course and the effect that irregular attendance, lack of participation, and inadequate preparation will have upon a student’s grade. The instructor will distribute written attendance policies to students at the beginning of each term. An instructor may establish special and more demanding attendance requirements for students who are performing less than satisfactorily. Each student is responsible for complying with the announced procedures for making up missed work.

A student with more unexcused absences in a 100-(freshman) or 200-(sophomore) level course than the semester hours given for the course can expect the instructor to lower the course grade. Class attendance may be required of undergraduate students as a condition of admission or readmission to the university or of eligibility to continue enrollment.

Group Absences and Field Trips. Field trips and scheduled absences should be planned to disrupt the school calendar as little as possible. Only in rare instances should they be made during the last two weeks of the semester or when early registration is in progress. Classes missed because of field trips or service to or for the university must be processed in advance by the instructor and each participating student. The faculty member in charge must obtain
permission for the trip from the dean at least 10 days in advance and give each student a copy of the approved request. Each student must present the request, containing the name of the sponsor and the group, the purpose and dates of the trip, and the names of the participating students, to each instructor for signature prior to the trip. The faculty member will notify the dean if any students fail to make the trip. Questions of policy interpretation may be referred by the dean to the Office for Academic Affairs.

A student who misses an examination or quiz because of an approved trip is responsible for contacting the instructor within a week after returning to make mutually satisfactory arrangements for a make-up. The instructor is under no obligation to provide a make-up unless the student notifies the instructor of the absence prior to departure. The student also is responsible for making up assignments and for knowing the material covered.

Final Examination Schedules

An end-of-course evaluation of student work is required in every credit course. End-of-course evaluation may take the form of final exams, reports, projects, performances, portfolios, research papers, conferences, etc.

Many end-of-course evaluations are written final exams. In order to reduce conflicts and final evaluation overloads for both students and faculty, a final examination schedule is developed by the Registrar for the entire university. All final exams are to be administered at their designated times and places during final exam week. Change in time of an examination for an entire class for any reason must be approved by the head of the department, by the dean of the college, the vice chancellor for academic affairs, and the chancellor.

No student is required to take more than two final exams on any one day. Any student who has three final exams scheduled on one day has the option of taking all three or submitting to the professors a written request for rescheduling. However, a request to have an examination rescheduled must be made in writing at least five days before the examination is scheduled.

To reschedule, the following steps should be taken:

1. The student should request in writing a change in date from the instructors of the courses that present the conflict.

2. If the conflict is not resolved, the student should work with his/her academic advisor to have one of the exams rescheduled.

3. If the conflict still cannot be resolved, the student should work with the Office for Academic Affairs to have one of the exams rescheduled.

Other end-of-course evaluations, whatever form they take, must also be completed, administered, or submitted during final exam week.

Graduation and Certification

Application for Graduation. To be certified as a candidate for graduation the student must obtain an application form from the dean and return it to the dean. The dean will send it and an official transcript to the student’s department head. In consultation with the student’s adviser, the department head will determine all requirements remaining to be completed. At the appropriate time, the application will be brought up to date, signed by the department head, and returned to the dean who will certify it and forward it to the registrar.
Undergraduate students should begin the procedure immediately after 90 hours have been earned. Specific deadlines for filing degree applications are given in the Academic Calendar.

**Certification and Licensure.** Completion of a bachelor's degree in teacher education, nursing, or health sciences qualifies a student to seek the appropriate certification or licensure. Information about the policies and procedures is available from the dean of the appropriate school. Procedures for teacher certification are found in the College of Education and Allied Profession section.

**Graduation Attendance.** Attendance at graduation is required of candidates for graduation. A diploma may be granted in absentia only with approval of the vice-chancellor for academic affairs or his designee.
DEGREE PROGRAMS AND REQUIREMENTS

The bachelor's degree programs require the completion of a minimum of 120 semester hours to a maximum of 128 semester hours, including: (1) a General Education component; (2) a major as prescribed by each of the departments; (3) elective courses; and, (4) in cases where majors are less than 46 hours, a minor, second major, concentration, or other approved program as specified by the appropriate school and department. Unless specifically provided for in the catalog description, credit for any course may be applied only once toward the required hours for graduation.

**Majors.** A major consists of a group of prescribed and elective courses (30-64 hours) providing breadth and depth in an academic discipline, in two or more closely related disciplines, or in an interdisciplinary field of study. The requirements for a major in one discipline may include supporting courses selected from other disciplines.

In degree programs that include a major of 30 to 40 hours, a minor, second major, or other approved program also is required.

In degree programs that do not require a minor or second major, 46-64 hours are required in a major, including any concentrations, emphases, or specialization options that may be a part of the major.

**Concentrations.** A concentration is a student option within a major that consists of a group of prescribed courses designed to provide preparation in a specific professional specialty within the major discipline. Ordinarily, degree programs in which the major includes a concentration do not require a minor or second major. Concentrations are required in some majors.

**Minors.** A minor consists of a group of prescribed and elective courses in an academic discipline, two or more closely related disciplines, an interdisciplinary field of study, or a specially designed individual program. It differs from a major principally in requiring fewer courses (16-24 semester hours) and providing less depth.

A student may not major and minor in the same field.

**Disciplinary Focus Area.** A disciplinary focus area is a 24-hour course of study in an academic discipline required of education students enrolled in a B.S.Ed. program in communication disorders, business, elementary, middle grades, physical education, or special education (general). The focus areas available are the following: Anthropology, Art, Biology, Economics, English, French, Geography, Geology, German, History, Mathematics, Philosophy, Political Science, Psychology, Sociology, Spanish, Speech, and Theatre.

**Second Majors.** A second major, often called a double major, is completed at the student's option by taking the course requirements specified in the major component of the applicable degree program. The hours earned in completing a second major apply to the minimum 128 hours required for any bachelor's degree and do not lead to the award of a second degree. Students interested in earning a second bachelor's degree must meet the additional requirements stated below for second degrees.

**Program Requirements.** The program requirement component of a degree program consists of courses which are outside the major discipline but which support the major by providing skills and knowledge directly related to the major. There are no minimum or maximum limits on the program requirements component of a degree program except that, without a specific exemption, 75 hours are the maximum that may be required in aggregate in all components of a degree program exclusive of general education and general or free electives.

**General Electives.** Unless a program has been specifically exempted, each degree plan includes a minimum of 12 hours of general (free) electives. These electives are exclusive of (1) hours earned in meeting the requirements of the other components of a degree program, (2) any remedial or developmental work a student may take, and (3) elective hours that may become available to a student through application of the general education waiver policy.
Waivers and Substitutions. Waivers and substitutions of courses, other degree requirements, and academic regulations may be made only with adequate cause. Exemption from, or substitutions in, requirements established by an academic department must be approved by the department head. General Education requirements may be waived or altered only with the approval of the director of general education. Collegewide requirements may be waived or altered only with the approval of the dean of the college. Waivers of, and substitutions in, university-wide regulations and requirements must be approved by the Office for Academic Affairs. All requests must be submitted to the registrar on the Waiver and Substitutions Form.

Academic Advisers. The major selected by each student will determine the assignment of a faculty member for academic advising. Students who do not know the names of their advisers should contact the head of the major department or the CAP Center. To be assigned an adviser or arrange for a change of adviser, a declaration or change of major/adviser form must be completed. The major selected by the student also determines the major field-of-study name to be entered on all appropriate forms. This name will appear on all grade reports received by the student and adviser.

Students Undecided About a Major. Students are not required to declare a major at the time they enter the university. By exercising some care it is possible, without encountering any difficulty, to earn credit toward a degree for several semesters before selecting a major. However, students are encouraged to select a specific major no later than the semester after they have achieved sophomore standing. Through the CAP Center, the university provides a specific program of academic advisement to assist the undecided student in course selections and career decisions. When an undeclared student does select a major, the declaration or change of major/adviser procedures should be observed.

Declaration or Change of Major/Adviser Procedure. A student who decides to declare or change a major must complete the declaration process in order to be assigned a new adviser in the appropriate department and to change the official records of the university. The student secures the declaration form from the present adviser or department head and completes the procedure by following the instructions on the form. The new major field-of-study name should appear on the next grade report/transcript that is issued after the completed form has been submitted to the registrar.

Curricular Checksheets. Departments maintain a supply of curricular checksheets on each of their degree programs. Students should secure copies of the sheets for their programs to use as a supplementary aid in complying with catalog requirements. However, in the event of a conflict between requirements as listed on a checksheet and as stated in the catalog, catalog requirements shall prevail.

Second Bachelor's Degree. Students already graduated from accredited four-year institutions who are admitted to work toward another bachelor's degree must meet the university's regular graduation requirements. A minimum of 30 additional semester hours with a 2.0 GPA must be earned by regular enrollment at the university. The student must meet the requirements in general education and in the major as specified by the department head and dean. A student may obtain from the university only one of each of the six bachelor's degrees offered by the university; i.e., only one Bachelor of Arts degree, one Bachelor of Fine Arts degree, one Bachelor of Science degree, one Bachelor of Science in Business Administration degree, one Bachelor of Science in Education degree, and one Bachelor of Science in Nursing degree.

Students enrolled at the university who wish to work toward two bachelor's degrees simultaneously may do so, provided they secure the prior approval of the departments and schools through which the degree programs are offered. Approval must be secured not later than the end of the junior year. Students must meet the university’s regular graduation requirements and complete at least 158 semester hours with a 2.0 GPA, including a minimum of 128 hours as specified for one degree and a minimum of 30 additional hours for the other (or second) degree through regular enrollment at the university. The 30 additional hours must be selected so as to meet the requirements in general education, the program requirements component of the degree plan, and requirements in the major as specified by the department head and dean for the second degree.
GENERAL UNIVERSITY DEGREE REQUIREMENTS*

To be awarded a bachelor's degree, the student must meet the following general requirements:

1. Completion of a minimum of 120 semester hours to a maximum of 128 semester hours under requirements outlined for one of the degree programs.
2. A minimum GPA of 2.00 on all work attempted at Western Carolina University and on all courses in the major.
3. A minimum of 25% of semester hours applied toward a bachelor's degree must be earned through regular enrollment in Western Carolina University junior-senior level courses, including a minimum of 12 hours in junior-senior courses in the major field.
4. Fifty percent or more of the credits in the major presented for graduation on the junior-senior level unless the degree program being completed by the student is specifically exempted from the requirement.
5. Compliance with the English Proficiency Policy.

General Education Requirements

Western Carolina University is devoted to the concepts of liberal education. All bachelor's degree programs include studies in general education designed to provide each student with the opportunity to develop a high degree of skill in the arts and mechanics of reasoning, critical thinking, and effective oral and written expression; an appreciation and understanding of our rich cultural heritage and the complexities of human relationships; traits of mind and spirit which reflect sound insights into self and the physical and social world in which we live; reference and resource skills; and a system of values essential for intelligent and discerning judgments and decisions.

It is believed that general education not only contributes to these basic objectives, but serves to integrate the total undergraduate experience and to promote optimum student achievement in chosen areas of interest. The framework within which the requirements of general education are satisfied accommodates extensive individuality among students and allows for diverse and distinctive programs of study.

Credit earned by examination and advanced placement in appropriate courses may be applied toward fulfillment of the requirements. Evaluation of the applicability of transferred courses toward general education requirements is the responsibility of the Office of Admissions in consultation with the appropriate department head and director of general education based on university guidelines.

The student has a choice of several approved courses to satisfy the requirements of each of the general education categories. Degree programs cannot specify a particular course within the general education program. In the cases where a general education course is specified as a requirement for a degree program, then that general education requirement must be met by another of the approved courses in the general education category. A student cannot satisfy both a general education requirement and a degree program requirement by taking a single course. In a few cases, there is a provision for the waiver of a general education requirement based upon placement or passing another course. In these cases, the hours waived become free electives, or in the case of certain approved majors, program and/or major requirements.

The general education component required in all bachelor's degree programs includes a total of 41 semester hours. The distribution requirements and the courses that are approved for each category are listed below.

Foundations Areas, 16 hours
1. Written Communication, 6 hours
   ENGL 101, 102 Composition I, II, 3 hours per course
2. Mathematics, 3 hours
   MATH 101 Mathematical Concepts, 3 hours
   (This requirement is waived if a student passes a higher-level math course. Hours waived become free electives.)

*See Graduate Catalog Issue for graduate degree requirements.
3. **Oral Communication, 3 hours** (formerly Thinking, Reasoning, and Expressing)
   CMHC 201, Introduction to Speech Communication, 3 hours, PREQ: ENGL 101
   BA 204 Oral Communication, 3 hours, PREQ: Engl 101.

4. **Computer Literacy, 1 hour**
   CS 101 Computer Concepts and Issues, 1 hour
   (This requirement must be met by the end of the sophomore year unless the student
   transferred to the university as a junior or senior. The requirement is waived if the
   student passes CS 130, CS 150, or CIS 251 by the end of the sophomore
   year. The requirement may be waived for a junior or senior transfer student who passes
   BIOL 232, BIOL 333, CHEM 454, CI 352, ENGL 401, GEOG 326, CMCR 301,
   CMPM 303, PSC 348, PSC 349, SOC 385, SOC 386, or OA 340. Hours waived
   become free electives. No credit for CS 101 is awarded to students who enroll in the
   course after the computer literacy requirement has been met.)

5. **Leisure and Fitness, 3 hours**
   The courses taken must include two hours selected from Health 120 or PE courses
   numbered 102-231 except for PE 213.
   ART 120 Beginning Drawing and Sketching, 1 hour
   ART 124 Beginning Ceramics, 1 hour
   ART 125 Introduction to Calligraphy, 1 hour
   BIOL 108 Recreational Botany, 1 hour
   HEAL 120 Personal and Community Health, 2 hours
   MUS 110 Introduction to Instrumental Ensembles, 1 hour
   MUS 111 Introduction to Vocal Ensemble, 1 hour
   MUS 112 Introduction to Piano, 1 hour
   MUS 113 Introduction to Singing, 1 hour
   MUS 117 Introduction to Guitar, 1 hour
   PE 102 Beginning and Advanced Beginning Swimming, 1 hour*
   PE 103 Intermediate and Advanced Swimming and Aquatic Sports, 1 hour*
   PE 104 Lifesaving, 1 hour*
   PE 105 WSI Training Course, 1 hour*
   PE 106 Scuba Diving, 1 hour*
   PE 107 Synchronized Swimming, 1 hour*
   PE 108 Canoeing, 1 hour*
   PE 113 Hiking, 1 hour
   PE 114 Jogging, 1 hour
   PE 115 Weight Training, 1 hour
   PE 116 Slimnastics, 1 hour
   PE 118 Aerobic Dance, 1 hour
   PE 122 Beginning Tennis, 1 hour*
   PE 123 Beginning Golf, 1 hour*
   PE 124 Handball, 1 hour
   PE 125 Racquetball, 1 hour
   PE 126 Bowling, 1 hour
   PE 127 Badminton, 1 hour
   PE 129 Archery, 1 hour
   PE 130 Lifeguard Training, 1 hour
   PE 202 Casting, 1 hour
   PE 203 Gun Handling, 1 hour
   PE 204 Snow Skiing, 1 hour
   PE 205 Modern Dance and Choreography, 1 hour
   PE 206 Social, Line, and Folk Dance, 1 hour
   PE 207 Fencing, 1 hour
   PE 209 Advanced Tennis, 1 hour*
   PE 210 Advanced Golf, 1 hour*
   PE 214 Tumbling and Rebound Tumbling, 1 hour
   PE 215 Gymnastic Apparatus, 1 hour
   PE 223 Soccer and Basketball, 1 hour
   PE 225 Volleyball and Softball, 1 hour
   PE 228 Adaptive Physical Education, 1 hour

*Placement in water sports, and in beginning and advanced golf and tennis, is determined by prerequisites, if any, and by the skills
demonstrated at the first class meeting. A student whose skills are inappropriate is advised into a course at the appropriate level.
PE 231 Aquarobics, 1 hour
CMTA 102 Theatre Production: Stagecraft, 1 hour
CMTA 103 Theatre Production: Costume, 1 hour

Perspectives Areas, 25 hours

The courses selected must include one course in literature selected from any literature course offered in any of the Perspectives categories (ENGL 201, 203, 204; GER 204; ASI 108). ENGL 102 is prerequisite to all courses in English above the freshman level.

1. Social Sciences and Contemporary Institutions, 6 hours
   a. Human Behavior, 3 hours
      GEOG 102 (301)** World Regional Geography, 3 hours
      PSY 101 (301)** Perspectives on Human Behavior, 3 hours
      SOC 103 (300)** Human Society, 3 hours
   b. Contemporary Institutions, 3 hours
      ECON 104 (312)** Contemporary Economic Institutions, 3 hours
      HIST 106 (306)** Modern American Institutions, 3 hours
      LAW 205 (325)** Legal Issues and Institutions, 3 hours
      PSC 106 (300)** American Politics and Issues, 3 hours

2. Physical and Biological Sciences, 7 hours
   AST 101 Descriptive Astronomy, 3-4 hours
   BIOL 101 Biology in the Contemporary World, 3-4 hours
   CHEM 101 Chemistry in Society, 3-4 hours
   GEOL 110 Environmental Geology, 3 hours
   PHYS 105 Contemporary Physics, 4 hours

   Courses in two different sciences are required. The courses selected must include one course with a lab. PHYS 105 may be taken only as a four-hour course including both lecture and lab. All of the other courses may be taken with the lab for four hours credit or without the lab for three hours credit. However, a student must be enrolled in the lecture to take the lab for the course.

   (Part or all of the science requirement is waived if a student enrolls in and passes one or more higher level science courses. Courses in two different sciences are required to waive all of the requirement. Hours waived become free electives.)

3. The Humanistic Experience, 6 hours
   a. Humanities, 3 hours
      ASI 108 (308)** The Ancient and Medieval Experience, 3 hours
      CHER 101, Cherokee Language and Culture, 3 hours
      ENGL 203 Major American Writers, 3 hours
      FREN 101 French Language and Culture or FREN 110*, 3 hours
      GER 101 German Language and Culture or GER 110*, 3 hours
      SPAN 101 Spanish Language and Culture or SPAN 110*, 3 hours
      PHIL 101 Western Philosophical Traditions, 3 hours
   b. Fine or Performing Arts, 3 hours
      ART 104 (308)** Introduction to Visual Arts, 3 hours
      MUS 101 (300)** Music Appreciation, 3 hours
      CMTA 104 (304)** The Theatre Experience, 3 hours

4. Comparative Cultures, 3 hours
   ANTH 120 (320)** Comparative Cultural Systems, 3 hours
   ART 102 (302)** Non-Western Art, 3 hours
   ECON 103 (311)** Economics of Comparative Cultures, 3 hours
   ENGL 204 Cultures in Contact and Collision, 3 hours
   FREN 105 The French-Speaking World, 3 hours
   GEOG 103 (303)** Cultural Geography, 3 hours
   HIST 107 (307)** World Cultures in Historical Perspective, 3 hours
   MUS 303 The World of Music, 3 hours, PREQ: P3b
   PSC 107 (301)** Comparative Political Cultures, 3 hours
   REL 105 Eastern Religious Tradition, 3 hours
   SPAN 105 The Spanish-Speaking World, 3 hours

*Only three of the six credit hours earned in FREN, GER, SPAN 110 apply to general education. The remainder apply to program, major, or elective hours outside of general education.

** Courses listed in parenthesis are course number listings for transfer students only from Haywood Community College.
5. The Human Past, 3 hours
ANTH 110 Origins of Civilization, 3 hours
ART 103 Social History of Art, 3 hours
ENGL 201 Literary Landmarks in Western Culture, 3 hours
GER 204 A Literary Perspective on German Civilization, 3 hours
HIST 105 (305)** History of Modern Western Civilization, 3 hours
MUS 102 Music in American Culture, 3 hours
PSC 108 Global Issues in Politics, 3 hours
REL 106 Western Religious Tradition, 3 hours

Programs of Study

The university offers programs leading to bachelor's, master's, education-specialist, and doctoral degrees as well as preprofessional, interinstitutional, and certification curricula. All of the bachelor's-level programs, including the course requirements for the various majors, minors, and concentrations offered by the colleges and departments, are described in the sections that follow. Programs of interest to graduate students are presented in the Graduate Catalog Issue of The Record.

Degree Programs

The following table lists alphabetically the university's principal academic programs and indicates the college offering the programs. The colleges are: Applied Sciences (AS); Arts and Sciences (A&S); Business (BUS); and Education and Allied Professions (E&AP).

<table>
<thead>
<tr>
<th>Undergraduate Major</th>
<th>College</th>
<th>Degree</th>
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<tbody>
<tr>
<td>Accounting</td>
<td>BUS</td>
<td>B.S.B.A.</td>
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<tr>
<td>Anthropology</td>
<td>A&amp;S</td>
<td>B.A.</td>
</tr>
<tr>
<td>Art</td>
<td>A&amp;S</td>
<td>B.S.</td>
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<tr>
<td>Biology</td>
<td>E&amp;AP</td>
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</tr>
<tr>
<td>Birth-Kindergarten</td>
<td>AS</td>
<td>BS</td>
</tr>
<tr>
<td>Business Administration and Law</td>
<td>BUS</td>
<td>B.S.B.A.</td>
</tr>
<tr>
<td>Business</td>
<td>E&amp;AP</td>
<td>B.S.Ed.</td>
</tr>
<tr>
<td>Chemistry</td>
<td>A&amp;S</td>
<td>B.S.</td>
</tr>
<tr>
<td>Child Development and Family Relations</td>
<td>AS</td>
<td>B.S.</td>
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<tr>
<td>Clinical Laboratory Sciences</td>
<td>AS</td>
<td>B.S.</td>
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<tr>
<td>Clothing, Textiles, and Merchandising</td>
<td>AS</td>
<td>B.S.</td>
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<tr>
<td>Communication Disorders</td>
<td>E&amp;AP</td>
<td>B.S.Ed.</td>
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<tr>
<td>Communication</td>
<td>A&amp;S</td>
<td>B.S.</td>
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<tr>
<td>Computer Information Systems</td>
<td>BUS</td>
<td>B.S.Ed.</td>
</tr>
<tr>
<td>Computer Science</td>
<td>A&amp;S</td>
<td>B.S.</td>
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<tr>
<td>Consumer Sciences</td>
<td>AS</td>
<td>B.S.</td>
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<tr>
<td>Criminal Justice</td>
<td>AS</td>
<td>B.S.</td>
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<tr>
<td>Economics</td>
<td>BUS</td>
<td>B.S.B.A.</td>
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<tr>
<td>Electronics Engineering Technology</td>
<td>AS</td>
<td>B.S.</td>
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<tr>
<td>Elementary Education</td>
<td>E&amp;AP</td>
<td>B.S.Ed.</td>
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<tr>
<td>Emergency Medical Care</td>
<td>AS</td>
<td>B.S.</td>
</tr>
<tr>
<td>English</td>
<td>A&amp;S</td>
<td>B.A.</td>
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<tr>
<td>Environmental Health</td>
<td>E&amp;AP</td>
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<tr>
<td>Family and Consumer Sciences</td>
<td>E&amp;AP</td>
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<tr>
<td>Finance</td>
<td>BUS</td>
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<tr>
<td>French</td>
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</tr>
<tr>
<td>General Special Education</td>
<td>E&amp;AP</td>
<td>B.S.Ed.</td>
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</tbody>
</table>
In addition to the curricula offered by a department or jointly by two departments, the university provides a number of special-purpose programs in which students may participate either as a part of the regular degree programs of their choice or as alternatives to them. These opportunities include the following programs:

University Honors College
Students with a 3.5 GPA or higher are invited to join the Honors College at Western Carolina University. First-year students are admitted who have achieved one of the following: a 3.5
GPA in high school, top 10% of high school class, 1150 score on the SAT, or 27 score on the ACT. The College is designed to enhance the academic university experience for high-achieving students. The College consists of honors courses at the general education level, with seminars, courses, and independent study within the major. Students in the College are invited to live in Reynolds Hall, a residence with special facilities and programs for Honors students. Those students who complete at least 30 hours of Honors College credit will receive special recognition in the degree and on the transcript as an Honors College graduate. For more information, please contact the Dean of the Honors College.

Special Studies Programs

The Bachelor of Arts and Bachelor of Science degrees in Special Studies are university-wide degrees awarded by Western Carolina University. Programs leading to these degrees are designed for students by sponsoring faculty members following general university guidelines for program development. Each program includes a general education component consistent with university guidelines and a unified program of study in a special area that has been appropriately reviewed and approved at the departmental, college, and university levels. Responsibility for the administration of, and academic advisement in, the program is assigned to the several departments and colleges, depending upon the nature of each program.

Study Abroad

As a part of its commitment to international education, the university offers a wide range of Study Abroad programs. Some programs are WCU-based while others are offered through other universities and agencies. Travel and study programs are available at any time during the year and range from a few weeks to a year in duration. Study Abroad programs are open around the world and available in English or the language of the country. For more information, contact the Office for Student Development.

Preprofessional Programs

Students who attend the university to prepare for admission into a professional school are provided with a variety of options for the programs they may pursue. If the professional school of the student’s choice is one that does not require a bachelor’s degree for admission and the student plans to transfer before earning a degree, academic advisers in the CAP Center and in the appropriate department will assist the student to develop a program plan suited to the field and to the admission requirements of the professional school.

Many professional schools require a bachelor’s degree for admission, and the student who plans to earn a degree before entering a professional school will choose to complete one of the regular degree programs offered by the university. Electives in the chosen curriculum should be selected after consulting the catalog of the professional school to be attended later. Each student is assigned an academic adviser in the major field and also may secure the assignment of a preprofessional adviser.

The general preprofessional preparation needed for some of the programs about which students inquire most often is described below. Students interested in programs in professional fields other than those described should direct their inquiries to the advisement coordinator in the CAP Center or to the head of the appropriate department.

Pre-Engineering. A two-year pre-engineering program is offered in the Department of Chemistry and Physics. It emphasizes basic courses in chemistry, mathematics, physics, and the humanities that are common to all engineering curricula. The program may be modified depending upon the field of engineering chosen and the school to which the student plans to transfer. It is not designed to prepare students in architecture, since such programs are typically offered through schools of design rather than engineering schools.

Close contacts are maintained with engineering schools in North Carolina and neighboring states, and the program is planned to provide the maximum transfer of credit. Through cooperative transfer agreements with Clemson University and North Carolina State Univer-
sity, students may transfer two years of appropriate credits toward an engineering degree at either institution. WCU's pre-engineering courses also are approved for transfer to the engineering schools at UNC-Charlotte and NCA&T. Students are advised by the coordinator of pre-engineering advisement, Mr. Ted Moody.

**Pre-Law.** Law schools typically require a bachelor's degree for admission, but no one curriculum or major is recommended or prescribed for admission. Pre-law students are urged to consult the catalog of the law school the student plans to attend for specific requirements. Students are advised by the coordinator of pre-law advisement, Dr. Ken Wink.

Freshmen, transfer students, and students who have not declared a major will be assigned a pre-law advisor by the CAP Center. After selecting a major, students will be assigned to an appropriate department and pre-law advisor. The Law School Admission Test is administered twice each year by the Testing Center; students should take the test late in the junior year or early in the senior year.

**Pre-Medical, Pre-Dental, Pre-Optometry, and Pre-Veterinary Programs.** Although the professional schools of medicine, dentistry, optometry, and veterinary medicine have traditionally admitted more students who have majored in chemistry or biology, they will accept students who have majored in any academic discipline provided that basic requirements in English, mathematics, physics, chemistry, biology, and specified electives are met. Students who have earned a bachelor's degree normally are given preference in admission although some students may be allowed to enter prior to their senior year.

By agreement between Western Carolina University and Bowman Gray School of Medicine, students may earn a Master of Science degree in biology or chemistry and receive credit for selected courses toward a doctorate in biochemistry at Bowman Gray.

**Pre-Pharmacy.** Two years (64 semester hours) of preparatory work are normally required for admission to a three-year pharmacy program.

Advisers are available in the CAP Center and the departments of biology, chemistry, and physics. Pre-pharmacy students should plan to enroll in English, chemistry, biology, physics, mathematics, and the appropriate elective courses required for admission to the chosen professional school. Most schools require the Pharmacy College Admissions Test (PCAT) to be taken during the second year of preprofessional study.

**Cooperative Transfer Agreements with Community Colleges**

Western Carolina University continuously develops cooperative transfer agreements with the state's two-year colleges and technical institutes. More than 90 agreements are currently in force. An associate degree graduate of a program covered by an agreement may complete a bachelor's degree in the designated program under the terms specified. The agreements allow students, at the time they enter a two-year institution, to know the requirements for the associate degree and for completing a bachelor's degree at the university in two additional years. Complete information is available from the coordinator for transfer programs.

**Cooperative Program in Agriculture and Life Sciences**

Students who complete a two-year prescribed course of study at Western Carolina University have the opportunity to transfer to North Carolina State University in one of the following bachelor's degree programs in the School of Agriculture and Life Sciences:

- Agricultural economics, agricultural business management, agronomy, animal science, biological and agricultural engineering, biochemistry, biological sciences, botany, conservation, fisheries and wildlife sciences, food science, horticultural science, medical technology, pest management, poultry science, applied sociology, zoology, and selected preprofessional programs. For further information, contact the program coordinator in the Natural Resources Management Program.

**Cooperative Program in Forestry**

By agreement between Western Carolina University and the School of Forest Resources at North Carolina State University, a student interested in the field of forest resources may take
the first two years of the program at Western Carolina University and the remainder at North Carolina State University.

During the freshman year students should select one of four specialty areas of the program: (1) Forestry; (2) Wood Science and Technology; (3) Pulp and Paper Science and Technology; (4) Recreation Resources Administration. The courses to be pursued for each area are available from the program coordinator in the Natural Resources Management Program.

Students with acceptable scholastic records in the first two years of the program may earn the professional degree in two additional years. Before transferring, students should check their credits with the requirements of North Carolina State University to determine the advisability of completing additional courses in summer school at one of the two institutions. A GPA of 2.5 is required for transfer.

Experiential Programs

Western Carolina University endorses the concept of education as a multidimensional process of learning that incorporates study and practice. To that end, its curricula are designed to provide for acquisition of knowledge and understanding of theory combined with opportunities for experience in practical applications in real settings. Many of the degree programs include required work in professional situations specific to the positions and career areas for which the students are preparing. At the student’s option, a variety of other work opportunities deriving from and related to academic study are available. To further its commitment to the preparation of well-qualified graduates, the university provides various types of support to departmentally developed experiential activities. It also operates university-wide programs that make work opportunities directly related to their fields of study available to all students.

Western Carolina University has the following guidelines for enrolling students in external instruction courses/programs. External instruction programs are defined as instruction received at a site(s) to which the student is sent by the enrolling institution to participate in instructional activities. Encompassed in the scope of external instruction are programs referred to as cooperative education, practical training, independent study, and open-circuit televised instruction.

1. All courses are bona fide: approved by all required college, university, state, regional and national regulatory agencies. Courses are also approved to meet all certification and licensing requirements.

2. All courses are an integral part of the student’s program; credit will apply toward graduation and/or will be required for a particular degree program.

3. All courses are appropriately rigorous with credit assigned proportionate to the amount of instructor involvement and control (course credit is determined by university and state requirements).

4. The university/college has an agreement on file with specific work sites assuring that the experiences will provide opportunities for application of the knowledge, skills, and competencies gained from on-campus academic programs.

5. All courses have regularly-employed faculty members responsible for all students participating in external instruction courses.

Cooperative Education Program. Cooperative Education is a program in which students combine academic study with career-related work experience while pursuing a degree. Designed to be an integral part of the educational experience, the program offers experiential learning in both full-time and part-time positions in virtually all majors. Participants are primarily undergraduates, but some graduate programs offer Co-op to their students. Information about eligibility for the program, work opportunities, and requirements for credit is available from the Career Services Office.
Internships and Practica. A broad range of full-time and part-time learning opportunities are provided through internships, practica, field courses, and clinical affiliations for periods of one or more terms. The courses allow students to gain experience in the actual practice of a profession and to develop mastery of the tasks, skills, and theory applications in career fields pertinent to their majors. The experiences gained are well-integrated into the curricula and are frequently included in the requirements for a degree.
The mission of the College of Applied Sciences is to offer quality education for a variety of professional careers. In fulfilling this role, the college provides undergraduate and graduate educational programs in Cullowhee and Asheville.

The faculty of the college engage in instruction, research, and service. The primary activity of the faculty of the college is teaching. Quality undergraduate and graduate education is provided for a diverse student population through student-faculty involvement which promotes creativity and critical thinking. Complementary faculty activities include providing individualized student advisement, service, continuing education opportunities, maintaining currency in areas of expertise, active involvement in professional organizations, and scholarly activities including research, creative activities, presentations, and publications.

The college is responsible to the Office of Academic Affairs and is organized into six academic departments (Criminal Justice, Health Sciences, Human Environmental Sciences, Industrial and Engineering Technology, Nursing, and Physical Therapy).

Special Expenses. Due to the nature of the clinical and laboratory experiences required in some of the college's programs, students will encounter special expenses beyond those listed in the fees section of this catalog. Liability insurance, uniforms, transportation to clinical sites, and special texts and class materials are examples of what might be expected. Each program has different requirements and students should discuss costs with the program coordinator.

Admission to Health Sciences and Nursing Programs. Declaration of a major in the health sciences or nursing departments does not guarantee admission to the junior-senior sequence in the major. Students are not officially in the professional segment of a program until they have received written notification of their program admission. Applications for program admission are normally available from November 1 through February 15 of each year for potential admission in the fall of the next year.

Clinical Laboratory Sciences. Students may apply for admission to the program when they have completed, or are concurrently completing, all general education and program requirements. A minimum GPA of 2.0 is required. Applications must be received in the program office by February 15. Interviews are required. Admissions decisions are announced in writing to applicants by March 15. An accelerated curriculum available for associate degree medical laboratory technicians normally allows completion of degree requirements in two years.

Emergency Medical Care. Admission to the professional sequence requires the completion of a minimum of 60 semester hours including all general education and preprofessional courses. Applicants must hold or be eligible for North Carolina EMT certification and forward an application to the program office by February 15 of each year for entry the following August. Application to the program does not assure acceptance. Articulating and other transfer students holding current paramedic certification should contact the program coordinator about degree requirements and program admission. Students admitted to the professional sequence must earn a grade of C (2.0) or better in each EMC course in the major and an overall 2.0 GPA to remain in the program.

Environmental Health. Students may apply for admission to the professional sequence upon completion of all general education, program, and preprofessional course requirements with a minimum cumulative GPA of 2.0. Applicants are evaluated on their overall educational records, including achievement in science and non-science courses as well as communication skills. Transfer students will be admitted with provisional status for one semester. Students admitted to the professional sequence will be required to maintain a C in each course in the major and in the emphasis area.
Health Information Management. Students must have completed 59-60 semester hours of college work before admission, including all general education course requirements as well as BIOL 291/292. To be eligible to apply, a GPA of 2.0 is required. However, application does not assure acceptance. Students must earn a grade of C (2.0) or above in each professional course in the major to remain in the program.

Health Services Management and Supervision. Application is limited to transfer students who hold an allied health credential and an associate degree. Students in clinical laboratory sciences and health information management are not eligible for admission except as candidates for a second bachelor’s degree. A grade of C (2.0) or better in each course in the major and in the discipline area is required of admitted students to remain in the major.

Nursing. Admission to the upper-division nursing major is competitive, and priority is given to the best qualified students. To be considered for admission, all students must have completed, or be in the process of completing, 60 semester hours of college work, including all program requirements. Admission is based on cumulative GPA on all previous college work and test scores. Further details are in the departmental application packet. Applications from non-RNs should be received with all supporting materials by February 15. Notification of the admissions decision will be made by mid-April. Registered nurses are invited to apply at any time of the year. Students must earn a grade of C (2.00) or better in each required course in the major in order to remain in the program.

Nutrition and Dietetics. Students may declare a major in nutrition and dietetics when they have completed, or are concurrently completing, all general education and program requirements. The undergraduate didactic program in nutrition and dietetics (DPD) is approved by the American Dietetic Association (ADA). Upon successful completion of the program, students will receive an ADA verification statement. This verification statement qualifies graduates to pursue further training in ADA-accredited dietetic internships of ADA-approved pre-professional practice programs, after which they will be eligible to take the ADA registration examination to become Registered Dietitians. Western Carolina University offers this training within the Option for Preprofessional Practice in Dietetics, which is a part of the Master of Health Sciences Degree Program. Admission to the option and to the program is competitive.

DEPARTMENT OF CRIMINAL JUSTICE
F. Frederick Hawley, Head
E. Davis, W. Hyatt, J. McKinney, N. Okereafoezeke

Major in Criminal Justice, B.S. Degree

General education, 41 hours

Program requirements, 6 hours: PSY 250 and ENGL 401.

The major requires 51 hours as follows:
CJ 250 The Criminal Justice System, 3 hours
CJ 320 The Law Enforcement Process, 3 hours
CJ 330 Courts and Criminal Procedure, 3 hours
CJ 340 The Corrections Process, 3 hours
CJ 350 Criminal Justice Theory, 3 hours
CJ 352 Planning and Methodology, 3 hours
CJ 482 Senior Directed Research, 3 hours
PSC 302 or 303 or 304 or 307, 3 hours
PSY 310 or 331 or 363 or 430 or 470, 3 hours
SOC 350 or 354 Deviant Social Behavior or Social Problems, 3 hours
Criminal Justice upper division electives, 21 hours, with no more than 3 hours from CJ 389/483 and no more than 6 hours from CJ 480

General electives (30 hours) are required to complete the program. Students are urged to plan, in consultation with their faculty adviser, an elective program that will lead to competency in a secondary area.
Minor in Criminal Justice

The minor requires 18 hours, including CJ 250 and 15 hours of electives approved by the department head.

DEPARTMENT OF HEALTH SCIENCES

Barbara Lovin, Head


Major in Clinical Laboratory Sciences, B.S. Degree

General education, 41 hours

Program requirements, 31 hours: CHEM 140, 232, 241, 242, 272, 370; and BIOL 291, 292, 413, 414.

The major requires 55 hours as follows:

CLS 300 Instrumentation and Blood Collection, 1 hour
CLS 301 Analysis of Body Fluids, 2 hours
CLS 302 Clinical Microbiology, 4 hours
CLS 303 Basic Hematology, 3 hours
CLS 304 Immunology, 3 hours
CLS 305 Clinical Parasitology, 2 hours
CLS 306 Immunohematology, 4 hours
CLS 307 Medical Mycology, 2 hours
CLS 308 Advanced Hematology, 3 hours
CLS 309 Clinical Biochemistry, 3 hours
HSCC 310 Principles of Clinical Precepting, 1 hour
CLS 406 Laboratory Management, 2 hours
CLS 485, 486, 487, 488, 489 Clinical Practicums: Urinalysis, 2 hours; Hematology, 3-5 hours; Blood Banking and Serology, 3-5 hours; Microbiology, 3-5 hours; Clinical Chemistry, 3-5 hours (Articulating students will take these courses for 3 hours each.)
CHEM 361 Principles of Biochemistry, 3 hours
General electives, 1 hour

Major in Emergency Medical Care, B.S. Degree

General Education, 41 hours

Program requirements to be completed before the junior year, 20-21 hours: BIOL 291, 292; HSCC 240, 241; and CHEM 132, 133 or 140, 241.

The major requires 57 hours as follows:

EMC 340 Introduction to Clinical Medicine, 4 hours
EMC 350 Cardiology, 2 hours
EMC 351 Basic ECG Interpretation, 1 hour
EMC 360 Acute Fluid and Respiratory Disorders, 2 hours
EMC 361 Advanced Emergency Medical Techniques, 1 hour
EMC 370 Medical Emergencies, 3 hours
EMC 382 Clinical Practicum I, 1 hour
EMC 410 Trauma Management, 3 hours
EMC 420 Maternal and Child Emergency Care, 3 hours
EMC 430 Special Needs Patients, 2 hours
EMC 451 Advanced ECG Interpretation, 1 hour
EMC 483 Clinical Practicum II, 4 hours
EMC 484 Clinical Practicum III, 2 hours
EMC 485 MICU Practicum, 3 hours
EMC 496 Senior Seminar in Emergency Medical Care, 1 hour
HSCC 330 Legal and Legislative Aspects of Health Care, 3 hours
HSCC 370 Introduction to Pharmacology, 3 hours
PSY 460 Crisis Intervention, 1 hour

Concentration selected from:
Science, 17 hours: PHYS 130, 131, CHEM 242, 272, plus 4 hours from BIOL 300/400, CHEM 300/400, ENVH 470

Health Management, 17 hours: HSMS 310, 450, 470, MGT 300, plus 6 hours from ACCT 161, ECON 231, 235, EMC 440, HSMS 320, 440, 471, MGT 304, MGT 306, MKT 301

General electives (9 hours) including 8 hours at the 300/400 level for students electing the science concentration are required to complete the program.

Major in Environmental Health, B.S. Degree

General education, 41 hours

Program requirements, 17 hours: MATH 130; MATH 170 or PSY 251; MATH 145; PHYS 105 (in addition to courses taken to meet general education requirements); and BIOL 292.

The major requires 62 hours as follows:
Preprofessional courses, 15 hours: CHEM 132, 133, 330; BIOL 413, 414
ENVH 230 Introduction to Environmental Health Science, 3 hours
ENVH 310 Water Quality Control, 4 hours
ENVH 330 Food Protection and Sanitation, 4 hours
ENVH 375 Environmental Toxicology, 3 hours
ENVH 440 Air Quality Control, 4 hours
ENVH 457 Industrial Hygiene, 3 hours
ENVH 458 Environmental Regulation and Law, 3 hours
ENVH 460 Senior Seminar in Environmental Health, 1 hour
ENVH 470 Principles of Epidemiology, 3 hours
ENVH 475 Environmental Program Administration, 3 hours
ENVH 483 Environmental Health Internship, 3 hours
GEOG (GEOL) 305 Soils and Hydrology, 4 hours

Designed emphasis area (9 hours) in industrial safety, public health, water quality, chemistry, environmental protection or natural resource management.

General electives (8 hours) are required to complete the program. The courses selected in the designated emphasis area and in general electives must include, in combination, at least 8 hours at the junior-senior level.

Major in Health Information Management, B.S. Degree

General education, 41 hours

Program requirements, 18 hours: CHEM 132; MATH 170 or PSY 251; BIOL 291, 292; and CIS 251.

The major requires 56 hours as follows:
HIM 301 Introduction to Health Information Management, 3 hours
HIM 303 Planning and Organizing in Health Information Management, 2 hours
HIM 310 Fundamentals of Clinical Medicine for Health Information Management, 3 hours
HIM 321 Health Information Management Practice Lab, 1 hour
HIM 401 Regulation of Health Care Facilities, 3 hours
HIM 402 Controlling Resources in Health Information Management, 2 hours
HIM 403 Health Data Collection, 3 hours
HIM 404 Health Information Classification Systems I, 4 hours
HIM 405 Health Information Classification Systems II, 3 hours
HIM 406 Topics In Health Information Management, 4 hours
HIM 483 Clinical Practicum I, 1 hour
HIM 484 Clinical Practicum II, 2 hours
HIM 485 Clinical Practicum III, 1 hour
HIM 486 Clinical Practicum IV, 3 hours
HIM 495 Seminar in Health Information Management, 3 hours
HSCC 220 Medical Terminology, 3 hours
HSCC 260 Etiology of Infectious Diseases, 3 hours
HSCC 330 Legal and Legislative Aspects of Health Care, 3 hours
MGT 300 Introduction to Management, 3 hours
HSMS 320 Human Resource Management in Health Care Agencies, 3 hours
HSMS 330 Health Care Delivery Systems, 3 hours

Electives (13 hours), including at least 3 hours at the junior-senior level, are required to complete the program.

**Major in Health Services Management, B.S. Degree**

General education, 41 hours

Program requirements, 9 hours: CIS 251; OA304; and PSY 251 or ECON 235 or MATH 170.

The major requires 54 hours as follows:

HSCC 330 Legal and Legislative Aspects of Health Care, 3 hours
HSM 310 Systems and Trends in Health Care Delivery, 3 hours
HSM 320 Human Resources Management in Health Care Agencies, 3 hours
HSM 440 Quality Management in Health Care Agencies, 3 hours
HSM 450 Financial Management in Health Care, 3 hours
HSM 470 Research Methodology and Analysis in Health Sciences, 2 hours
HSM 471 Research Project, 1 hour
MGT 300 Introduction to Management, 3 hours
MGT 306 Behavioral Science in Organizations, 3 hours

Discipline area, 30 hours: Up to 30 hours of appropriate credit as determined by the College of Applied Sciences in the allied health specialty will be accepted for certified allied health personnel. If less than 30 hours are accepted, the difference may be made up through basic science courses or courses in specified areas of interest. If transfer credit does not include five hours at the upper division level, an additional five hours of 300-400 level general electives must be completed.

16 hours of general electives at the junior-senior level are required to complete the program.

**Major in Nutrition and Dietetics, B.S. Degree**

General education, 41 hours

Program requirements, 11 hours: CHEM 132, 133; and PSY 250.

The major requires 55 hours as follows:

ND 231 Food Science, 4 hours
ND 330 Human Nutritional Needs, 3 hours
ND 334 Nutritional Applications, 3 hours
ND 433 Research Methods in Nutrition, 3 hours
ND 434 Experimental Methods in Foods, 3 hours
ND 436 Advanced Human Nutrition, 4 hours
ND 437 Diet Therapy, 4 hours
ND 439 Introduction to Professional Practice, 3 hours
HSCC 310 Principles of Clinical Precepting, 1 hour
HM 333 Quantity Foods, 3 hours
HM 430 Food Systems Management, 3 hours
BIOL 292 Human Anatomy and Physiology, 4 hours
BIOL 313 or HSCC 260 Microbiology in Health and Nutrition or Etiology of Infectious Diseases, 3 hours
HSCC 330 Legal and Legislative Aspects of Health Care, 2 hours
HSMS 320 Human Resource Management in Health Care Agencies, 3 hours
HSMS 450 Financial Management in Health Care, 3 hours  
MATH 170 Applied Statistics or PSY 251 Research Methods I: Statistics, 3 hours  
MGT 300 Introduction to Management, 3 hours

General electives (13 hours), including at least 4-7 hours at the junior-senior level, are required to complete the program.

**Minor in Nutrition and Dietetics**

The minor requires 18-22 hours, including ND 231, 330 and 334, and 8 hours of approved electives.

**DEPARTMENT OF HUMAN ENVIRONMENTAL SCIENCES**

*Davia Allen, Head*

J. Baldwin, L. Cowan, J. Dowell, V. Duckett, S. Grunwell, J. Hall, J. King, C. McGaha, M. Yops, J. Zhao

**Major in Consumer Sciences, B.S. Degree**

General education, 41 hours

The major requires 63 hours, including 3 hours in core courses (CDFR 261), and the following:

- HE 311 Home Economics Curriculum and Materials, 3 hours
- HE 321 Family Finance, 3 hours
- HE 410 Consumer Strategies, 3 hours
- HE 483 Internship, 3 hours
- HE 484 Internship, 3 hours
- HE 485 Internship, 3 hours
- CDFR 364 Survey of Human Development, 3 hours
- ND 231 Food Science, 4 hours
- ND 330 Human Nutritional Needs, 3 hours
- ND 431 Food Preservation, 3 hours
- HM 333 Quantity Food, 3 hours
- CTM 140 Fashion Analysis, 3 hours
- CTM 242 Textiles, 3 hours
- CTM 243 Apparel Quality Analysis, 3 hours
- CTM 342 Apparel Production Processes, 3 hours
- IDSN 153 Introduction to Interior Design, 2 hours
- IDSN 256 Survey of Interior Materials, 3 hours
- CIS 251 Management Information Systems, 3 hours
- COUN 430 Individual and Group Counseling, 3 hours
- EDHE 431 Foundations of Adult Education, 3 hours

General electives (18 hours), including a minimum of 9 hours at the junior-senior level, are required to complete the program.

**The Birth-Kindergarten Program**

Admission and retention policies in the BK program is based on the standards and guidelines of the State of North Carolina and the National Council for Accreditation of Teacher Education (NCATE). Approved institutions must have established procedures for implementing decisions regarding admission to, and retention in, the program. The state and NCATE guidelines require continuous evaluation of students admitted to the program and mandate that those found unlikely to succeed as teachers should be withdrawn.
Admission to the Birth-Kindergarten Program

Students in this program will meet the competencies established by the State Department of Public Instruction for the BK license and professional studies. Entrance into the program will require a passing score on Part I of the PRAXIS; an overall GPA of 2.5; the completion of a total of 45 hours with at least 35 hours of the general education requirements met; a grade of C (2.0) or better in ENGL 101, 102 and ENGL 300 (if required); a personal interview and a satisfactory evaluation from the BK faculty. Students must meet all requirements for admission prior to earning 90 hours of credit. Applicants already holding a non-teacher education degree must meet these requirements, except they are not required to take PRAXIS I. They must have had a 2.5 at the time of graduation. The professional education sequence will include BK 260; SPED 200; CDFR 261, 360, 363; and BK, SPED, EDEL 491 and 496. Students must apply for admission to the program no later than the semester in which they will complete 12 hours of the courses in the professional sequence. For official admission to the BK program students must also be approved by the head of the department of the student’s major and by the Teacher Education Council. The applicant’s fitness for teaching in the BK area is determined on the basis of demonstrated academic abilities and on personal characteristics conducive to effective teaching.

Continuation in the BK program. The requirements for continuing in the program are: (1) a GPA of at least 2.50 on hours attempted; (2) behavior which adheres to the code of ethics of the profession; and (3) satisfactory participation in the required professional laboratory program, which is prerequisite to internship. An evaluation of each field experience assignment will become a part of the student’s professional record.

If a student fails any course in the professional education sequence and/or communication skills or the PRAXIS I twice, the student is withdrawn from teacher education.

Major in Birth-Kindergarten, B.S. Degree

General education, 41 hours

Program Requirements: 12 hours, SPED 200; ANTH 260; SOC 326; EDEL 466.

Major requirements: 63 hours including the departmental core course (CDFR 261 Family Dynamics) and the following:

BK 260 Foundations of Child Study, 3 hours
BK 361 Environments for Young Children, 3 hours
BK 461 Young Children’s Thinking, 3 hours
BK 462 Adult Child Interaction, 3 hours
BK, SPED, EDEL 314 Kindergarten Curriculum, 3 hours
BK, SPED, EDEL 366 Infant Curriculum, 3 hours
BK, SPED, EDEL 470 Early Childhood Curriculum, 3 hours
CDFR 360 Infancy, 3 hours
CDFR 363 Child Development, 3 hours
CDFR 467 Perspectives in Parenting, 3 hours
CDFR 468 Families: Organization & Function, 3 hours
SPED 313 Assessment of the Young Child, 3 hours
SPED 411 Collaborative Planning, 3 hours
SPED 412 Intergency Practicum, 2 hours
EDEL 313 Literacy & Numeracy, 3 hours
EDCD 302 Communication Development & Disorders, 3 hours
HSCC 231 Introduction to Health Promotion and Disease Prevention for Preschool Children, 3 hours
BK, EDEL, SPED 491 Internship, 8 hours
BK, EDEL, SPED 496 Internship Seminar, 2 hours
Electives, 12 hours

Major in Child Development and Family Relations, B.S. Degree

General education, 41 hours
The major requires 56 hours, including the 3-hour core course (CDFR 261) and the following:

BK 361 Environments for Young Children, 3 hours  
CDFR 360 Infancy, 3 hours  
CDFR 363 Child Development I, 3 hours  
CDFR 364 Survey of Human Development, 3 hours  
CDFR 367 Child Development II, 3 hours  
CDFR 464 Family and Community, 3 hours  
CDFR 465 Day Care Management, 3 hours  
CDFR 467 Perspectives in Parenting, 3 hours  
CDFR 468 Families: Organization and Function, 3 hours  
CDFR 469 Family Gerontology, 3 hours  
CDFR 483, 484, 485 Internship, 3 hours each course  
CDFR 497 Child and Family Seminar, 3 hours  
HEAL 250 First Aid and Safety Education, 2 hours  
ND 330 Human Nutritional Needs, 3 hours  

Related electives (6 hours), approved by the adviser, are required.

General electives (25 hours) are required to complete the program.

**Major in Clothing, Textiles, and Merchandising, B.S. Degree**

General education, 41 hours

Program requirements, 18 hours: ACCT 161; MGT 300; MKT 301; ECON 130; and 6 hours selected from MKT 306, 407; OA 304; MGT 304, 401, and 407.

The major requires 51 hours, including the 3-hour core course (CDFR 261) and the following:

CTM 140 Fashion Analysis, 3 hours  
CTM 242 Textiles, 3 hours  
CTM 243 Apparel Quality Analysis, 3 hours  
CTM 245 Dynamics of the Fashion Industry, 3 hours  
CTM 246 Fashion Buying and Merchandising, 3 hours  
CTM 340 Fashion in Retrospect, 3 hours  
CTM 342 Apparel Production Processes, 3 hours  
CTM 344 Fashion Design Fundamentals, 3 hours  
CTM 346 Merchandising Apparel for Profit, 3 hours  
CTM 347 Fashion Promotion, 3 hours  
CTM 441 Textile and Apparel Economics, 3 hours  
CTM 443 Cultural Aspects of Clothing, 3 hours  
CTM 445 Fashion Product Analysis, 3 hours  
CTM 446 Principles and Techniques of Fashion Retailing, 3 hours  
CTM 483, 484 Internship, 3 hours each course  

General electives (18 hours), including at least 6 hours at the junior-senior level, are required to complete the program.

**Major in Family and Consumer Sciences, B.S.Ed. Degree**

General education, 41 hours

The major requires 46 hours, including 3 hour core course (CDFR 261) and the following:

HE 311 Home Economics Curriculum and Materials, 3 hours  
HE 321 Family Finance, 3 hours  
HE 410 Consumer Strategies, 3 hours  
CDFR 363 Child Development I, 3 hours  
ND 231 Food Science, 4 hours  
ND 330 Human Nutritional Needs, 3 hours  
HM 333 Quantity Food, 3 hours  
CTM 242 Textiles, 3 hours  
CTM 243 Apparel Quality Analysis, 3 hours
CTM 342 Apparel Production Processes, 3 hours  
IDSN 153 Introduction to Interior Design, 2 hours  
IDSN 256 Survey of Interior Materials, 3 hours  
CHEM 132 Introductory Chemistry, 4 hours  
EDEL 466 Computers in Education, 3 hours

The professional education sequence (28 hours) for secondary and special subject teaching and general electives (13 hours), including at least 8 hours at the junior-senior level, are required to complete the program.

**Major in Hospitality Management, B.S. Degree**

General Education, 41 hours

Program requirements 11 hours: ACCT 161 or 251; ECON 231, 232; HEAL 250.

The major requires 64 hours:

HM 130 Introduction to the Hospitality Industry, 3 hours  
LAW 230 Legal Environment of Business, 3 hours  
LAW 402 Hospitality Law, 3 hours  
MGT 300 Introduction to Management, 3 hours  
MGT 304 Personnel Management, 3 hours  
MKT 301 Principles of Marketing, 3 hours  
FIN 305 Financial Management, 3 hours  
ND 330 Human Nutritional Needs, 3 hours  
ENVH 330 Food Protection and Sanitation, 4 hours  
HM 333 Quantity Foods, 3 hours  
HM 335 Lodging Management, 3 hours  
HM 338 Computer Applications in the Hospitality Industry, 3 hours  
HM 339 Cost Control in the Hospitality Industry, 3 hours  
HM 430 Food Systems Management, 3 hours  
HM 431 Hospitality Marketing Management, 3 hours  
HM 433 Strategic Planning in the Hospitality Industry, 3 hours  
PRM 440 Travel and Tourism, 3 hours  
IET 424 Facilities Management and Maintenance, 3 hours  
HM 483, 484 Internship or HM 389 Cooperative Education in HM (6)  
CDFR 261 Family Dynamics, 3 hours

General electives, 12 hours

**Major in Interior Design, B.S. Degree**

General education, 41 hours

Program requirements, 12 hours: ART 131; ART 136 or 137; CTM 242; and CDFR 261.

The major requires 62 hours as follows:

IDSN 153 Introduction to Interior Design, 3 hours  
IDSN 253 Space Planning, 3 hours  
IDSN 256 Survey of Interior Materials, 3 hours  
IDSN 259 Portfolio Review I, 1 hour  
IDSN 351 Lighting Design and Color, 4 hours  
IDSN 353 Residential Design, 4 hours  
IDSN 355 History of Architecture and Furniture I, 3 hours  
IDSN 357 Contract Design I, 4 hours  
IDSN 358 History of Architecture and Furniture II, 3 hours  
IDSN 359 Perspective Drawing, 4 hours  
IDSN 456 Contract Design II, 4 hours  
IDSN 457 Problem Solving in Design, 4 hours  
IDSN 458 Professional Practice in Interior Design, 3 hours  
IDSN 459 Portfolio Review II, 1 hour  
IDSN 483 Internship, 3 hours
IET 151 Introduction to Drafting, 3 hours
IET 152 Architectural Drafting and Design I, 3 hours
IET 310 CADD for Interior Design, 3 hours
IET 342 Architectural Construction Processes, 3 hours
IET 352 Architectural Drafting and Design II, 3 hours

General electives (13 hours), including at least 8 hours at the junior-senior level, are required to complete the program.

To continue in the program, students must earn a grade of C or better in each IDSN and IET course in the major.

Minor in Child Development and Family Relations
The minor requires 24 hours, including CDFR 261, 360, 363, 467, 468; BK 361, 461, 462.

Minor in Clothing and Textiles
The minor requires 21 hours, including CTM 140, 242, 243, 340, 342, 344, and 441.

Minor in Family and Consumer Sciences
The minor requires 20 hours, including 12 hours selected from ND 231; CTM 242; CDFR 261; HE 321; IDSN 256 and 8 hours of electives.

Minor in Family Services
The minor requires 21 hours, including CDFR 261, 364, 464, 467, 469; HE 321; and ND 330.

Minor in Fashion Merchandising
The minor requires 21 hours, including CTM 242, 243, 245, 246, 346, 347; and 441 or 446.

Minor in Food Service Management
The minor requires 18 hours, including HM 130, 333, 430; ND 231, 330; and a 3-hour junior-senior elective selected from HM 389, nutrition and dietetics, management, or hospitality management.

Minor in Residential Environments
The minor requires 24 hours, including IDSN 153, (Interior Design Track), 253, 256, 355, or 358; IET 152; CTM 242; ART 103 or 136 or 137; and CDFR 261 or HE 270.

DEPARTMENT OF INDUSTRIAL AND ENGINEERING TECHNOLOGY
George DeSain, Head

Major in Electronics Engineering Technology, B.S. Degree
General education, 41 hours

Program requirements, 22 hours: MATH 145, 146, 153, 255; and PHYS 130, 131.

The major requires 57 hours as follows:
CS 150 Computer Programming I, 3 hours
EET 141 Electronic Drafting, 1 hour
EET 142 Electronic Fabrication, 1 hour
EET 231 Circuit Analysis I, 4 hours
EET 232 Circuit Analysis II, 4 hours
EET 241 Digital Integrated Circuits I, 3 hours
EET 311 Solid State Devices, 4 hours
EET 312 Analog Integrated Circuits, 4 hours
EET 331 Digital Integrated Circuits II, 3 hours
EET 332 Microcontrollers, 3 hours
EET 341 Advanced Circuit Analysis, 3 hours
EET 352 Industrial Controls and Machines, 3 hours
EET 431 Microprocessor Fundamentals, 3 hours
EET 432 Microprocessor Applications, 3 hours
EET 441 Communication Systems, 4 hours
EET 452 Control Systems, 4 hours
EET 478 Senior Design Project Proposal, 1 hour
EET 479 Senior Design Project, 3 hours
MET 331 or 441 Quality Control I or Automated Manufacturing, 3 hours

Eight hours of junior-senior level electives are required to complete the program. The upper-level credit requirement may be met by hours waived within the general education component.

To enroll in the junior-senior level electronics courses, students must have completed the following courses with a C or better: EET 231, 232 and 241, and have passed MATH 153.

**Major in Industrial Distribution, B.S. Degree**

General education, 41 hours

Program requirements, 16 hours: MATH 130, 144, 170; PHYS 130; and ECON 231.

The major requires 58 hours as follows:
CS 130 Introduction to Computing, 3 hours
ID 230 Industrial Distribution, 3 hours
ID 360 Industrial Distribution Organizations, 3 hours
ID 370 Product Management and Inventory Control, 3 hours
ID 479 Industrial Distribution Seminar, 3 hours
IT 335 Industrial Safety, 3 hours
IT 370 Electricity, 3 hours
IT 371 Electronics, 3 hours
IT 423 Fluid Systems, 3 hours
IET 420 Polymers Technology, 4 hours
MET 132 Engineering Graphics, 3 hours
MET 141 Manufacturing Materials and Processes, 3 hours
MET 331 Quality Control I, 3 hours
MKT 301 Principles of Marketing, 3 hours
MKT 306 Professional Selling, 3 hours
MKT 405 Marketing Management, 3 hours
MKT 407 International Marketing, 3 hours
LAW 230 Legal Environment of Business, 3 hours
ACCT 251 Accounting Principles I - Financial, 3 hours

General electives (13 hours) at the junior-senior level are required to complete the program.

**Major in Industrial Technology, B.S. Degree**

General education, 41 hours

Program requirements, 20 hours: MATH 130, 144, 170; PHYS 130; CHEM 132; and ECON 231.

The major requires 55 hours as follows:
CS 130 Introduction to Computing, 3 hours
ENGL 305 Technical Writing or OA 403 Business Research and Reports, 3 hours
IET 420 Polymers Technology, 4 hours
IT 335 Industrial Safety, 3 hours
IT 370 Electricity, 3 hours
IT 423 Fluid Systems, 3 hours
IT 495 Industrial Technology Seminar, 3 hours
MET 132 Engineering Graphics, 3 hours
MET 141 Manufacturing Materials and Processes, 3 hours
MET 231 Engineering CADD, 3 hours
MET 242 Machining Processes, 3 hours
MET 331 Quality Control I, 3 hours
MGT 300 Introduction to Management, 3 hours

Fifteen credits from one of the following options:

1) Industrial Safety Concentration: IT 336, 337, 338; IET 342, 421; and ENVH 457.
2) Industrial and Facilities Operations Concentration: IT 371; IET 410, 424, 434; and MET 332, 342.
3) A minor or other approved program.

General electives (12 hours), which must be at the junior-senior level, are required to complete the program.

**Major in Industrial Arts Education, B.S.Ed. Degree**

This program is on inactive status and no new students are being enrolled.

**Major in Manufacturing Engineering Technology, B.S. Degree**

General Education, 41 hours

Program requirements, 25 hours: MATH 145, 146, 153, 170; PHYS 130, 131; and CHEM 132.

Major requirements, 56 hours as follows:

EET 301 DC/AC Electricity, 3 hours
EET 302 Industrial Instrumentation and Control, 3 hours
IT 335 Industrial Safety, 3 hours
IET 420 Polymer Technology, 4 hours
CS 130 Introduction to Computing, 3 hours
MET 132 Engineering Graphics, 3 hours
MET 141 Manufacturing Materials and Processes, 3 hours
MET 231 Engineering CADD, 3 hours
MET 242 Machining Processes, 3 hours
MET 321 Statics and Strength of Materials, 3 hours
MET 331 Quality Control I, 3 hours
MET 332 Quality Control II, 3 hours
MET 341 CNC Machining Technology, 3 hours
MET 342 Manufacturing Analysis and Planning, 3 hours
MET 431 Automated Manufacturing, 3 hours
MET 436 Engineering Economic Analysis, 3 hours
MET 441 Fluid Power and Systems Analysis, 3 hours
MET 478 Senior Design Project Proposal, 1 hour
MET 479 Senior Design Project, 3 hours

Six hours of electives at the junior-senior level are required to complete the degree program.

To enroll in the junior-senior level manufacturing courses, students must have passed MATH 170 and 153 and completed the following courses with a grade of C or better: MET 231, 242.
Major in Occupational Education for Trade and Industry, B.S.Ed. Degree
This program is on inactive status and no new students are being enrolled.

Minor in Architectural Drafting
The minor requires 18 hours including IET 151, 152, 342, 352, 410, and 424.

Minor in Industrial Distribution
A minor of 18-24 hours may be arranged with the approval of the industrial distribution coordinator to meet the individual needs and interests of non-majors.

Minor in Industrial Technology
A minor of 16-24 hours may be arranged with the approval of the industrial technology coordinator to meet the individual needs and interests of non-majors.

Occupational Safety Certificate
Students may elect to include in their programs of study a 14-15 hour sequence in the area of occupational safety. Emphasis is placed on interpretation, application, and administration of the Occupational Safety and Health Act and other regulations to assist students to develop entry-level expertise that can be applied directly in business and industry. Students who complete HEAL 120 or HSEH 230 or HSEH 457; HSCC 240; and IT 335, 336 and 337, or their equivalents, with a minimum GPA of 2.0 will be awarded a certificate in occupational safety by the Department of Industrial and Engineering Technology. The certificate is co-sponsored by the North Carolina Industrial Commission.

DEPARTMENT OF NURSING
Sharon Jacques, Acting Head


Major in Nursing, B.S.N. Degree/Generic Curriculum Option
General education, 41 hours

Program requirements, 22 hours: BIOL 291, 292; CHEM 132 or 140, 133; HSCC 260; and PSY 250 or approved substitute.

The major requires 53 hours as follows:
NSG 340 Basic Nursing Skills, 3 hours
NSG 350 Dimensions of Professional Nursing, 2 hours
NSG 353, 355, 466, 467 Nursing Science I, II, III, IV, 18 hours
NSG 383, 385, 486, 487 Clinical Practicum I, II, III, IV, 15 hours
NSG 460 Nursing Leadership and Management, 2 hours
NSG 470 Nursing Research, 3 hours
NSG 475 Perspectives of the Nursing Profession, 2 hours
NSG 480 Independent Study, 1 hour
ND 336 Normal Nutrition, 2 hours
ND 337 Therapeutic Nutrition, 2 hours
HSCC 370, Introduction to Pharmacology, 3 hours

General electives (12 or more hours), are required to complete the program.
Capstone Curriculum Option (for registered nurses)

General education, 41 hours

Program requirements, 22 hours: BIOL 291, 292; CHEM 132 or 140, 133; HSCC 260; and PSY 250 or approved substitute.

The major requires 52-53 hours as follows:
NSG 301 Transition to Professional Nursing, 3 hours
NSG 302 Health Promotion in the Community, 3 hours
NSG 384 Practicum in Community Health Nursing, 3 hours
NSG 399 Seminar: Professional Nursing Knowledge and Skills, 2 hours
Credit by exam, 26 hours (in lieu of NSG 340 and 466, HSCC 370, and portions of NSG 353, 355, 383, 385, 467, and 486)
NSG 460 Nursing Leadership and Management, 2 hours
NSG 470 Nursing Research, 3 hours
NSG 475 Perspectives of the Nursing Profession, 2 hours
NSG 480 Independent Study, 1-2 hours
NSG 483 Practicum in Clinical Management, 3 hours
ND 336 Normal Nutrition, 2 hours
ND 337 Therapeutic Nutrition, 2 hours

General electives (12-13 hours) are required to complete the program.
The role of the College of Arts and Sciences is to serve as a community of scholarship involving students and faculty in a broad range of intellectual and aesthetic activities.

The most significant of these activities is the teaching/learning process that takes place between students and faculty in classrooms, laboratories, studios, and field locations. The college provides a varied curriculum in the fine arts, humanities, and sciences. The curriculum includes general education courses that provide the basic intellectual skills and perspectives essential for preparing all university students for effective participation in modern life. In addition, specialized courses are offered that serve the baccalaureate and graduate degree programs of this college and its sister colleges. Many departments in the college are actively involved in teacher preparation.

Scholarly productivity through a variety of discipline-related activities is essential to the growth of the college and university. For this purpose, the faculty engage in research, creative activities, and publication. Students are often directly involved in these scholarly activities, which enhance the reputation of the college and university in the broader academic world.

The activities of the college also include service to the university, region, state, nation, and international community. Faculty members act as advisers for undergraduate and graduate students and support extracurricular activities. Faculty participate in university governance through membership on departmental, college, and university committees. College faculty also share intellectual, cultural, and problem solving interests with audiences throughout western North Carolina and beyond.

Program Requirements. College-level program requirements for all bachelor of arts degree programs include MFL 231-232 or 240.

**DEPARTMENT OF ART**

*Robert Godfrey, Head*

*L. Budahl, J. Byrd, C. Griffin, J. Jicha, M. Liddle, L. Petrovich-Mwaniki, M. Roland, J. Smythe, J. Thompson*

**Major in Art, B.F.A. Degree**

General education, 41 hours

Program requirements, 3 hours: PHIL 310

The major requires 63 hours as follows:

- 131 Introductory Drawing, 3 hours
- 132 Two-Dimensional Design, 3 hours
- 136, 137 Art History Survey I, II, 6 hours
- 141 Figure Drawing, 3 hours
- 142 Three-Dimensional Design, 3 hours
- 416 Contemporary Art History, 3 hours

Art history electives (6 hours) at the junior-senior level and studio electives (12 hours) selected from 233, 234, 241, 251, 270, 350, 352, 354, 359, 372, 459 and 480 are required to complete the program. (Students in graphic design must take 270 and 372.)

Concentration (24 hours) selected from:

*Studio:* 18 hours of courses at the junior-senior level, taken in no more than two areas, selected from painting/drawing, printmaking, book arts, sculpture, ceramics, and photography are required to complete the program.
Graphic Design: ART 370, 371, 374, 474, and 483 or 389, and 9 hours selected from photography*, printmaking*, book arts*, and graphic design at the junior-senior level are required to complete the program. *No more than one course each from these areas at the junior-senior level will apply towards the graphic design concentration.

General electives (21 hours), including at least 12 hours at the junior-senior level, are required to complete the program.

Major in Art, B.A. Degree

General education, 41 hours

Program requirements, 6 hours: MFL 231-232 or 240
The major requires 36 hours as follows:
131 Introductory Drawing, 3 hours
132 Two-Dimensional Design, 3 hours
136, 137 Art History Survey I, II, 6 hours
PHIL 310 Philosophy of Art, 3 hours
Studio emphasis (21 hours), including at least 12 hours at the junior-senior level, or an art history emphasis to include 15 hours in junior-senior art history courses and 6 hours of art electives are required.

To complete the program, a total of 45 hours is required, including at least 18 hours of general electives and a second major, minor, or other approved program. The 45-46 hours must be selected to include at least 24 hours at the junior-senior level.

Major in Art, B.S.Ed. Degree

General education, 41 hours

The major requires 57 hours as follows:
131 Introductory Drawing, 3 hours
132 Two-Dimensional Design, 3 hours
136, 137 Art History Survey I, II, 6 hours
142 Three-Dimensional Design, 3 hours
263 Introduction to Art Education, 1 hour
363 Art for Children, 2 hours
367 History and Philosophy of Art Education, 3 hours
416 Contemporary Art, 3 hours
463 Art Methods for the Middle and High School, 3 hours
3 hours art history electives at the junior-senior level
18 hours art studio: 233, 234, 241, 251, 270, 372
9 hours art studio electives selected as 300- or 400-level courses in the same studio discipline

The professional education sequence (25 hours) for secondary and special subject teaching, exclusive of the methods course, and general electives (5 hours) are required to complete the program.

Minor in Art

The minor requires 21 hours, including ART 131, 132, 136, 137, and 9 hours of art electives selected with the advice of the head of the art department.

ARTS AND SCIENCES INTERDISCIPLINARY PROGRAMS

Rosemary DePaolo, Dean

Minor in Cherokee Studies

The minor requires 21 hours, including HIST 445; CHER 101, 132; ANTH 461, 473; and 6 hours of electives selected from CHER 231, 232; ANTH/ART 379; and USI 394.
Minor in International Studies

The minor is open to juniors and seniors majoring in anthropology, economics, geography, history, foreign language, political science, or sociology. In addition to meeting the requirements for a major in one of the participating departments, the student must complete 21 hours, including PSC 331, 480, and 15 hours in approved electives in two or more areas outside the major field.

Minor in Social Change

The minor requires 24 hours, including SOC 231, 304, and 18 hours of core electives from SOC 432, 434, 448, 454; ANTH 349; HIST 435, 436; ECON 401, 406; GEOG 460; PSC 302, 316, 436; and SOCW 373.

Minor in Race, Ethnic and Gender Relations

The minor requires 24 hours, including SOC 231, 314, 326, 414, and 12 hours of core electives from SOC 423, 448, 454; ANTH 417, 473; HIST 442, 445, 446, 451, 463; PSY 333; and SOCW 402.

DEPARTMENT OF BIOLOGY

Roger H. Lumb, Head


Major in Biology, B.S. Degree

General education, 41 hours

Program requirements with all emphases, 4 hours: CHEM 135. Additional requirements: with the preprofessional emphasis, 14 hours, including MFL 231-232 or 240, MATH 130 and MATH 140 or equivalent; with the math emphasis, 6 hours in MATH 145 and 146; with a horticulture emphasis, 3 hours in MATH 130; with a computer science/statistics emphasis, 5 hours in MATH 140; with a business emphasis, 6 hours in MATH 130, 170; and with a parks and recreation management emphasis, 5 hours in MATH 140 and 4 hours in physics, exclusive of courses taken to meet general education requirements.

The major requires 55-65 hours as follows:
130, 131 General Botany and General Zoology, 8 hours
232 General Ecology, 3 hours
242 Genetics and Evolution, 3 hours
311 Animal Physiology, 2 hours
315 Introduction to Plant Physiology, 1 hour
333 Cell and Molecular Biology, 3 hours
CHEM 136 General Chemistry, 4 hours

Emphasis area (28-38 hours) selected from one of the following:

Computer Science/Statistics, 34 hours: CS 150, 151, 250; MATH 270, 375, 310; PHYS 130, 131; and 8 hours of junior-senior biology electives.

Horticulture, 38 hours: 8 hours selected from BIOL 413, 414, 415, 451, 455, and up to 30 hours in horticulture courses accepted in transfer with the approval of the department head.

Mathematics, 30 hours: MATH 153, 255, 262; and CS 150; 8 hours of math/computer science electives; and 8 hours of junior-senior biology electives.

Parks and Recreation Management, 29 hours: PRM 150, 250, 370, 440, 483, 484, 495, and 12 hours of junior-senior biology electives.
Preprofessional, 28 hours: CHEM 241, 242, 271; PHYS 130, 131; and 12 hours of junior-senior biology electives.

Environmental Health, 36 hours: BIOL 413, 414; CHEM 133; a physics course (additional to courses taken to meet general education requirements); and ENVH 230, 310, 320, 330, 440, 460, 470, 483.

Business, 34 hours: FIN 305; ACCT 161; ECON 231, 232; MGT 300; MKT 301; PHYS 130, 131; and 8 hours of junior-senior biology electives.

General electives (15-23 hours), are required to complete the program. At least half of the hours selected must be at the junior-senior level. Recommended electives include CIS 251 and BIOL 389 with the horticulture emphasis; GEOL 305 with the environmental health emphasis; and CIS 251 with the business emphasis.

Major in Biology, B.S.Ed. Degree

General education, 41 hours

Program requirements, 8 hours: MATH 130, 140

The major requires 44 hours as follows:
130, 131 General Botany and General Zoology, 8 hours
232 General Ecology, 3 hours
242 Genetics and Evolution, 3 hours
311 Animal Physiology, 2 hours
315 Introduction to Plant Physiology, 1 hour
333 Cell and Molecular Biology, 3 hours
CHEM 132, 133 General Chemistry, 8 hours
PHYS 130, 131 Introductory Physics, 8 hours
Biology electives (8 hours) at the junior-senior level

The professional education sequence (28 hours) for secondary and special subject teaching and 4 hours of general electives are required to complete the program. At least 3 of the general education hours eligible for waiver through this program must be taken in junior-senior courses.

Minor in Biology

The minor requires 20 hours, including 130, 131, 232, 242, 311, 315, and 333.

DEPARTMENT OF CHEMISTRY AND PHYSICS

J. Roger Bacon, Head


Major in Chemistry, B.A. Degree

General education, 41 hours

Program requirements, 22 hours: MATH 130 or 146 and 140; PHYS 130-131 or 230-231; and MFL 231-232 or 240.

The major requires 34 hours as follows:
140 Advanced General Chemistry, 4 hours
241, 242 Organic Chemistry I, II, 6 hours
232 Quantitative Analysis, 4 hours
272 Organic Chemistry Lab, 2 hours
321 Inorganic Chemistry, 3 hours
352 Physical Chemistry I, 3 hours
370 Instrumental Analysis I, 3 hours
371 Chemical Dynamics, 2 hours
372 Chemical Synthesis, 2 hours
432 Instrumental Analysis II, 3 hours
495 Seminar, 2 hours

A minor, second major, or other approved program and general electives (31 hours), including at least 12 hours at the junior-senior level, are required to complete the program. Premedical and predental students may complete the program by taking 6 hours of general electives and 24 hours selected from BIOL 131, 132, 134, 242, 291, 292, 311, 361, 374, 417, 419, 421, and 478.

Students may complete teacher certification requirements in science through this program by completing the professional education sequence and appropriate electives.

**Major in Chemistry, B.S. Degree**

General education, 41 hours

Program requirements, 21 hours: MFL 231-232 or 240 (German recommended); MATH 145, 146, 153; and PHYS 230, 231.

The major requires 47 hours as follows:

140 Advanced General Chemistry, 4 hours
232 Quantitative Analysis, 4 hours
241, 242 Organic Chemistry I, II, 6 hours
272 Organic Chemistry Lab, 2 hours
321 Inorganic Chemistry, 3 hours
352 Physical Chemistry I, 3 hours
370 Instrumental Analysis I, 3 hours
371 Chemical Dynamics, 2 hours
372 Chemical Synthesis, 2 hours
432 Instrumental Analysis II, 3 hours
453 Physical Chemistry II, 3 hours
495 Seminar, 2 hours
MATH 255 Calculus II, 4 hours

Chemistry electives (6 hours) at the junior-senior level exclusive of experiential courses and exclusive of CHEM 330.

General electives (19 hours), including at least 9 hours at the junior-senior level, are required to complete the program.

**Major in Chemistry, B.S. Degree-ACS Approved**

Program requirements and major requirements are the same as for the regular bachelor of science degree. In addition, MATH 256, four hours of CHEM 380 and CHEM 421 are required. General electives total 8 hours.

**Major in Industrial Chemistry, B.S. Degree**

General education, 41 hours

Program requirements, 22 hours: CMCR 150; MATH 130, 140; PHYS 130-131, or 230-231; and ECON 130.

The major requires 60 hours as follows:

140 Advanced General Chemistry, 4 hours
232 Quantitative Analysis, 4 hours
241, 242 Organic Chemistry I, II 6 hours
272 Organic Chemistry Lab, 2 hours
321 Inorganic Chemistry, 3 hours
352 Physical Chemistry I, 3 hours
370 Instrumental Analysis I, 3 hours
371 Chemical Dynamics, 2 hours
372 Chemical Synthesis, 2 hours
432 Instrumental Analysis II, 3 hours
ACCT 161 Accounting for the Non-Business Majors, 3 hours
CMHC 312 Group Discussion and Conference, 3 hours
CMHC 315 Organizational Communication, 3 hours
ENGL 401 Writing for the Professions, 3 hours
MGT 300 Introduction to Management, 3 hours
MGT 302 Labor-Management Relations, 3 hours
MGT 304 Personnel Management, 3 hours
MKT 301 Principles of Marketing, 3 hours
Chemistry electives (4 hours) at the junior-senior level

General electives (5 hours), including at least 3 hours at the junior-senior level, are required to complete the program

**Major in Physics, B.S. Degree**

General education, 41 hours

Program requirements, 8 hours: MATH 153 and CHEM 140.

The major requires 51 hours as follows:

230-231 General Physics, 8 hours
302 Electronics, 4 hours
310 Modern Physics, 3 hours
360 Laboratory Physics, 2 hours
410 Classical Mechanics, 3 hours
440 Electricity and Magnetism, 3 hours
450 Quantum Mechanics, 4 hours
495 Seminar in Physics, 1 hour
Physics electives (12 hours) at the junior-senior level exclusive of experiential courses
MATH 255, 256 Calculus II, III, 8 hours
MATH 320 Ordinary Differential Equations, 3 hours

General electives (28 hours), including at least 18 hours at the junior-senior level, are required to complete the program. Students are urged to plan a program leading to competency in a second area.

**Major in Science Education (General Science), B.S.Ed. Degree**

This program is on inactive status and no new students are being enrolled.

**Minor in Chemistry**

The minor requires 21 hours. CHEM 101 and 132 are not valid courses for the minor. At least 5 hours must be at the junior-senior level.

**Minor in Physics**

The minor requires 20 hours, including PHYS 130-131 or 230-231, and 12 hours of junior-senior electives.
**DEPARTMENT OF COMMUNICATION AND THEATRE ARTS**  
*Lawrence Hill, Head*

J. Moore, J. Owens, C. Rauch, J. Slater, A. Wiggins, K. Wright

**Major in Communication, B.S. Degree**

General education, 41 hours

Program requirements, 6 hours: CIS 293: Beg Micro Applications and 3 hours in statistics  
The major requires 46 hours including 25 required hours in communication core courses (CMCR) and a 21-hour concentration.

Required Communication Core Courses, 25 hours:  
CMCR 140 Introduction to Mass Communications, 3 hours  
CMCR 150 Interpersonal Communication, 3 hours  
CMCR 250 Public Communication, 3 hours  
CMCR 301 Writing for Mass Communications, 3 hours  
CMCR 350 Communication Theory and Research, 3 hours  
CMCR 389 Cooperative Education in Communication or  
CMCR 483 Internship in Communication, 3 hours  
CMCR 401 Editing for Mass Communications, 3 hours  
CMCR 465 Communications Ethics and Responsibilities, 3 hours  
CMCR 496 Seminar in Professional Development, 1 hour

Concentrations, at least 21 hours selected from:

*Electronic Media (CMEM):* CMEM 354, 355 and CMHC 311 required; 12 hours  
selected from CMEM 351, 358, 450, 451, 452, 454, 455, 456, 457, 458, 459, and 493.

*Human Communication (CMHC):* CMHC 311, 312, 313, 314, 315 required; 6 hours  
selected from CMHC 411, 414, 415; CMPR 360, SOC 326, 414, 448, and PSC 302, 336.

*Print Media (CMPM):* CMPM 302 required; 9 hours from the following: CMPM 303,  
304, 305, 402, 403, 404 and CMPR 360; and 9 hours selected from advisor-approved  
courses.

*Public Relations (CMPR):* 6 hours selected from CMPR 360, 460, 493; 6 hours selected  
from CMPM 303, 304, 403 and 404; and 9 hours selected from advisor-approved courses  
in Marketing, Psychology, Sociology, or Political Science.

To complete the program, a total of 35 hours is required, including at least 12 hours of  
general electives and a minor, second major, or other approved programs. The courses  
must include at least 14 to 17 hours at junior or senior level, depending on courses in  
public relations concentration. Students may not minor in another communication  
concentration or the minor in journalism offered in the Department of English.

**Major in Speech and Theatre Arts, B.A. Degree**  
Speech Concentration deleted - See Communication B.S.

General Education, 41 hours

Program requirements, 6 hours: MFL 231-232 or 240.  
The Theatre concentration requires 40 hours as follows:  
CMTA 130 Makeup, 1 hour  
CMTA 131 Introduction to Theatre, 3 hours  
CMTA 140 Acting I, 3 hours
CMTA 231 Stagecraft I, 3 hours
CMTA 300 Dramatic Literature and Criticism I, 3 hours
CMTA 301 Dramatic Literature and Criticism II, 3 hours
CMTA 331 Stagecraft II, 3 hours
CMTA 340 Acting II, 3 hours
CMTA 350 Directing I, 3 hours
CMTA 400 History of the Theatre I, 3 hours
CMTA 401 History of the Theatre II, 3 hours
CMTA 496 Seminar in Professional Development, 1 hour
8 hours of CMTA junior-senior electives

To complete the program, a total of 41 hours is required, including a minor, second major or approved program, and at least 12 hours of general electives. At least 21 of the hours must be taken at the junior-senior level.

**Major in Theatre, B.F.A. Degree**

General Education, 41 hours

The major requires an entry audition, yearly evaluation, and 64 hours.

Required courses:
- CMTA 130 Makeup, 1 hour
- CMTA 131 Introduction to Theatre, 3 hours
- CMTA 140 Acting I, 3 hours
- CMTA 231 Stagecraft I, 3 hours
- CMTA 300 Dramatic Literature and Criticism I, 3 hours
- CMTA 301 Dramatic Literature and Criticism II, 3 hours
- CMTA 331 Stagecraft II, 3 hours
- CMTA 340 Acting II, 3 hours
- CMTA 350 Directing I, 3 hours
- CMTA 400 History of the Theatre I, 3 hours
- CMTA 401 History of the Theatre II, 3 hours
- CMTA 496 Seminar in Professional Development, 1 hour
- CMTA 499 BFA Thesis, 2 hours

A interdisciplinary core of 15 hours: 12 hours from ART 136, 137; HIST 221, 222; and 3 hours ENGL 333 or 431.

A concentration of 15 hours selected from one area:

**Acting:** 6 hours from ANTH 260; PSY 250; PHIL 310, 312; 9 hours from CMTA 341, 345, 346, 351, 441; and CMHC 311.

**Costume Design:** 3 hours from CTM 242, 340, 342, 343, 344; and CMTA 332, 337, 437.

**Lighting Design:** 6 hours from ART 131; MET 132; HEAL 250; IDSN 153; and CMTA 332, 335, 335.

**Scenic Design:** 6 hours from ART 131; MET 132; HEAL 250; IDSN 153; and CMTA 332, 333, 433.

**Technical Production:** 6 hours from ART 131; MET 132; HEAL 250; IDSN 153; and CMTA 332, 333, 433.

To complete the program, a total of 23 hours of general electives is required; depending on the concentration, selection of courses between 12 and 15 hours must be at the junior-senior level. A student will have only one concentration in the B.F.A. degree.
Minor in Communications

The minor requires 24 hours: 6 hours of program requirements (CIS 293: Beg Micro Applications and 3 hours in statistics) and 18 hours of core courses: CMCR 140, 150, 250, 301, 350, and 401.

Minor in Theatre

The minor requires 24 hours: CMTA 131, 140, 231, 300 or 301, 331, 340, 350, 400 or 401.

DEPARTMENT OF ENGLISH

James E. Byer, Head


Major in English, B.A. Degree

Journalism Concentration

General education, 41 hours

Program requirements, 9 hours minimum: MFL 231-232 or 240 and CIS 293

The major requires 39 hours as follows: ENGL 251, 252, 307, 361, 362; 389 or 483; 497; CMCR 140, 301, 465; CMPM 302; and 6 hours selected from ENGL 306, 312, CMPM 303, 304, 305, or 493.

To complete the program, a total of 39 hours is required, including a minimum of 18 hours of general electives; a minor, second major, or other approved program; and appropriate credits (21) at the junior-senior level.

Major in English, B.A. Degree

Literature Concentration

General Education, 41 hours

Program requirements, 6 hours minimum: MFL 231-232 or 240

The major requires 39 hours as follows: ENGL 251, 252, 330; 12 hours selected from ENGL 361 or 362, 420, 431, 440, 441, 451, 470; 3 hours selected from ENGL 311, 312, 412, 415; 498; and 12 hours of junior-senior English courses, 6 of which must be literature.

To complete the program, a total of 42 hours is required, including a minimum of 18 hours of general electives; a minor, second major, or other approved program; and appropriate credits (18) at the junior-senior level.

Major in English, B.A. Degree

Professional Writing Concentration

General education, 41 hours

Program requirements, 9 hours minimum: MFL 231-232 or 240 and CIS 293

The major requires 39 hours as follows: ENGL 251, 252, 303, 307, 330; 389 or 483; 497; 12 hours selected from ENGL 305, 306, 308,
309, 310, 312, 401, 405, 493; and 6 hours selected from junior-senior English literature courses.

To complete the program, a total of 39 hours is required, including a minimum of 18 hours of general electives; a minor, second major, or other approved program; and appropriate credits (18) at the junior-senior level.

**Major in English, B.S.Ed. Degree**

General education, 41 hours

Program requirements, 9 hours: MFL 231-232 or 240 and CMCR 250.

The major requires 39 hours as follows:
251 Survey of English Literature I, 3 hours
252 Survey of English Literature II, 3 hours
311 History of the English Language, 3 hours
312 Grammar for Writing, 3 hours
330 Introduction to Literary Interpretation, 3 hours
361 Survey of American Literature I, 3 hours
362 Survey of American Literature II, 3 hours
414 Fundamentals of Teaching Composition, 3 hours
478 Film as Literature, 3 hours
496 Seminar in Comparative Literature, 3 hours
EDEL 467 Adolescent Literature, 3 hours

Electives (6 hours) selected from 253, 254, 255, 256, 257, 258, 259, 300, 301, 302, 303, 304, 310, 312, 389, 401, 405, 483, 493, 497

The professional education sequence (28 hours) for secondary and special subject teaching and general electives (11 hours) are required to complete the program.

The Department of English offers the Minor in English, which is available to all majors except English.

**Minor in American Studies**
The minor requires 18 hours, including ENGL 361, 362, and one junior-senior level American literature course selected from ENGL 365, 463, 464, 479, or 480; and 9 hours from other course offerings with a focus on the American landscape, life, history or culture, including ANTH 417, 431, 461, 473; ART 314; ASI 493, 494; BIOL 251, 425; GEOG 400 (all of which have prerequisites); HIST 231, 232, 341, 432, 433, 434, 435, 436, 442, 443, 445, 446, 451; PHIL 330; PSC 231, 302, 305, 306, 334, 347, 407. (Available to all majors.)

**Minor in English**
The minor requires 18 hours of English courses, exclusive of ENGL 300 and those approved for general education credit.

The following minors, also administered by the Department of English, are available to all majors, with the exception of some concentrations in English or Communications, as listed below.

**Minor in Professional Writing**
The minor requires 18 hours, including 12 hours selected from the following courses: ENGL 303, 305, 306, 307, 308, 309, 310, 312, 389, 401, 405, 483, 493, 497; and 6 hours from any junior- or senior-level English course, exclusive of ENGL 300 and those approved for general education credit. (Not open to those pursuing the B.A. in English with a concentration in Professional Writing.)

**Minor in Communications**
See the listing in the Department of Communication and Theatre Arts.
Minor in Creative Writing
The minor requires 18 hours, including 12 hours selected from the following courses: ENGL 303, 308, 309, 310, 405, 493, 497; and 6 hours of literature courses, exclusive of those approved for general education credit. (Not open to those pursuing the B.A. in English with a concentration in Professional Writing.)

Minor in Literature
The minor requires 18 hours of literature courses, exclusive of those approved for general education credit. (Not open to those pursuing the B.A. in English with a concentration in Literature.)

Minor in Journalism
The minor requires 18 hours, including 12 hours selected from the following courses: CMCR 140, 301, 465; CMPM 302, 303, 304, 305, 493; and 6 hours from the following courses: ENGL 303, 306, 307, 312, 389, 483, 497. (Not open to those pursuing the B.S. in Communications--Print Media or the B.A. in English with a concentration in Journalism.)

DEPARTMENT OF GEOSCIENCES AND ANTHROPOLOGY
Anne Rogers, Head

Major in Geography, B.S. Degree
General education, 41 hours
Program requirements, 8 hours: GEOL 150; MATH 170, 171
The major requires 50 hours as follows:
150 Environmental Geography, 3 hours
320 Map Interpretation, 3 hours
322 Cartography, 4 hours
324 Introduction to Remote Sensing, 4 hours
326 Research Methods in Geography, 3 hours
350 Economic Geography, 3 hours
440 Topics in Regional Geography, 3 hours
Geography electives (27 hours) at the junior-senior level. It is recommended that students develop a specialization within the major. An emphasis may be designed in consultation with the adviser, or a student may select one of the following:
Physical Geography: 300, 302, 305, 400, 402
International Studies: 402, 440, and 444
General electives (29 hours), including at least 7 hours at the junior-senior level, are required to complete the program.

Major in Geography-Planning, B.S. Degree
General education, 41 hours
Program requirements, 8 hours: GEOL 150; MATH 170, 171
The major requires 49 hours as follows:
150 Environmental Geography, 3 hours
302 Geomorphology, 4 hours
305 Soils and Hydrology, 4 hours
320 Map Interpretation, 3 hours
322 Cartography, 4 hours
324 Introduction to Remote Sensing, 4 hours
326 Research Methods in Geography, 3 hours
350 Economic Geography, 3 hours
402 Conservation of Natural Resources, 3 hours
460 Urban and Regional Land Use Planning, 3 hours
462 Introduction to Urban Geography, 3 hours
464 Industrial Location and Community Development, 3 hours
Geography electives, 9 hours

General electives (30 hours), including at least 18 hours at the junior-senior level, are required to complete the program. A minor in economics, geology, political science, sociology, or other approved discipline may be selected or the student may select from a variety of courses to complete degree requirements.

Major in Geology, B.A. Degree

General education, 41 hours

Program requirements, 9 hours: MFL 231-232 or 240; MATH 130 or 146

The major requires 48 hours as follows:
150 Introduction to Physical Geology, 4 hours
252 Mineralogy, 4 hours
371 Structural Geology, 4 hours
495 Senior Seminar in Geology, 3 hours
CHEM 132 and 140, or 140 and one additional Chemistry course numbered 200 or above, 7-8 hours
Geology, Math or Science electives at the junior-senior level, 25-26 hours

General electives (22 hours), including at least 16 hours at the junior-senior level, are required to complete the program.

This program is designed for the liberal arts student who may seek a career in environmental science, planning, or a related area. Students who expect to become professional geologists or who expect to take a graduate degree in geology should complete the requirements for the bachelor of science degree program in geology.

Major in Geology, B.S. Degree

General education, 41 hours

Program requirements, 18-22 hours: PHYS 130-131 or 230-231; either MATH 145, 146, 153 and 255 or MATH 145, 146, 170 and 171.

The major requires 53 hours as follows:
CHEM 132 and 140, or 140 and one additional Chemistry course numbered 200 or above, 7-8 hours
150 Introduction to Physical Geology, 4 hours
One freshman-level Geology elective, 3 hours
252 Mineralogy, 4 hours
352 Igneous and Metamorphic Petrology, 4 hours
371 Structural Geology, 4 hours
420 Sedimentation, 3 hours
421 Stratigraphy, 3 hours
483 Field Course, 4-6 hours, taken at another accredited institution with approval of the department head
495 Senior Seminar in Geology, 3 hours
Geology, math, or science electives at the junior-senior level, 11-14 hours

General electives (12-16 hours), including at least 5 hours at the junior-senior level, are required to complete the program.
Major in Anthropology, B.A. Degree

General education, 41 hours

Program requirements, 6 hours: MFL 231-232 or 240

The major requires 36 hours as follows:
250 Archeology and Bioanthropology, 3 hours
260 Cultural and Social Anthropology, 3 hours
341 History of Anthropological Theory, 3 hours
419 Comparative Family, 3 hours
Electives (6 hours) selected from 327, 349, 351, 365
Elective (3 hours) selected from 361, 431, 441
Elective (3 hours) selected from 380, 440, 466
Electives (6 hours) selected from 417; either 461 or 473; 464, 477
Anthropology electives (6 hours) in junior-senior courses

To complete the program, 45 hours are required, including a minor, second major, or other approved program and at least 18 hours of general electives. At least 21 hours of these courses taken must be at the junior-senior level.

Major in Anthropology, B.S. Degree

All the requirements for the degree are the same as those listed previously for the bachelor of arts degree, except that a foreign language is not required and electives are increased by 6 hours.

Minor in Earth Sciences

The minor requires 18 hours, including GEOL 150; one other freshman-level geology course; GEOL 252; GEOG 150, 300.

Minor in Geology

The minor requires 20 hours, including GEOL 150; one other freshman-level geology course; 252; and 9 hours of electives above the freshman level.

Minor in Geography

The minor requires 21 hours, including GEOG 150, 350, and 15 hours of electives above the freshman level.

Minor in Geography-Planning

The minor requires 23 hours, including GEOG 150, 320, 350, 460, 462, 464, and 5 hours of junior-senior electives.

Minor in Anthropology

The minor requires 21 hours, including ANTH 250, 260, and 15 hours of junior-senior electives.

DEPARTMENT OF HISTORY

Curtis Wood, Head


Major in History, B.A. Degree

General education, 41 hours

Program requirements, 6 hours: MFL 231-232 or 240
The major requires 39 hours chosen from one of the following concentrations:

*United States History:* HIST 221-222, 297, 498; 18 hours of upper-division U.S. history, 9 of which must be selected from HIST 431, 432, 433, 434, 435, 436; 9 hours of upper-division European and non-Western history courses, including a minimum of 3 hours of each.

*European History:* HIST 231-232, 297, 498; 18 hours of upper-division European history, 9 of which must be selected from HIST 411, 412, 413, 414, 416; 9 hours of upper-division U.S. and non-Western history, including a minimum of 3 hours of each.

To complete the program, a total of 42 hours is required, including a minor, second major, or other approved program and general electives. At least 21 hours of these courses must be at the junior-senior level.

**Major in History, B.S. Degree**

General Education, 41 hours

Program requirements, 4 hours: MATH 170, 171

The major requires 39 hours chosen from one of the following concentrations:

*United States History:* HIST 221-222, 297, 498; 18 hours of upper-division U.S. history, 9 of which must be selected from HIST 431, 432, 433, 434, 435, 436; 9 hours of upper-division European and Non-Western history courses, including a minimum of 3 hours of each.

*European History:* HIST 231-232, 297, 498; 18 hours of upper-division European history, 9 of which must be selected from HIST 411, 412, 413, 414, 416; 9 hours of upper-division U.S. and non-Western history, including a minimum of 3 hours of each.

To complete the program, a total of 44 hours is required, including a minor, second major, or other approved program and general electives. At least 21 hours of these courses must be at the junior-senior level.

**Minor in History**

The minor requires 21 hours, including 221-222 or 231-232 and 15 hours of junior-senior history electives.

**Interdisciplinary Minor in Appalachian Studies**

The minor requires 21 hours, including ASI 250 and 450, and electives from ANTH 417, 473, BIOL 251, HIST 445 and 446.

**DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE**

*Harold Williford, Head*


**Major in Computer Science, B.S. Degree**

General education, 41 hours

Program requirements, 17 hours: MATH 145, 146; 8 hours selected from one of the following groups: BIOL 130, 131 or CHEM 132, 133 or CHEM 140, 232 or GEOL 150, 155, or PHYS 230, 231; 3 hours selected from one additional natural science course.

The major requires 42 hours as follows: 150 Problem Solving and Programming, 3 hours
151 Data Structures, 3 hours
250 Introduction to Computer Systems, 3 hours
303 Digital Logic, 3 hours
310 Discrete Structures, 3 hours
350 Introduction to Computer Organization, 3 hours
351 Introduction to Algorithms, 3 hours
352 Organization of Programming Languages, 3 hours
360 Theory of Computation, 3 hours
370 Operating Systems, 3 hours
479 Capstone, 2 hours
MATH 153 Calculus I, 4 hours
MATH 254 Matrix Theory, 3 hours
MATH 270 Statistical Methods I, 3 hours

To complete the program of study, one of the following is required:

1. 12 additional hours of computer science courses selected from CS 301, 304, 320, 340, 361, 389, 393, 441, 443, 451, 452, 453, 455, 460, 462, 463, 464, 465, 480, 493 and MATH 350, and 16 additional hours of general electives, or

2. a total of 28 additional hours, including a second major, minor, or other approved program.

**Major in Mathematics, B.S. Degree**

General education, 41 hours

Program requirements, 15 hours: CS 130 or CS 150; PHYS 230, 231; BIOL 130 or 131 or CHEM 135 or GEOL 150 or 155

The major requires 37 hours in core courses as follows:

153, 255, 256 Calculus I, II, III, 12 hours
250 Introduction to Logic and Proof, 2 hours
262 Introduction to Linear Algebra, 3 hours
310 Discrete Structures, 3 hours
320 Ordinary Differential Equations, 3 hours
361 Introduction to Abstract Algebra, 3 hours
370 Statistical Theory I, 3 hours
422 Advanced Calculus I, 3 hours
479 Capstone: Seminar, 2 hours

Mathematics elective (3 hours) selected from 423, 461, 462, 470

To complete the program, one of the following is required:

1. 18 additional hours selected from MATH 331, 350, 375, 393, 411, 412, 423, 441, 461, 462, 470, and 17 hours of general electives, including a minimum of 13 hours at the junior-senior level, or

2. a total of 35 hours, including a second major, minor, or other approved program, and at least 12 hours of general electives. Of the total hours, 31 must be at the junior-senior level. In lieu of a second major or minor, students may choose to complete the professional education sequence and approved electives leading to teacher certification.

**Major in Mathematics, B.S.Ed. Degree**

General education, 41 hours

Program requirements, 11 hours: CS 130 or CS 150; and PHYS 230-231

The major requires 41 hours as follows:

153, 255, 256 Calculus I, II, III, 12 hours
250 Introduction to Logic and Proof, 2 hours
262 Introduction to Linear Algebra, 3 hours
270 Statistical Methods I, 3 hours
300 Problem Solving, 2 hours
310 Discrete Structures, 3 hours
361 Introduction to Abstract Algebra, 3 hours
411 Foundations in Geometry, 3 hours
422 Advanced Calculus I, 3 hours
479 Capstone: Seminar, 2 hours
Math electives (5 hours) selected from 370, 386, 412, 423, 461, 462, 470

The professional education sequence (28 hours) for secondary and special subject teaching and 7 hours of general electives (5 hours at the junior-senior level) are required to complete the program.

Minor in Computer Science

The minor requires 18 hours, including CS 150, 151, 250; and 9 hours of other CS courses numbered above 250.

Minor in Mathematics

The minor requires 20 hours, including MATH 153, 255, and 12 hours selected from: any mathematics courses numbered 250 or higher, CS 340.

Computer Education Endorsement

An endorsement in computer education (18 hours) can be obtained if the individual holds a license in another teaching area. A listing of the course requirements for the endorsement is available in the office of the Dean of the College of Education and Allied Professions.

DEPARTMENT OF MODERN FOREIGN LANGUAGES
Suzanne Moore, Head


Majors in French, German, and Spanish, B.A. Degree

General education, 41 hours. It is strongly recommended that students who choose to take a foreign language to meet part of this requirement take a course in a foreign language other than their major.

Each major requires 33 hours as follows:
231-232 or 240 Intermediate French, German, or Spanish I and II; or Intensive French, German, or Spanish II, 6 hours
301 French, German, or Spanish Composition, 3 hours
302 Conversational French, German, or Spanish, 3 hours
310, Introduction to French, German, or Spanish Prose and Poetry, 3 hours
321, 322 French or German, I or II; Spanish Civilization; or Latin American Civilization, 6 hours
331, 332 Survey of French, German, or Spanish Literature I, II, 6 hours
351 French, German, or Spanish Phonetics and General Linguistics, 3 hours
Literature elective in the major (3 hours) selected from senior courses

To complete the program, a total of 54 hours is required, including a minimum of 18 hours of general electives, appropriate credits at the junior-senior level, and a minor, second major, or other approved program.

Majors in French, German, and Spanish, B.S.Ed. Degree

General education, 41 hours. It is strongly recommended that students who choose to take a foreign language to meet part of this requirement select a course in a foreign language other than their major.
Each major requires 33 hours as follows:
231-232 or 240 Intermediate French, German, or Spanish I and II; or Intensive French, German, or Spanish II, 6 hours.
301 French, German, or Spanish Composition, 3 hours
302 Conversational French, German, or Spanish, 3 hours
321, 322 French or German, I or II; Spanish Civilization; or Latin American Civilization, 6 hours
351 French, German, or Spanish Phonetics and General Linguistics, 3 hours
451 Advanced Grammar, 3 hours
452 Advanced Conversation, 3 hours
Literature electives (6 hours) selected from FREN 310, 331, 332; GERM 310, 331, 332; SPAN 310, 331, 332, 333 in the major.
The professional education sequence (28 hours) for special subject teaching and general electives (23 hours), including at least 3 hours at the junior-senior level, and EDEL 312 are required to complete the program.

Minors in French, German, and Spanish
Each minor requires 21 hours, including 231-232 or 240, 301, 302, and 9 hours of junior-senior electives. 303 does not count toward the minor.

DEPARTMENT OF MUSIC
Robert Kehrberg, Head
To major in music, students must pass an applied music audition in the performance principal area and take a music aptitude examination.
All music majors must demonstrate the required level of piano proficiency for graduation in their chosen curriculum or elect piano every semester until the required proficiency is attained. Each student must prepare a junior qualifying examination or recital in the principal applied area for approval by the appropriate faculty committee before a degree will be granted. All students on the B.S.Ed. and B.A. Applied Emphasis degree plans must prepare a senior performance examination or recital in the principal applied area for approval by the appropriate faculty committee.

Major in Music, B.A. Degree
General education, 41 hours
Program requirements, 6 hours: MFL 231-232 or 240
The major requires 40 hours as follows:
152, 153 Aural Skills Laboratory I, II, 2 hours
178 Beginning, Theoretical and Analytical Skills, 4 hours
252 Aural Skills Lab III, 1 hour
277, 278 Theory and Literature I, II, 6 hours
350, 351 Music History I, II, 6 hours
428 or 429 Choral or Instrumental Conducting, 3 hours
Principal performing medium, a minimum of 8 hours and completion of the junior qualifying examination.
Applied music electives excluding ensembles (piano required unless it is the principal), 4 hours.
Major ensemble, 6 hours
To complete the program, 41 hours, including a minimum of 24 hours at the junior-senior level, are required. One of the following options or concentrations must be completed: Concentration: Applied Emphasis; must include 420 or 425 (3 hours), 305 (1 hour), 405
(1 hour), and junior- and senior-level applied principal (8 hours); 28 elective hours to include 12 hours exclusive of music courses.

**Music Industry Option:** ACCT 161; MKT 301; CIS 251; BA 133; LAW 230; MGT 300; MUS 378; 9 hours in MUS 489; 11 hours electives.

**Minor, second major, or approved program, 41 hours.**

Cooperative education may not exceed 6 hours.

**Majors in General and Instrumental Music, B.S.Ed. Degree**

General education, 41 hours

The major requires 58 hours, including a 33-hour core and 25 hours in general or instrumental music as follows:

- 152, 153 Aural Skills Laboratory I, II, 2 hours
- 168 String Class I, 1 hour
- 169 Classroom Guitar Technique, 1 hour
- 178 Beginning, Theoretical and Analytical Skills, 4 hours
- 252 Aural Skills Lab III, 1 hour
- 277, 278 Theory and Literature I, II, 6 hours
- 283 MIDI/Synthesis Class, 1 hour
- 350, 351 Music History I, II, 6 hours
- 428 or 429 Choral or Instrumental Conducting, 3 hours
- 470 Orchestration and Arranging, 2 hours

Major ensemble, 6 hours

Concentration selected from:

**General Music:** 258, 259, 279, 327, and 14 hours in one area selected from piano or organ or voice, including completion of the 442 level of proficiency in piano, the 446 level in organ, or the 456 level in voice. Keyboard principals also complete 158 and 3 hours in the secondary keyboard instrument. Voice principals also complete 4 hours in piano.

**Instrumental Music:** 158, 270, 271, 272, 273, 274, 326; 0-4 hours in piano, piano class or applied secondary electives; and 12 hours in the instrumental principal, including completion of the 300-level of proficiency. If the principal is a keyboard instrument, 3 hours in one secondary applied wind instrument or in percussion in lieu of piano class also are required. Band will be considered the major ensemble for keyboard principals in the instrumental curriculum.

The professional education sequence (25 hours) for secondary and special teaching, excluding EDSE (Methods), plus Music 325 and 1 hour of general electives, are required to complete the program.

**Minor in Music**

Precollege musical experience and formal training and permission of the head of the music department are required to enroll in the minor. The minor requires 22 hours, including 152, 153, 178, 277, 278 or 351; 4 hours of applied music in voice or an instrument; 4 hours in a major ensemble, and 2 hours of electives.

**NATURAL RESOURCES MANAGEMENT PROGRAM**

*Lawrence G. Kolenbrander, Program Coordinator*

*Peter C. Bates*

**Major in Natural Resources Management, B.S. Degree**

General education, 41 hours
Program requirements, 11 hours: CHEM 132; MATH 170, 171; MGT 300

The major requires 64 hours, including 43 hours in core courses and a 21-hour concentration:

- BIOL 130 General Botany, 4 hours
- BIOL 131 General Zoology, 4 hours
- BIOL 232 General Ecology, 3 hours
- GEOG 150 Environmental Geography, 3 hours
- GEOG 305 Soils and Hydrology, 4 hours
- GEOG 324 Introduction to Remote Sensing, 4 hours
- GEOG 402 Conservation of Natural Resources, 3 hours
- MATH 130 College Algebra, 3 hours
- NRM 340 Natural Resource Measurements, 4 hours
- NRM 342 Computer Applications in NRM, 1 hour
- NRM 344 Introduction to Geographic Information Systems, 3 hours
- NRM 440 Integrated Resource Management, 4 hours
- NRM 442 Natural Resource Policy and Administration, 3 hours

Concentration, 21 hours, selected from:

- **Forest Resources**: BIOL 254, ECON 310, NRM 351, 352, 451, 452.
- **Water Resources**: BIOL 413, 414, 435, 476; CHEM 133, 330, NRM 460.
- **Land Use Planning**: GEOG 320, 350, 460, 462, 464, and 6 hours at the junior-senior level in economics, management, and geography.

General electives (12 hours), including at least 2-6 hours at the junior-senior level, are required to complete the program.

**ASSOCIATED AREA OF PHILOSOPHY AND RELIGION**

*J. McLachlan, Program Coordinator*

*D. Hale, Michael Jones*

**Major in Philosophy, B.A. Degree**

General education, 41 hours

Program requirements, 6 hours: MFL 231-232 or 240

The major requires 30 hours. Only grades of C (2.0) or higher in philosophy courses will satisfy requirements for the major. The following courses are required:

- 231 Introduction to Ethics, 3 hours
- 304 Ancient Philosophy, 3 hours
- 306 Modern Philosophy, 3 hours
- 307 Nineteenth-Century Philosophy, 3 hours
- 493 Seminar in Philosophy, 3 hours

Philosophy electives at the junior-senior level, 12-15 hours

A logic requirement must be satisfied by passing either the logic examination or PHIL 232, Introduction to Symbolic Logic. To complete the program, a total of 51 hours is required, including a minor, second major, or other approved program, and at least 12 hours of general electives. Twenty-four to twenty-seven hours of these courses must be at the junior-senior level.

**Minor in Philosophy**

The minor requires 18 hours, including 231, 232, and 12 hours of electives selected from junior-senior philosophy/religion courses, or PSC 345 and 346.
**DEPARTMENT OF POLITICAL SCIENCE AND PUBLIC AFFAIRS**

*C. Don Livingston, Head*

*Gordon Mercer, Director of M.P.A.*

*A. Hayes, C. Stevens, K. Wink*

**Major in Political Science, B.A. Degree**

General education, 41 hours

Program requirements, 6 hours: MFL 231-232 or 240

The major requires 33 hours as follows:

- 231 American Government and Politics, 3 hours
- 302 or 303 Problems and Policies of American Government or State and Local Government, 3 hours
- 315, 316, or 318 European Political Systems; Politics of Developing Areas; or Soviet Political Systems, 3 hours
- 331 or 332 International Politics or International Organization, 3 hours (331 is required for the concentration in international relations)
- 345 or 346 Ancient and Medieval Political Thought or Modern Political Thought, 3 hours
- Electives, cooperative education, or internship in the area of the concentration, 6 hours

Concentration (12 hours) selected from:

- **General Political Science:** Electives at the junior-senior level.
- **Public Administration:** 304; 6 hours selected from 307, 336, and 421; and 6 hours of junior-senior electives.
- **International Relations:** 6 hours selected from 332, 333, 334, 335, and 6 hours of junior-senior electives.
- **American Political Institutions:** 6 hours selected from 305, 306, 407, 494, and 6 hours of junior-senior electives.

To complete the program, a total of 48 hours is required, including at least 18 hours of general electives and a minor, second major, or other approved program. At least 27 hours of the courses selected must be at the junior-senior level.

**Major in Political Science, B.S. Degree**

Program requirements (4 hours) include MATH 170, 171 instead of a foreign language. The remainder of the requirements are the same as those stated above in the Bachelor of Arts degree program.

**Minor in Political Science**

The minor requires 21 hours in political science, including 231, 315, and 15 hours of junior-senior electives.

**SOCIAL SCIENCE PROGRAMS**

*James A. Lewis, Coordinator*

**Major in Social Sciences, B.A. Degree**

General education, 41 hours
Program requirements, 6 hours: MFL 231-232 or 240

The major requires 39 hours as follows:
HIST 221, 222 European History, 6 hours
Two of the following four groups: ECON 231-232, GEOG 150-350, PSC 231-315, SOC 231-ANTH 260

Advanced electives (21 hours) including at least 6 hours in each of three areas: American history, anthropology, economics, foreign history, geography, political science, sociology.

To complete the program, a total of 42 hours is required, including a minimum of 18 hours of general electives and a minor, second major, or other approved program. At least 30 hours of the courses taken must be at the junior-senior level, to meet the 40 percent rule (see General University Degree Requirements).

**Major in Social Sciences, B.S. Degree**

All of the requirements for the degree are the same as those listed for the Bachelor of Arts program except that MATH 170 (3 hours) and MATH 171 (1 hour lab) are required; a foreign language is not required; and electives are increased by 2 hours.

**Major in Social Sciences, B.S.Ed. Degree**

General education, 41 hours

Program requirements, 9 hours: 6 hours in a foreign language exclusive of courses taken to meet general education requirements; CMCR 250.

The major requires 48 hours as follows:
PSY 250 General Psychology, 3 hours
GEOG 102 World Regional Geography, 3 hours
ANTH 260 Cultural and Social Anthropology, 3 hours
HIST 221, 222 European History, 6 hours
HIST 231 American History to 1865, 3 hours
HIST 232 American History Since 1865, 3 hours
PSC 231 American Government and Politics, 3 hours
SOC 231 Principles of Sociology, 3 hours
ECON 130 Survey of Economics, 3 hours

Advanced electives (18 hours) in two social sciences selected so that 12 hours are taken in one discipline and 6 hours in another.

The professional education sequence (28 hours) for secondary and special subject teaching and general electives (2 hours) are required to complete the program.

**DEPARTMENT OF SOCIAL WORK AND SOCIOLOGY**

*Terry L. Gibson, Head*


**Major in Social Work, B.S. Degree**

General education, 41 hours

Program requirements, 12 hours: SOC 231, PSY 250, MATH 170, PSC 231 or 302 or 303

The major requires 55 hours. Only grades of C (2.0) or higher in required and elective social work courses will satisfy requirements for the major. The following courses are required:
151 Introduction to Social Work, 3 hours
251 Social Welfare Policy and Programs, 3 hours
253 Foundations of Social Work Practice, 3 hours
334 Human Behavior and the Social Environment I, 3 hours
335 Social Work Research and Evaluation, 3 hours
Human Behavior and the Social Environment II, 3 hours
Social Work Practice I, 3 hours
Social Work Practice II, 3 hours
Social Welfare Policy: Issues and Analysis, 3 hours
Field Practicum, 12 hours
Field Practicum Seminar, 4 hours

12 hours of junior-senior level social work/sociology electives—12 hours chosen from social work courses or 9 hours chosen from social work courses and 3 hours chosen from sociology courses.

General electives (20 hours), including at least 5 hours at the junior-senior level, are required to complete the program.

Major in Sociology, B.A. Degree
General education, 41 hours
Program requirements, 6 hours: MFL 231-232 or 240

The major requires 33 hours. Only grades of C (2.0) or higher in required courses will satisfy requirements for the major. The following courses are required:

Principles of Sociology, 3 hours
Methods of Social Research, 3 hours
Analysis of Social Data, 3 hours
Sociological Theory, 3 hours

Electives (21 hours) to complete a general sociology emphasis selected from junior-senior sociology courses.

To complete the program, a total of 40 hours is required, including at least 18 hours of general electives and a second major, minor, or approved program. At least 18 hours of the courses taken must be at the junior-senior level.

Major in Sociology, B.S. Degree
All the requirements are the same as described above for the Bachelor of Arts degree, except that a foreign language is not required and a total of 46 hours are required to complete the degree. At least 18 hours of the courses taken must be at the junior-senior level.

Minor in Sociology
The minor requires 21 hours, including SOC 231 and 18 hours of junior-senior electives.

Minor in Social Change
See requirements under Arts and Sciences Interdisciplinary Programs.

Minor in Race, Ethnic, and Gender Relations
See requirements under Arts and Sciences Interdisciplinary Programs.

Interdisciplinary Minor in Women’s Studies
The minor requires 18 hours, including ASI 230, ENGL 477, HIST 451, SOC 326, and electives from ANTH 419, NSG 360, PSY 333, SOC 327, SOC 328, PSC 351, CMHC 414, and appropriate topics from ANTH 481, PSY 480, SOC 480, and CMPR 493.
COLLEGE OF BUSINESS

Ronald E. Shiffler, Dean
Lynn R. Heinrichs, Associate Dean

Purpose

The College of Business is committed to excellence in teaching, learning, research, and service. The college serves the educational needs of undergraduate and graduate students in accordance with the resources available to implement a relevant curriculum. Graduates are prepared to make an immediate and continuing contribution to today’s business. They possess the curiosity and flexibility to learn and adapt in a changing environment.

Teaching

The college emphasizes teaching that reaches a wide range of students with differing skills and cultural backgrounds. Faculty members are sensitive to the educational needs of students and are dedicated to their academic development. Teaching, the college’s most important endeavor, focuses on helping students compete in a global environment.

Research

The faculty generates creative, applied, historical, and instructional research to advance scholarship. Intellectual contributions are reviewed and utilized by peers.

Service

The college provides service to Western Carolina University and to constituencies in North Carolina, the United States of America, and other nations. Professional commitments and interactions with external organizations are encouraged.

Culture

The college is dedicated to an environment of professional and academic integrity, mutual respect, and ethical behavior. Individual freedom, equal opportunity, and responsible citizenship are enduring values. All individuals are encouraged to strive for continuous self-improvement as appropriate to their needs, talents, and stage of development.

Programs of study include: Bachelor of Science in Business Administration, Bachelor of Science, Master of Business Administration, and Master of Project Management and Master of Accountancy. All degree programs are provided in Cullowhee. Graduate programs are also available in Asheville.

Admission to B.S.B.A. Programs.* Acceptance and registration in business administration courses or the declaration of intent to complete a business major do not guarantee admission to the Bachelor of Science in Business Administration programs. A student is not officially in the college until admitted as a candidate for the degree in a major program.

A student may be admitted to a degree program after completing a minimum of 30 hours at Western Carolina University with a 2.0 GPA on hours attempted. Applicants transferring directly from another accredited institution must have a 2.0 GPA on all work attempted at the previous institution. Transfer students who complete courses at the university before applying for admission to the College of Business must have a 2.0 GPA on hours attempted. If less than 30 hours have been attempted at Western, a 2.0 GPA on hours attempted both at Western and at the other institutions is required.

Consistent with the policy on transfer of coursework, at least 30 semester hours of courses must be taken in the College of Business at Western Carolina University toward the B.S.B.A. or B.S. degree.

Application for graduation may be filed with the dean upon completion of 80 hours but must be filed no later than one month before the final semester of enrollment.

* Students seeking a Bachelor of Science in Education degree with a major in business education must meet requirements of the College of Education and Allied Professions for admission to the professional sequence.
The Bachelor of Science in Business Administration Degree. This degree program requires the following:

- General Education 41 hours
- Foundation of Knowledge for Business 45 hours
- Major Program of Study in Business 21 hours
- Elective Courses 13 hours

Minimum requirements for B.S.B.A. Degree 120 hours

A minimum GPA of 2.00 is required in the major is required for graduation. The major comprises 45 hours in Foundation of Knowledge and 21 hours in the Major Program of Study for a total of 66 hours.

Foundation of Knowledge for Business courses are:

- ACCT 251, 252 Accounting Principles I, II, 6 hours
- BA 404 Strategic Management, 3 hours
- CIS 251 Management Information Systems, 3 hours
- ECON 231, 232 Microeconomics and Macroeconomics, 6 hours
- ECON 235 Statistics, 3 hours
- FIN 305 Financial Management, 3 hours
- LAW 230 Legal Environment of Business, 3 hours
- MATH 130 College Algebra, 3 hours
- MGT 300 Introduction to Management, 3 hours
- MGT 305 Quantitative Business Analysis, 3 hours
- MGT 306 Behavioral Science in Organizations, 3 hours
- MKT 301 Principles of Marketing, 3 hours
- OA 304 Business Communications, 3 hours

At least 51 hours must be taken in coursework outside the College of Business. Courses taken within the College of Business to fulfill general education requirements may be counted as meeting this requirement.

Appropriate prerequisites must be completed and at least 56 hours are required for enrollment in all courses numbered 300 or above in the College of Business.

The B.S.B.A. degree program in international business will remain at 128 hours because of multiple college instructional agreements.

Second Major in Business Administration. The requirements for a second major in business administration are identical with the Foundation of Knowledge for Business courses previously identified. Substitutions may be made only with the approval of the dean of the College of Business.

DEPARTMENT OF ACCOUNTING AND INFORMATION SYSTEMS

Philip L. Little, Acting Head


Major in Accounting, B.S.B.A. Degree

General education, 41 hours

Foundation of Knowledge for Business, 45 hours

The following 21 hours in the major:

- 275, 352, 353 Intermediate Accounting I, II, III, 9 hours
- 355 Income Tax I, 3 hours
- 356 Cost Accounting I, 3 hours
- 454 Auditing I, 3 hours
- 475 Advanced Accounting Projects, 3 hours
General electives (13 hours), including at least 9 hours at the junior-senior level.

**Major in Computer Information Systems, B.S.B.A. Degree**

General education, 41 hours

Foundation of Knowledge for Business, 45 hours

The following 21 hours in the major:

- 256 Business Computer Programming, 3 hours
- 258 Applications Development I, 3 hours
- 358 Applications Development II, 3 hours
- 365 Computer Architecture, Communications, and Operating Systems, 3 hours
- 453 Data Base Management Systems, 3 hours
- 455 Computer Information Systems Analysis and Design, 3 hours
- 465 Information Resource Management, 3 hours

General electives (13 hours), including at least 12 hours at the junior-senior level.

**DEPARTMENT OF BUSINESS ADMINISTRATION, LAW, AND MARKETING**

*Le Von Wilson, Acting Head*


**Major in Business Education, B.S.Ed. Degree**

General education, 41 hours

Program requirements, 3 hours: MATH 130

The major in business education, which includes a disciplinary focus area in economics, requires 57 hours as follows:

- ACCT 251, 252 Accounting Principles I, II, 6 hours
- BA 404 Strategic Management, 3 hours
- ECON 231, 232 Introductory Micro and Macroeconomics, 6 hours
- ECON 235 Statistics, 3 hours
- FIN 305 Financial Management, 3 hours
- LAW 230 Legal Environment of Business, 3 hours
- MGT 300 Introduction to Management, 3 hours
- MGT 305 Quantitative Business Analysis, 3 hours
- MGT 306 Behavioral Science in Organizations, 3 hours
- MKT 301 Principles of Marketing, 3 hours
- OA 300 Word Processing, 3 hours
- OA 304 Business Communications, 3 hours
- OA 340 Information Processing Systems, 3 hours
- OA 402 Administrative Management and Policy, 3 hours

Three upper-level electives in economics, 9 hours

The professional education sequence (27 hours) for secondary and special subject teaching is required to complete the program. NOTE: This program requires a minimum of 128 hours.

**Major in Business Administration and Law, B.S.B.A. Degree**

General education, 41 hours

Foundation of Knowledge for Business, 45 hours

The following 21 hours in the major:
LAW 331, 332 Business Transactions I, II, 6 hours  
LAW 415 Legal Aspects of Business Management, 3 hours  
Electives (12 hours) selected from the following:  
Select 3 hours from the following theory courses: LAW 302, 305, 405, 412, 480  
Select 6 hours from the following applied courses: LAW 303, 315, 320, 389, 393, 403, 410, 440, 483, 484, 485 (with no more than 3 hours total from LAW 483-484-485)  
Select 3 hours from any law course (with no more than a total of 3 hours from the entire 21 hours from LAW 483-484-485)  
General electives (13 hours), including at least 6 hours at the junior-senior level.  

Major in Marketing, B.S.B.A. Degree  
General education, 41 hours  
Foundation of Knowledge for Business, 45 hours  
The following 21 hours in the major:  
302 Marketing Communications, 3 hours  
303 Marketing Research, 3 hours  
304 Consumer Behavior, 3 hours  
405 Marketing Management, 3 hours  
Marketing electives (9 hours) selected from 306, 403, 404, 406, 407, and 409.  
General electives (13 hours), including at least 6 hours at the junior-senior level.  

Major in Office Administration, B.S.B.A. Degree  
General education, 41 hours  
Foundation of Knowledge for Business, 45 hours  
The following 21 hours in the major:  
300 Word Processing, 3 hours  
340 Information Processing Systems, 3 hours  
393 Topics in Office Administration or approved elective, 3 hours  
401 Office Systems and Simulations, 3 hours  
402 Administrative Management and Policy, 3 hours  
403 Business Research and Reports, 3 hours  
483 Internship or approved elective, 3 hours  
General electives (13 hours), including at least 6 hours at the junior-senior level.  

Minor in Business Law  
The minor, open to nonbusiness majors only, requires 18 hours, including Law 230, two theoretical upper-level law courses (from Law 302, 305, 405, 412, or 415) and three applied upper-level law courses (from Law 303, 315, 320, 331, 332, 403, 410, or 440).  

*Minor in Marketing  
The minor, which is open to nonbusiness majors only, requires 21 hours including ECON 231, MKT 301, MKT 405 and 12 hours of marketing electives at the junior-senior level approved by the department head.  
*Depending on the electives selected, course prerequisites may add additional hours. Please check the catalog description for specific requirements.
DEPARTMENT OF ECONOMICS, FINANCE, AND INTERNATIONAL BUSINESS

John Wade, Acting Head

Major in Economics, B.S.B.A. Degree
General education, 41 hours
Foundation of Knowledge for Business, 45 hours
The following 21 hours in one of the two following concentrations:
Business Economics: 302, 303, 304, and 12 hours in junior-senior economics electives approved by the adviser.
Entrepreneurial Studies: LAW 331; MGT 401; MKT 403, 404; CIS 466; FIN 409; approved FIN or ECON elective.
General electives (13 hours), including at least 6 hours at the junior-senior level.

Major in Finance, B.S.B.A. Degree
General education, 41 hours
Foundation of Knowledge for Business, 45 hours
The following 21 hours in one of the two following concentrations:
Corporate Finance: ECON 303; FIN 405, 495; ACCT 301; 9 hours of electives selected from FIN 325, 335, 406, 407, 409, 483, 484, 485; ACCT 275, 352, 356; ECON 302, ECON 304
Financial Planning: ECON 303; FIN 300, 335, 400, 406, 496; 3 hours of electives selected from LAW 403; FIN 302, ACCT 355, 356; FIN 325; ECON 304; FIN 483, 484, 485
General electives (13 hours), including at least 6 hours at the junior-senior level.

Second Major in Economics
The second major, which is open only to nonbusiness majors, requires 33 hours as follows:
231 Introductory Microeconomics and Social Issues, 3 hours
232 Introductory Macroeconomics and Social Issues, 3 hours
235 Statistics, 3 hours
303 Money, Financial Markets, and Economic Policy, 3 hours
ACCT 251, 252 Accounting Principles I, II, 6 hours
MGT 300 Introduction to Management, 3 hours
LAW 230 Legal Environment of Business, 3 hours
Economics electives (9 hours) at the junior-senior level

Minor in Economics
The minor, which is open only to nonbusiness majors, requires 18 hours including 231, 232, 235, 303, and 6 hours of economics electives at the junior-senior level.

Major in International Business, B.S.
General education, 41 hours
Foundation of Knowledge for Business, 45 hours

One year (6 hours) of modern foreign language from FREN, GERM, or SPAN 231, 232, or 240.

The following 24 hours in the major:

ECON 309 International Economics, 3 hours
MGT 301 International Management, 3 hours
Two courses chosen from the following:
FIN 407 International Finance, 3 hours; LAW 320 Multinational Corporate Law, 3 hours;
MKT 407 International Marketing, 3 hours; BA 304 Business Communication in a Multicultural Environment, 3 hours; PSC 331 International Politics, 3 hours.

Electives (12 hours) selected from at least three different disciplines listed below:
ANTH 260 Cultural and Social Anthropology, 3 hours
ANTH 327 Economy and Society, 3 hours
ECON 401 Comparative Economic Systems, 3 hours
ECON 406 International Economic Development, 3 hours
GEOG 350 Economic Geography, 3 hours
GEOG 440 Topics in Regional Geography: Europe, 3 hours
GEOG 444 Political Geography, 3 hours
HIST 317 History of 20th-Century International Relations, 3 hours
HIST 411 Western Imperialism, 3 hours
HIST 416 Europe in the 20th-Century, 3 hours
MFL 321 or 322, French, German, or Spanish Civilization, 3 hours
PSC 315 European Political Systems, 3 hours
PSC 316 Politics of Developing Areas, 3 hours
PSC 332 International Organization, 3 hours
PSC 333 International Law, 3 hours
PSC 335 Problems in World Politics, 3 hours
PSC 436 Dynamics of World Order, 3 hours
SOC 434 Regional and Societal Development, 3 hours

General electives (12 hours) including at least 9 hours at the junior-senior level outside the College of Business. NOTE: This program requires a minimum of 128 hours.

The minimum GPA applies to the 69 hours which includes the Foundation of Knowledge and major.

DEPARTMENT OF MANAGEMENT
Jerry Kinard, Head
J. Adams, W. Kane, T. Kinnear, B. Little, G. Mechling, S. Owens, J. Pearce, R. Routhieaux

Major in Management, B.S.B.A. Degree

General education, 41 hours

Foundation of Knowledge for Business, 45 hours

The following 21 hours in the major:

304 Human Resource Management, 3 hours
401 Small Business Management, 3 hours
402 Production and Operations Management, 3 hours
495 Seminar in Management, 3 hours
Electives (9 hours) selected from 301, 302, 400, 405 and 407

General electives (13 hours), including at least 6 hours at the junior-senior level.

The minimum GPA requirements applies to the 69 hours which includes the Foundation of Knowledge and major.
Minor in Management

The minor, open to nonbusiness majors only, requires 18 hours including MGT 300, 304, 306, and 9 hours of approved management electives.
The College of Education and Allied Professions seeks to prepare professional personnel for the schools and colleges of the state and region and for other educational and service agencies. It coordinates all teacher education curricula at the university and provides services to individuals, schools, and regional educational and professional agencies. It undertakes continuous evaluation to assure curricula and professional services of high quality and coordinates the screening, selection, and counseling of students pursuing programs of study in the school.

The Bachelor of Science and Bachelor of Science in Education degrees are awarded upon completion of the undergraduate programs offered in the college. The Bachelor of Science degree is awarded in psychology, sport management, recreational therapy, and parks and recreation management. The Bachelor of Science in Education degree is normally awarded to those completing a teacher education program. Students may pursue programs leading to the Bachelor of Arts or Bachelor of Science degrees simultaneously with a program in teacher education but must fulfill all requirements of an approved teacher education program. An endorsement in computer education (18 hours) can be obtained if the individual holds a license in another teaching area.

The Teacher Education Program

Admission and retention policies in teacher education programs are based on the standards and guidelines of the State of North Carolina and the National Council for Accreditation of Teacher Education (NCATE). Approved institutions must have established procedures for implementing decisions regarding admission to, and retention in, teacher education programs. The state and NCATE guidelines require continuous evaluation of students admitted to teacher education programs and states that those found unlikely to succeed as teachers should be withdrawn.

Disciplinary Focus Area. A disciplinary focus area is a twenty-four hour course of study in an academic discipline required of education students enrolled in a B.S.Ed. program in communication disorders, business, elementary, middle grades, physical education, or special education. The disciplinary focus areas available are the following: Anthropology, Art, Biology, Economics, English, French, Geography, Geology, German, History, Mathematics, Philosophy, Political Science, Psychology, Sociology, Spanish, Speech, and Theatre. A disciplinary focus area declaration form must be completed and filed in the dean's office. A listing of the course requirements for each disciplinary focus area is available in the Office of the Dean, College of Education and Allied Professions.

Admission to the Teacher Education Program. Acceptance and registration in a department do not guarantee admission to the teacher education program in that department. A student is not officially in a teacher education program until approved by the head of the department of the student's major and by the Teacher Education Council. The applicant's fitness for teaching in the chosen area is determined on the basis of demonstrated academic ability and other personal characteristics conducive to effective teaching. A student may be considered suitable in one area and unsuitable in another. Students with speech defects that will interfere with successful teaching may be required to take corrective therapy.

Students who plan to receive a degree in education or a license through Western Carolina University must apply for and be officially admitted to a teacher education program. Students should apply for admission to teacher education during the semester in which they are enrolled in EDCI 231 (BK 260 for B-K majors), a course that is prerequisite to all other courses in the professional education sequence. Application should be made during the advisement and pre-registration weeks of the semester. Application forms are available in
Killian 228. Students must complete all requirements for admission to teacher education prior to earning 90 semester hours. The only course in the professional education sequence that may be taken before being admitted to teacher education is EDCI 231 (BK 260 for B-K majors).

Admission Criteria: All requirements for admission to teacher education must be met by the beginning of the semester following the semester in which the student submitted the application. The following criteria are minimum requirements for admission:

1. completed at least 35 hours of general education requirements;
2. earned a C or higher grade in ENGL 101 and 102. If a student transfers ENGL 102, the student is required to pass the English Proficiency Test. If the student fails the English Proficiency Test, the student is required to earn a grade of C or higher in ENGL 300.
3. completed at least 45 earned hours;
4. earned (and then maintain) a minimum cumulative GPA of 2.50 on hours attempted at WCU;
5. achieved the minimum required scores on the PPST (Reading, Writing, Mathematics). Students should register to take these tests during the first two weeks of the semester in which they apply for admission to teacher education;
6. completed a personal interview and received a satisfactory evaluation from the Professional Education Interview Panel. Students should register for the interview during the first two weeks of the semester in which they apply for admission to teacher education;
7. completed all of the above requirements prior to earning 90 semester hours;
8. submitted the application for Admission to Teacher Education.

Applicants already holding non-teacher education degrees must meet all of the above requirements except they are not required to take the PPST. They must have had a minimum cumulative GPA of 2.50 at the time of graduation.

Students must have maintained satisfactory conduct and citizenship records which are in keeping with the ethics of the teaching profession. A student who is readmitted to the university after dismissal, suspension, or expulsion will not be readmitted to the teacher education program the first term after returning.

Application forms are available in the dean's office. The student should process the application as indicated on the form and file it in the dean's office two weeks before early registration for the term in which admission is sought or by the date designated each term by the dean.

Continuation in the Teacher Education Program. The requirements for continuing in the program are: (1) a GPA of at least 2.50 on hours attempted; (2) behavior which adheres to the code of ethics of the profession; and (3) satisfactory participation in the required professional laboratory program that is prerequisite to student teaching. An evaluation of each field experience assignment will become a part of the student's professional record.

If a student fails any course in the professional education sequence twice, the student is withdrawn from teacher education.

Course Requirements in the Program. The teacher education program requires a professional education sequence of nine to twenty-eight hours in courses pertinent to teaching in specific areas and at various levels. All courses in the sequence except student teaching and the student-teaching seminar must be completed before admission to student teaching. The courses in the sequence are determined by the student's major:

*Communication Disorders*, 9 hours: EDCI 231; PSY 320, 321.

*Elementary and Middle Grades*, 23 hours: EDCI 231; PSY 320, 321; SPED 335; EDEL 490, 495.

*Special Education*, 21 hours: EDCI 231; PSY 320, 321; SPED 490, 495.
Secondary and Special Subject Teaching, 27-28 hours: EDCI 231; PSY 320, 321; SPED 335; EDRD 323; *Methods, EDSE 490, 495.

*Students majoring in biology, social sciences, take EDSE 322. Other students take the special methods course offered in their major department.

Field Experience Requirement. The teacher education program requires field experiences in conjunction with several courses in addition to the student-teaching requirement. Students are expected to make their own arrangements for transportation and housing and absorb the costs related to field experiences and student teaching. Each program has different requirements, and students should discuss costs with the program head prior to applying for admission to the teacher education program.

Admission to Student Teaching. Students apply to the director of field experiences early in the semester prior to the semester in which student teaching is to be done. The requirements for admission to student teaching are: (1) enrollment in the professional education sequence for at least two semesters; (2) completion of at least ninety hours in a teacher education curriculum; (3) one term in residence; (4) a GPA of 2.50 or above, both at the beginning of the term immediately preceding the student teaching term and at the time of enrollment in student teaching; (5) completion of at least two-thirds of the major; (6) completion of all records designated by the director of field experiences; (7) removal of conditions placed on the student at the time of admission to the teacher-education program; (8) completion of the applicable professional education sequence except for student teaching and the student teaching seminar; and (9) completion of all competency requirements in the media lab, including computer competencies. Student teaching assignments are made only in school systems within the WCU service area.

Continuation in Student Teaching. To continue in student teaching, students must maintain satisfactory professional conduct and adhere to the policies and regulations of the school to which they are assigned. When recommended by the director of field experiences and approved by the dean, students failing to perform at a satisfactory level may be removed from student teaching.

Requirements for Teacher Licensure
To be eligible for teacher licensure, a student must (1) complete one of the approved teacher-education programs; (2) make a minimum grade of C (2.0) in student teaching; (3) receive a public school recommendation indicating that student teaching was successful; (4) complete applications for licensure and file them with the dean of the College of Education and Allied Professions; (5) receive a recommendation from the head of the department of the teaching major; (6) achieve the minimum score on the PRAXIS Tests; (7) receive a professional recommendation for Class A licensure by the dean of the College of Education and Allied Professions; (8) pay the fee required by the State Board of Education for the issuance of a teacher license.

North Carolina Teaching Fellows
North Carolina Teaching Fellows must complete requirements in addition to those for regular teacher education students.

DEPARTMENT OF ADMINISTRATION, CURRICULUM, AND INSTRUCTION
Donald M. Chalker, Head

Major in Secondary and Special Subject Teaching, B.S.Ed. Degree

Degree requirements are as specified for the respective degree programs in the appropriate departmental sections of this catalog.

The subject areas in which majors are available are:

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Students seeking or holding a degree other than a Bachelor of Science in Education may be admitted to the teacher education program and earn teacher certification. Consult your adviser or department head.

DEPARTMENT OF ELEMENTARY AND MIDDLE GRADES EDUCATION

Lester L. Laminack, Head


Major in Elementary Education, B.S.Ed. Degree

General Education, 41 hours

The major requires 40 hours as follows:
EDEL 303 Literature for Children and Youth, 3 hours
EDEL 312 Elementary School/Methods and Curriculum, 3 hours
EDEL 315 Elementary/Middle Grades Communication Skills, 3 hours
EDEL 316 Elementary/Middle Grades Science, 3 hours
EDEL 317 Elementary/Middle Grades Social Studies, 3 hours
EDEL 318 Elementary/Middle Grades Mathematics, 3 hours
EDEL 390 Practicum in Elementary Education I, 1 hour
EDEL 476 Discipline and Classroom Control, 2 hours
EDRD 334 Reading Instruction in the Elementary School, 3 hours
EDRD 474 Practicum in Teaching Reading, 3 hours
PE 360 Skills in Promoting Healthful Living, 3 hours
MATH 230 Theory of Arithmetic I, 3 hours
MATH 231 Theory of Arithmetic II, 3 hours
MUS 301 Basic Skills, 2 hours
ART 363 Art for Children, 2 hours

In order to complete the program, the following are required:
1. Completion of an approved disciplinary focus area, 24 hours;
2. Completion of the professional education sequence for elementary education majors, 23 hours.

Major in Middle Grades Education, B.S.Ed. Degree

General education, 41 hours

The major requires 18 hours in core courses as follows:
EDEL 310 Middle School Child and Curriculum, 3 hours
EDEL 315 Elementary/Middle Grades Communication Skills, 3 hours
EDEL 390 Practicum I, 1 hour
EDEL 466 Computers in Education, 3 hours
EDEL 476 Discipline and Classroom Control, 2 hours
EDRD 443 Middle Grades Reading, 3 hours
EDRD 474 Practicum in Teaching Reading, 3 hours
In order to complete the program, the following are required:
1. The completion of an approved disciplinary focus area (24 hours);
2. Two concentrations of at least 18 hours, including the appropriate 3-hour methods course, in mathematics and science or social studies and language arts. Work completed in the disciplinary focus area may be counted toward one concentration.
3. The professional education sequence (23 hours) for middle grades education and an elective (1-4 hours).

Reading (K-12) Certification Track

Certification in reading may be earned by students holding or eligible for certification in Elementary Education or Middle Grades Education. The program requires 19 semester hours including EDEL 303; EDEL 467; EDRD 334; EDRD 443; EDRD 453; and EDRD 474. Students holding or eligible for certification in other areas may also obtain certification in reading. For information contact the head of the Department of Elementary and Middle Grades Education.

DEPARTMENT OF HEALTH AND HUMAN PERFORMANCE
David Claxton, Head


Major in Physical Education, B.S.Ed. Degree

General education, 41 hours

The major requires 35-36 hours as follows:
HEAL 250 First Aid and Safety Education, 2 hours
HEAL 312 Comprehensive Health Education, 3 hours
PE 251 Dance Dynamics, 3 hours
PE 261, 262, 263 Skills Acquisition I, II, III, 3 hours
PE 311 Measurement and Evaluation, 2 hours
PE 312 Foundations of Health and Physical Education, 3 hours
PE 345 Elementary Physical Education, 3 hours
PE 335 Anatomy and Physiology, 4 hours
PE 353 Methods and Teaching Analysis of Team and Individual Sports, 3 hours
PE 423 Kinesiology, 2 hours
PE 424 Methods in Adaptive Physical Education, 2 hours
PE 405 Outdoor Leisure Pursuits, 1 hour
PE 425 Exercise Physiology, 2 hours
PE 435 Motor Learning, 2 hours
PE 102 or passing score on Aquatic Proficiency Test, 0-1 hour (Aquatic Proficiency is satisfied by successful completion of PE 261)

In order to complete the program, the following are required:
Disciplinary Focus Area, 24 hours;
Departmental aquatic proficiency test or PE 102.

All majors are encouraged to be active in intramural programs. Juniors and seniors must be in good standing as members of the Physical Education Majors Club. All majors must be active in a varsity sport or serve as an intramural assistant for at least two full years (one year for transfer students with previous varsity experience), or serve as an assistant in the Adult Fitness or Cardiac Rehabilitation program.

The professional education sequence (28 hours) for secondary and special subject teaching.
Major in Parks and Recreation Management, B.S. Degree

General education, 41 hours

Program requirements, 11-12 hours: HEAL 250 or 255; MATH 170; CIS 251; SOC 231

The major requires 52 hours as follows:

PRM 150 Career Opportunities in Parks and Recreation Management, 1 hour
PRM 250 Foundations of Parks and Recreation Management, 3 hours
PRM 254 Intro to Outdoor Pursuits Education (w/lab), 3 hours
PRM 270 Leadership and Group Dynamics in Recreation, 3 hours
PRM 361 Prog. Planning & Eval. in Parks and Recreation Management, 3 hours
PRM 370 Internship Orientation, 1 hour
PRM 383 Internship in Parks and Recreation Management (mini-internships) (1, R3 hours)
PRM 430 Entrepreneurship and Commercial Recreation, 3 hours
PRM 433 Outdoor Recreation, 3 hours
PRM 461 Mgt. and Administration of Parks and Recreation Management Services, 3 hours
PRM 480 Independent Study, 3 hours
PRM 483 Internship in Parks and Recreation Management, 3 hours
or 484, 485
PRM 495 Senior Seminar in Parks and Recreation Management, 1 hour
SM 435 Events and Facilities Management, 3 hours
RTH 253 Activity Skills for Special Populations, 2 hours
ACCT 161 Accounting for the Non-business Major, 3 hours
MKT 301 Principles of Marketing, 3 hours
ENGL 401 Writing for Careers, 3 hours
SM 415 Legal Issues for the Sport Practitioner, 2 hours
SOC 385 Methods of Social Research, 3 hours

Concentrations, at least 12 hours selected from the following:

Program Leadership: SM 315, PRM/SM 330, RTH 360 required; 3 hours selected from PE 353, PRM 420, 440, 434, 435.

Outdoor Leadership and Instruction: PRM 321 required;
Choose Outdoor Pursuits Option or Camping Option
  Outdoor Pursuits Option: PRM 420 required; 6 hours selected from PRM 425, 426, 434, 435, 486 or RTH 470.
  Camping Option: PRM 314 required, 6 hours selected from PRM 313, 425, 426, and RTH 470.

Commercial Recreation and Tourism: PRM 440 required;
Choose Resort Option or Entrepreneur Option or Adventure Tour Option
  Resort Option: 9 hours selected from HM 130, ND 231, PRM/SM 330, HE 493, SM 315, RTH 360.
  Entrepreneur Option: BA 133, MGT 401, PRM 485.
  Adventure Tour Option: 9 hours selected from: PRM 425, 426, 434, 435, and 486.

Recreation Resource Management (12 hours). An approved area of study tailored to suit specific land agencies such as the National Parks Service, Forest Service, Bureau of Land Management, Bureau of Indian Affairs, state parks, and Army Corp of Engineers.

General electives, 12 hours, at least 9 hours at the junior-senior level are required to complete the program.

Minor in Parks and Recreation Management
The minor requires 21 hours, including PRM 150, 250, 270, 461, SM 315, 415, 435, and 3 hours selected from PRM 430, 433 or 440.
Major in Recreational Therapy, B.S. Degree

General education, 41 hours

Program requirements, 14 hours: COUN 430, BIOL 291, 292, CDFR 364

The major requires 57 hours as follows:
RTH 253 Psychomotor Activity Skills, 2 hours
RTH 340 Foundations of Recreational Therapy, 3 hours
RTH 352 Recreational Therapy Processes and Techniques, 3 hours
RTH 360 Recreational Therapy Services for the Elderly, 3 hours
RTH 385 Pre-Internship Seminar, 1 hour
RTH 417 Administration of Recreational Therapy Services, 3 hours
RTH 450 Advanced Methods in Recreational Therapy, 3 hours
RTH 470 Adventure-Based Recreational Therapy, 3 hours
RTH 484 Recreational Therapy Clinical Internship, 6 hours
RTH 485 Recreational Therapy Clinical Internship, 6 hours
PRM 270 Leadership and Group Dynamics in Recreation, 3 hours
PSY 250 General Psychology, 3 hours
PSY 470 Abnormal Psychology, 3 hours
HSCC 220 Medical Terminology, 3 hours
HSCC 330 Legal and Legislative Aspects of Health Care, 3 hours
HSCC 370 Introduction to Pharmacology, 2 hours
HEAL 250 First Aid and Safety Education, 2 hours
ENGL 401 Writing for the Careers, 3 hours
PE 423 Kinesiology, 2 hours

General electives (16 hours) are required to complete the program.

Major in Sport Management, B.S. Degree

General education, 41 hours

Program requirements, 12 hours: ACCT 161 or 251; CIS 293 or 301; ECON 231; CMCR 250

The major requires 62 hours as follows:
Core courses, 41 hours
SM 260 Introduction to Sport Management, 3 hours
SM 313 Psychological Aspects of Sport, 3 hours
SM 380, 383, or 389 Independent Study, Apprenticeship, or Cooperative Education, 1 hour
SM 415 Legal Issues for the Sport Practitioner, 2 hours
SM 423 Sociology of Sport, 3 hours
SM 460 Financial Aspects of Sport, 3 hours
SM 461 Sport Marketing Promotions, 3 hours
SM 484, 485 Internship in Sport Management, 12 hours
SM 495 Sport Management Seminar, 2 hours
MGT 300 Introduction to Management, 3 hours
MGT 304 Personnel Management, 3 hours
MKT 301 Principles of Marketing, 3 hours

Concentration (21 hours) selected from:
Athletic Administration*: SM 213, 315, 435, MKT 302, 304, 306, LAW 315

Athletic Training: HSCC 240; ND 330; PE 423, 425; SM 213, 383, 413, PE 335 or BIOL 291 and BIOL 292

Event and Facility Management and Marketing: MGT 302; MKT 302, 304, 306; SM 330, 435; IET 424

Exercise Science and Fitness Management: CHEM 132, 133; PE 423, 425; ND 330; PE 335 or BIOL 291 and BIOL 292. Two courses selected from the following: PE 104, 105, 114,
115, 116, 118, 261. (Courses selected for general education requirements may not be utilized.)

**Professional Sport Management:** MGT 302, MKT 304, 306, 405; LAW 315; SM 435; and CMPR 360

**Recreational Sport Management:** PRM 254, 270, 461; RTH 253; SM 315, 330, 435; and one credit selected from PE 102 through 129, 204, 207 through 210, 261, 262, 263. (Courses selected for general education requirements may not be utilized.)

**Sales:** ACCT 251; MGT 400; MKT 302, 304, 306; LAW 230; one course selected from SM 380, 383, 389.

**Sports Information:** CMCR 140, 301; CMPM 303, 304, 305, and CMPR 360. Three credits selected from PE 122 or 209, 123 or 210, 223, 225, 262, 263.

General electives (13 hours), including appropriate credits at the junior-senior level, are required to complete the program.

Sport Management majors must have a "C" or better in all SM prefix courses in order to intern and graduate.

*If a student intends to select an internship in coaching, a coaching minor is required.

**Minor in Coaching**

The minor requires 21 hours, including HEAL 250, PE 213, 313, 335, SM 415, and two courses selected from PE 410, 411, 418. The minor is not open to physical education majors.

**Minor in Physical Education**

The minor requires 21 hours, including HEAL 250, PE 312, 325, 345, 353, 435, SM 415, and choice of two from PE 261, 262, 263.

**Minor in Health Education**

This program is on inactive status and no new students are being enrolled.

**DEPARTMENT OF HUMAN SERVICES**

*Billy T. Ogletree, Head*


**Major in Special Education, General, B.S.Ed. Degree**

Students who complete this major are eligible for North Carolina certification in learning disabilities and mental retardation.

General education, 41 hours

Special education major, 36 hours as follows:

240 The Exceptional Child, 3 hours
310 Evaluation of the Exceptional Child, 3 hours
312 Teaching Elementary Children with Learning Problems (K-6), 3 hours
401 Introduction to Learning Disabilities, 3 hours
405 Introduction to Mental Retardation, 3 hours
413 Teaching Adolescents with Learning Problems, 3 hours
417 Managing Classrooms for Exceptional Children, 3 hours
450 Individual Educational Plans for Students with Disabilities, 3 hours
484 Practicum in Special Education, 1 hour
EDEL 318 Elementary/Middle Grades Mathematics, 3 hours
EDRD 474 Practicum in Teaching Reading, 3 hours
Guided electives, 3 hours
The professional education sequence (21 hours), a disciplinary focus area (24 hours), 6 general elective hours, and 50 hours of community service are required to complete the program.

Major in Communication Disorders, B.S.Ed. Degree

This is a preprofessional program. Licensure and certification by the State of North Carolina and the American Speech-Language-Hearing Association require successful completion of a master’s degree. Enrollment in EDCD 485 requires completion of a minimum of twenty-five hours of supervised observation of clinical experience and a cumulative GPA consistent with current program requirements.

General education, 41 hours

The major requires 37 hours as follows:
SPED 240 The Exceptional Child, 3 hours
EDCD 270 Introduction to Communication Disorders, 3 hours
EDCD 301 Speech and Language Development, 3 hours
EDCD 320 The Clinical Process, 3 hours
EDCD 370 Phonetics, 3 hours
EDCD 371 Articulation/Phonological Disorders, 3 hours
EDCD 372 Speech Science, 3 hours
EDCD 450 Introduction to Audiology, 3 hours
EDCD 471 Anatomy and Physiology of the Speech Mechanism, 3 hours
EDCD 474 or 478, Voice Disorders or Fluency Disorders, 3 hours
EDCD 476 Language Disorders in Children, 3 hours
EDCD 485 Clinical Practicum in Communication Disorders, 1 hour
EDCD 495 Seminar in School Practice, 3 hours

Concentration, 24 hours

The professional education sequence requires EDCI 231, PSY 320, and PSY 321, 9 hours.

General electives include 17 hours.

Minor in Special Education

The minor in special education requires 18 hours, including SPED 240, 310, 401, 405, and 6 hours of guided electives.

DEPARTMENT OF PSYCHOLOGY
Mickey Randolph, Head


Major in Psychology, B.S. Degree

General education, 41 hours

The major requires 39 hours as follows:
250 General Psychology, 3 hours
251, 252 Research Methods I, II, 6 hours
495 Senior Seminar in Psychology, 3 hours
Psychology Electives:
Developmental, 3 hours selected from 320, 325, 327
Social, 3 hours selected from 310, 313, 333
Experimental, 3 hours selected from 440, 444, 448, 455
Clinical, 3 hours selected from 363, 430, 441, 470, 474
Others, 15 hours excluding 101, 105

To complete the program, a total of 48 hours is required, including at least 12 hours of general electives, appropriate credits at the junior-senior level, and either (1) a second major, minor, or other approved program or (2) a 21-hour concentration selected from:

Applied/Developmental Psychology: 21 hours selected from 320, 325, 327, 333, 360, 363, 426, 441, 460, 474, 482.

Minor in Gerontology
The minor requires 24 hours, including PSY 260; CDFR 364 or PSY 325; PSY 252 or SOC 385 or NSG 470; at least one course from the Biological Perspective--ND 330, NSG 393, PE 335; at least one course from the Social-Psychological Perspective--CDFR 469, PSY 327, PSY 426, SOC 494; at least one course from the Interventions Perspective--EMC 430, NSG 405, SOCW 329, RTH 253, RTH 360; and one applications course--CDFR 483, 484, 485, NSG 480, PSY 482, 483, 484, 485, SOC 483, 484, 485, SOCW 483, 484, 485.

Minor in Life Span Development
The minor requires 24 hours, including PSY 325; 3-6 hours selected from PSY 327, 393; 6-9 hours selected from PSY 331, 333, 426, 470, 474; CDFR 261, 469; COUN 450; and 3-6 hours in PSY 482, 483, or approved courses named above.

Minor in Psychology
The minor requires 24 hours, including 250, 251 (or equivalent), 252 (or equivalent), and 15 hours of approved psychology electives.
THE GRADUATE SCHOOL

Anthony A. Hickey, Dean

Steven P. Yurkovich, Associate Dean

The Graduate School at Western Carolina University awarded its first graduate degrees in 1952. Since that time, it has continuously broadened its offerings. Programs offered by the Graduate School lead to eleven master's degrees with more than 50 options in the different professional and academic areas and the Education Specialist degree in educational leadership is offered. The Doctor of Education in Educational Leadership is also offered.

Master of Accountancy

Master of Arts: Majors in American History, English, Music (Applied and Education), Psychology, (Clinical and School), and Studio Art.


Master of Science: Majors in Applied Mathematics, Biology, Chemistry, Communication Disorders, Community Counseling, Family and Consumer Sciences, Human Resource Development, and Technology.

Master of Arts in Education: Majors in Educational Administration (two-year college), Counseling (school), Elementary Education, Middle Grades Education, Special Education General (with concentrations in behavioral disorders, learning disabilities, and mental retardation), Educational Supervision (elementary education, middle grades, subject specialties, curriculum and instruction, and instructional technology specialist-computers), and in Two-Year College Teaching with majors in Biology, English, Mathematics, Physical Education, and Individually Approved Multi-Disciplinary Study.

Master of Business Administration

Master of Health Sciences: Options in education, management, nutrition

Master of Physical Therapy

Master of Project Management

Master of Public Affairs

Master of School Administration

Education Specialist: Educational Leadership

Doctor of Education: Educational Leadership

Admission and Program Requirements

Admission to the Graduate School requires a bachelor's degree from a regionally accredited college or university with an undergraduate background appropriate for graduate study in the proposed field and a minimum GPA of 2.75 in the last two years of the undergraduate program. Some programs may require a higher GPA. Departments also require some form of standardized test such as GMAT, GRE, or MAT. Please consult the Graduate Catalog Issue of The Record for specific requirements for each program. Prospective students are encouraged to talk to the head of the department of the intended program concerning their eligibility to be admitted as a graduate student. Many programs require three letters of reference from former instructors or employers who are in a position to judge the applicant's aptitude for graduate study. These forms are available from the Graduate School. Formal application and

*Complete information will be found in the Graduate Catalog Issue of The Record, available from the Graduate School.
all credentials should be submitted to the Graduate School not later than six weeks prior to
the opening of the term in which the student expects to enroll. Some programs have
application deadlines. Applicants should contact the Graduate School to determine these
programs.

Some graduate programs require a thesis. These are M.A. in American History (excluding
public history and American studies options), M.A. in English, M.A. in Psychology (clinical
and school), M.S. in Biology, and M.S. in Chemistry. A thesis-exhibition is required for the
be accepted for degree programs leading to the Master of Arts in Education, the Master of
Health Sciences, the Master of Science in Applied Mathematics, the Master of Science in
Communication Disorders, and the Master of Science in Family and Consumer Sciences. A
dissertation is required for the Ed.D.

A reading knowledge of a foreign language is required for the following programs: M.A. in
American History and the M.A. in English. Other degree programs do not require proficiency
in a foreign language.

All degrees may be completed with a minimum of 30 to 75 semester hours of graduate study.
However, applicants may be required to take additional course work to strengthen their
academic background.
COURSE DESCRIPTIONS

All courses offered by the university are listed below. For the full description of graduate courses, refer to the graduate catalog. If the entry for an undergraduate course does not carry the full description, refer to the listing for the field of study designated by the parenthetical course prefix and number.

Numbering System. Each course is identified by means of a course prefix and a three-digit number. The first digit of the number designates the level of the course and indicates the minimum class rank a student should have achieved to enroll in the course.

- 01-100 Noncredit courses which are not applicable to degrees
- 101-199 Courses for freshmen
- 200-299 Courses for sophomores
- 300-399 Courses for juniors
- 400-499 Courses for seniors
- 500 and above Courses for graduate students only
- 700-799 Specialist degree and post-master’s degree courses
- 800-899 Doctoral courses

Students should not enroll in courses numbered above their class rank without the permission of the department offering the course. Undergraduate students may not enroll in graduate-level courses for either undergraduate or graduate credit except under the conditions specified in the graduate catalog. In such cases, the student must meet graduate-level requirements to receive credit.

All courses approved for general education at the freshman and sophomore levels are numbered in the ranges 101-130 and 201-229. The category of general education to which each course applies may be found in the general education requirements section. The applicable category also is indicated by the parenthetical code at the end of each course description:

- F1 Written Communication
- F2 Mathematics
- F3 Oral Communications
- F4 Computer Literacy
- F5 Leisure and Fitness
- P1a Human Behavior
- P1b Contemporary Institutions
- P2 Physical and Biological Sciences
- P3a Humanities
- P3b Fine/Performing Arts
- P4 Comparative Cultures
- P5 The Human Past

The number 389 is reserved for cooperative-education courses.

Within the sequences 480-499, 580-599, 680-699, and 780-799, the second and third digits of the numbers are assigned to special types of courses:

- 80-82 Independent study and directed-readings courses
- 83-89 Internships, practica, and special applied field projects
- 90-92 Student teaching
- 93-94 Special topics courses
- 95-98 Seminars
- 699 Thesis

Course Prefixes. The prefixes used to designate courses, except in the case of very short names such as Art, are abbreviations of the names of departments or of fields of study within the departments.

Credits and Class Meetings. Unless otherwise indicated at the end of the course description, the number of hours a class meets each week is the same as the credit-hour value of the course. The credit-hour value of each course is indicated in parentheses immediately following its title. For example, if 3 hours of credit may be earned, the credit is indicated as follows: (3). In variable credit courses, the minimum and maximum hours are shown as follows: (1-3). Unless repeat credit is specified in the course description, a course may be applied only once toward the hours required for graduation. The availability of a course for repeat credit and
the maximum hours that may be earned are indicated within the parentheses and immediately following the credit-hour value of the course as follows: (3, R6). In this example, the course carries 3 hours of credit and may be repeated once for a total maximum of 6 hours applicable toward a degree.

**Prerequisites and Corequisites.** A prerequisite (PREQ) is any special requirement, usually one or more background courses or requirements other than class rank, that must be met before enrolling in a course specifying the prerequisite. A corequisite (COREQ) is any course which must be taken during the same term as the course that specifies the corequisite.

**Experiential Courses.** The maximum credit in experiential courses that may be applied toward a degree within the minimum of 120 or 128 hours required in all bachelor's programs is 26 semester hours (20 percent). The maximum credit that may be earned in cooperative education or applied field project courses/internships or in any combination of the two is 15 hours.

Credit is awarded in experiential courses on the basis of a minimum of three contact hours per credit hour.

**Cooperative Education Courses.** Students participating in a cooperative-education work term are registered for a 389 course in the major department, or the department most closely related to the work experience. To be eligible, a student must be at least a sophomore and have a GPA of 2.00 or above. Exceptions must be approved by the departmental Co-op/Placement Adviser. A full statement of the requirements for academic credit is available from the cooperative-education office in the Career and Academic Planning (CAP) Center. Academic assignments and work performance are used to evaluate the student on an S/U basis.
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<td>Political Science and Public Affairs</td>
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Accounting (ACCT)

161 Accounting for the Non-Business Major (3)
The basic accounting cycle, financial statements; uses of accounting in business and non-business organizations. Not open to students seeking the B.S.B.A. degree.

251 Accounting Principles I—Financial (3)
Proprietary-based treatment of the accounting cycle, financial statements, merchandising, cash, receivables, payables, inventories, plant property and equipment, payroll, accepted accounting principles and partnerships.

252 Accounting Principles II—Managerial (3)
Corporations, investments, consolidated statements, tax impact on decisions, statement analysis, changes in financial position, responsibility accounting, manufacturing; cost-process job order, standard. PREQ: 251.

275 Intermediate Accounting I (3)
Accounting theory in financial statements, valuation and present value concepts, current assets. PREQ: 252.

293 Topics in Accounting (1-3, R3)

301 Financial Statement Analysis (3)
Short-term liquidity, cash flow from operations, funds flow, capital structure, long-term solvency, return on investment, asset utilization, and operating performance. PREQ: 252. COREQ: FIN 405, 495.

352 Intermediate Accounting II (3)
Theory applied to current and long-term liabilities, plant property and equipment, intangible assets, and stockholders equity. PREQ: 275.

353 Intermediate Accounting III (3)
Theory in revenue recognition, error analysis, tax allocation, pensions, leases, price-level reporting, statement of cash flows, consolidations, and topics of current interest. PREQ: 352.

355 Income Tax I (3)
Federal tax on individual incomes; capital gains and losses, income averaging, amendments, deductions, exemptions, withholdings, income concepts, depreciation.

356 Cost Accounting I (3)
Budgeting, systems design, responsibility accounting and motivation, standard costing, variance analysis, cost behavior patterns, relevant costs, contribution analysis, and income effects of costing alternatives. PREQ: 252.

361 Not-For-Profit Accounting (3)
Accounting principles as applied to governmental agencies and other nonprofit organizations. PREQ: 252.

389 Cooperative Education in Accounting (1 or 3, R15) See Cooperative Education Program.

454 Auditing I, II (3, 3)
Theory, practice, and procedures in independent audits, standards, professional ethics, and internal control. PREQ: 352.

464 CPA Problems (3)

466 Income Tax II (3)

467 Cost Accounting II (3)
475 Advanced Accounting Projects (3)  

480 Independent Research in Accounting (3)  
PREQ: Accounting major; permission of department head.

483 Accounting Internship (3, 3, 3)  
484 Supervised work or research experience in applications of accounting theory. S/U grading. PREQ: Junior standing, 2.0 GPA, formal application, and permission of department head. Minimum of 10 hours per week.

493 Topics in Accounting (1-3, R6)  
PREQ: Permission of department head.

Anthropology (ANTH)

110 Origins of Civilization (3)  
The development of civilizations in major world areas from the earliest beginnings to the present. (P5)

120 Comparative Cultural Systems (3)  
Analysis and comparison of the major features of diverse human cultures. (P4)

250 Archeology and Bioanthropology (3)  
Evolutionary theory, human genetics, primatology, fossil humans, and early civilizations.

260 Cultural and Social Anthropology (3)  
Survey and comparison of social, political, economic, religious, and artistic achievements to provide understanding of cultural diversity.

327 Economy and Society (3)  
Types of economic systems examined and compared; emphasis on preindustrial and industrializing societies. PREQ: 260.

341 History of Anthropological Theory (3)  
Concepts, theories, and schools of thought in historical context; contributions to contemporary anthropology. PREQ: 250, 260.

349 Applied Anthropology (3)  
Examination of problems and solutions in programs of directed social and cultural change; case studies. PREQ: 260.

351 Cultural Ecology (3)  
Relationships between physical environment and culture; nonphysiological means of environmental adaptation. PREQ: 250, 260, or SOC 231.

361 World Prehistory (3)  
Survey of cultural developments in society from the dawn of man to the advent of modern civilization.
365 Religion, Magic, Myth (3)  
Nonliterate religious tradition and ritual behavior; life-crisis rituals, secret societies, magic and witchcraft, notions of divinity. PREQ: 260.

379 (ART 379) Cherokee Arts and Crafts (3)  
Present-day Cherokee skills of woodcarving, basketry, pottery making, and other arts and crafts taught by native craftsmen; historical development in relation to other aspects of Cherokee culture and society. 1 Lecture, 5 Lab.

380 (SOC 380) Ethnographic Research Methods (3)  
Theory and method; techniques of observation, description, interviewing, notetaking, and analyzing data; planning and completing a field study. PREQ: 260 or SOC 231.

389 Cooperative Education in Anthropology (1 or 3, R15) See Cooperative Education Program.

414 (SOC 414) Minority Groups (3)

417 Southern Appalachian Culture (3)  
Stability and change in the sociocultural institutions of the region. PREQ: 260 or SOC 231.

419 Comparative Family (3)  
The family as a social institution in various cultures. PREQ: 260 or SOC 231.

431 North American Prehistory (3)  
Cultural history of the peoples of prehistoric North America, including Mexico. PREQ: 250.

440 Archeological Field Techniques (3)  
Basics of field work; surveying, photography, excavation, recording, and preservation techniques. PREQ: Permission of instructor.

441 Archeological Problems and Analyses (3)  
Experience in collecting and analyzing relevant archaeological data. PREQ: Permission of instructor.

461 Indians of North America (3)  
Traditional and changing life styles of native North Americans; environmental adaptations, social organizations, religions, and arts. PREQ: 260.

464 Cultures of South Asia (3)  
The cultures of India, Pakistan, Ceylon, Nepal, Afghanistan, and other South Asian countries. PREQ: 260.

466 Folklore (3)  
Major forms, theories, and functions of lore among the world's cultures; collection, classification, and analysis of folklore. PREQ: 260 or permission of instructor.

473 Contemporary Cherokee Culture and Society (3)  
Present-day Cherokee culture and society; effects of tourism and the reservation system on life styles. PREQ: 260.

477 Cultures of Subsaharan Africa (3)  
Cultural diversity and development in Subsaharan Africa from earliest times to the present.

481 Independent Study in Anthropology (1-2, R6)  
PREQ: Written application, approval of instructor and adviser.

483 Anthropology Internship (3, 3, 3)  
Application of academic training in an approved agency under faculty supervision.

485 Credit toward anthropology major or minor limited to 3 hours. S/U grading. 9 hours per week per course.
### Graduate Courses

514 (SOC 514) Minority Groups (3)  
517 Southern Appalachian Culture (3)  
519 Comparative Family (3)  
531 North American Prehistory (3)  
540 Archeological Field Techniques (3)  
541 Archeological Problems and Analyses (3)  
561 Indians of North America (3)  
565 Cultures of South Asia (3)  
566 Folklore (3)  
573 Contemporary Cherokee Culture and Society (3)  
577 Cultures of Subsaharan Africa (3)  
581 Independent Study in Anthropology (1-2, R6)  
593 Topics in Anthropology (3, R6)

### Art (ART)

102 Non-Western Art (3)  
Style, symbolic expression, and attitudes toward mankind’s relationship to nature in North America, Africa, and the South Pacific. (P4)

103 Art in Society (3)  
Examination of recurring visual forms in historic context as expressions of cultural values and aspirations. (P5)

104 (308) Introduction to the Visual Arts (3)  
Introduction to the visual arts through an analysis of artists and their works, methods of visual expression, and examination of critical thinking as applied to visual form and content. (P3b)

120 Beginning Drawing and Sketching (1)  
Experiments with a variety of drawing materials to familiarize the nonmajor with various approaches. 2 Lab. (F5)

124 Beginning Ceramics (1)  
Introduction to clay forming, firing, and glazing techniques for nonmajors. 2 Studio. (F5)

125 Introduction to Calligraphy (1)  
Basic calligraphy for nonmajors as appreciation of letter forms in visual elements. 2 Studio. (F5)

131 Introductory Drawing (3)  
The investigation of both traditional and nontraditional methods of drawing with emphasis on the nature of drawing as a way of seeing and organizing ideas and perceptions. 6 Studio.

132 Two-Dimensional Design (3)  
Foundation course with an emphasis on traditional two-dimensional techniques. Emphasis is placed on use of materials and tools, problem solving, aesthetic theory, and criticism. 6 Studio.

136 Art History Survey I (3)  
Ancient, medieval, and non-European art.

137 Art History Survey II (3)  
Western art, Renaissance through modern.

141 Figure Drawing (3, R6)  
Analytical and compositional life drawing based on the human form using varied media; study of anatomy, master drawings and the use of the figure for purposes of design and expression. PREQ: 131. 6 Studio.

142 Three-Dimensional Design (3)  
Traditional and nontraditional studio techniques, tools, and media. Emphasis is placed on problem solving through studio activity and relating art theory and criticism to the studio. 6 Studio.
233 Introductory Painting (3)
Emphasis on color theory and the materials and techniques of painting. Historical concerns are integral parts of directed and individual investigations. PREQ: 131, 132 or permission of instructor. 6 Studio.

234 Introductory Printmaking (3)
Materials and methods of various printmaking techniques as they relate to historical and contemporary issues. PREQ: 131, 132, or permission of instructor. 6 Studio.

241 Introductory Sculpture (3)
Principles and processes of sculpture, supported by critical thinking, class critique, historical and contemporary references. 6 Studio.

251 Introductory Ceramics (3)
Basic principles of ceramics: technical, critical, and historical. 6 Studio.

263 Introduction to Art Education (1)
Introduction to current art education topics and approaches for teaching art in the traditional and nontraditional settings. 2 Studio. Spring only.

270 Communication Design (3)
Principles of visual communications including structure, typography, color and semantics; emphasis on developing an understanding of the scope of graphic design including theory, practice, and technology. PREQ: 132. 6 Studio.

306 Renaissance Art (3)
The Renaissance in Italy and northern Europe; major trends and personalities in art and architecture. PREQ: 137 or permission of instructor.

309 Seventeenth and Eighteenth Century Art (3)
Major baroque and rococo artists, architects, landscape and urban designers in Europe. PREQ: 137 or permission of instructor.

312 Nineteenth Century Painting (3)
Major figures and styles in European painting. PREQ: 137 or permission of instructor.

314 American Painting (3)
From colonial limners to contemporary art. PREQ: 137 or permission of instructor.

316 Development of Modern Art: Painting, Sculpture, and Architecture (3)
From Manet, Rodin, and Richardson to Post-Modernism in painting, sculpture, and architecture. PREQ: 137 or permission of instructor.

317 Origins of Modern Sculpture (3)
Academic sculpture in the 19th century: Modernist innovations from Rodin to David Smith. PREQ: 137 or permission of instructor.

319 History of Design (3)
Survey of the development of graphic design from prehistory through contemporary visual communications; topics include typography, photography, illustration and current conceptual and art historical issues. PREQ: Permission of instructor.

330 Intermediate Drawing (3, R6)
The history and functions of drawing; drawing as a method of developing ideas and as an end itself; relationship to other media. PREQ: 141. 6 Studio.

333 Intermediate Painting (3, R6)
Materials, techniques and aesthetic issues of painting in contemporary and abstract modes with focus on personal interpretation and perception. PREQ: 233. 6 Studio.

334 Intermediate Printmaking (3, R6)
Exploration of various printmaking techniques with focus on personal interpretation and perception. PREQ: 234. 6 Studio.
342 Intermediate Sculpture (3, R6)  
Materials, techniques, and aesthetic issues of sculpture in contemporary and abstract modes with focus on personal interpretation and perception. PREQ: 241. 6 Studio.

350 Fibers (3, R12)  
Exploration of weaving techniques and structural forms in fibers combined with the history of weaving and the critical evaluation of projects. 6 Studio.

351 Intermediate Ceramics (3, R6)  
Study of ceramics within a historical and contemporary context; emphasis on clay-forming techniques combined with class discussion and criticism. PREQ: 251. 6 Studio.

352 Jewelry and Metalsmithing (3, R12)  
Basic principles of jewelry and metalsmithing; technical, critical, and historical. 6 Studio.

354 Glass (3, R12)  
Basic techniques of glassblowing and flat glass. Conceptual, technical, critical, and historical issues will be emphasized. 6 Studio. PREQ: Permission of instructor.

359 Introductory Book Arts (3)  
Principles and techniques for producing hand made books, including papermaking, bookbinding, and printing. Exploration of books as a format for developing concepts and imagery. 6 Studio.

363 Art for Children (2)  
Fundamentals for designing and implementing lessons to teach art to children in all educational settings. Teaching diverse multicultural populations discussed. 4 Studio.

365 Art Methods for the Elementary School (3)  
Curriculum planning, exploration of age-appropriate art media and methods for teaching art to diverse populations in the elementary school. Field experience required. PREQ: 263. 6 Studio.

367 History and Philosophy of Art Education (3)  
A study of art education as influenced by educational, philosophical, and socioanthropological developments throughout history. PREQ: 263, 363. Spring only.

370 Graphic Design Studio Procedures (3)  
Equipment, materials, and procedures of the professional graphic design studio. Focus on creative expression and critical thinking through photomechanical and production techniques of the graphic arts industry. PREQ: 270. 6 Studio.

371 Intermediate Graphic Design (3)  
Study of typography's interface with drawing and photography through contemporary modes of visual communication. Readings, research, and discussions on critical thinking and aesthetic theory. PREQ: 270, 370, or permission of instructor. 6 Studio.

372 Introductory Photography (3)  
Camera operation, film processing, and darkroom printing combined with classroom critiques; emphasis on historical and current trends of black and white photography. 6 Studio.

373 Illustration (3, R6)  
Focus on the development of concepts through methods of visual expression as a means of communicating ideas; problem-solving approaches with an emphasis on drawing, painting, color, and other modes of illustration. PREQ: 131. 6 Studio.

374 Introductory Typography (3)  
Comprehensive analysis of letterforms, structural arrangements and expressions through computer generated and traditional typographic procedures; emphasis on theoretical and practical aspects of applied typography. 6 Studio.
379 (ANTH 379) Cherokee Arts and Crafts (3)

389 Cooperative Education in Art (1 or 3, R15) See Cooperative Education Program.

416 Contemporary Art (3)
Contemporary directions in the visual arts since 1945; emphasis on trends during the past five years. PREQ: 137 or permission of instructor.

433 Advanced Painting (3, R6)
Emphasis on the exploration of abstract or figurative modes of painting and critical thinking within a contemporary context. PREQ: 333. 6 Studio.

434 Advanced Printmaking (3, R6)
Study of selected printing media through independent, self-directed projects under faculty supervision. PREQ: 333. 6 Studio.

440 Advanced Drawing (3, R6)
Perceptual and conceptual drawing design problems; emphasis on a drawing project augmented by discussion, readings, and critique. PREQ: 330. 6 Studio.

443 Advanced Sculpture (3, R6)
Emphasis on exploration of sculptural materials and critical thinking within a contemporary context. PREQ: 342. 6 Studio.

451 Advanced Ceramics (3, R6)
Emphasis on personal direction; critiques of current work; reading in history and criticism. PREQ: 351. 6 Studio.

459 Intermediate Book Arts (3, R6)
This course will explore a variety of possibilities for working with the book as an artist’s medium. Students will investigate traditional bookbinding, nontraditional book formats and a variety of image making techniques, including printmaking, while working towards an extruded final project. PREQ: 234; 356. 6 Studio.

460 Computer Graphics Practicum (3, R6)
Production and experimentation with computer-generated imagery and investigation of software programs. 6 Studio.

463 Art Methods for the Middle and High School (3)
Curriculum planning, exploration of suitable art media and methods for teaching art to diverse populations at the middle and high school level. PREQ: 263, 365, admission to the Teacher Education program. Field experience required. 6 Studio.

470 Package Design (3)
Fundamentals of package design and construction; use of materials, methods, and graphic procedures; experimentation, investigation, and critical interpretation of two- and three-dimensional forms. PREQ: 370 or permission of instructor. 6 Studio.

471 Advanced Graphic Design (3)
Emphasis on personal exploration of materials and methods related to visual communications. PREQ: 371. 6 Studio.

472 Intermediate Photography (3, R6)
Emphasis on personal direction and advanced technical problems. PREQ: 372 or permission of instructor. 6 Studio.

474 Portfolio (3)
A portfolio of creative work formulated and executed by the student with instructor supervision; required of all students concentrating in graphic design; available to all studio majors. PREQ: Permission of instructor. 6 Studio.

475 Intermediate Typography (3, R6)
Emphasis on personal directions and advanced technical problems applied to typographic expression. PREQ: 132, 370, 371, 374. 6 Studio.
476 **Advanced Photography (3, R6)**
Emphasis on personal interpretation and advanced technical solutions to guided projects. PREQ: 472 or permission of instructor. 6 Studio.

480 **Experimental Studio (3, R6)**
Theoretical and conceptual issues and modes of making art relevant to the contemporary or post-studio artist. PREQ: Permission of instructor. 6 Studio.

482 **Independent Study in Art History (1-6, R6)**
PREQ: Submitted proposal must be approved by instructor.

483 **Art Internship (3, 3, 3)**
Directed work experience in a professional design studio. PREQ: Permission of instructor. 9 hours per week per course.

486 **Exhibition Practicum (3)**
Organizational, administrative, and operational structures of an art gallery and museum, including the introduction of planning, curating, and installing professional art exhibitions.

493 **Topics in Art (1-4, R12)**
PREQ: Permission of instructor.

494 **Art Honors Studio (3, R6)**
Honors studio for seniors culminating in exhibition of a body of work demonstrating commitment to quality and productivity. PREQ: Permission of instructor. 6 Studio.

495 **Art History Seminar (3, R6)**
Detailed study of a topic in art history or criticism. PREQ: Permission of instructor, senior standing.

**Graduate Courses**

531 Drawing Problems (3, R6)  
532 Design Problems (3, R6)  
533 Painting Problems (3, R6)  
534 Printmaking Problems (3, R6)  
544 Sculpture Problems (3, R6)  
551 Ceramics Problems (3, R6)  
553 Weaving Problems (3, R6)  
564 Art Education Problems (3, R6)  
582 Independent Study in Art History (1-6)  
586 Exhibition Practicum (3)  
593 Topics in Art (1-4, R3)  
596 Art History Seminar (3)  
597 Seminar in Contemporary Art (3)  
631 Graduate Drawing (3, R9)  
632 Graduate Design (3, R9)  
633 Graduate Painting (3, R9)  
634 Graduate Printmaking (3, R9)  
644 Graduate Sculpture (3, R9)  
651 Graduate Ceramics (3, R9)  
652 Graduate Jewelry (3, R9)  
653 Graduate Weaving (3, R9)  
666 Photography Problems (3, R6)  
667 Graduate Photography (3, R9)  
680 Independent Study in Art Education (3, R6)  
681 Graduate Problems in Art (3)  
682 Independent Study in Art History (1-6)  
696 Graduate Seminar in Art History (3, R6)  
697 Seminar in Art Education (3, R6)  
699 Thesis (3)

**Arts and Sciences Interdisciplinary Courses (ASI)**

100 **Introduction to American Culture (3)**
Survey of contemporary American culture: basic history, geography, cultural characteristics, and customs. PREQ: International student or permission of instructor. COREQ: ENGL 131 or permission of instructor.

108 **The Ancient and Medieval Experience (3)**
Exploration of relationships of ideas, art, and philosophy in the historical context of antiquity, the Greco-Roman world, and the middle period. PREQ: ENGL 102. (P3a)

230 **Introduction to Women's Studies (3)**
Introduction to a variety of disciplinary perspectives as they affect the status and roles of women in society.
250 Introduction to Appalachian Studies (3)
Interdisciplinary examination of Appalachia’s culture, history, creative traditions, and
natural environment to illuminate current issues. Field trips, projects, guest lectures.

293 Special Topics (1-4, R6)

300 University Forum for Contemporary Issues (1, R6)
Issues, problems, and developments of current interest presented by faculty and,
occasionally, visiting scholars. S/NC grading.

393 Special Topics (3, R12)

450 Appalachian Studies Seminar (3)
Field-based, interdisciplinary capstone seminar of Appalachia’s culture, history, cre-
ative traditions, and natural environment to illuminate current issues. Field trips,
projects, guest lectures. PREQ: 250 and permission of instructor.

493 Topics in American Studies (3, R6)
Seminar on particular facets of American culture such as literature and art, philosophy
and politics, and folklore and society.

494 Topics in Cherokee Studies (3, R6)
Various topics in Cherokee Studies such as anthropology, history, sociology, and
literature. Juniors will not be allowed to enroll in this course. PREQ: Permission of
instructor.

Graduate Courses
593 Topics in American Studies (3, R6)
594 Topics in Cherokee Studies (3, R6)

Astronomy (AST)

101 Descriptive Astronomy (3-4)
Characteristics of solar stellar systems examined in terms of the technologies and
attitudes of man. 3 Lecture, 2 Lab (optional). (P2)

301 Modern Astronomy (3)
Techniques of measurement and research. PREQ: 250. 2 Lecture, 1 Lab.

Graduate Courses
601 Astronomy for Teachers (3)

Biology (BIOL)

101 Biology in the Contemporary World (3-4)
Concepts derived from cellular, organismic, ecological, evolutionary, and cultural
perspectives to develop awareness of the human condition. 3 Lecture, 2 Lab (lab is
optional). (P2)

108 Recreational Botany (1)
Identification of native plants on campus and in the field using popular plant guides;
derivation of plant names; food and medicinal uses of plants. Two Saturday hikes
required. 2 Field. (F5)

130 General Botany (4)
Diversity in plants; structure, phylogeny, classification, life histories, and aspects of the
physiology of algae, fungi, bryophytes, and vascular plants. 3 Lecture, 3 Lab.

131 General Zoology (4)
Evolutionary relationships, functional morphology, physiology, and natural history of
the major groups of animals; dissections and other lab exercises emphasize functional
morphology. 3 Lecture, 3 Lab.
132 Human Genetics in Society (3)
Study of the inheritance and development of human characteristics and of the relationships of genetics to society. PREQ: 101 or permission of instructor.

133 Environmental Biology (3)
Ecosystem function in relation to human activities. Energy, biogeochemical cycles, population dynamics, evolution, biodiversity, and extinction in relation to human population growth, resource use, and impact on the environment.

134 Principles of Biology (4)
Introduction to cell biology, genetics, and human systems biology. 3 Lecture, 2 Lab.

213 Techniques of Biological Photography (3)
Basic techniques in photographic theory as applied to scientific documentation emphasizing photomacrography, photomicrography, and field techniques. Two required Saturday field trips. 1 Lecture, 6 Lab.

232 General Ecology (3)
Ecosystem and population processes, pathways of energy and materials, interactions between organisms and populations and human role in the biosphere. PREQ: 130, 131, or permission of instructor. 2 Lecture, 3 Lab.

242 Genetics and Evolution (3)
Processes of inheritance and evolution; experiments with various animals, plants, and bacteria. PREQ: 130, 131, or permission of instructor. 2 Lecture, 3 Lab.

251 Natural History of the Southern Appalachians (4)
Interdisciplinary study of this unique environment, on-site studies, scheduled pack trips. PREQ: 130 or 131. 2 Lecture, 6 Lab.

254 Dendrology (4)
Structure, distribution, identification, and economic uses of major forest trees of the United States; emphasis on regional species. 2 Lecture, 6 Lab/field.

291 Human Anatomy and Physiology (4, 4)
The skeletal, muscular, digestive, circulatory, respiratory, excretory, integrative, and reproductive systems. PREQ: Completion of 24 semester hours. 3 Lecture, 3 Lab.

311 Animal Physiology (2)
Principles of homeostasis, cell and tissue communication systems, contractility, respiration, excretion, and metabolism in animals. PREQ: 131, CHEM 136.

313 Microbiology in Health and Nutrition (3)
Morphological, cultural, biochemical, and staining characteristics of microorganisms; emphasis on those that infect man and occur in water, food, and dairy products. PREQ: Permission of instructor. 2 Lecture, 3 Lab.

315 Introduction to Plant Physiology (1)
Introduction to plant metabolism, conduction, development, and defense mechanisms. PREQ: 130, CHEM 136. 1 Lecture, 1 Lab.

333 Cell and Molecular Biology (3)
Viral, prokaryotic, and eukaryotic cell structure; DNA structure and replication; RNA and protein synthesis; control of gene expression. Structure and function of specific cell types. PREQ: 130, 131, and 242 or permission of instructor. 2 Lecture, 3 Lab.

361 (CHEM 361) Principles of Biochemistry (3)

373 Invertebrate Zoology (4)
Morphology, physiology, behavior, ecology, and evolution of invertebrates. PREQ: 131. 2 Lecture, 6 Lab.

374 Vertebrate Zoology (4)
Morphology, physiology, behavior, ecology, and evolution of vertebrates. PREQ: 232, 242, and 311; or permission of instructor. 2 Lecture, 6 Lab.
389 Cooperative Education in Biology (1 or 3, R15) See Cooperative Education Program.

413 Principles of General Microbiology (2)
Survey of microorganisms emphasizing morphology, physiology, immunology, and ecology; microorganisms and disease; environmental and applied microbiology. Not open to students with credit in 313.

414 Methods of General Microbiology (2)
Microscopy; morphological, cultural, physiological, and serological characteristics of microorganisms; microbiology of food, milk, water, and soil. COREQ: 413. 6 Lab.

415 Plant Physiology (4)
Aspects of plant metabolism, water relationships, transport, development, and defense mechanisms. PREQ: 130, CHEM 136. 3 Lecture, 3 Lab.

417 Biochemistry (3)
The metabolism of carbohydrates, lipids, nucleic acids, and proteins in plant and animal systems. PREQ: 232, 242, 311, and CHEM 242, 271; or permission of instructor.

419 Cell Biology (4)
Structure and function; techniques for the study of cells. PREQ: 311. 3 Lecture, 3 Lab.

425 Flora of the Southern Appalachians (4)
Taxonomy of the flowering plants of the region; family relationships; use of keys for identification; and recognition, collection, documentation, and preservation of specimens. One weekend field collecting trip. PREQ: 130. 2 Lecture, 6 Lab.

434 Terrestrial Ecology (4)
Population, ecosystem, community structure, and dynamics; major North American biomes; field and descriptive methods; required weekend field trips. PREQ: 232, 242, 311. 2 Lecture, 6 Lab/field.

435 Aquatic Ecology (4)
Biological, physical, and chemical components and processes in lakes and streams; field studies of local lakes and their biota. PREQ: 232. 2 Lecture, 6 Lab.

443 Evolutionary Processes (3)
Mechanisms of evolution; emphasis on current research and hypotheses such as group and kin selection, r and K selection, and sympatric speciation. PREQ: 232, 242, 311.

451 Biology of Fungi (4)
Slime molds and true fungi: life histories, morphology, host-parasite relationship, fine structure, and phylogeny. PREQ: 130.

452 Plant Anatomy (4)
Plant cells, tissue organization in phylogenetic perspective, botanical microtechniques. PREQ: 130. 3 Lecture, 3 Lab.

453 Principles of Systematics (4)
Principles and methods used in describing animal and/or plant taxa and in testing hypotheses of evolutionary relationship, individual research projects on the systematics of selected taxa. PREQ: 242. 3 Lecture, 3 Lab.

455 Vascular Plants (4)
Biology of higher plants: club and small club mosses, quill worts, scouring rushes, ferns, gymnosperms, and angiosperms in living and fossil form. PREQ: 232, 242, 311. 3 Lecture, 3 Lab.

457 Biology of Algae (4)
Life history, structure, reproduction, and phylogeny of the algae. PREQ: 130. 3 Lecture, 3 Lab.
Aquaculture (1)
Commercial practices for the intensive production of fish; review of the elements involved in aquaculture systems with examples of aquatic farming and examination of problems related to industry. PREQ: 131, 232, or permission of instructor.

Biostatistics (3)
Statistical concepts and methods for biologists. Design of experiments for computer analysis by ANOVA, single or multiple regression, principal components. An elementary statistics course is recommended. 2 Lecture, 2 Lab.

Biology of Arthropods (4)
Functional morphology, physiology, natural history, and systematics of the arthropods; field/lab emphasis on spiders. PREQ: 131. 2 Lecture, 6 Lab.

Animal Behavior (4)
Mechanisms, development, functional significance, and evolution of behavior; individual research projects, films, and discussions in lab. PREQ: 131 or permission of instructor. 3 Lecture, 3 lab.

Animal Development (4)
Development in animals; gametogenesis, fertilization, cleavage, gastrulation, organogenesis, embryonic adaptations, differentiation, and growth. PREQ: 311, 232, 242. 3 Lecture, 3 Lab.

Contemporary Fisheries (3)
Biological concepts and alternative management practices involved in the protection, conservation, restoration, augmentation, and cultivation of fisheries resources. PREQ: 131, 232, or permission of instructor. 2 Lecture, 2 Lab.

Histology (4)
Vertebrate microscopic anatomy, emphasis on mammals, study of microscopic slides. PREQ: 131. 2 Lecture, 6 Lab.

Research in Biology (2, R6)
PREQ: Junior standing, permission of research director.

Studies in Biology (1-6, R12)
PREQ: Permission of department head.

Introduction to Senior Thesis (1)
Designed to introduce experimental design and assist in selection of a senior thesis project. PREQ: Permission of department head.

Senior Thesis I (2)
Directed research conducted in the first semester of the senior year. PREQ: Permission of department head.

Senior Thesis II (1)
Senior thesis and oral presentation following completion of directed undergraduate research. PREQ: 498.
Birth-Kindergarten (BK)

260 Foundations of Child Study (3)
Childhood in western culture from a multidisciplinary perspective. Emphasis on the philosophical roots of the early childhood model and its role in educational reform.

314 (SPED, EDEL) Kindergarten Curriculum (3)
Overview of models for K-3 curriculum for typical and atypical children in home and school environments.

361 Environments for Young Children (3)
The physical, emotional, and social environment suitable for young children; room arrangement, scheduling, space utilization, and teacher-child interaction.

366 (EDEL, SPED) Infant Curriculum (3)
Scope and sequence of developmental curricula in all areas of infant development and learning; methods of providing individual and group intervention through a variety of formats. 2 Lecture, 3 Lab. PREQ: CDFR 360.

461 Young Children’s Thinking (3)
An inquiry into young children’s characteristic forms of thinking, as expressed in language, play, and the arts. PREQ: CDFR 363.

462 Adult-Child Interaction (3)
Various cultural paradigms influencing behavior of adults regarding children’s discipline. Facilitation of self management through non verbal and verbal communication, and the dimensions of play.

470 (EDEL, SPED) Early Childhood Curriculum (3)
Materials, environments, and interactions for 2-5 year olds in all curricular areas including thinking and social problem-solving for typical and atypical children. 2 Lecture, 3 Lab. PREQ: 366.

491 (EDEL, SPED) Internship (4, R8)
Observing, planning, teaching and evaluating young children in typical and atypical settings. COREQ: BK 496.

496 (EDEL, SPED) Internship Seminar (1, R2)
The interrelationships of theory and practice in the context of experience. COREQ: BK 491.

Business Administration (BA)

133 Introduction to Business (3)
Principles of business, forms of organizational structure, marketing strategies, financial institutions, quantitative tools, management information systems, and international implications.

204 Oral Communication (3)
Oral communication theory and practice. PREQ: ENGL 101. (F3)

304 Business Communications in a Multicultural Environment (3)
Analysis of the multicultural workforce and its impact on the communicating process. Studies of effective leadership styles, protocols, and negotiating skills will be examined through case studies, debates, and current research.

404 Strategic Management (3)
Capstone course integrating all aspects of the business core curriculum using case
method, term projects, and/or computer simulations. **PREQ:** All other business core courses.

**Graduate Courses**

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**Business Law (LAW)**

**101 (321) Legal Thought, Reasoning, and Implications (3)**
Analysis, synthesis, and integration of law and the contemporary legal system through the study of the court’s thinking, reasoning, and expression.

**205 (325) Legal Issues and Institutions (3)**
Social change through the legal environment, legal institutions in various cultures, impact on other social institutions, interpretation and analysis of interrelationships. (Plb)

**230 Legal Environment of Business (3)**
Social responsibility of business; ethics, legal concepts, and legislation and administrative decisions having an impact on business.

**302 Contemporary Legal Problems (3)**
Relationship of law to the structure of society, study of prominent court decisions reflecting changes dictated by societal movements and civil litigation.

**303 Consumer Protection (3)**
General products liability laws, federal and state legislation and consumer credit and reporting.

**305 Jurisprudential Theory (3)**
Sources of law; natural law; case law and legal precedent; statutory and constitutional law; rights theories; classical formalism, legal realism, and critical legal studies; and the effect of law on management and practice of business. **PREQ:** Junior standing.

**315 Athletics and the Law (3)**
Legal issues and litigation affecting sports.

**320 Multinational Corporate Law (3)**
Problems of multinational corporations in the international legal environment. **PREQ:** 230 or permission of instructor.

**331 Business Transactions I (3)**
Law of contracts; commercial paper, security interests in property, and The Uniform Commercial Code.

**332 Business Transactions II (3)**
Business organizations, agency law, government regulations, legal liability, and bankruptcy. **PREQ:** 331.

**389 Cooperative Education in Business Law (1 or 3, R15)** See Cooperative Education Program.

**393 Topics in Business Law (1-3, R6)**

**402 Hospitality Law (3)**
Legal issues and litigation affecting the hospitality industry. **PREQ:** 230.

**403 Property and Estates (3)**
Legal aspects of buying and selling real estate, federal and state taxation, and estate planning and administration.
405 Rights of the Individual (3)
Philosophical and historical aspects of individual rights, and interpretation of constitutional provisions as applied by courts in public, private, and business situations.

410 Witnesses and Evidence (3)
Persuasion, evidence, and presumptions; introduction and exclusion of evidence; examination, opinions, and competency of witnesses; testimonial and constitutional privileges; pre-trial communications; real, scientific, and hearsay evidence.

412 Business Ethics and Corporate Social Responsibility Theories (3)
Ethical theory and decision making in the market, corporation as a moral agent, ethics as a component in strategic decision making, and government regulations and fiduciary obligations. PREQ: Junior standing.

415 Legal Aspects of Business Management (3)
Comprehensive study of legal considerations in developing and managing a business.

440 Labor Law (3)
Legal aspects of industrial relations, arbitration, bargaining, strikes, and labor practices; mediation and conciliation of employment disputes.

480 Independent Research in Business Law (3)
PREQ: Business law major, permission of department head.

483 Internship in Business Law (3, 3, 3)
484 Supervised experience in applications of previously studied theory. S/U grading.
485 PREQ: Junior standing, 2.0 GPA, permission of department head. Minimum of 10 hours per week.

Graduate Courses
693 Topics in Business Law (1-3, R6)
695 Seminar in Business Law (3)

Chemistry (CHEM)
101 Chemistry in Society (3-4)
Introduction to chemistry emphasizing the impact of chemistry and scientific reasoning on society. 3 Lecture, 2 Lab (optional). (P2)

132 Introductory Chemistry (4)
Basic chemistry; atomic structure, chemical bonding, stoichiometry, acid/base; lab introduction to experimentation. 3 Lecture, 3 Lab.

133 Survey of Organic and Biochemistry (4)
Survey of the major functional classes of compounds in organic and biochemistry, including structure and nomenclature, chemical and physical properties, and common uses. PREQ: 132 or 140. 3 Lecture, 3 Lab.

140 Advanced General Chemistry (4)
Bonding, thermochemistry, equilibria, acid/base principles, kinetics, and redox chemistry. Laboratory uses an inquiry based approach. PREQ: High school chemistry and placement into MATH 145 or 146.

171 Inquiries Into Chemistry (1)
A discovery-based laboratory featuring guided inquiries into chemistry using current technologies. PREQ: 140, permission of instructor or department head. 3 Lab.

232 Quantitative Analysis (4)
Theory and practice of methods to quantitatively determine chemical compounds, including equilibria, titrations, redox reactions, and spectrophotometry. PREQ: CHEM 140, MATH 146 or equivalent. 2 Lecture, 6 Lab.
241 **Organic Chemistry I** (3)
Aliphatic and aromatic compounds of carbon; relationships between structure and reactivity. PREQ: 140.

242 **Organic Chemistry II** (3)
Continuation of 241; introductory theory of instrumentation and applications of spectral methods in structure determination. PREQ: 241.

272 **Organic Chemistry Lab** (2)
Synthetic organic techniques and contemporary methods of analysis including NMR, FT-IR, and GC. PREQ: 242. 6 Lab.

311 **Industrial Chemistry** (3)
Processes, operations, marketing, and management in chemical manufacturing. PREQ: 242, 370.

321 **Inorganic Chemistry** (3)
Physical and chemical properties of the elements and their compounds; emphasis on chemical reactions. PREQ: 241.

330 **Aquatic Chemistry** (3)
Processes in the distribution, consumption, and circulation of water. PREQ: 133. 2 Lecture, 3 Lab.

352 **Physical Chemistry I** (3)
Introduction to chemical thermodynamics and kinetics. PREQ: 242; MATH 140 or 153.

361 (BIOL 361) **Principles of Biochemistry** (3)
Structures and properties of biomolecules; central principles of metabolism. PREQ: 242.

370 **Instrumental Analysis I** (3)
Introduction to instrumental methods, including gas and liquid chromatography; atomic, ultraviolet/visible, infrared, and fluorescence spectroscopy; and photometric methods. PREQ: 232. 2 Lecture, 3 Lab.

371 **Chemical Dynamics** (2)
Measurements and data treatment of the dynamics (e.g., kinetics, thermodynamics) of chemical systems. PREQ: 370. 6 Lab.

372 **Chemical Syntheses** (2)
Multistep synthesis of inorganic and organic compounds. PREQ: 370. 6 Lab.

380 **Research in Chemistry** (2, R8)
Chemical research projects for individual students. PREQ: 2.5 GPA in major and permission of instructor. 6 Lab.

389 **Cooperative Education in Chemistry** (1 or 3, R15) See Cooperative Education Program.

421 **Advanced Inorganic Chemistry** (3)
Survey of structure and bonding in inorganic compounds, acid-base theory, coordination complexes of transition metals and fundamentals of crystal-field and ligand-field theory. PREQ: 321 and 352. COREQ: 453.

432 **Instrumental Analysis II** (3)
Theory and practice of modern chemical instrumentation; electrochemistry, spectroscopic methods, and nuclear techniques. PREQ: 370. PREQ or COREQ: 352. 2 Lecture, 3 Lab.
441 Advanced Organic Chemistry (3)
Synthetic methods and mechanistic study to include selected topics emphasizing the relationships between structure and reactivity. PREQ: 242, 370.

442 Introduction to Organic Polymers (3)
Linear and cross-linked polymers and selected topics emphasizing relationships between structure and properties. PREQ: 370.

453 Physical Chemistry II (3)
Quantum mechanics; introduction to molecular spectroscopy and applications of thermodynamics. PREQ: 352, MATH 255, and PHYS 230. COREQ: 421.

454 (PHYS 454) Computer Interfacing (3)
Digital logic, computer design and interfacing with laboratory instruments. PREQ: Permission of instructor. 2 Lecture, 3 Lab.

493 Topics in Chemistry (1-3, R6)
PREQ: Junior standing and permission of department head. 1-3 Lecture, 6-0 Lab.

495 Seminar in Chemistry (1, R4)
2 Seminar.

Graduate Courses
532 Instrumental Analysis II (3) 652 Graduate Physical Chemistry (3)
541 Advanced Organic Chemistry (3) 691 Topics in Chemical Education (1-3, R9)
542 Introduction to Organic Polymers (3) 692 Topics in Inorganic Chemistry (3, R6)
553 Physical Chemistry II (3) 693 Topics in Analytical Chemistry (3, R6)
554 Computer Interfacing (3) 694 Topics in Organic Chemistry (3, R6)
589 Cooperative Education in Chemistry (3, R6) 695 Topics in Physical Chemistry (3, R6)
593 Topics in Chemistry (1-3, R6) 696 Seminar (1, R3)
621 Graduate Inorganic Chemistry (3) 698 Research in Chemistry (3, R9)

Cherokee (CHER)

101 Cherokee Language and Culture (3)
Elements of understanding, speaking, reading, and writing Cherokee; concepts of grammar and culture. (P3a)

132 Elementary Cherokee II (3)
Continued audio-lingual practice of basic imperatives, idioms on the imperative stem, verbs of motion and locationals, and basic complement types. PREQ: 101.

231 Intermediate Cherokee I (3)
Review and continuation of oral and written grammar, selected readings, and lab practice may be assigned. PREQ: 132.

232 Intermediate Cherokee II (3)
Readings and discussions on Cherokee culture; emphasis on pre-Removal culture and its traces in language and readings in specialized areas. PREQ: 231.

351 Phonetics and General Linguistics (3)
Introduction to linguistics; the Cherokee sound system from a phonetic and allophonic view; grammatical categories, morphology, syntax. PREQ: Permission of instructor.

Child Development & Family Relations (CDFR)

261 Family Dynamics (3)
Interdependence between cultural values and diverse family systems in the development and function of family units.
360 Infancy (3)
Infant development during the first 24 months; dynamics of infant-teacher and infant-parent interaction emphasized for typical and atypical children.

363 Child Development I (3)
Physical, emotional, social, and mental development from birth through middle childhood. 2 Lecture, 2 Lab.

364 Survey of Human Development (3)
The life span, prenatal through death; the social, emotional, cognitive, moral, and physical characteristics of each stage.

367 Child Development II (3)
Social, emotional, physical, and intellectual development during the preadolescent and adolescent years. PREQ: 363.

389 Cooperative Education in Child Development (1 or 3, R15) See Cooperative Education Program.

464 Family and Community (3)
The integration of current theories and methods of family interaction and involvement in programs for young children and other community settings. PREQ: 363.

465 Day Care Management (3)
Organization and administration of programs in child development and day care centers.

467 Perspectives in Parenting (3)
Effective child-rearing skills; review of current theories, research, and model parenting programs.

468 Families: Organization and Function (3)
Family organization and function; the family life cycle and areas of adjustment. PREQ: 261 or permission of instructor.

469 Family Gerontology (3)
Study of older family members: their relationships, development, life adjustments, and sources of assistance. PREQ: 364 or permission of instructor.

480 Independent Study (1-3, R6) PREQ: Permission of instructor.

483 Internship (3, 3, 3)
Integration of theory and practice in a setting appropriate to the student's career field.
485 S/U grading. 9 hours per week per course. PREQ: Permission of instructor.

493 Special Topics (1-3, R6)
Current topics in child and family development.

497 Child and Family Seminar (3)
Considerations of current research, professional ethics, personal and career development, child family advocacy, and the integration of knowledge with related areas. PREQ: 466, 468.

Chinese (CHIN)

131 Beginning Chinese I, II (3, 3)
Elements of understanding, speaking, reading, and writing Chinese; concepts of grammar; lab practice required. 3 Lecture, 1 Lab.
Clinical Laboratory Sciences (CLS)

275 Introduction to Medical Technology (1)
Introduction to the profession for those planning a career in medical technology; emphasis on accreditation, certification, ethics, and job analysis.

300 Instrumentation and Blood Collection (1)
Electronics, optics, and principles of light applied to lab instrumentation; trouble shooting and preventive maintenance; and blood collection and specimen handling. PREQ: Admission to CLS sequence. 2 Lab.

301 Analysis of Body Fluids (2)
The physiology and microscopic-chemical examination of urine, spinal fluid, semen, and gastric constituents. PREQ: Junior standing in CLS. 1 Lecture, 3 Lab.

302 Clinical Microbiology (4)
Mechanisms of disease production; isolation and identification of organisms using current lab procedures. PREQ: BIOL 413, 414. 2 Lecture, 4 Lab.

303 Basic Hematology (3)
Formation and function of cellular components of blood, hematological procedures, and coagulation. PREQ: Admission to CLS sequence. 2 Lecture, 3 Lab.

304 Immunology (3)
Host-parasite relationships, formation and function of antibodies; the immune responses in disease processes. 2 Lecture, 3 Lab.

305 Clinical Parasitology (2)
Medically important protozoans, cestodes, trematodes, and nematodes encountered in the laboratory. PREQ: Junior standing in CLS. 1 Lecture, 3 Lab.

306 Immunohematology (4)
The study of blood component therapy. PREQ: 303, 304, CLS major. 2 Lecture, 4 Lab.

307 Medical Mycology (2)
Superficial and systemic mycological diseases and methods of isolation and identification. PREQ: Junior standing in CLS. 1 Lecture, 3 Lab.

308 Advanced Hematology (3)
Hematological states involving classification of anemias, leukemias, enzyme deficiencies, platelet anomalies, and coagulation disorders. PREQ: 303. 2 Lecture, 3 Lab.

309 Clinical Biochemistry (3)
Clinical parameters measuring the biochemical makeup of body fluids and results of lab tests related to disease states. PREQ: CHEM 361. 2 Lecture, 3 Lab.

389 Cooperative Education in Medical Technology (1 or 3, R12)
PREQ: HSCC 389. See Cooperative Education Program.

406 Laboratory Management (2)
Organization and administration of the clinical laboratory. PREQ: CLS major. 1 Lecture, 2 Lab.

480 Independent Study (1-2)
PREQ: Permission of instructor.

485 Clinical Practicum in Urinalysis (2)
PREQ: 301. 6 Clinic.

486 Clinical Practicum in Hematology (3-5)
PREQ: 308. 9-15 Clinic.

487 Clinical Practicum in Blood Banking and Serology (3-5)
PREQ: 306. 9-15 Clinic.
488 Clinical Practicum in Microbiology (3-5)  

489 Clinical Practicum in Clinical Chemistry (3-5)  
PREQ: 309. 9-15 Clinic.

Clothing, Textiles, and Merchandising (CTM)

140 Fashion Analysis (3)  
The aesthetic, functional, and economic aspects of fashion apparel creation and selection.

141 Clothing Selection and Construction (3)  
Principles and techniques; fitting, altering, and constructing commercial patterns. 2 Lecture, 3 Lab.

242 Textiles (3)  
Construction, properties, recommended uses and care of fibers, yarns, and fabrics; applications to consumer purchasing and use of clothing and household textiles.

243 Apparel Quality Analysis (3)  
Analysis of apparel products with focus on quality, performance, and cost decisions relative to product development and production; specification for materials, components, assembly, and stitchology.

245 Dynamics of the Fashion Industry (3)  
Comprehensive survey of the scope and operation of the fashion industry.

246 Fashion Buying and Merchandising (3)  
Fundamentals for the successful merchandising of fashion goods. PREQ: 245 or permission of instructor.

340 Fashion in Retrospect (3)  
Aesthetic, social, political, and economic influences on the development of apparel; application of design principles to modern fashion. PREQ: 140 or permission of instructor.

342 Apparel Production Processes (3)  
Concepts and techniques of apparel production, including selection of fabric and other garment components, analysis of fit and construction processes used at various production levels. PREQ: 242, 243 or permission of instructor. 2 Lecture, 3 Lab.

343 Tailoring (3)  
Selection of patterns and fabrics; fitting commercial patterns and construction and pressing techniques. PREQ: 141. 2 Lecture, 3 Lab.

344 Fashion Design Fundamentals (3)  
Applications of design principles in apparel manufacturing using flat pattern techniques. PREQ: 140, 342. 2 Lecture, 2 Lab.

346 Merchandising Apparel for Profit (3)  
Principles and practices related to the planning and control of an apparel merchandising operation. PREQ: 246, MATH 101 or equivalent, ACCT 161 or 251.

347 Fashion Promotion (3)  
Methods of promoting fashion merchandise and their interrelationship in the presentation of a fashion story. PREQ: 246 or permission of instructor.

389 Cooperative Education (1 or 3, R15). See Cooperative Education Program.

441 Textile and Apparel Economics (3)  
Economic and social aspects of textile and apparel production, distribution, and use. PREQ: 242, 243, 246, or permission of instructor; ECON 130.
443 Cultural Aspects of Clothing (3)
Cultural factors influencing clothing habits of individuals and groups as related to their environment.

445 Fashion Product Analysis (3)
Value analysis of the composition of fashion and home-furnishing products. PREQ: 242, 243, 347.

446 Principles and Techniques of Fashion Retailing (3)
Case study approach to the operation and management of fashion business enterprises. PREQ: 346, 347, MKT 301, MGT 300; or permission of instructor.

480 Independent Study (1-3, R6). PREQ: Permission of instructor.

483 Internship (3, 3, 3)
Integration of theory and practice in a setting appropriate to the student's career field.

485 S/U grading. 9 hours per week per course. PREQ: Permission of instructor, junior standing, 2.00 GPA and written application.

493 Special topics (1-3, R6)
PREQ: Permission of instructor.

Graduate Courses
545 Apparel and Home Furnishings Product Analysis (3) 546 Principles and Techniques of Fashion Retailing (3)

Communication - Core (CMCR)

140 Introduction to Mass Communications (3)
Survey of the history, function, and economics of the communication industry.

150 Interpersonal Communication (3)
Basic theory and skills in interpersonal communication including gender, nonverbal, listening, and interviewing skills.

250 Public Communication (3)
Basic principles of skills in public and group communication. PREQ: ENGL 102.

301 Writing for Mass Communications (3)
Elements of news, news values, basic interviewing techniques; writing principles and fundamentals; styles used in journalism, broadcasting, advertising, and public relations. PREQ: ENGL 102, CMCR 140, CIS 293: Beg. Micro Applications.

350 Communication Theory and Research (3)
Survey of the theory, research, and legal aspects of the communications industry. PREQ: 140 and 3-credit statistics course.

389 Cooperative Education in Communications (1 or 3, R 9)
See Cooperative Education Program. PREQ: Completed 60 hours and permission of department head.

401 Editing for Mass Communications (3)
Elements of critical thinking and analysis fundamental to the editorial process in mass communication. PREQ: 301 and 350.

465 Communications Ethics and Responsibilities (3)
The legal and moral responsibilities of communicators in the communication industry. PREQ: 90 or more hours.
483 Internship in Communications (3, R9)
Work experience in the communication industry. S/U grading. PREQ: Completed 60 hours and permission of department head. 9 hours per week, per 3-hour course.

494 Communication Projects (1-3, R6)
Practical experience, performance, research in debate, forensics, film, electronic and print media. PREQ: Permission of instructor.

496 Seminar in Professional Development (1)
The development and evaluation of professional credentials for entry into the communication industry.

Communication - Electronic Media (CMEM)

351 Comparative Studies in Film/TV (3)
Evaluative study of the relationship between the film and television industries; historical perspectives, techniques and impact; emphasis on the “language” of video. PREQ: CMCR 301. 3 Lecture, 2 Lab.

354 Radio Production I (3)
Practical course in production of radio commercials, public-service materials, and news actualities. PREQ: CMCR 301. 2 Lecture, 2 Lab.

355 Television Production I (3)
Producing and directing various television programs and productions; emphasis on studio operations. PREQ: CMCR 301. 1 Lecture, 4 Lab.

358 Broadcast Announcing (3)
In-depth skills course in radio and television announcing and “on-camera” appearances; emphasis on development of the broadcast voice. PREQ: CMCR 301 and CMHC 311. 1 Lecture, 4 Lab.

450 Directing for the Camera (3)
The art of directing on-camera performances. PREQ: 355. COREQ: 452. 1 Lecture, 4 Lab.

451 Advanced Studies in Film and Television (3)
Advanced studies in technical analysis and sociological impact of film and television. PREQ: 351 or permission of instructor. 3 Lecture, 2 Lab.

452 Writing for Broadcast (3, R9)
Writing commercials, public service announcements, station promotions, and short educational/entertainment features for radio and television. PREQ: CMCR 301. COREQ: 450, 454, or 455. 3 Lecture, 2 Lab.

454 Radio Production II (3)
Editing and related technical skills. PREQ: 354 or permission of instructor. COREQ: 452. 1 Lecture, 4 Lab.

455 Television Production II (3)
Continuation of 355 and emphasis on field production, editing, and related technical/creative skills. PREQ: 355. COREQ: 452. 1 Lecture, 4 Lab.

456 Broadcast Operations (3)
Principles of management in radio, television, and cable at the local and network levels. PREQ: 354 or 355.

457 Radio and Television Programming (3)
Techniques of programming for AM, FM commercial, and FM educational radio; educational and commercial television; cable and satellite operations. PREQ: 354 or 355.
458 **Broadcast Sales and Promotion (3)**
Introduction to the skills involved in selling broadcast time and broadcast promotions. 
PREQ: 354 or 355.

459 **Broadcast News (3)**
Finding sources of information, developing interview techniques, and writing news for 
radio and television; emphasis on completing tasks under deadline conditions.  
PREQ: CMCR 301. 2 Lecture, 2 Lab.

493 **Selected Topics in Electronic Media (3, R9)**
Study in a special area of interest in electronic media.

**Graduate courses**

593 **Selected Topics in Electronic Media (3)**

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**Communication - Human Communication (CMHC)**

110 **Persuasive Thinking, Reasoning, and Expression (3)**
Development of thinking, reasoning, and oral skills through various rhetorical problems 
and simulations; emphasis on the student’s analysis, synthesis, integration, communication, 
and valuing behaviors.

201 **Introduction to Speech Communication (3)**
Basic principles of communication skills in interpersonal, small group, and public 
communication. (F3) PREQ: ENGL 101.

300 **Foundations of Oral Communication (3)**
Required of any undergraduate who receives two “oral competence condition” (O.C.C.) 
marks.

311 **Voice and Articulation (3)**
Effective speech production, individual practice, standards of good diction, and 
introduction to phonetics.

312 **Group Discussion and Conference (3)**
Techniques for participation in small groups, roles of group leader and participant, 
practice in problem-solving deliberation, and parliamentary practice.

313 **Argumentation and Debate (3)**
Analysis, evidence, refutation, reasoning; techniques of delivery; participation in 
debate required.

314 **Professional Speaking (3)**
Advanced principles of public communication skills as related to professional speaking. 
PREQ: CMCR 250

315 **Organizational Communication (3)**
Channels of oral communication in complex organizations, and organizational influences 
on communication.

411 **Rhetorical Theory and Criticism (3)**
Ancient and modern concepts and theories, and application to rhetorical acts.

414 **Gender Communication (3)**
An examination of the communication behavior of women and men in different 
contexts; existing communication differences dealing with self-perception, information 
processing, verbal and nonverbal coding, images of women and men.

415 **Intercultural Communication (3)**
Nature of intercultural communication, variables of both culture and communication, 
and the impact on intercultural communication in our ever-changing world.
493 Selected Topics in Human Communication (3, R9)
Study in a special area of interest in human communication.

Graduate Course
593 Selected Topics (3)

Communication - Print Media (CMPM)

302 Reporting of Public Affairs (3, R6)
Advanced reporting course on selected public affairs topics. PREQ: CMCR 301.

303 Persuasive Writing (3)
Writing persuasive messages for selected audiences in public relations, advertising and promotions, and mass media. PREQ: CMCR 301.

304 Magazine and Feature Writing (3)
Writing feature material for newspapers and magazines. PREQ: CMCR 301.

305 Sports Writing (3)
Fundamentals of sports reporting for print media. PREQ: CMCR 301.

402 Print Media Production (3)
Layout, design, and production for print media. PREQ: CMCR 350.

403 Association Communications (3)
The development and operation of effective communications programs for nonprofit organizations. PREQ: CMCR 401.

404 Desktop Publishing (3)
The use of personal computers and peripherals to produce publications and promotional materials. PREQ: CMCR 401.

493 Selected Topics in Print Media (3, R9)
Study in a special area of interest in print media.

Graduate courses
593 Selected Topics in Print Media (3)

Communication - Public Relations (CMPR)

360 Introduction to Public Relations (3)
The study of the management function of controlling an organization’s communication with its publics. PREQ: CIS 293: Beg Micro Applications.

460 Public Relations Campaigns (3)
Identification and analysis of organizational publics, the development of specific communication strategies to influence those publics, and the implementation and evaluation of those communication strategies. PREQ: 360.

493 Selected Topics in Public Relations (3, R9)
Study in a special area of interest in public relations. PREQ: 360.

Graduate courses
593 Selected Topics in Public Relations (3)
Communication - Theatre Arts (CMTA)

102 Theatre Production: Stagecraft (1)
Hands-on participation in the construction/painting of stage scenery. 4 Lab. (F5).

103 Theatre Production: Costume (1)
Hands-on participation in the construction of stage costumes and accessories. 4 Lab. (F5).

104 The Theatre Experience (3)
Analysis of what the theatre is about, what goes on in the theatre, and what it means to be a viewer. P3b

130 Makeup (1)
Application of stage makeup.

131 Introduction to Theatre (3)
Survey of theatre profession for beginning majors and minors. 2 Lecture, 2 Lab.

140 Acting I (3)
Introduction to the basic principles of acting.

231 Stagecrafts I (3)
Introduction to theatre crafts and technology. PREQ: 131. 2 Lecture, 2 Lab.

270 Theatre Arts Workshops I (1-3, R6)
Practical experience: performance crews in theatre productions. PREQ: Permission of instructor. 3 lab per credit hour.

300 Dramatic Literature and Criticism I (3)
Dramatic structure, interpretation, and evaluation of masterpieces; Greek period to 1700. PREQ: 131.

301 Dramatic Literature and Criticism II (3)
Dramatic structure, interpretation, and evaluation of masterpieces; 1700 to present. PREQ: 300 or permission of instructor.

330 Makeup II (1)
Three-dimensional makeup and mask building. Project oriented, emphasis on portfolio preparation. PREQ: 130. 3 Lab.

331 Stagecrafts II (3)
Continuation of CMTA 231 with emphasis on application to production. PREQ: 131, 231.

332 Introduction to Theatrical Design (3)
Principles and practices of design as applied to theatre. Project oriented. PREQ: 331.

333 Scenic Technology (3)
Advanced theory and practice in technology associated with scenic construction, emphasis on preparation for supervision of a basic scene shop. PREQ: 332.

335 Lighting Technology (3)
Advanced theory and practices in technology associated with theatre lighting, emphasis on preparation for supervision of lighting crew. PREQ: 332.
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>337</td>
<td>Costume Technology (3)</td>
<td>Advanced theory and practice associated with costume construction, emphasis on preparation for supervision of a basic costume shop. PREQ: 332.</td>
</tr>
<tr>
<td>340</td>
<td>Acting II (3)</td>
<td>Introduction to character analysis and styles. PREQ: 131, 140.</td>
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<tr>
<td>341</td>
<td>Acting III (3)</td>
<td>Advanced scene work for theatre majors. PREQ: 340.</td>
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<tr>
<td>345</td>
<td>Acting for the Camera I (3)</td>
<td>The art of acting as it relates to the television/film environment. PREQ: 140 or 340. 2 Lecture, 2 Lab.</td>
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<tr>
<td>346</td>
<td>Acting for the Camera II (3)</td>
<td>PREQ: 345.</td>
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<td>350</td>
<td>Directing I (3)</td>
<td>Survey and practical application of the basic theories of play directing. PREQ: 131, 140, 231.</td>
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<tr>
<td>370</td>
<td>Theatre Arts Workshops II (1-3, R6)</td>
<td>Practical experience, performance, leadership portions of theatre productions. PREQ: Permission of instructor. 3 lab per credit hour.</td>
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<td>389</td>
<td>Cooperative Education in Theatre Arts (1-3, R6)</td>
<td>See Cooperative Education Program. PREQ: Completed 60 hours and permission of department head.</td>
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<tr>
<td>400</td>
<td>History of the Theatre I (3)</td>
<td>The theatre in performance. Origins and development of theatrical forms and style through the study of acting, physical facilities, design, and the cultural milieu of the audience; Greek period to 1700. PREQ: 12 hours in major.</td>
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<tr>
<td>401</td>
<td>History of the Theatre II (3)</td>
<td>The theatre in performance. Origins and development of theatrical forms and style through the study of acting, physical facilities, design, and the cultural milieu of the audience; 1700 to present. PREQ: 400.</td>
</tr>
<tr>
<td>433</td>
<td>Scene Design (3)</td>
<td>Theory and practice in the design of stage scenery. Project oriented, emphasis on portfolio preparation. PREQ: 333.</td>
</tr>
<tr>
<td>435</td>
<td>Lighting Design (3)</td>
<td>Theory and practice in the design of stage lighting. Project oriented, emphasis on portfolio preparation. PREQ: 335.</td>
</tr>
<tr>
<td>437</td>
<td>Costume Design (3)</td>
<td>Theory and practice in the design of theatrical costumes. Project oriented, emphasis on portfolio preparation. PREQ: 337 or permission of instructor.</td>
</tr>
<tr>
<td>441</td>
<td>Acting IV (3)</td>
<td>In-depth character analysis and application. PREQ: 341.</td>
</tr>
</tbody>
</table>
483 Internship in Theatre Arts (3, R9).
Work experience in the theatre industry. S/U grading. PREQ: Completed 60 hours and/or permission of department head. 9 hours per week per 3 hour course.

486 Theatre Production (3, R12)
Intensive training in performance, design, or theatre technology. PREQ: Permission of department head.

493 Selected Topics in Theatre Studies (3, R9)
Study in a special area of interest in theatre.

496 Seminar in Professional Development (1)
Seminar in career preparation for the emerging professional. PREQ: Senior status.

499 BFA Thesis (2)

Graduate Courses
586 Theatre Production (3)
593 Selected Topics in Theatre Arts (3)

Communication Disorders (EDCD)

270 Introduction to Communication Disorders (3)
Overview of speech-language-hearing disorders in children and adults.

301 Speech and Language Development (3)
Speech and language development in normal children; survey of procedures and tools used to study language development and acquisition. PREQ: 270 or equivalent.

302 Communication Development and Disorders (3)
The developmental phases of content, form, and use of language; survey of techniques for use with language-disordered children; designed for nonmajors.

320 The Clinical Process (3)
Orientation to the roles and responsibilities of clinicians in the practice of speech-language pathology and audiology. PREQ: 301, 370, 471, or equivalent.

370 Phonetics (3)
Study of sound feature production; phonetic transcription. PREQ: 270 or equivalent.

371 Articulation/Phonological Disorders (3)
The etiology, diagnosis, and treatment of articulation and phonological disorders. PREQ: 301, 370, 471, or equivalent.

372 Speech Science (3)
Principles and concepts in speech production and perception; techniques for acoustic analysis. PREQ: 370 or equivalent.

450 Introduction to Audiology (3)
Fundamentals of audiology; the physics of sound and its measurement; aural anatomy, physiology, etiology, and pathology. PREQ: 372 or equivalent.

451 Sign Language I (3)
Beginning sign language skills, receptive and expressive; cultural issues.

452 Sign Language II (3)
Advanced sign language skills, receptive and expressive; cultural issues. PREQ: 451 or equivalent.
471 Anatomy and Physiology of the Speech Mechanism (3)
Study of the anatomic structures involved in speech and their function in the speech process. PREQ: 270, 370 or equivalent.

474 Voice Disorders (3)
The etiology, evaluation, and treatment of voice disorders. PREQ: 372, 471 or equivalent.

476 Language Disorders in Children (3)
Analysis of childhood language disorders; evaluation and implementation of treatment approaches. PREQ: 301, 370, 471, or equivalent.

478 Fluency Disorders (3)

485 Clinical Practicum in Communication Disorders (1, R2)
Supervised evaluation and intervention with persons exhibiting communication disorders. PREQ: 371, 476, or equivalent, and permission of clinical director; 25 hours of supervised observations of clinical experience.

494 Topics in Communication Disorders (1-3, R6)
PREQ: Permission of instructor

495 Seminar in School Practice (3)
Theory, policy, and procedures related to school-based practice. PREQ: 485 or permission of instructor.

Graduate Courses

551 Sign Language I (3) 675 Management of Communication Disorders (3)
552 Sign Language II (3) 676 Management of Orofacial Anomalies (3)
572 Aural Rehabilitation (3) 677 Dysphagia (3)
574 Voice Disorders (3) 678 Augmentative Communication Systems (3)
576 Language Disorders in Children (3) 679 Language Assessment and Intervention (3)
578 Fluency Disorders (3) 680 Communication Problems of the Aging (3)
594 Topics in Communication Disorders (1-3, R6) 682 Research in Communication Disorders (3)
595 Seminar in School Practice (3) 683 Internship in Communication Disorders (1-3, R15)
650 Clinical Audiology (3) 695 Seminar in Articulation and Phonology (3)
660 Psychology of the Hearing Impaired (3) 696 Seminar in Language (3)
661 Private Practice: Design and Operation (3) 697 Seminar in Fluency (3)
672 Language Disorders in Adults (3) 698 Seminar in Voice (3)
673 Neurogenic Speech Disorders (3) 699 Thesis (3, R6)
674 Diagnostics (3)

Computer Information Systems (CIS)

251 Management Information Systems (3)
Management information systems in business organizations; analysis, development, design, implementation, and evaluation of computer-based information systems; computer applications in spreadsheets, word processors, and database systems.

256 Business Computer Programming (3)
Application of programming principles in business; flowcharting, coding, documentation, and testing; computer architecture and data representation. PREQ: 251.

258 Applications Development I (3)
An introduction to developing common business applications using a traditional business programming language. Students will develop programs using batch processing techniques. PREQ: 256.

293 Topics in Computer Information Systems (1-3, R3)
301 Microcomputer Applications (3)
Maximum "hands-on" experience with microcomputers and software packages, including word processing, spreadsheets, database managers, and graphics systems.

358 Applications Development II (3)
The study of state of the art tools and techniques for developing complex business applications; data organization, on-line processing, software engineering, and software maintenance. PREQ: 258.

365 Computer Architecture, Communications, and Operating Systems (3)
Architecture of modern computer systems including peripherals; data communications and networking with fault-tolerant computing; language transition; operating systems software and utilities. PREQ: 258.

389 Cooperative Education in Information Systems (1 or 3, R15). See Cooperative Education Program.

451 Operations Analysis and Modeling (3)
Simulation as a tool in commercial systems; random variate generation; normal and gamma distribution; time-domain deterministic and stochastic models; special-purpose languages. PREQ: 251; ECON 235.

453 Database Management Systems (3)
Study of database processing, design, implementation, and administration for business. Students design and implement a database using current technology. PREQ: 258.

455 Computer Information Systems Analysis and Design (3)
Systems development; requirements analysis; cost/benefit justification; software design; implementation and maintenance procedures; quality assurance; and integration of information systems into management decision-making processes. PREQ: 453.

465 Information Resource Management (3)
The strategic use of information systems in the business environment; responsibility and accountability of information resource managers; security, legal, and ethical issues; procurement and supervision of resources; resource assessment. COREQ: 455.

466 Small Business Computing (3)
Technology, software design, programming techniques, system design, and analysis related to mini- and microcomputers. PREQ: 251.

480 Independent Research in Information Systems (3)
PREQ: CIS major; permission of department head.

483 Internship in Information Systems (3, 3, 3)
484 Supervised experience using previously studied theory. S/U grading. PREQ: Junior standing, 2.00 GPA, written application, and permission of department head. Minimum of 10 hours per week.

493 Topics in Information Systems (1-3, R6)
PREQ: Permission of department head.

Graduate Courses
651 Decision Support Systems (3)
661 Systems Design (3)
662 Database Management (3)
682 Research Project in Computer Information Systems (3, R6)
693 Topics in Information Systems (1-3, R6)

Computer Science (CS)

101 Computer Concepts (1)
Computer applications including hands-on experience with word processing, spreadsheets, database management, and graphics. (F4)
130 Introduction to Computing (3)
Computer Science overview: use of applications, programming, hypertext development, topics from program translation, architecture, computer networks, artificial intelligence, and social implications.

141 BASIC Programming (2)
Introduction to BASIC programming: a structured approach to include graphics, arrays, subroutines, and files.

150 Problem Solving and Programming I (3)
Problem-solving and algorithm development using an object-based programming language: classes, selection, iteration, arrays, and generic classes. COREQ: MATH 130 or equivalent.

151 Problem Solving and Programming II (3)
Object-oriented program development and elementary data structures: pointers and dynamic allocation, generic classes and inheritance, recursion, linked lists, stacks, and queues. PREQ: 150.

250 Introduction to Computer Systems (3)
The computer architecture and system call interfaces; assembly language programming; implementation of system calls; linking, exceptions, interrupt handling, and input/output. PREQ: 150.

301 High-Level Languages (3, R9)
ADA, C, PROLOG, LISP, or other languages approved by the department head. Can be repeated for credit with different languages. Elective credit for CS majors restricted to 3 hours.

303 Digital Logic (3)
Binary systems, Boolean algebra, combinational logic, synchronous sequential logic, asynchronous sequential logic. PREQ: MATH 146 and some programming logic.

304 Digital Logic Laboratory (1)
Laboratory experience to enhance topics from CS 303. PREQ: 303, MATH 146, some programming experience.

310 (MATH 310) Discrete Structures (3)
Graph theory: planarity, eulerian, hamiltonian colorings, and trees. Enumeration: permutations, combinations, binomial distribution, generating functions, recurrence relations, and inclusion-exclusion. PREQ: MATH 146. COREQ: CS 351.

320 Computers and Society (3)
Brief history of computers; survey of growth of applications and current social issues to include legal issues as they relate to businesses and the individual.

340 Introduction to Scientific Computing (3)
Floating point representations, round-off errors, nonlinear equations, numerical integration, data analysis, and numerical differentiation. Survey software packages and other technology. PREQ: MATH 140 or 153 and some programming experience.

350 Introduction to Computer Organization (3)
Introduction to computer arithmetic, processor organization and design, micro-programming and control unit design, memory organization, I/O organization. PREQ: 250 and 303.

351 Data Structures (3)
Object-oriented program development and advanced data structures: recursion, analysis of execution time, sorting and searching, trees, hash tables, and elementary graph algorithms. PREQ: 151. COREQ: 310.
352 Organization of Programming Languages (3)
Language processors, data and data control, operations, sequence control, storage management, operating environment, syntax, and translation. PREQ: 151.

360 Theory of Computation (3)
An introduction to finite automata and regular expressions, context-free languages, Turing machines, Church's thesis and recursive functions, uncomputability, and computational complexity. PREQ: 310 or permission of instructor.

361 Computer Graphics (3)
Storage tube and raster scan graphics terminal technologies, language and data structures for graphics, 2-D and 3-D graphics and transformations; plane and space curves, surface generation. PREQ: 150 or 340.

370 Operating Systems (3)
Concurrency (synchronization primitives and deadlock) and implementation of the operating system kernel (process management, memory management, and file systems); introduction to computer networks. PREQ: 250.

389 Cooperative Education in Computing (1 or 3, R15) See Cooperative Education Program.

393 Topics in Computer Science (1-3, R6)
PREQ: Permission of department head

441 (MATH 441) Introduction to Numerical Analysis (3)
Finite differences, interpolation, numerical integration and solutions to ordinary differential equations, linear systems, eigenvalues, eigenvectors, errors. PREQ: MATH 254 or MATH 262; MATH 255; and CS 150.

443 Automata and Formal Languages (3)
Phrase structure grammar, context-free languages; finite state machines, pushdown acceptors, Turing machine, recursiveness, and computability. PREQ: MATH 310.

451 Algorithms (3)
Selected topics from the theory of algorithms. Topics may include algorithms for parallel computers, polynomials and FFT, number-theoretic algorithms, and computational geometry. PREQ: 351.

452 Advanced Computer Architecture (3)
Advanced topics in computer architecture including pipelining, multiple and parallel processing systems, issues in performance enhancement, data flow computers, and VLSI computations. PREQ: 350.

453 Database Systems (3)
Relational query languages (SQL), database design, normal forms, storage structures, access methods, query processing, crash recovery, transactions, distributed databases, object-oriented and multimedia databases. PREQ: 151 and 250.

455 Computer System Performance Analysis (3)
Performance evaluation of computer systems and computer networks; measurement and benchmarks, simulation, and analytical models (stochastic processes and queueing theory). PREQ: 370 and MATH 270.

460 Compiler Construction I (3)
Grammar and finite-state automata; parse trees; top-down and bottom-up parsing; LL(k) and LR(k) grammar; syntax-directed translation; term project. PREQ: 351.

462 Systems Programming (3)
Advanced implementation issues in the design of the software of computer systems with a focus on parallel and distributed systems. PREQ: 370.
463 Software Engineering (3)
Software development methodologies in very large programming tasks; object-oriented design; information hiding; concurrent processing. PREQ: 250.

464 Microcomputer Development (3)
Software and hardware development and interfacing for dedicated microcomputer applications. PREQ: 350 or PHYS 302 or IET 371. 2 Lecture, 2 Lab.

465 Computer Networks (3)
Protocol layers, error control, media access, routing, congestion control, TCP/IP, name resolution, socket programming, client-server, interface definition languages, component APIs. PREQ: 151 and 250.

479 Capstone (2)
An independent study in which the student develops a project or thesis which demonstrates an understanding of the computer science principles learned while completing the requirements for the major. PREQ: Senior standing.

480 Artificial Intelligence (3)
Machine intelligence; problem reduction, state space search, game trees, expert systems; resolution principle; introduction to LISP. PREQ: 351.

493 Topics in Computer Science (1-6, R6)

Graduate Courses

Counseling (COUN)

140 Study Techniques for College (1)
Study techniques and skills, motivation for learning, use of the library, reading improvement laboratory. 1 Lecture, 1 Lab.

430 Individual and Group Counseling (3)
Principles and techniques of individual and group counseling, communication techniques, and participation in role playing and group processes.

450 Career Development and Guidance (3)
History of vocational guidance; theories of vocational choice; development of vocational maturity; interests, aptitudes, and other factors in vocational development.
Criminal Justice (CJ)

250 The Criminal Justice System (3)
Evaluation of formal institutions dealing with crime in Western culture; overview of major components of the criminal justice system.

311 The Juvenile Justice Process (3)
The phenomenon of juvenile delinquency; evaluation of a unique justice system for children; related concerns, problems, and expectations. PREQ: 250.

320 The Law Enforcement Process (3)
Philosophical, historical, and operational aspects of law enforcement agencies and processes within a framework of social control in a democratic society. PREQ: 250.

330 Courts and Criminal Procedure (3)
State and federal court systems, criminal judicial process, and rights of the individual. PREQ: 250.

340 The Corrections Process (3)
Examination of modern corrections through review of penal history, theory, and practice. PREQ: 250.

350 Criminal Justice Theory (3)
Theories of law, justice, punishment, and crime causation. PREQ: 250.

352 Planning and Methodology (3)
Planning as a process of criminal justice decision making using contemporary methods and techniques.

370 Ethics in Criminal Justice (3)
Examination of ethical issues in the criminal justice field. PREQ: 250.

389 Cooperative Education (1 or 3, R15)
See Cooperative Education Program. Credit will not be given for both 483 and 389.

404 Substantive Criminal Law (3)
The nature and definition of substantive criminal offenses; examination of federal and state law; principles of criminal liability, defenses, and complicity. PREQ: 250.

406 Criminal Justice Administration (3)
Procedural aspects of statutory and case law affecting the administration of law enforcement and the control of police conduct.

410 Victimology (3)
A study of the experiences of crime victims with the criminal justice system as well as victim characteristics, vulnerability, and culpability. PREQ: 250.

420 Criminal Investigations (3)
An analysis of methods used in conducting criminal investigations.

423 Criminalistics (3)
A survey of methods and techniques used in the scientific investigation of criminal offenses.

424 Community Corrections (3)
Development, organization, operation, and results of probation and parole systems as substitutes for incarceration.

425 Police Tactical Theory (3)
Theories related to the development of police policy concerning appropriate responses to dangerous and potentially lethal confrontations.

430 Criminal Evidence (3)
Examination of the rules of evidence and courtroom procedures in criminal trials.
440 Organized Crime (3)
Examination of traditional and emerging organized crime groups and their impact on society and the criminal justice field.

454 Comparative Criminal Justice Systems (3)
Law enforcement and correctional and court subsystems in the Western world today.

460 Drug Abuse (3)
An examination of drugs of abuse and the evolution of drug laws, law enforcement, and correctional responses for drug offenders.

480 Independent Study in Criminal Justice (1-3, R6)

482 Senior Directed Research (3)
Directed research/independent study in criminal justice. PREQ: 352

483 Internship in Criminal Justice (3-12, R12)
Supervised applications of academic study in a practical criminal justice setting. Credit not given for both 389 and 483. PREQ: Junior standing; permission of instructor; 250, 320, 330, 340; and 2.0 GPA. 135 hours per 3 credits.

493 Topics in Criminal Justice (1-3, R12)
PREQ: Approval of department head.

495 Seminar on Criminal Justice Problems (1-3, R6)
PREQ: Approval of department head.

Graduate Courses
524 Probation and Parole (3)
593 Topics in Criminal Justice (1-3, R9)
620 Law Enforcement Administration (3)
640 Correctional Administration (3)
680 Independent Study in Criminal Justice (3, R6)

Curriculum and Instruction (EDCI)
200 Seminar in Leadership Development (1, R4)
Leadership development through seminars with university and public-school professionals, field trips, and service projects. PREQ: Admission to the North Carolina Teaching Fellows program.

230 Peer Tutor Training (1, R2)
Principles and techniques of tutoring. PREQ: Permission of instructor. 1 Lecture, 2 Lab.

231 Historical, Social, and Philosophical Foundations of Education (3)
An introductory study of the broad historical, sociological, and philosophical aspects of education. Field experience required.

300 Seminar in Teaching and Research (1, R3)
Leadership development through seminars, projects with mentors, and independent study. PREQ: Admission to the North Carolina Teaching Fellows program and to the professional education sequence.

480 Reading and Research in Education (3)
PREQ: Permission of department head.

Graduate Courses
503 Social Studies in the Secondary School (3)
506 Contemporary Philosophies of Education (3)
601 Educational Sociology (3)
602 Methods of Research (3)
603 Comparative Education (3)
604 Curriculum Development (3)
605 Foundations of Modern Education (3)
606 Statistical Analysis in Research (3)
609 Educational Tests and Measurements (3)
611 Qualitative Research (3)
612 Principles and Application of Educational Research Methods and Analysis (3)
615 Philosophy, History, and Sociology of Education (3)
618 Theory in Practice in the Subject Area Classroom (3)
693 Topics in Education (1, R3)
699 Thesis (4)
700 Philosophy of Education (3)
702 Research Seminar in Curriculum (3)
705 Advanced Research Methods (3)
800 Issues in Rural Education (3)
801 Mega Theory: Research Review and Applications (3)
802 Program Planning and Evaluation (3)
895 Doctoral Research Seminar (3)
Earth Sciences (ESI)

471 Field Studies of Selected Regions (3, R6)
Interdisciplinary group project on a designed region; a two-week field trip following spring final exams. Cost to be determined. PREQ: Junior standing, GEOL 150 or GEOG 150, and permission of instructor.

Economics (ECON)

103 (311) Economics of Comparative Cultures (3)
Analysis of the effects of differing institutions and values in various cultural systems on the level of output or per capita income, including ownership of the means of production, economic activities and incentives, and price-making forces. (P4)

104 (312) Contemporary Economic Institutions (3)
Examination of changes in Western economic institutions; interrelationships of economic, social, and political changes; impact of changes on decision making, economic policy options, and current issues. (Plb)

130 Survey of Economics (3)
Principles of micro- and macro-economics; market system; analysis of current economic conditions, fiscal and monetary policy. Not open to students with credit in 231 or 232.

231 Introductory Microeconomics and Social Issues (3)
Microeconomic principles, the market system, supply and demand, pricing, market structures, resources markets.

232 Introductory Macroeconomics and Social Issues (3)
Macroeconomic principles; alternative theories of economic instability; national income, fiscal policy, monetary policy, and international trade.

235 Statistics (3)
Measures of central tendency, probability analysis, inferences to populations from large and small samples using univariate, bivariate, and multivariate distributions. PREQ: MATH 130.

302 Economics of the Firm (3)
The price mechanism and allocation of resources under competition, monopoly, and imperfect competition; applications to decision making. PREQ: 231, 232; MATH 130.

303 Money, Financial markets, and Economics Policy (3)
Monetary systems and standards; factors determining money supply; the role of commercial and central banks. PREQ: 231, 232.

304 Business Conditions Analysis (3)
evaluation of business indicators; techniques for analyzing current business conditions and forecasting changes in levels of national economic activity. PREQ: 231, 232, 235.

305 Public Finance (3)
Governmental expenditures; sources of revenue, public credit, principles and methods of taxation and financial administration; fiscal policy.

306 Economics of Transportation (3)
Characteristics and problems of intercity transportation modes and agencies. PREQ: Any 3 hours in economics.

307 Regional Economic Analysis (3)
Regional structure and growth; location theory, interregional income theory, factory mobility; public policy for regional development. PREQ: Any 3 hours in economics.
308 Government and Business (3)  
Governmental regulation of business; evolution of control, methods, and agencies.  
PREQ: Any 3 hours in economics.

309 International Economics (3)  
Trade patterns among nations; effects of trade on participant countries; tariffs and  
quotas; balance of payments, exchange rates, international monetary system.  
PREQ: 231, 232.

310 Natural Resource Economics (3)  
Economic policy regarding renewable and nonrenewable resources; environmental and  
ergy economics.  
PREQ: 130 or equivalent.

389 Cooperative Education in Economics (1 or 3, R15).  
See Cooperative Education Program.

401 Comparative Economic Systems (3)  
Economics under capitalism, socialism, communism, and fascism; organization of  
production; decision making; problems of underdeveloped nations.  
PREQ: Any 3 hours in economics.

403 Development of Economic Ideas (3)  
Ideas of the great economists; great debates in economics.  
PREQ: Any 3 hours in economics.

404 Introductory Mathematical Economics (3)  
Functions, graphs, calculus, and systems of equations applied to economic analysis.  
PREQ: 231, 232; MATH 130.

406 International Economic Development (3)  
Institutional forces shaping economic development; developed and less-developed  
nations compared; population growth, capital formation, educational improvement.  
PREQ: 231, 232.

480 Independent Research (3)  
PREQ: Permission of department head.

483, 484, 485 Internship in International Business (3, R9)  
Work experience in international business.  
S/U Grading.  
PREQ: Junior standing, 2.0 GPA, written application, permission of department head; minimum of 10 hours per week.

493 Topics in Economics (1-3, R6)  
PREQ: Permission of department head.

Graduate Courses  
607 Managerial Economics (3)  
608 Business and Managerial Forecasting (3)  
609 International Economics (3)  
682 Research Project in Economics (3, R6)  
693 Topics in Economics (3, R6)

Education and Psychology (EDPY)  
493 Topics in Education and Psychology (1-3, R6)

Graduate Courses  
591 Topics in Education and Psychology (1, R3)  
592 Topics in Education and Psychology (2, R6)  
593 Topics in Education and Psychology (3, R6)  
691 Topics in Education and Psychology (1, R3)  
692 Topics in Education and Psychology (2, R6)  
693 Topics in Education and Psychology (3, R6)  
793 Topics in Education and Psychology (3, R12)
Educational Administration (EDAD)

Graduate Courses
600 Theory and Foundations of School Administration (3)
610 The Principalship (3)
611 Educational Organizations (3)
612 Leadership Theory (3)
620 School Law (3)
630 School Finance and Business Management (3)
640 School Plant Planning and Management (2)
650 School Personnel Administration (3)
660 School-Community Relations (2)
680 Problems in School Administration (1, R3)
681 Independent Study (1)

684 Elementary Principal Internship (1)
685 Secondary Principal Internship (1)
686 School Site Internship I (3)
687 School Site Internship II (3)
693 Topics in Administration (1, R3)
695 Seminar in the Principalship (2)
700 The Superintendency (3)
701 (EDHE 710) Administration of Two-Year Colleges (2)
710 The Politics of Educational Decision Making (3)
731 Policy Development and Analysis (3)
783 Internship in School Administration (2)
795 Seminar in School Administration (2)

686 Secondary Principal Internship (1)
687 School Site Internship II (3)
693 Topics in Administration (1, R3)
695 Seminar in the Principalship (2)
700 The Superintendency (3)
701 (EDHE 710) Administration of Two-Year Colleges (2)
710 The Politics of Educational Decision Making (3)
731 Policy Development and Analysis (3)
783 Internship in School Administration (2)
795 Seminar in School Administration (2)

Educational Leadership (EDL)

Graduate Courses
630 School Improvement (3)
732 Computer Applications in Educational Administration (3)
800 Advanced Leadership Theory (3)
810 Behavior and Management of Educational Organizations (3)
883 Internship in Rural School Leadership I (3)

684 Internship in Rural School Leadership II (3)
685 Internship in Rural School Leadership III (3)
896 Seminar in School Law (3)
898 Doctoral Seminar in Educational Leadership (3)
899 Dissertation in School Leadership (3, R12)

Educational Supervision (EDSU)

Graduate Courses
605 Principles of Supervision (3)
615 Techniques of Supervision (3)
620 School-Based Instructional Leadership (3)
630 School Improvement (3)
635 Supervision of the Novice Teacher (3)
680 Problems in Supervision (1, R3)

685 Internship in Supervision (2)
693 Topics in Supervision (1, R3)
705 Leadership for Educational Programs (3)
785 Internship in Supervision (2)
795 Seminar in Supervision (2)
895 Advanced Seminar in Instructional Leadership (3)

Electronics Engineering Technology (EET)

141 Electronic Drafting (1)
Study of drafting and graphics relating to the field of electronics. 2 Lab.

142 Electronic Fabrication (1)
Study of methods used to assemble and construct electronic circuits and equipment. 2 Lab.

231 Circuit Analysis I (4)
Fundamental electrical theory involving DC/AC circuits. Topics include series, parallel, series-parallel networks; electromagnetic theory; transient circuit analysis; introduction to AC electricity. PREQ: MATH 145, 146. 3 Lecture, 2 Lab.

232 Circuit Analysis II (4)
Fundamentals of DC/AC circuits. Topics include AC series, parallel, series-parallel circuits; analysis techniques; network theorems; resonance; and transformers. PREQ: 231. 3 Lecture, 2 Lab.

241 Digital Integrated Circuits I (3)
Study of combinational and sequential digital circuits using integrated circuits techniques. COREQ: 231. 2 Lecture, 2 Lab.

301 DC/AC Electricity (3)
Direct current and alternating current electricity. Topics include Ohm's Law, series, parallel and series-parallel circuits, transformers and measurement techniques. Not open to EET majors. PREQ: MATH 144 or 145 and PHYS 130. 2 Lecture, 2 Lab.
302 **Industrial Instrumentation and Control (3)**
Control system components and applications, control diagrams, solid-state components, industrial motors and controls, programmable controllers. Not open to EET majors. PREQ: 301 or permission of instructor. 2 Lecture, 2 Lab.

311 **Solid State Devices (4)**
Theory of discrete semiconductor devices and their applications. PREQ: 141, 142, 232. 3 Lecture, 2 Lab.

312 **Analog Integrated Circuits (4)**
Study of analog circuits including amplifiers, regulators, interface circuits, and special applications. PREQ: 311. 3 Lecture, 2 Lab.

331 **Digital Integrated Circuits II (3)**
Continuation of 241 including the study of digital system organization and design. PREQ: 241. 2 Lecture, 2 Lab.

332 **Microcontrollers (3)**
Study of contemporary 8-bit microcontrollers. Microcontroller architecture, programming, and interfacing. PREQ: 241. 2 Lecture, 2 Lab.

341 **Advanced Circuit Analysis (3)**
Study of linear systems; introduction to digital signal processing. PREQ: 232; MATH 153. COREQ: MATH 255.

352 **Industrial Controls and Machines (3)**
Electrical power; AC/DC machines; control devices and diagrams; programmable logic controllers. PREQ: 232 or 301 or IT 370. 2 Lecture, 2 Lab.

431 **Microprocessor Fundamentals (3)**
Study of microprocessor fundamentals including integrated circuit architecture, instruction sets, and machine assembly language programming. PREQ: 332. 2 Lecture, 2 Lab.

432 **Microprocessor Fundamentals (3)**
Continuation of 431 including the study of interfacing of microprocessor and integrated circuits into complex systems. PREQ: 431 or equivalent. 2 Lecture, 2 Lab.

441 **Communication Systems (4)**
A study of information transmission and modulation systems. Includes both analog and digital techniques used in radio and data communications. PREQ: 241, 312. 3 Lecture, 2 Lab.

452 **Control Systems (4)**
Fundamental principles of control theory and instrumentation with particular applications in manufacturing processes. PREQ: 241, 312, 341. 3 Lecture, 2 Lab.

478 **Senior Design Project Proposal (1)**
Research methodology, literature review, and industrial writing styles, culminating in a written report proposal for a senior project. S/U Grading. PREQ: Senior standing and permission of instructor.

479 **Senior Design Project (3)**
Organizing, planning, and implementing a project using acceptable industrial techniques culminating in a formal written report and oral presentation. PREQ or COREQ: 478. 1 Lecture, 4 Lab.

493 **Special Topics (1-3, R6)**
PREQ: Permission of instructor.

**Elementary Education (EDEL)**

230 **Introduction to Teaching (2)**
Teaching as a profession; the role and function of the teacher in the school and community. Recommended for any student considering teaching as a career.
303 Literature for Children and Youth (3)
Teaching literature in the elementary and middle grades schools; function of literary experiences in the total language arts program. PREQ: Admission to the professional education sequence.

310 The Middle School Child and Curriculum (3)
Programs, methods, and materials for students in the middle grades. PREQ: Admission to professional education sequence.

312 Elementary School/Methods and Curriculum (3)
Methods, materials, and curriculum for children from kindergarten through grade 6. PREQ: Admission to the professional education sequence.

313 Literacy and Numeracy (3)
A study of emergent literacy and numeracy in young children from a developmental and constructivist perspective. Includes regular observation and data collection. PREQ: Admission to program.

314 (BK, SPED) Kindergarten Curriculum (3)
Overview of models for K-3 curriculum for typical and atypical children in home and school environments.

315 Elementary/Middle Grades Communication Skills (3)
Teaching methods, materials, and curriculum development in the language arts, grades K-9. PREQ: Admission to the professional education sequence.

316 Elementary/Middle Grades Science (3)
Teaching methods and curricular development in science, grades K-9; materials and teaching strategies. PREQ: Admission to the professional education sequence.

317 Elementary/Middle Grades Social Studies (3)
Methods, materials, and strategies for teaching social studies in grades K-9. PREQ: Admission to the professional education sequence.

318 Elementary/Middle Grades Mathematics (3)
The development of mathematical concepts; programs, methods, and materials for grades K-9. PREQ: MATH 231 and admission to the professional education sequence.

366 (BK, SPED) Infant Curriculum (3)
Scope and sequence of developmental curricula in all areas of infant development and learning; methods of providing individual and group intervention through a variety of formats. 2 Lecture, 3 Lab. PREQ: CDFR 360.

390 Practicum I, II (1-2)
Supervised observation and participation in a public school classroom. PREQ: Admission to professional education sequence and permission of instructor. One day per week for 390; two days per week for 391.

465 Teaching the Child in Crisis (3)
Exploration of crisis situations to improve teacher competency; methods for dealing with the child in crisis at various developmental levels.

466 Computers in Education (3)
The use of computers in school settings; emphasis on instructional applications, issues, and trends.

467 Adolescent Literature (3)
The reading development and reading interests of adolescents; criteria for evaluation; instructional strategies; study of a wide range of books.

470 (BK, SPED) Early Childhood Curriculum (3)
Materials, environments, and interactions for 2-5 year olds in all curricular areas including thinking and social problem-solving for typical and atypical children. 2 Lecture, 3 Lab. PREQ: 366.
476 Discipline and Classroom Control (2)  
Methods, techniques, and theories of classroom control; emphasis on Glasser, Assertive Discipline, T.E.T., T.A., and behavior modification. COREQ: 490, 495.

486 Field Experience in Teaching (3, R6)  
Supervised experience for a second teaching certification or for an initial certification for individuals who are employed as full-time teachers. 9 hours per week.

490 Supervised Student Teaching (9)  
A full-time internship under university supervision. COREQ: 476, 495.

491 (BK, SPED) Internship (4, R8)  
Observing, planning, teaching, and evaluating young children in typical and atypical settings. COREQ: BK 496.

495 Seminar for Student Teachers (3)  
Theory related to practice during student teaching. COREQ: 476, 490.

496 (BK, SPED) Internship Seminar (1, R2)  
The interrelationships of theory and practice in the context of experience. COREQ: BK 491.

Graduate Courses  
566 Computers in Education (3)  
567 Adolescent Literature (3)  
575 Discipline and Classroom Management (3)  
580 Independent Study (3)  
593 Topics in Elementary Education (3)  
601 Elementary School Curriculum (3)  
602 Individualizing Instruction (3)  
603 Elementary Science Curriculum (3)  
604 Elementary Social Studies Curriculum (3)  
605 Elementary Math Curriculum (3)  
607 Mathematical Problem Solving in Elementary/Middle School (3)  
608 Diagnosis and Remediation in Elementary/Middle School Math (3)  
614 Issues and Trends in Early Childhood Education (3)  
618 Curriculum for Middle Grades Education (3)  
620 Philosophy and Mission of Middle Grades Education (3)  
622 Teaching-Learning Strategies for the Middle Grades (3)  
653 Advanced Children's Literature (3)  
666 Projects in Educational Computing (3)  
670 Practicum in Middle Grades Education (1-3, R3)  
675 Workshop in Elementary Education (3)  
680 Independent Study (1-3, R6)  
695 Research Seminar in Elementary Education I (3)  
696 Research Seminar in Elementary Education II (3)  
697 Research Seminar in Middle Grades Education I (3)  
698 Research Seminar in Middle Grades Education II (3)  
701 Seminar in Elementary School Curriculum (3)  
714 Programs in Elementary Education (3)  
715 Programs in Elementary Education (3)  
718 Philosophy and Curriculum for Middle Schools (3)  
770 Advanced Practicum (3, R6)  
782 Research in Elementary Education (3)  
795 Advanced Research Seminar in Elementary Education I (3)  
796 Advanced Research Seminar in Elementary Education II (3)  
797 Advanced Research Seminar in Middle Grades Education I (3)  
798 Advanced Research Seminar in Middle Grades Education II (3)

Emergency Medical Care (EMC)  
340 Introduction to Clinical Medicine (4)  
The role and responsibilities of the paramedic; basic medical terminology; patient assessment, including history taking and physical examination techniques. PREQ: EMC major or permission of program director. 2 Lecture, 2 Lab.

350 Cardiology (2)  
Pathophysiology, assessment, and treatment of cardiac emergencies. PREQ: 340, 351, or permission of instructor. 2 Lecture, 1 Lab.

351 Basic ECG Interpretation (1)  
ECG interpretation in the monitoring leads. PREQ: Permission of instructor.

360 Acute Fluid and Respiratory Disorders (2)  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>361</td>
<td>Advanced Emergency Medical Techniques (1)</td>
<td>Traditional techniques of intravenous and respiratory therapy; introduction to new techniques.</td>
<td>PREQ: 340; HSCC 370. COREQ: 360. 3 Lab.</td>
</tr>
<tr>
<td>370</td>
<td>Medical Emergencies (3)</td>
<td>Assessment and advanced life-support for non-traumatic medical emergencies.</td>
<td>PREQ: 340 and HSCC 370 or permission of program director.</td>
</tr>
<tr>
<td>382</td>
<td>Clinical Practicum I (1)</td>
<td>Development of clinical competency in patient assessment skills.</td>
<td>PREQ: 340 and permission of program director.</td>
</tr>
<tr>
<td>389</td>
<td>Cooperative Education in EMC (1 or 3, R12)</td>
<td>Assessment and advanced life-support for non-traumatic medical emergencies.</td>
<td>PREQ: HSCC 389. See Cooperative Education Program.</td>
</tr>
<tr>
<td>410</td>
<td>Trauma Management (3)</td>
<td>Assessment and management of traumatic emergencies, including patient access, stabilization, and transport; radio communications and use of ALS protocols.</td>
<td>PREQ: 360. 2 Lecture, 3 Lab.</td>
</tr>
<tr>
<td>420</td>
<td>Maternal and Child Emergency Care (3)</td>
<td>Obstetrical, gynecological, and pediatric emergencies.</td>
<td>PREQ: 340 and HSCC 370 or permission of program director.</td>
</tr>
<tr>
<td>430</td>
<td>Special Needs Patients (2)</td>
<td>Assessment and emergency care of the elderly and handicapped.</td>
<td>PREQ: 360 or permission of program director.</td>
</tr>
<tr>
<td>445</td>
<td>EMC Systems Management (3)</td>
<td>Planning and managing an emergency medical services system. Emphasis on demand analysis, staffing, medical direction, reimbursement, capital investment, and cost control.</td>
<td>PREQ: HSM 310.</td>
</tr>
<tr>
<td>451</td>
<td>Advanced ECG Interpretation (1)</td>
<td>Advanced electrocardiography including 12-lead ECG interpretation.</td>
<td>PREQ: 350, 351.</td>
</tr>
<tr>
<td>452</td>
<td>Advanced Cardiac Life Support (1)</td>
<td>The American Heart Association course leading to certification in advanced cardiac life support.</td>
<td>PREQ: 483 or permission of program director.</td>
</tr>
<tr>
<td>482</td>
<td>Independent Study in Emergency Medical Care (2)</td>
<td></td>
<td>PREQ: Permission of instructor.</td>
</tr>
<tr>
<td>483</td>
<td>Clinical Practicum II (1, R4)</td>
<td>Experience to develop clinical competency in advanced life support assessment and skills.</td>
<td>PREQ: 350, 360, 370. 12 Lab hours.</td>
</tr>
<tr>
<td>484</td>
<td>Clinical Practicum III (2)</td>
<td>Advanced clinical rotations in a hospital setting.</td>
<td>PREQ: 420, 483. 8 Lab.</td>
</tr>
<tr>
<td>485</td>
<td>MICU Practicum (1, R3)</td>
<td>Supervised field experience on mobile intensive care units.</td>
<td>PREQ: 410, 420, 483. 9 Lab.</td>
</tr>
<tr>
<td>487</td>
<td>Advanced MICU Practicum (2, R8)</td>
<td>Supervised field experience on mobile intensive care units to review, update, and maintain skills.</td>
<td>PREQ: 485 or current paramedic certification; permission of program director. 8 Field.</td>
</tr>
<tr>
<td>488</td>
<td>EMC Management Internship (2, R4)</td>
<td>Supervised management experience with an approved emergency medical service provider or regulator.</td>
<td>PREQ: EMC major and permission of program director. 5 weeks, full time.</td>
</tr>
</tbody>
</table>
493 Topics in Emergency Medical Care (1-3, R6)

496 Senior Seminar in Emergency Medical Care (1)
Overview of current EMS practice. Examination of issues related to professionalism and scope of practice. PREQ: Senior EMC major. 2 Seminar.

English (ENGL)

100 Basic Writing Skills (3)
Students with insufficient preparation in English as determined by placement scores must pass this course before enrolling in 101. Credit earned in this course will not count toward 128 hours required for graduation.

101 Composition I (3)
Assigned readings; writing exercises emphasizing organization and development of formal compositions. PREQ: Satisfactory placement score or pass ENGL 100. (F1)

102 Composition II (3)
Writing exercises based on the critical analysis of literary selections and other appropriate models; techniques of library research and documentation. PREQ: 101. (F1)

Note: ENGL 101 and 102 must be taken and passed in sequence. These courses are prerequisite to all courses in English above the freshman level.

131 American English for Non-Native Speakers I. (3)
Prepares students for the required composition courses (101 and 102). Exceptional performance in 131 may, if criteria are met, result in a waiver for 101.

132 American English for Non-Native Speakers II (3)
A specialized writing and mechanic skills class providing further preparation for composition courses. Exceptional performance and satisfaction of other criteria may result in waiver of 101.

201 Literary Landmarks in Western Culture (3)
Systematic study of the human attitudes of classicism, romanticism, and realism; their causes, effects, and expression in Western culture as reflected in major literary works. (P5)

203 Major American Writers (3)
Selections from the works of Franklin, Poe, Thoreau, Melville, Hawthorne, Whitman, Dickinson, Twain, Fitzgerald, Frost, Hemingway, Faulkner, and others. (P3a)

204 Cultures in Contact and Collision (3)
Examination of what happens when differing cultures meet or converge as reflected in literature, written and on film; literature as a key to better understanding of cultures differing markedly from our own. (P4)

251 Survey of English Literature I (3)
Major periods of English literature from the beginnings through the 18th century, emphasizing backgrounds and styles characteristic of each period.

252 Survey of English Literature II (3)
Major periods of English literature from the 19th century through the present, emphasizing backgrounds and styles characteristic of each period.

300 Foundation Composition (3)
Required of transfer students who fail the English Proficiency Examination and of any undergraduate who receives two Composition Condition marks.

303 Introduction to Professional Writing (3)
Career opportunities and practices in professional writing; development of professional writing and editing skills in fiction and nonfiction; preparation of manuscripts for publication.
305 **Technical Writing** (3)
Writing and editing technical manuals and reports; layout and production of technical document with practice in computer applications.

306 **Nonfiction Writing** (3)
Writing and editing nonfiction for academic and commercial publications; specialized audience analysis; preparation of manuscripts for presentation at professional conferences. **PREQ:** 303 or permission of instructor.

307 **Professional Editing and Publishing** (3)
Advanced practicum in student's chosen area in professional writing; editing practices and production; copyright and libel law. **PREQ:** 303 or permission of instructor.

308 **Fiction Writing** (3, R6)
Study and practice of technique and form in fiction writing; workshop discussion of students' stories and assigned exercises; original work and revision. **PREQ:** 303 or permission of instructor.

309 **Poetry Writing** (3, R6)
Study and practice of technique and form in poetry writing, emphasizing traditional as well as free verse; analysis of contemporary poetry; students' poetry read for class criticism. **PREQ:** 303 or permission of instructor.

310 **Screenwriting** (3)
Introduction to writing teleplays and screenplays; preparation of original manuscripts for agents. **PREQ:** 303 or permission of instructor.

311 **History of the English Language** (3)
Origins and development of the English language from the beginnings to the present.

312 **Grammar for Writing** (3)
Standard written American English as dictated by current editorial practice.

314 **Methods for Teaching English** (3)
Methods, materials, curriculum, and trends in teaching in the secondary schools. **PREQ:** Admission to the teacher education program.

330 **Introduction to Literary Criticism** (3)
Application of major critical approaches to the study of fiction, poetry, and drama. **PREQ:** 101, 102.

333 **Introduction to Shakespeare** (3)
General survey of Shakespeare's life, times, and most popular plays; not applicable to English majors.

361 **Survey of American Literature I** (3)
A survey of American literature from the beginnings through the Romantics.

362 **Survey of American Literature II** (3)
A survey of American literature from the early Realists to the present.

365 **African-American Writings** (3)
A survey of writings by African-American authors, from the earliest slave narratives through contemporary fiction and nonfiction.

367 **Appalachian Literature** (3)
A survey of the poetry, fiction, and non-fiction works from the Southern Appalachian region with particular emphasis on cultural and historical themes of the region. **PREQ:** 101 and 102.

370 **The Short Story** (3)
History and development of the short story in Western literature.
389 Cooperative Education: Professional Writing (1 or 3, R15)
PREQ: 303. See Cooperative Education Program.

401 Writing for Careers (3)
Writing and editing strategies for the marketplace; writing memos, letters, resumes, reports, and other documents used in the professions; basic computer applications.

405 Advanced Creative Writing (3)
Intensive study and practice of creative writing; emphasis on required individual projects. PREQ: Satisfactory writing sample and permission of instructor.

412 Modern English Structure (3)
Application of linguistics to the study of English; comparison of approaches to the study of grammar.

414 Fundamentals of Teaching Composition (3)
Contrastive analysis of teaching approaches: the process, rhetorical, and linguistic/stylistic approaches.

415 Linguistics (3)
The world's languages, their sound systems, word systems, and sentence patterns; relationships to culture and the mind. PREQ: Permission of instructor.

416 Teaching English as a Second Language (3)
Current trends and strategies; measuring proficiency and progress; adapting instructional materials in content areas; aspects of American culture and language that affect language learning. PREQ: 415 or permission of instructor.

420 Chaucer and His Age (3)
Chaucer's major poetry; emphasis on Troilus and Criseyde and The Canterbury Tales; selected readings from the works of contemporaries.

421 Fairy Tale Literature (3)
The genre of the fairy tale: its structure and theme; its influence on children's literature as well as mainstream literature. PREQ: Junior or senior standing.

430 English Literature of the Renaissance (3)
Representative Tudor and Jacobean prose and nondramatic poetry.

431 Shakespeare and His Age (3)

440 Milton and His Age (3)
Milton's major poems; selections from his prose; readings from works of contemporaries.

441 The Age of Pope, Swift, and Johnson (3)
Selections from the works of Pope, Swift, Johnson, and their contemporaries.

450 Major British Writers (3, R9)
Selected works of one or more important authors from a single historic period.

451 Nineteenth-Century British Writers (3)
The poetry and fiction of the major Romantic and Victorian authors, including Wordsworth, Coleridge, Keats, Shelley, Tennyson, Browning, Arnold, and Dickens.

455 The English Novel (3)
Selected 18th- and 19th-century novels of such writers as Defoe, Richardson, Fielding, Smollet, Austen, Scott, Dickens, Thackeray, and Hardy.

463 American Literature Since 1945 (3)
Post-World War II American literature and its influences from other nationalities, especially those of Latin America and Canada.
<table>
<thead>
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<th>Code</th>
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<th>Description</th>
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<tbody>
<tr>
<td>464</td>
<td>Native American Literature</td>
<td>3</td>
<td>A survey of writings by native Americans.</td>
</tr>
<tr>
<td>470</td>
<td>Twentieth Century Commonwealth Literature</td>
<td>3</td>
<td>Poetry, fiction, and drama from the most prominent writers in those countries in which English is a common medium for literature.</td>
</tr>
<tr>
<td>471</td>
<td>Modern Poetry</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>472</td>
<td>Modern Fiction</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>473</td>
<td>Modern Drama</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>475</td>
<td>The American Novel</td>
<td>3</td>
<td>Selected novels of major American writers.</td>
</tr>
<tr>
<td>477</td>
<td>Literature and Gender</td>
<td>3</td>
<td>Study of literature by or about women; the relationship of men and women in literature; feminist issues from a literary perspective. PREQ: Senior standing.</td>
</tr>
<tr>
<td>478</td>
<td>Film as Literature</td>
<td>3, R9</td>
<td>Study of film from selected times and of selected types; special attention to literary features, such as theme, plot, and characterization, and to cinematic features.</td>
</tr>
<tr>
<td>479</td>
<td>Studies in British and American Literature</td>
<td>3, R6</td>
<td></td>
</tr>
<tr>
<td>480</td>
<td>Studies in English</td>
<td>1-3, R6</td>
<td>Independent study/directed research in English. PREQ: Permission of instructor and department head.</td>
</tr>
<tr>
<td>483</td>
<td>Writing Internship</td>
<td>3, 3, 3</td>
<td>Practical experience in a writing-related setting. S/U grading. PREQ: 303. 9 hours per week per course.</td>
</tr>
<tr>
<td>492</td>
<td>Topics in Creative Writing</td>
<td>1-3, R6</td>
<td>Study and practice of writing in a special area, e.g., the novel, drama, science fiction, juvenile literature. PREQ: 303 or permission of instructor.</td>
</tr>
<tr>
<td>493</td>
<td>Special Topics in Advanced American English for Non-Native Speakers</td>
<td>1, R6</td>
<td>An advanced academic writing skills class for upper level undergraduates whose native language is not English. Focus will be both on rhetorical style and on mechanics (grammar and punctuation). Credit not applicable toward hours for graduation.</td>
</tr>
<tr>
<td>496</td>
<td>Seminar in Comparative Literature</td>
<td>3</td>
<td>Literary classics in translation.</td>
</tr>
<tr>
<td>497</td>
<td>Senior Seminar in Writing</td>
<td>3</td>
<td>Capstone course for journalism and professional writing concentrations. Minors in creative writing, journalism, and professional writing may be admitted with instructor's permission. PREQ: Senior standing.</td>
</tr>
<tr>
<td>498</td>
<td>Senior Seminar in Literature</td>
<td>3</td>
<td>Capstone course for the literature concentration. PREQ: Senior standing.</td>
</tr>
</tbody>
</table>

**Graduate Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>501</td>
<td>Writing for Careers</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>505</td>
<td>Advanced Creative Writing</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>512</td>
<td>Modern English Structure</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>514</td>
<td>Fundamentals of Teaching Composition</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>515</td>
<td>Linguistics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>516</td>
<td>Teaching English as a Second Language</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>517</td>
<td>Methods of Teaching Literature</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>520</td>
<td>Chaucer and His Age</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>521</td>
<td>Fairy Tale Literature</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>530</td>
<td>English Literature of the Renaissance</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>531</td>
<td>Shakespeare and His Age</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>580</td>
<td>Studies in English</td>
<td>1-3, R6</td>
<td></td>
</tr>
<tr>
<td>589</td>
<td>Cooperative Education: Writing &amp; Editing</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>593</td>
<td>Topics in Creative Writing</td>
<td>1-3, R6</td>
<td></td>
</tr>
<tr>
<td>594</td>
<td>Special Topics in Advanced American English for Non-Native Speakers</td>
<td>1, R6</td>
<td></td>
</tr>
<tr>
<td>611</td>
<td>Writing Seminar for Teachers</td>
<td>3 or 6, R6</td>
<td></td>
</tr>
<tr>
<td>618</td>
<td>Literary Research and Bibliography</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>621</td>
<td>English Literature to 1500 Exclusive of Chaucer</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>631</td>
<td>Shakespeare</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>640</td>
<td>English Literature of the Enlightenment</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
Environmental Health (ENVH)

230 Introduction to Environmental Health Science (3)
Survey of human impacts on the environment and health problems caused by environmental factors.

310 Water Quality Control (4)
Environmental management practices related to water pollution and water quality. PREQ: 230. 3 Lecture, 2 Lab.

312 Solid and Hazardous Waste Management (3)
Techniques for management and disposal of solid and hazardous waste. Pollution problems associated with solid and hazardous waste. PREQ: Environmental health major.

320 Institutional and Residential Environment (3)
An introduction to the basic health and safety issues in modern housing and institutional settings. PREQ: 230. 2 Lecture, 2 Lab.

330 Food Protection and Sanitation (4)
Principles and techniques applied to the protection of food and milk for human consumption. 3 Lecture, 2 Lab.

340 Environmental Health Practices (3)
Environmental protection through the study of environmental topics, control methods, and techniques to enhance practice. PREQ: 230.

375 Environmental Toxicology (3)
The monitoring, effects, and control of toxic materials in the environment. Mechanisms of action of toxic chemicals in humans and other organisms. PREQ: 230; CHEM 133; and BIOL 292.

389 Cooperative Education in Environmental Health (1 or 3, R12)
PREQ: HSCC 389. See Cooperative Education Program.

430 Medical and Veterinary Entomology (4)
Vectors responsible for arthropod-borne diseases of medical and veterinary importance. PREQ: Permission of instructor. 2 Lecture, 4 Lab.

440 Air Quality Control (4)
Evaluating and monitoring air quality; effects of pollution control and lab procedures in air quality investigation. PREQ: Environmental health major. 3 Lecture, 2 Lab.

457 Industrial Hygiene (3)
Health aspects of industry relative to the environmental factors of shelter, waste, and air. PREQ: Environmental health major or permission of instructor.

458 Environmental Regulation and Law (3)
Basic concepts of environmental law including the workings of the justice system, the litigation process, witness testimony, and laws. PREQ: 230 or permission of instructor.
460 Senior Seminar in Environmental Health (1)
Exploration of current issues in environmental health. PREQ: Senior status.

470 Principles of Epidemiology (3)
Principles and applications to investigation, control, and prevention of disease. PREQ: Environmental health major or permission of instructor.

475 Environmental Program Administration (3)
Intensive study of regulatory program administration; focus on development, implementation, and evaluation of programs in the governmental sector.

480 Independent Study in Environmental Health (1-2, R4)

483 Environmental Health Internship (3, R6)
Supervised experience in an approved clinical or environmental health facility. PREQ: Environmental health major or permission of instructor. 9 weeks, full-time.

493 Topics in Environmental Health (1-3)
Studies in special areas of interest in environmental health. PREQ: 230, permission of instructor.

Graduate Courses
570 Principles of Epidemiology (3)
575 Environmental Program Administration (3)
655 Hazardous Materials and Waste Management (3)
675 Loss Control through Industrial Hygiene (3)

Family and Consumer Sciences (FCS)

171 Orientation (1)
The home economics profession; plan for personal and professional growth; career opportunities. S/U grading.

270 Optimal Living (3)
Optimizing daily living throughout the life span for individuals and families through food and nutrition, clothing and textiles, and environmental interiors.

311 Curriculum and Materials (3)
Programs for consumer, homemaking, and occupational home economics.

317 Teaching Methodology (3)
Methods and teaching strategies for application of knowledge and skill in individual and classroom instruction. Emphasis on discussion, simulation of function, and task roles. PREQ: Admission to teacher education program or permission of department head.

321 Family Finance (3)
Management of financial resources in relation to individual and family needs, goals, and values; consumer problems.

389 Cooperative Education (1 or 3, R15)
See Cooperative Education Program.

410 Consumer Strategies (3)
The relationship of individuals to their natural and man-made environments and the interplay that shapes the functioning of families as consumers. PREQ: 270.

480 Independent Study (1-3, R6)
PREQ: Permission of instructor.

483 Internship (3, 3, 3)
Integration of theory and practice in a setting appropriate to the student's career field.
485 S/U grading. 9 hours per week per course.

493 Topics in Family and Consumer Sciences (1-3, R6)
495 **Professional Seminar (1, R6)**
The role of professionalism in gainful employment and career advancement. S/U grading.

**Graduate Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>514 (IET 514)</td>
<td>Career Exploration (3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>593</td>
<td>Topics in Family and Consumer Sciences (1-3, R6)</td>
<td>652</td>
<td>Computer Applications (3)</td>
</tr>
<tr>
<td>601</td>
<td>Professional Issues (3)</td>
<td>654</td>
<td>Creative Ergonomics (3)</td>
</tr>
<tr>
<td>602 (IET &amp; OA 602)</td>
<td>Vocational Education History and Philosophy (3)</td>
<td>680</td>
<td>Independent Study (1-3, R6)</td>
</tr>
<tr>
<td>610 (IET 610)</td>
<td>Vocational/Technical Evaluation (3)</td>
<td>693</td>
<td>Topics in Family &amp; Consumer Sciences (1-3, R6)</td>
</tr>
<tr>
<td>611</td>
<td>Designing Educational Programs (3)</td>
<td>699</td>
<td>Thesis (3, R6)</td>
</tr>
</tbody>
</table>

**Finance (FIN)**

300 **Security Analysis (3)**

302 **Real Estate (3)**
Financing: sources of funds, loan contracts, mortgage analysis; role of government; real estate law.

305 **Financial Management (3)**
Financial analysis and planning; capital management and budgeting, acquisition of funds, dividend policy. PREQ: ACCT 161 or 252; and ECON 231, 232.

325 **Futures and Options Markets (3)**
Evolution, operation, and uses of futures and options markets; analysis of commodity, financial, foreign exchange, and stock index futures and options. PREQ: ECON 231, 232.

335 **Commercial Banking and Financial Institutions (3)**
Firms in the financial service industry, their organizations and functions. PREQ: 305.

389 **Cooperative Education in Finance (1 or 3, R15)**
PREQ: 2.0 GPA on courses in business. See Cooperative Education Program.

400 **Insurance Planning (3)**
Principles of risk bearing and risk analysis; economics of risk and insurance. PREQ: 305.

401 **Life Insurance (3)**
Functions and uses of life insurance; contract analysis; legal aspects; group policies.

403 **Real Estate Brokerage and Finance (3)**

405 **Corporate Financial Decisions (3)**
Sources and forms of long-term financing, financial structure, dividend policy, timing of financial policy, mergers, and failure. PREQ: 305. COREQ: ACCT 301 and FIN 495.

406 **Investment Strategies (3)**
Investments for individuals, institutions, and business; securities and securities markets. PREQ: 305.

407 **International Finance (3)**
International financial environment, exchange rate behavior, exchange rate risk management, and multinational business asset and liability management. PREQ: 305.
409 Entrepreneurial Finance (3)
Problems in cash management; financing small business; problems associated with new ventures. PREQ: 305, MGT 401.

480 Independent Research (3)
PREQ: Permission of department head.

483, 484, 485 Internship in Finance (3, R9)
Work experience in finance. S/U grading. PREQ: Junior standing, 2.0 GPA, written application, permission of department head, minimum of 10 hours per week.

493 Topics in Finance (1-3, R6)
PREQ: Permission of department head.

495 Seminar in Financial Management (3)
Analysis of problems in business finance using the case method. PREQ: 305. COREQ: ACCT 301 and FIN 405, or permission of instructor.

496 Seminar in Financial Planning (3)
Integration of alternative investment instruments and opportunities, tax planning and strategies, retirement and estate planning, with computer software applications. PREQ: 305 and 406.

Graduate Courses
601 Financial Management (3) 682 Research Project in Finance (3, R6)
602 Investment Analysis and Portfolio Management (3) 693 Topics in Finance (3, R6)
603 Advanced Financial Analysis (3)

Forestry (FOR)
131 Introduction to Forest Resources (3)
The profession of forestry, its scope and opportunities; forest resource conservation and utilization; field exercises in forestry practices. PREQ: Preforestry major.

French (FREN)
101 French Language and Culture (3)
Elements of understanding, speaking, reading, and writing French; concepts of grammar; lab practice required. (P3a)

105 The French-Speaking World (3)
Study of French culture and its relationship to the cultures of countries and regions where French is spoken. (P4)

110 Intensive French I (6)
Developing skills in understanding, speaking, reading, and writing; emphasis on oral aspects; Rassias Method. Three hours credit only applicable to general education. PREQ: Permission of instructor. 4 Lecture, 3 Lab, 5 Drill. (P3a)

132 Elementary French (3)
Continuation of French 101. PREQ: Placement or permission of department head.

133 French for Travelers (2)
A practical guide to travel in French-speaking countries; basic conversational French, tourist information, and travel facts.

231 Intermediate French I, II (3, 3)
Continuation of written and oral French grammar; readings and discussions on French culture and civilization; readings in more specialized areas; lab practice may be assigned. PREQ: 132 or equivalent or placement for 231; 231 or equivalent or placement for 232.
240 Intensive French II (6)
Continuation of 110; increased emphasis on reading and writing. PREQ: Permission of instructor. 4 Lecture, 5 Lab, 5 Drill.

301 French Composition (3)
PREQ: 232 or equivalent or placement.

302 Conversational French (3)
Advanced intermediate course emphasizing topical dialogue. PREQ: 232 or equivalent or placement.

303 Applied French Conversation (3, R6)
Apprenticeship in the intensive language program. Does not count toward major, minor, or DFA in foreign languages. PREQ: 232 or 240, sophomore standing; selection by faculty. 10 Lab.

304 Commercial French I, II (3, 3)
Review of vocabulary and styles used in French business letters; various aspects of French business institutions. PREQ: 232 or 240.

310 Introduction to French Prose and Poetry (3)
Introduction to French literary texts; reading and analysis of literary works. PREQ: 232 or 240.

320 Methods of Teaching Foreign Language (3)
Methods and materials for teaching second languages in grades K-12. PREQ: Admission to professional sequence or permission of instructor.

321 French Civilization I, II (3, 3)
Geographical, political, cultural, and historical aspects of France from its origins to the present; course division at French Revolution. PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission of department head.

331 Survey of French Literature I, II (3, 3)
The main literary movements, authors, and works since the 12th century; course division at the 18th century. PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission of department head.

351 French Phonetics and General Linguistics (3)
The French sound system: drill in pronunciation, articulation, intonation, and rhythm; introduction to linguistics. PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission of department head.

371 Twentieth-Century French Novels in Translation (3)
Selected works by Proust, Gide, Mauriac, Camus, Saint-Exupery, and Colette. No knowledge of French required; not open to French majors.

389 Cooperative Education in French (1 or 3, R15)
PREQ: 301, 302. See Cooperative Education Program.

393 Special Topics in French (1-3, R6)
PREQ: 232 or 240.

431 Studies in French Literature (3, R6)
Intensive study of an author or authors, a genre, movement, school, or literary period. PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission of department head.

451 Advanced French Grammar (3)
Comprehensive study of the more difficult grammatical forms and usages. PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission of department head.
452 Advanced French Conversation (3)
Discussion of selected topics, oral reports on assigned readings, situational dialogues emphasizing practical, everyday French. PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission of department head.

481 Independent Studies in French (1-3, R6)
PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission of department head.

Geography (GEOG)

102 World Regional Geography (3)
Major world regions and global problems; techniques of thinking geographically about human behavior. (Pla)

103 Cultural Geography (3)
Interrelations of man, earth, and culture; the geography of race, language, religion; political and economic patterns; population growth and movements. (P4)

150 Environmental Geography (3)
Survey of man's physical habitat, including weather and climate, soils, vegetation, and landforms; emphasis on phenomena that most influence man.

300 Weather and Climate (4)
Meteorology (temperature, humidity, pressure, precipitation, winds, radiation); global heat budget, CO2 cycle, jet stream, air masses, fronts, storms; global distribution of climate. PREQ: 150. 3 Lecture, 2 Lab.

302 (GEOL 302) Geomorphology (4)
Classification, description, origin, and development of landforms; relationships to underlying structures and climates. PREQ: 150 and GEOL 150. 3 Lecture, 2 Lab; field trip.

305 (GEOL 305) Soils and Hydrology (4)

320 Map Interpretation (3)
Map analysis; topographic quadrangles; uses for navigation, geology, land-use planning, soil and vegetation studies, and aerial photos; history of maps. 1 Lecture, 4 Lab.

322 Cartography (4)
Map design and construction; basic projects, data gathering, and display methods. PREQ: Permission of instructor. 2 Lecture, 6 Lab.

324 Introduction to Remote Sensing (4)
Interpretation and applications of remote sensing; satellite and aerial imagery, elementary photography, stereoscopic viewing, and photomapping. PREQ: 150 or permission of instructor; GEOL 150 desirable. 3 Lecture, 2 Lab.

326 Research Methods in Geography (3)
Methods of measurement, observation, recording, analysis, and synthesis of data; field and lab photography; computer statistical packages; library research. PREQ: MATH 170, 171, and permission of instructor. 1 Lecture, 4 Lab.

350 Economic Geography (3)
Principles governing world distribution and production of economic and natural resources.

389 Cooperative Education in Geography (1 or 3, R15)
See Cooperative Education Program.

400 Natural Regions of North America (3)
Regions of the United States and Canada; landforms, geology, climates, soils, vegetation, water; emphasis on features most affecting man. PREQ: 150 or GEOL 150.
402 Conservation of Natural Resources (3)
Quantity, quality, and distribution of resources in the United States; dilemma of increasing demand on a dwindling resource base.

424 Advanced Remote Sensing (3)
Interpretation and application of remotely sensed data on the earth's physical and cultural environments; major project required. PREQ: Permission of instructor. 6 Lab.

440 Topics in Regional Geography (3, R12)
Physical, economic, and social aspects of the geography of a selected region (Asia, Europe, USSR, Africa, North America, Middle East, Latin America).

444 Political Geography (3)
Territorial and cultural elements in the formation of national and international boundaries; case studies.

460 Urban and Regional Land Use Planning (3)
Principles and practices of urban-regional planning; types of planning reports; applications to North Carolina. PREQ: Permission of instructor.

462 Introduction to Urban Geography (3)
Study of the spatial structure and function of urban places; theories of city origin and growth.

464 Industrial Location and Community Development (3)
Measures of manufacturing; location theory; decision-making factors in the location of industry; community development planning practices. PREQ: 350 or permission of instructor.

483 Internship in Geography (3, 3, 3)
Practical application of academic training in an approved agency under faculty supervision. S/U grading. PREQ: Junior standing. 9 hours per week per course.

491 Topics in Geography (1-3, R6)
Presentation and discussion of subjects of current interest. PREQ: Permission of instructor.

493 Special Problems (1-3, R6)
Directed individual research on selected topics. PREQ: Permission of instructor.

Graduate Courses
502 Conservation of Natural Resources (3) 564 Industrial Location and Community Development (3)
540 Topics in Regional Geography (3, R12) 591 Topics in Geography (1-3, R6)
544 Political Geography (3) 593 Special Problems (1-3, R6)
560 Urban and Regional Land Use Planning (3) 693 Special Problems in Geography (3, R6)
562 Introduction to Urban Geography (3)

Geology (GEOL)

110 Environmental Geology (3)
Evaluation of geological phenomena that shapes the human environment: geohazards, water, environmental health, mineral and energy resources, global change.

150 Introduction to Physical Geology (4)
Earth structure; composition and evolution of landscape; minerals and rocks; active processes; effects of wind, water, and ice; for science majors. 3 Lecture, 2 Lab.

155 Historical Geology (4)
Major events and changes in life forms in North American geological history; fossils, ancient environments, and geologic interpretation. 3 Lecture, 2 Lab.

160 Oceanography (3)
Geology of the oceans, coastal landforms and ocean currents, climates, tides, waves, and resources.
252 Mineralogy (4)
Principles of crystallography, crystal chemistry, and phase relationships; chemical computations; descriptive and determinative mineralogy. PREQ: CHEM 135 or permission of instructor. 2 Lecture, 4 Lab.

302 (GEOG 302) Geomorphology (4)

305 (GEOG 305) Soils and Hydrology (4)
Soil genesis, properties, and classification; the hydrologic cycle; surface runoff and groundwater; water budgets and water quality; management of soils and water. PREQ: Permission of instructor. 3 Lecture, 2 Lab.

331 Paleontology (4)
Distribution, morphology, evolutionary trends, and classification of fossils. PREQ: 155 or permission of instructor. 3 Lecture, 2 Lab; field trip.

351 Optical Mineralogy (3)
Principles and methods of optical crystallography; identification of nonopaque minerals in immersion oils and thin section; description of rock in thin sections. PREQ: 252 or permission of instructor. 1 Lecture, 4 Lab.

352 Igneous and Metamorphic Petrology (4)
Rock petrogenesis, classifications, and associations; phase equilibria and mineral assemblages under various temperature-pressure conditions; includes hand specimen identification and field work. PREQ: 252 and CHEM 136. 3 Lecture, 2 Lab.

371 Structural Geology (4)
Descriptive structural geology; emphasis on outcrop and regional scale deformational features; use of maps and graphic techniques in structural analysis. PREQ: 150. 3 Lecture, 2 Lab; field trips.

389 Cooperative Education in Geology (1 or 3, R15)
See Cooperative Education Program.

420 Sedimentation (3)
The origin, properties, and classification of sediments and sedimentary rocks. PREQ: 150. PREQ or COREQ: 252 or permission of instructor. 2 Lecture, 2 Lab.

421 Stratigraphy (3)
Sedimentary depositional environments and their relationships in time and space. PREQ: 420. 2 Lecture, 2 Lab.

441 Economic Mineral Resources (3)
Formation of and exploration for economic mineral deposits; technologic, economic, and political aspects of exploitation; distribution of production and reserves. PREQ: Permission of instructor.

451 Analytical Methods in Geology (3)
Techniques used for the preparation of mineral and rock specimens for chemical analyses and/or instrumentation for field collection of data. PREQ: Permission of instructor. 1 Lecture, 4 Lab.

471 Tectonics (3)
History and development of tectonic concepts; geometry and kinematics of plate mosaic; evolution of modern and ancient orogenic belts. PREQ: 352, 371; or permission of instructor. 2 Lecture, 2 Lab; field trips.

491 Topics in Geology (1-3, R6)
PREQ: Junior standing, permission of instructor.

493 Special Problems in Geology (2, R4)
Supervised research; written and oral reports.
**495 Senior Seminar in Geology (3)**
Readings in current topics in geology. Written and oral presentation of student library research. PREQ: Senior standing or permission of instructor.

**498 Senior Thesis (2, R4)**
An original research project culminating in a written thesis and public presentation of results. Projects may last 1 or 2 semesters. Senior standing. PREQ: Permission of instructor. 4 Lab.

**Graduate Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
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<tbody>
<tr>
<td>541</td>
<td>Economic Mineral Resources (3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>551</td>
<td>Analytical Methods in Geology (3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>591</td>
<td>Topics in Geology (1-3, R6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>593</td>
<td>Special Problems in Geology (2, R4)</td>
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<td></td>
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<tr>
<td>601</td>
<td>Earth Sciences (3, 3)</td>
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<td>602</td>
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<tr>
<td>693</td>
<td>Topics in Geology (1-3, R6)</td>
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</tbody>
</table>

**German (GER)**

**101 German Language and Culture (3)**
Elements of understanding, speaking, reading, and writing German; grammatical concepts; lab practice required. (P3a)

**110 Intensive German I (6)**
Developing skills in understanding, speaking, reading, and writing; emphasis on oral aspects; Rassias Method. Three hours credit only applicable to general education. 4 Lecture, 3 Lab, 5 Drill. PREQ: Permission of instructor. (P3a)

**132 Elementary German (3)**
Continuation of German 101. PREQ: Placement or permission of department head.

**204 A Literary Perspective on German Civilization (3)**
Selected German literary masterpieces as a reflection of German civilization. PREQ: ENGL 102. (P5)

**231 Intermediate German I, II (3, 3)**
Continuation of written and oral German grammar; readings and discussions on German culture and civilization; readings in more specialized areas; lab practice may be assigned. PREQ: 132 or equivalent or placement for 231; 231 or equivalent or placement for 232.

**240 Intensive German II (6)**
Continuation of 110; increased emphasis on reading and writing. 4 Lecture, 5 Lab, 5 Drill. PREQ: Permission of instructor.

**301 German Composition (3)**
PREQ: 232 or equivalent or placement.

**302 Conversational German (3)**
Advanced intermediate course emphasizing topical dialogue. PREQ: 232 or equivalent or placement.

**303 Applied German Conversation (3, R6)**
Apprenticeship in the intensive language program. Does not count toward major, minor, or DFA in foreign languages. PREQ: 232 or 240, sophomore standing, selection by faculty. 10 Lab.

**310 Introduction to German Prose and Poetry (3)**
Introduction to German literary texts; reading and analysis of literary works. PREQ: 232 or 240.

**320 Methods of Teaching Foreign Language (3)**
Methods and materials for teaching second languages in grades K-12. PREQ: Admission to professional sequence or permission of instructor.
321 German Civilization I, II (3, 3)
Geographical, political, cultural, and historical aspects of Germany; course division at
the 19th century. PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission
of department head.

331 Survey of German Literature I, II (3, 3)
Major literary movements, authors, and works since the 12th century; course division
at the 19th century. PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission
of department head.

351 German Phonetics and General Linguistics (3)
Analysis of the German sound system; intensive drill in pronunciation, articulation,
tonation, and rhythm; introduction to linguistics. PREQ: 232 or 240. PREQ or
COREQ: 301 and 302 or permission of department head.

389 Cooperative Education in German (1 or 3, R15)
PREQ: 301, 302. See Cooperative Education Program.

393 Special Topics in German (1-3, R6)
PREQ: 232 or 240.

431 Studies in German Literature (3, R6)
Intensive study of an author or authors, genre, literary movement, school, or literary
period. PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission of department
head.

451 Advanced German Grammar (3)
Comprehensive study of the more difficult grammatical forms and usages. PREQ: 232
or 240. PREQ or COREQ: 301 and 302 or permission of department head.

452 Advanced German Conversation (3)
Discussion of selected topics; oral reports on assigned reading; situational dialogues
emphasizing practical, everyday German. PREQ: 232 or 240. PREQ or COREQ: 301
and 302 or permission of department head.

481 Independent Studies in German (1-3, R6)
PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission of department head.

Health Education (HEAL)

120 Personal and Community Health (2)
Philosophy, knowledge, practices of health; coping with problems of living. (F5)

250 First Aid and Safety Education (2)
Prevention and care of accidents and injuries, including American Red Cross training
courses.

255 Outdoor First Aid (3)
Training for outdoor professionals to administer comprehensive first aid in remote
areas. Possible certification through the National Ski Patrol for Winter Emergency Care
and CPR. 2 Lecture, 2 Lab.

305 Current Health Problems (3)
Incidence, diagnosis, treatment, rehabilitation, and prevention of leading community
health problems; addictions; individual, family, and community effects; positive mental
health as a deterrent.

311 (PE 311) Measurement and Evaluation (2)
Study and use of methods of testing, measuring, and evaluating health status; statistical
analysis of data.
312 Comprehensive Health Education (3)
Comprehensive health education including a philosophy and strategies for teaching comprehensive health education, and study of selected topics related to personal and community health problems. PREQ: Junior standing.

360 Sexually Transmitted Diseases (2) (Formerly HEAL 260)
Factual information of sexual anatomy and functioning; concepts of sexually transmitted diseases and AIDS; and how decisions, behaviors, and lifestyles may affect our health. 2 Lecture.

Health Information Management (HIM)

301 Introduction to Health Information Management (3)
Orientation to medical institutions; history of medical records; components, development, and use of health information; functions of health information departments.

303 Planning and Organizing in Health Information Management (2)
Applications of principles of planning and organizing in the management of health information services. PREQ: 301, COREQ: 321.

310 Fundamentals of Clinical Medicine for Health Information Management (3)

321 Health Information Management Practice Lab (1)
Health information computer applications and introduction to acute-care facility health information services through limited clinical practice. COREQ: 303. 3 Lab.

389 Cooperative Education in Health Information Management (1 or 3, R12)
See Cooperative Education Program.

401 Regulation of Health Care Facilities (3)
Accreditation and regulation of health-care facilities, continuous quality improvement, utilization management, DRGs, medical staff organization. COREQ: 404, 484.

402 Controlling Resources in Health Information Management (2)
Application of principles of production, budgeting, and cost control in the management of health information services. PREQ: 303.

403 Health Data Collection (3)

404 Health Information Classification Systems I (4)
Basic ICD-9-CM coding for inpatients and outpatients, coding for prospective payment. PREQ: 301, 310. COREQ: 401, 403, 484. 3 Lecture, 3 Lab.

405 Health Information Classification Systems II (3)

406 Topics in Health Information Management (4)
Various current topics in HIM: projects in inservice education, data quality, and records in non-acute-care facilities. COREQ: 485, 486, 495. 3 Lecture, 3 Lab.

483 Clinical Practicum I (1)
Introduction to health information department functions in an acute-care facility. PREQ: 301. COREQ: 484. 60 hours.
484 **Clinical Practicum II** (2)
Supervised practice in an acute-care facility. COREQ: 401, 402, 403, 404, 483. 120 hours.

485 **Clinical Practicum III** (1)
Supervised practical application of previously studied theory related to health information functions in non-acute-care facilities and other healthcare-related facilities. COREQ: 405, 406, 486, 495. 60 clinical practice hours.

486 **Clinical Practicum IV** (3)
Supervised practical application in an acute-care facility of previously studied theory related to supervision and management of health information department personnel and functions. COREQ: 405, 406, 485, 495. 180 clinical practice hours.

495 **Seminar in Health Information Management** (3)
Discussion of problems the student may expect to encounter in health information management; research paper required; national registration exam simulation. COREQ: 405, 406, 485, 486.

**Health Sciences (HSCC)**

130 **Introduction to Health Professions** (3)
Survey of health specialties, the health sciences, and the preparation, values, and perspectives of health professionals; roles of members of the health-care team.

220 **Medical Terminology** (3)
The meaning, construction, and use of terms in the medical and health sciences; standard medical abbreviations.

231 **Introduction to Health Promotion and Disease Prevention for Preschool Children** (3)
An introduction to child growth and development, nutrition, and health promotion, primarily with Head Start-eligible children and their families. 2 Lecture, 2 Lab.

232 **Strategies for Health Promotion and Health Maintenance with Preschool Children** (3)
Emphasis on acquisition and development of skills in history taking, screening activities, and planning and participating in the health care of Head Start-eligible children. PREQ: 231. 2 Lecture, 2 Lab.

233 **Practicum: Health Promotion and Disease Prevention in Preschool Programs** (3)
Emphasis on application and refinement in a field setting of knowledge and skills previously learned in HSCC 231 and 232. 9 Lab.

240 **Introduction to Emergency Medical Care** (3)
Basic life support; assessment and care of traumatic and medical emergencies; patient stabilization; meets state First Responder requirements.

241 **Basic Emergency Medical Techniques** (2)
Patient assessment, CPR, airway management, splinting and bandaging, childbirth, rescue, and extrication. PREQ or COREQ: 240. 4 Lab/field.

260 **Etiology of Infectious Diseases** (3)
Disease-causing bacteria, viruses, rickettsia, fungi, and animal parasites; disease-producing mechanisms and resistance to infection. 2 Lecture, 2 Lab.

310 **Principles of Clinical Precepting** (1)
Study of the principles of presenting, bench teaching, learning assessment, and entry-level performance in clinical laboratory teaching. PREQ: Junior standing in CLS or permission of instructor.
Legal and Legislative Aspects of Health Care (1-3)
The legal aspects of health care and legislative forces affecting it; impact on practitioners.

Introduction to Pharmacology (1-3)
Principles, including the dynamics of drug activity, synthesis, and toxicity in drug therapy. PREQ: BIOL 291, 292 and permission of instructor.

Cooperative Education in Health Sciences (1 or 3, R15)
See Cooperative Education Program.

Health Services Management (HSM)

Systems and Trends in Health Care Delivery (3)
Overview of theories and principles concerning health disease, and the delivery system. Examination of emerging trends and issues and their relationship to the delivery system. PREQ: Health sciences major or permission of instructor.

Human Resource Management in Health Care Agencies (3)
Selected knowledge and skills related to recruiting, interviewing, selecting, training, and evaluating human resources in health care agencies.

Quality Management in Health Care Agencies (3)
Quality management terminology, methodology, principles, and selected case studies utilized in health care agencies as a vehicle for organizational research. Introduction of managed care. PREQ: Health sciences major or permission of instructor.

Financial Management in Health Care (3)
Selected knowledge and skills related to budgeting and the financial management of clinical departments and service units. PREQ: 320, 340, or permission of instructor.

Research Methodology and Analysis in Health Science (2)
Overview of methodology and analysis for inquiry in health sciences, designed to prepare health sciences majors for assessing and conducting research. PREQ: MATH 170 or PSY 251 or ECON 235.

Research Project (1, R2)
Completion of a research study where the student works independently under the direction of a faculty advisor, within their discipline, in conducting and documenting research. PREQ: 470.

Special Topics (1-3)
Graduate Courses
Graduate courses are listed in the Graduate Catalog under Master of Health Sciences (MHS).

Higher Education (EDHE)

Foundations of Adult Education (3)
Historical, sociological, psychological, and philosophical foundations of adult education; the nature and characteristics of adult learners; review of research.

Graduate Courses
Graduate courses are listed in the Graduate Catalog under Master of Health Sciences (MHS).
History (HIST)

105 (305) History of Modern Western Civilization (3)
Western civilization from the Renaissance through the 20th century against the background of classical civilizations and the medieval period. (P5)

106 (306) Modern American Institutions (3)
A consideration of the major American social, economic, and political institutions in the 20th century. (Pb)

107 (307) World Cultures in Historical Perspective (3)
Comparison of Western culture and non-Western cultures; historical developments and their impact on the modern world. (P4)

221 European History to 1648 (3)
Social, cultural, economic, and political developments that shaped European civilization from earliest times through the Reformation.

222 European History Since 1648 (3)
Social, cultural, economic, and political developments that shaped European civilization since the Reformation.

231 American History to 1865 (3)

232 American History Since 1865 (3)

297 Sophomore Seminar (3)
Historical methods, historiography, and directed research.

311 Ancient Greece and Rome (3)
Cultural, intellectual, and political developments in Greece and Rome, including the origins of Christianity.

313 The Medieval World (3)
Europe from the founding of Constantinople to the late medieval period.

317 History of Twentieth Century International Relations (3)
The Paris Peace Conference and aftermath; failure of the League of Nations; the road to World War II; World War II, the Cold War; emergence of the Third World; the Common Market.

322 British History to 1603 (3)
Ancient and Roman Britain; Anglo-Saxon society; the Middle Ages; Reformation and Tudor government and society; emphasis on England but includes Celtic history.

323 British History Since 1603 (3)
Constitutional struggles of the 17th century; the age of aristocracy; industrial transformation and 19th-century growth and reform; rise of the welfare state.

327 Modern Russia (3)
The pre-revolutionary background and the Soviet period.

330 Modern Germany (3)
Germany from 1815 to the present, with emphasis on development in the 19th and 20th centuries in terms of political evolution and international situation.

341 North Carolina History (3)
The social, political, economic, and ethnic history of North Carolina from the colonial era to the present.

354 American Military History (3)
Military affairs in the United States from the Revolution to the present; emphasis on war as a social institution.
361 Latin American History I (3)
Indian civilizations; Spanish and Portuguese exploration; the conquistadores; colonial
life; consolidation and maturity of empire; influence of the Enlightenment.

362 Latin American History II (3)
Revolutions; independence; struggle for political stability; popular government on trial;
contests of hegemony; rise of indigenous nationalism.

370 Early China (3)
A chronological introductory survey of all aspects of traditional Chinese society from
prehistory to the end of the 1700s.

371 Modern China (3)
Late Imperial China and the Nationalist and Communist revolutions.

389 Cooperative Education in History (1 or 3, R15)
See Cooperative Education Program.

411 Western Imperialism, 1500 to the Present (3)
Western imperialism in Americas, Africa and Asia; World War I and its aftermath; the
roots of Third-World independence movements.

412 Early Modern Europe (3)
The Reformation; development of the modern state; Scientific Revolution; rise of
capitalism; social change.

413 Europe in the Eighteenth Century (3)
The Old Regime; wars of expansion; the Enlightenment; the French Revolution and
Napoleon.

414 Europe in the Nineteenth Century (3)
Post-Napoleonic settlement; internal, colonial, and imperial developments; unification
movements; background for World War I.

416 Europe in the Twentieth Century (3)
World War I; the Paris Peace Conference; domestic developments; the rise of “isms” in
Russia, Italy, and Germany; World War II; postwar reconstruction and reorganization;
the Cold War.

431 Colonial America, 1492-1763 (3)
Political, social, economic, and cultural characteristics.

432 The Revolutionary Era, 1763-1800 (3)
Causes and effects of the revolution; the War for Independence; the Constitution; the
Federalist Era.

433 The Young Republic, 1800-1848 (3)
Jeffersonian democracy; War of 1812; Era of Good Feelings; Jacksonian democracy;
western expansion; the Mexican War.

434 Civil War and Reconstruction, 1848-1877 (3)
Sectional differences; the secession movement; military operations; Reconstruction.

435 Emergence of Industrial America, 1877-1929 (3)
Growth and conflict of organized industry and labor; agrarian decline and revolt;
American Imperialism; progressive reform; World War I; postwar crises and prosperity.
436 The United States Since 1929 (3)
Great Depression; New Deal; World War II; role as Cold-War superpower; domestic developments.

442 African-American History (3)
Role of African-Americans in American history; African background; religious, cultural, economic, and political institutions, civil rights, struggles, tension between assimilation and black nationalism.

443 The American South (3)
Social structure and economic interests of the Antebellum South; impact of Civil War and Reconstruction; the New South; the 20th-century South; emphasis on regional differences and social transition.

445 Cherokee History (3)
Pre-contact Cherokee society; acculturation; removal; post-removal development of the Cherokee Nation West and the Eastern Band of the Cherokees.

446 Southern Appalachian Culture (3)
History and folkways in the period of geographic isolation; changes in regional culture in an age of improved transportation and communications.

451 American Women’s History (3)
Role of women in American history; conflicting and changing ideologies of femininity and sexuality; women in the family, workplace, and politics.

463 History of the Mexican Nation (3)
Mexico since 1810; 19th-century conflicts; revolution, 1910-1917; progress to the present.

472 Local History and Genealogy (3)
Role of the family and community in shaping state, regional, and national developments; emphasis on research techniques and local resources. Lecture and fieldwork.

473 Archives and Museum Management (3)
Preservation, management, and display of archival materials and museum artifacts, with emphasis on museum management. Lecture and fieldwork.

475 Historical Editing (3)
Analysis of manuscripts, government documents, and transcripts of oral testimony; emphasis on evaluation, selection, transcription, and annotation of materials and completion of an editorial project. Lecture and fieldwork.

478 Historic Sites and Historic Preservation (3)
Aspects of historic preservation; emphasis on aesthetic, legal, financial, and public relations considerations. Lecture and fieldwork.

483 Internship Project in History (3, 3, 3)
Work experience on historical problems; written assignments required. S/U grading.
9 hours per week per course.

493 Topics in History (3, R12)
**498 Senior Seminar (3)**
A comparative study of European and American ideas and institutions and the impact on the history of each culture. PREQ: 297 or permission of department head.

**Graduate Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>511</td>
<td>Western Imperialism, 1500 to the Present (3)</td>
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<td>512</td>
<td>Early Modern Europe (3)</td>
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<td>513</td>
<td>Europe in the 18th Century (3)</td>
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<td>514</td>
<td>Europe in the 19th Century (3)</td>
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<td>516</td>
<td>Europe in the 20th Century (3)</td>
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<td>531</td>
<td>Colonial America, 1492-1763 (3)</td>
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<td>532</td>
<td>The Revolutionary Era, 1763-1800 (3)</td>
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<td>542</td>
<td>African-American History (3)</td>
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<td>543</td>
<td>The American South (3)</td>
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<td>545</td>
<td>Cherokee History (3)</td>
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<td>546</td>
<td>Southern Appalachian Culture (3)</td>
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<td>Local History and Genealogy (3)</td>
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<td>573</td>
<td>Archives and Museum Management (3)</td>
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<td>Historic Sites and Historic Preservation (3)</td>
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<td>589</td>
<td>Cooperative Education in History (3)</td>
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<td>593</td>
<td>Topics in History (3, R12)</td>
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<td>631</td>
<td>American Historiography (3)</td>
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<tr>
<td>680</td>
<td>Readings in History I, II, III, IV (3, R6 per course)</td>
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<td>688</td>
<td>Internship in History (1-3, R3)</td>
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<td>693</td>
<td>Problems in American History (3, R9)</td>
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<td>695</td>
<td>Seminar in American History and American Studies (3)</td>
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<td>699</td>
<td>Thesis (3, R12)</td>
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**Hospitality Management (HM)**

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<tbody>
<tr>
<td>130</td>
<td>Introduction to the Hospitality Industry (3)</td>
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<tr>
<td>333</td>
<td>Quantity Foods (3)</td>
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<td>335</td>
<td>Lodging Management (3)</td>
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<td>338</td>
<td>Computer Applications in the Hospitality Industry (3)</td>
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<td>339</td>
<td>Cost Control in the Hospitality Industry (3)</td>
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<tr>
<td>389</td>
<td>Cooperative Education (1 or 3, R15) See Cooperative Education Program.</td>
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<tr>
<td>430</td>
<td>Food Systems Management (3)</td>
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<td>431</td>
<td>Hospitality Marketing Management (3)</td>
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<td>433</td>
<td>Strategic Planning in the Hospitality Industry (3)</td>
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</table>

Survey of management specialties in the industry; emphasis on food systems administration; current trends and problems.

Methods of quantity food production; planning, purchasing, storing, preparing, and serving foods. PREQ: Permission of instructor. 2 Lecture, 3 Lab.

Functions of management applied to lodging operations; emphasis on procurement, principle and techniques in hotel room division management. 2 Lecture, 2 Lab. PREQ: 130.

Application of computer technology in the hospitality industry. PREQ: 335, COREQ: 333.

Theories and techniques of controlling costs of food and beverage, and labor cost in hotels and restaurants; analysis and evaluation of financial performance of the settings. PREQ: ACCT 161 or 251.

Application of marketing principles and practices in the hospitality industry; emphasis on consumer behavior, market analysis, marketing mix. PREQ: 333, 335, MKT 301.

Application of theories and concepts of strategic management in hospitality manag-
ment; cases in hospitality industry, domestic and multinational, are analyzed. PREQ: 335, 339, 430, and 431.

480 Independent Study (1-3, R6)

483 Internship (3, 3, 3)
484 Integration of theory and practice in a setting appropriate to the student's career field. 485 S/U grading. PREQ: Permission of instructor. 9 hours per week per course.

Graduate Courses
532 Food Systems Management II (3)

Human Resource Development (HRD)

Graduate Courses
589 Cooperative Education in Human Resource Development (3)
605 Orientation to Human Resource Development (3)
610 Human Resource Development (3)
612 Instructional Design (3)
620 The Design and Use of Instructional Gaming Simulations (3)
660 Career Development/Management Systems (3)
670 Program Evaluation (3)
675 Managing the Human Resource Development Function (3)
683 Field Experience in Human Resource Development (3)
693 Topics in Human Resource Development (3, R6)
698 Seminar in Human Resource Development (3)

Industrial Distribution (ID)

230 Industrial Distribution (3)
The flow of industrial goods and services through the industrial distributor.

360 Industrial Distribution Organization (3)
Survey of organizational structure in manufacturing industries.

370 Product Management and Inventory Control (3)
The study of the many aspects of industrial distribution product management. Topics to be covered may include: computer systems and their uses; purchasing; and warehouse management. PREQ: 230 or permission of instructor.

479 Industrial Distribution Seminar (3)
Covers through research, lecture and field trips, electronic date interchange; just-in-time distribution; distribution finance; bar coding; take-offs and quotes from catalogs and specifications; other innovative concepts. PREQ: 230, 360; or permission of instructor.

480 Problems in Industrial Distribution (1-3)
Independent study of problems in industrial distribution; project required. PREQ: Industrial distribution major and permission of instructor.

493 Special Topics (1-3, R6)
PREQ: Industrial distribution major and permission of instructor.

Industrial and Engineering Technology (IET)

151 Introduction to Drafting (3)
Orthographic and axonometric drawing including multiview, isometric, dimetric, trimetric, cavalier and cabinet obliques, dimensioning, sectioning and assemblies; surface treatments. 2 Lecture, 2 Lab.

152 Architectural Drafting and Design I (3)
Designing and drawing a set of residential plans; concepts and techniques of house construction; building codes. PREQ: 151 or permission of instructor. 2 Lecture, 2 Lab.
310 CADD for Interior Design (3)
Computer-aided drafting for interior designers; applications of AutoCad and PowerDraw software to produce two-dimensional drawings. PREQ: 152, IDS 253; satisfaction of computer literacy requirement; or permission of instructor.

342 Architectural Construction Processes (3)
Principles and processes for producing marketable buildings as these relate to the North Carolina Building Code. 2 Lecture, 2 Lab.

352 Architectural Drafting and Design II (3)
Furniture and architectural design, dimensioning, detailing, and illustration. PREQ: 152 or permission of instructor. 2 Lecture, 2 Lab.

353 Orthographic Rendering and Design (3)
In-depth experiences in axonometric drawing and rendering; completing orthographic rendering of residential house plans; expanding plumbing plans, sky lighting, and use of alternate building materials. PREQ: 151, 152 or permission of instructor.

389 Cooperative Education in Industrial Technology (1 or 3, R15)
See Cooperative Education Program.

400 Recreational Crafts (3)
Activities for schools, camps, churches, retirement centers, and other recreational programs. 2 Lecture, 3 Lab.

409 History and Philosophy of Vocational Education (3)

410 Topics in CADD (3, R6)
Advanced applications using state-of-the-art CAD programs, operating systems, hardware configurations and operational procedures. PREQ: MET 231 or IET 310 or permission of instructor.

420 Polymer Technology (4)
Industrial fabrication techniques; topics in polymer science and mold construction. 3 Lecture, 2 Lab.

421 Ergonomics (3)
Theories and applications of ergonomic principles for the industrial setting. PREQ: Technology major and senior standing or permission of instructor.

422 Advanced Polymer Technology (3)
Theory and application of molding processes; emphasis on thermoplastic and thermoset injection; topics in polymer science and microprocessing.

424 Facilities Management and Maintenance (3)
Introduction to management and maintenance of residential, commercial, and industrial building systems. Systems for: heating, cooling, electrical, communications, water, waste water, protective coatings and roofing. PREQ: Junior standing.

430 Occupational Analysis and Course Construction (3)
Principles and techniques of selecting, analyzing, and arranging teaching activities.

432 Shop/Laboratory Organization and Management (3)
Supplies, equipment, safety; development of a planned facility for industrial/vocational education. Typically offered in fall semester of years with even numbers. PREQ: Permission of department head.

434 Plant Layout (3)
Problem analyses and design of plant facilities; plant layout, material flow, and handling; physical storage systems. PREQ: Technology major and senior standing.
435 Technology and Civilization (3)
The interdependence of society and technology; modern industrial processes; use of energy and material resources; pollution; population explosion; food supplies.

436 Cooperative Vocational Education (3)
Preparation for teachers seeking certification; emphasis on needs of trade and industrial teachers. PREQ: permission of instructor.

437 Student Organizations in Vocational Education (3)
Techniques of planning and advising organizations.

472 Robotics and Industrial Electronics (3)
Electronic sensing, logic, and control functions applied to electromechanical systems; review of basic robot designs and applications. PREQ: IT 371. 2 Lecture, 2 Lab.

480 Problems in Industrial and Engineering Technology (1-3, R6)
Independent study in industrial, technical, or vocational education; project required. PREQ: Permission of advisor and instructor.

493 Special Topics (1-3, R6)
PREQ: Permission of instructor.

Graduate Courses
510 Topics in CADD (3, R6)
514 (HE 514) Career Exploration (3)
521 Ergonomics (3)
522 Advanced Polymer Technology (3)
524 Facilities Management and Maintenance (3)
534 Plant Layout (3)
560 Industrial Materials and Processes (3)
570 Advanced Electronics (3)
589 Cooperative Education in Industrial Technology (3, R6)
593 Topics in Indust. and Engineering Tech. (1-3, R6)
602 (OA & HE 602) Vocational Education History and Philosophy (3)
610 (HE 610) Vocational/Technical Evaluation (3)
630 Trends in Industrial Education (3)
632 Administration of Industrial Education (3)
636 Cooperative Vocational Education (3)
640 Value Analysis (3)
641 Quality Assurance (3)
642 Computerized Production Techniques (3)
650 Program Planning in Vocational/Technical Education (3)
670 Research Methods in Vocational/Technical Education (3)
680 Independent Study (3, R6)
695 Seminar in Industrial and Engineering Technology (1-3, R3)
699 Thesis (3, R6)

Industrial Technology (IT)

335 Industrial Safety (3)
Standards and practices for industrial and educational safety related to local, state, and federal safety regulations.

336 Environmental Instrumentation (3)
Basic instrumentation techniques used to measure industrial safety and health hazards. PREQ: 335. 2 Lecture, 2 Lab.

337 Management of Safety Systems (3)
Comprehensive, organized management approach for identifying, measuring, and reducing operational errors leading to accidents. PREQ: 335.

338 Fire Control and Compliance Management (3)
Emergency planning, compliance with standards, recognition of fire hazards, implementation of controls, and extinguishing agents and methods. COREQ: 335.

370 Electricity (3)
Direct and alternating current sources, circuits, circuit analysis. PREQ: MATH 144 or 145, PHYS 130. 2 Lecture, 2 Lab.
371 Electronics (3)
Solid state devices, power supply, amplifiers, and logic circuits. PREQ: 370 or EET301. 2 Lecture, 2 Lab.

423 Fluid Systems (3)
Basic fluid mechanics; hydraulic and pneumatic systems used in industrial manufacturing processes. PREQ: MATH 144 or 145, PHYS 130. 2 Lecture, 2 Lab.

495 Industrial Technology Seminar (3)
Trends, issues and selected topics pertinent to industrial operations and practices. PREQ: Industrial technology major and senior standing.

**Interior Design (IDSN)**

153 Introduction to Interior Design (2-3)
Study of principles and elements of design as applied to interior environments and creative problem solving. COREQ: 256. 2 Lecture, 2 Lab (optional)

253 Space Planning (3)
Evaluation of principles and elements of universal design as related to residential/commercial floor plans and spatial models. PREQ: IET152 or permission of instructor. COREQ: 153. 1 Lecture, 4 Lab.

256 Survey of Interior Materials (3)
Analysis of manufacturing process, source, specification and application of interior materials. COREQ: 153 or permission of instructor.

259 Portfolio Review I (1)
A faculty review of all student art and interior design work during the last sophomore semester. S/U grading. PREQ: 253, 256, IET 151, 152; ART 131 or permission of instructor. 2 Lab.

351 Lighting Design and Color (4)
Survey of natural and artificial lighting, sources, physiological and psychological response to light and color. Application of light and color to residential/commercial interiors. PREQ: 256, IET 152. 2 Lecture, 4 Lab.

353 Residential Design (4)
Fundamentals of interior planning with emphasis on residential environments; design methodology, floor plans, spatial concepts elevations, material application and presentation. PREQ: 355 or 358. COREQ: 259. 2 Lecture, 4 Lab.

355 History of Architecture and Furnishings I (3)
Survey of architecture and furniture from ancient times to the 19th century.

357 Contract Design I (4)
Fundamentals of interior planning with emphasis on commercial/institution environments, design methodology, floor plans, spatial concepts, elevation material application and presentation. PREQ: 351, 353. 2 Lecture, 4 Lab.

358 History of Architecture and Furniture II (3)
Development of architecture and furniture from 19th century to the present.

359 Perspective Drawing (4)
Application of free-hand technical drawing as related to rendering techniques of interior and exterior spaces. PREQ: IDSN 353, ART 131, IET 151 or 152 or permission of instructor. 2 Lecture, 4 Lab.
389 Cooperative Education in Interior Design (1 or 3, R15)
See Cooperative Education Program.

456 Contract Design II (4)
Comprehensive application of facility management and programming as related to commercial and/or institutional projects. PREQ: 357. 2 Lecture, 4 Lab.

458 Professional Practice in Interior Design (3)
Methods of organizing and marketing design services; use of business forms and contracts. PREQ: 456.

459 Portfolio Review II (1)
A comprehensive faculty evaluation of student interior design projects during the last semester. PREQ: 456 or permission of instructor.

460 Problem Solving in Design (4)
Creative problem solving provides an opportunity to apply advanced design concepts and/or theories in a specific area of study. PREQ: 456 or permission of instructor. 2 Lecture, 4 lab.

480 Independent Study in Interior Design (1-3, R6)
PREQ: Permission of instructor.

483 Internship (3, 3, 3)
484 Integration of theory and practice in a setting appropriate to the student’s career field.
485 S/U grading. PREQ: 357, 358; or permission of instructor. 9 hours per week per course.

493 Topics in Interior Design (3, R9)
Examination of current topics and trends in interior design. PREQ: Permission of instructor.

Management (MGT)

300 Introduction to Management (3)
Principles, issues, and practices of modern management; the production process in creating goods and services; behavioral concepts pertinent to managerial functions. COREQ: HM 430 for HM majors.

301 International Management (3)
Issues in the management of international enterprises; adaptation of managerial functions and skills to the international business environment. PREQ: 300.

302 Labor-Management Relations (3)
Critical roles of labor unions, legislative bodies, and governmental regulation; alternative strategies in impasse resolution. PREQ: 300.

304 Human Resource Management (3)
Recruiting, training, evaluating, and rewarding human resources; developing and implementing effective personnel programs. PREQ: 300.

305 Quantitative Business Analysis (3)
Models for decision making in production and operations management; linear programming, transportation and assignment, probabilistic models, forecasting, inventory and network analysis, queuing theory, simulation. PREQ: ECON 235. COREQ: 300.

306 Behavioral Science in Organizations (3)
Examination of individual and collective human behavior in organizations, including the processes of motivation and leadership, recognizing implications of individual and cultural diversity. PREQ: 300.
389 Cooperative Education in Management (1 or 3, R15)
See Cooperative Education Program.

400 Organization Theory (3)
Structure and process at the organizational level; size, complexity, formalization, goals, centralization and decentralization, and environment. PREQ: 306.

401 Small Business Management (3)
Operations and strategies of small firms; integration of functional areas; economic, social, political, technological, and governmental factors. PREQ: Permission of instructor.

402 Production and Operations Management (3)
Management processes for the creation of products and services; analytical techniques and controls. PREQ: 305.

405 Compensation Management (3)
Theory from economics and the behavioral sciences; public policy regarding pay, pay surveys, job evaluation, performance appraisal, and incentive plans. PREQ: 304.

407 Interpersonal Behavior (3)
Awareness and competence in managerial interpersonal relationships, listening behavior, examination of self concept. PREQ: 300.

480 Independent Research (3)
PREQ: Permission of department head.

484 Supervised work or research in applications of previously studied theory. S/U grading.

485 PREQ: Junior standing, 2.0 GPA, written application, permission of department head. Minimum of 10 hours per week.

493 Topics in Management (1-3, R6)
PREQ: Permission of department head.

495 Seminar in Management (3)
Integration of management concepts; development of management knowledge and skills; preparation for the professional world of work. PREQ or COREQ: All management business core and management major courses.

Graduate Courses
605 Organizational Behavior and Analysis (3) 670 Project Management Systems (3)
606 Quantitative Analysis for Business I (3) 672 Human Resource Management in Projects (3)
607 Strategic Management (3) 674 Project Contract and Logistics Management (3)
608 Human Resource Management (3) 676 Specialized Project Management Techniques I (3)
609 The Collective Bargaining Process (3) 677 Specialized Project Management Techniques II (3)
611 Production and Operations Management (3) 678 Project Management Organization and Policy (3)
613 Management of International Operations (3) 682 Research Project in Management (3, R6)
614 Managerial Career Development (3) 693 Topics in Management (3, R6)

Manufacturing Engineering Technology (MET)

132 Engineering Graphics (3)
Forms of industrial drawing; orthographic and pictorial projections, sketching and basic drawing board procedures. 2 Lecture, 2 Lab.

141 Manufacturing Materials and Processes (3)
Fundamentals of industrial materials, their mechanical, physical, and chemical nature as related to manufacturing processes. 2 Lecture, 2 Lab.

231 Engineering CADD (3)
Exposure to the broad spectrum of automated graphics and computer-aided design. PREQ: 132. 2 Lecture, 2 Lab.
242 **Machining Processes** (3)
Techniques of industrial machining processes. PREQ: 132, 141; MATH 144 or 145; PHYS 130. 2 Lecture, 2 Lab.

321 **Statics and Strength of Materials** (3)
Study of forces and the effect of forces acting on static bodies, including the stresses and deflections or deformations from applied loads. PREQ: 132; MATH 146; PHYS 130. 2 Lecture, 2 Lab.

331 **Quality Control I** (3)
Techniques for monitoring and assuring quality. PREQ: 141, and MATH 170; or permission of instructor. 2 Lecture, 2 Lab.

332 **Quality Control II** (3)
A continuation of MET 331 with emphasis on probability distribution, sampling, advanced control charting, reliability and design of experiments. PREQ: 331 and MATH 170; or permission of instructor. 2 Lecture, 2 Lab.

341 **CNC Machining Technology** (3)
Programming, procedures, formats, standards, and protocols commonly used in the control of industrial machine tools. PREQ: 231, 242, and MATH 146. 2 Lecture, 2 Lab.

342 **Manufacturing Analysis and Planning** (3)
Analysis of manufacturing system efficiency. Throughout calculation, identification of bottlenecks, inventorying systems, production systems. PREQ: 141; MATH 170.

366 **Manufacturing Materials and Processes** (3)
Study of the nature, composition, and structure of various materials used in manufacturing. Materials include ferrous and non-ferrous metals, polymer, ceramics, wood, and fibers.

393 **Topics in Engineering Technology** (1-3, R9)

431 **Automated Manufacturing** (3)
Automated manufacturing systems, strategies, and methods commonly used in modern manufacturing. Emphasis on control methods and computer integration. PREQ: 231, 342 and EET 302 and CS 130; or permission of instructor. 2 Lecture, 2 Lab.

436 **Engineering Economic Analysis** (3)
The study of economics as applied to engineering decision making. PREQ: 342 and MATH 144 or 145; or permission of instructor.

441 **Fluid Power and Systems Analysis** (3)
The study of hydrostatic fluid power components and systems specifically focused on industrial and manufacturing applications. PREQ: 231 and PHYS 130 and MATH 153; or permission of instructor. 2 Lecture, 2 Lab.

463 **Manufacturing Planning and Cost Estimating** (3)
Correlation of design and manufacturing requirements; planning manufacturing operations for parts and assemblies; time/cost estimates. PREQ: ID 130.

478 **Senior Design Project Proposal** (1)
Research methodology, literature review, and industrial project writing styles, culminating in a written report proposal for a senior project. S/U grading. PREQ: Senior standing and permission of instructor. COREQ: 479.

479 **Senior Design Project** (3)
Organizing, planning, and implementing a project using acceptable industrial techniques culminating in a formal written report and oral presentation. PREQ or COREQ: 478. 1 Lecture, 4 Lab.
Graduate Courses

536 Engineering Economic Analysis (3)

Marketing (MKT)

301 Principles of Marketing (3)
Introduction to marketing principles and problems.

302 Marketing Communications (3)
Role of communication in marketing; mass communications, media costs, audience analysis. PREQ: 301.

303 Marketing Research (3)
The role of research in marketing decisions; emphasis on data gathering, compilation, analysis, and interpretation. PREQ: 301, ECON 235.

304 Consumer Behavior (3)
Interdisciplinary study of buyer motivation and behavior; contributions of the behavioral sciences to consumer purchasing decision processes. PREQ: 301.

306 Professional Selling (3)
Sales persuasion skills, theories, and principles; simulated selling situations. PREQ: 301.

308 Cooperative Education in Marketing (1 or 3, R15)
See Cooperative Education Program.

403 Advertising Management (3)
Planning and production of a professional advertising campaign. PREQ: 302.

404 Retailing Management (3)
Retailing organization and management, including store location, merchandise management, expense analysis and control, and current issues and trends.

405 Marketing Management (3)
Marketing decision making studied from the manager's viewpoint; emphasis on market analysis, planning, and strategy development. PREQ: 301.

406 Channels of Distribution (3)
Theory and concepts in channel management; emphasis on structural, operational, and leadership decisions. PREQ: 301.

407 International Marketing (3)
Problems, opportunities, and strategies in an international marketing environment; trade concepts and theories; cultural, political, legal, and financial constraints. PREQ: 301.

409 Industrial Marketing (3)
Market; product design; pricing strategy; logistics; promotion; government and institutional markets in the context of the political, economic, technological, and ethical environments. PREQ: 301.

475 Marketing Strategy and Management (3)
A capstone course for marketing majors only. Integrates the collection of individual marketing concerns into a managerial decision-making framework. PREQ: 301 and 6 hours of required marketing courses.
483 Internship in Marketing (3, 3, 3)  
Supervised experience in applications of previously studied theory. S/U grading.  
PREQ: Junior standing, 2.0 GPA, written application, permission of department head. Minimum of 10 hours per week.

493 Topics in Marketing (1-3, R6)  
PREQ: Permission of department head.

Graduate Courses
601 Marketing Management (3)  
602 Marketing Research (3)  
603 Consumer Behavior (3)  
604 Marketing Communications (3)  
682 Research Project in Marketing (3, R6)  
693 Topics in Marketing (3, R6)

Mathematics (MATH)

100 Elementary Algebra (3)  
Basic algebraic skills: simplifying algebraic expressions, solving linear and quadratic equations, exponents, and radicals. Not open to students with credit for courses numbered 130 and above. Credit earned in this course will not count toward 128 hours required for graduation.

101 Mathematical Concepts (3)  
Great ideas in mathematics; numbers and number patterns, logic and reasoning, induction, deduction; topics from algebraic and geometric structures, probability, statistics, calculus, and graph theory. (F2)

130 College Algebra (3)  
Real number properties, solving equations, inequalities, systems of equations, functions, and graphs. PREQ: 100 or placement.

140 Introductory Calculus (5)  
The differential and integral calculus of algebraic functions of one variable. PREQ: 130.

144 Applied Trigonometry (3)  
Topics including right triangles, trigonometric functions, graphing; basic identities, triangle solutions, and complex numbers; emphasis on applications. Not open to students with credit in 145. PREQ: 130.

145 Trigonometry (3)  
Basic trigonometry; functions, identities, graphs, solution of equations and triangles, complex numbers, analytical trigonometry. Not open to students with credit in 144. PREQ: 130 or placement.

146 Algebra and Analytical Geometry (3)  
Functions and graphs; polynomial, logarithmic, and exponential functions, mathematical induction; sequences and series; conic sections. PREQ: 130 or placement.

153 Calculus I (4)  
Limits, continuity, derivatives, and integrals of algebraic and trigonometric functions with applications. PREQ: 145 and 146, or placement.

170 Applied Statistics (3)  
Descriptive statistics, exploratory data analysis, probability distributions, correlation, regression, estimation, and hypothesis testing. PREQ: 100 or placement.

171 Statistics with Minitab (1)  
A laboratory course to provide experience using the minitab statistical package. COREQ: 170 or permission of instructor. 2 Lab.

230 Theory of Arithmetic I (3)  
Logic, sets, relations, mathematical systems, counting, numeration systems, and algorithms for whole numbers.
231 Theory of Arithmetic II (3)
Measurement (metric system), number theory: integers, rationals, irrationals, and reals. PREQ: 230.

250 Introduction to Logic and Proof (2)
An introduction to the principles of logic and the methods of proof necessary for the successful study of mathematics.

254 Matrix Theory (3)
Matrices and linear equations. Not open to students with credit in 262. PREQ: 146, CS 150.

255 Calculus II (4)
Derivatives and integrals of transcendental functions, techniques of integration, indetermi-
tant forms, improper integrals, infinite series. PREQ: 153.

256 Calculus III (4)
Plane curves, polar coordinates, vectors and solid analytical geometry, vector-valued
functions, partial differentiation, multiple integrals. PREQ: 255.

260 Informal Geometry (3)
Points, lines, planes, constructions; axiomatic structure of geometry and the nature of
proof. PREQ: 231.

262 Introduction to Linear Algebra (3)
Systems of equations, matrices, vector spaces, and linear transformations. Not open to
students with credit in 262. PREQ: 250 and 153.

270 Statistical Methods I (3)
Descriptive statistics, probability and sampling distributions, estimation, hypothesis
testing. PREQ: 170 or 146.

286 Laboratory Practicum I, II (1, D)
287 Materials for teaching elementary mathematical concepts; students design and conduct
laboratory experiences. PREQ: 231, middle-grades education major with math concen-
tration or permission of instructor; 286 for 287. 3 hours.

300 Problem Solving (2)
Methods and techniques for problem solving in mathematics. 1 Lecture, 2 Lab.

310 (CS 310) Discrete Structures (3)
Enumeration topics including arrangements, selections, generating functions, and
recurrence relations; basic concepts of graphs and trees. PREQ: Junior standing or
permission of instructor.

315 Methods and Materials for Teaching Mathematics in the Secondary School (3)
A survey of contemporary trends and issues in teaching mathematics at the secondary
level. Methods, materials, curriculum, and other current practices are included. PREQ:
Admission to the professional education sequence.

320 Ordinary Differential Equations (3)
Differential equations of first order, first degree with applications; linear equations of
higher order and numerical methods; special equations of second order. PREQ: 256.

331 Complex Variable Theory (3)
The complex number system, limits, continuity, derivatives, transcendental and mul-
tiple-valued functions, integration. PREQ: 256.

350 Operations Research (3)
Convexity, linear programming, simplex algorithm, duality, transportation problems,
and integer programming. PREQ: 254 or 262; 255.

361 Introduction to Abstract Algebra (3)
Groups, rings, and fields. PREQ: 250.
370 Statistical Theory I (3)
Elementary probability, discrete and continuous random variables, expectation, moments, sampling distributions, probability distributions. PREQ: 256.

375 Statistical Methods II (3)
Analysis of variance, regression, and correlation; analysis of categorical data; distribution-free procedures. PREQ: 270.

386 Practicum (2)
Practical experience under faculty supervision for prospective teachers as teaching aides and as tutors. PREQ: MATH 255; permission of department head. 5 Lab.

389 Cooperative Education in Mathematics (1 or 3, R15)
See Cooperative Education Program.

393 Topics in Mathematics (1-6, R6)
PREQ: Permission of department head.

411 Foundations in Geometry (3)
Axiomatic approach to the study and development of Euclidean and non-Euclidean geometry. PREQ: Junior standing or permission of department head.

412 Modern Geometries (3)
Finite geometries, transformations, motions of the Euclidean plane and three-space, similarity transformations, convexity, and other topics. PREQ: Junior standing or permission of department head.

422 Advanced Calculus I (3)
Sequences of real numbers, continuous functions, and differentiation. PREQ: 250 and 256.

423 Advanced Calculus II (3)
Differentiation including L'Hospital's rule and Taylor's theorem; integration theory; other classical topics. PREQ: 422.

441 (CS 441) Introduction to Numerical Analysis (3)
Finite differences, interpolation, numerical integration and solutions to ordinary differential equations, linear systems, eigenvalues, eigenvectors, errors. PREQ: 254 or 262; 255, CS 150.

461 Abstract Algebra (3)
Topics from abstract algebra including quotient groups and rings, rings of polynomials and field extensions, quaterions, homomorphism theorems. PREQ: 361.

462 Linear Algebra (3)
Topics from linear algebra including algebra of linear transformations, dual space, algebra of polynomials, determinants, eigenvalues, diagonalization, and selected applications. PREQ: 262.

470 Statistical Theory II (3)
Point and interval estimation, hypothesis testing, decision theory, likelihood ratio and sequential testing, correlation and regression. PREQ: 370.

479 Capstone: Seminar (2)
A course requiring written papers and oral presentations by students on historical and contemporary ideas from the current mathematical literature. PREQ: Senior standing.

Graduate Courses

507 Survey of Algebra (3) 620 Algebra (3)
508 Survey of Analysis (3) 622 Analysis I (3)
509 Mathematics for Secondary Teachers (3) 623 Analysis II (3)
512 Modern Geometry (3) 624 Complex Analysis (3)
523 Advanced Calculus II (3) 630 Mathematical Modeling (3)
Music (MUS)

101 (300) Music Appreciation (3)
Study of the development of musical styles. (P3b)

102 Music in American Culture (3)
American history as reflected in folk, popular, and art music from 1607 to the present. (F5)

110 Introduction to Instrumental Ensembles (1)
Introduction to playing in instrumental ensembles using fundamentals required to function in a group setting. 4 Lab. (F5)

111 Introduction to Vocal Ensemble (1)
Rehearsal and performance of a variety of choral works; audition required. 3 Lab. (F5)

112 Introduction to Piano (1)
Group lessons in piano and the fundamentals of music for students who do not read music. 2 Lab. (F5)

113 Introduction to Singing (1)
Group lessons in voice and the fundamentals of music for students who do not read music. 2 Lab. (F5)

117 Introduction to Guitar (1)
Group lessons in guitar and the fundamentals of music for students who do not read music. 2 Lab. (F5)

152 Aural Skills Laboratory I, II (1, 1)
153 Aural perception of rhythmic, melodic, and harmonic devices. PREQ: Permission of department head. 2 meetings.

177 Basic Music Theory Laboratory (2)
An introduction to music reading, interval and chord identification, key signatures, and melodic structures. PREQ: Placement examination or permission of department head. 4 Lab.

178 Beginning Theoretical and Analytical Skills (4)
Music theory skills up to and including secondary dominants and leading tone chords. PREQ: 177 or placement examination.

181 Introduction to MIDI/Synthesis (1)
Survey of MIDI devices, synthesis techniques, and contemporary music technology. PREQ: Permission of instructor. 2 Lab.

182 Computer Applications in Music (2)
Use of the computer to prepare parts and scores, and to orchestrate and arrange music. PREQ: 152 and 177 or permission of instructor.

252 Aural Skills Laboratory, III (1)
Advanced aural perception of rhythmic, melodic, and harmonic devices. PREQ: 153. 2 meetings.
253 Aural Skills Laboratory, IV (1)
Advanced aural perception of rhythmic, melodic, and harmonic devices. PREQ: 252.
2 meetings.

277 Theory and Literature I, II (3, 3)
278 Application of theoretical and analytical skills to literature. PREQ: 178 for 277; 277 for 278. 3 meetings.

301 Basic Skills (2)
Music fundamentals and elementary performance skills. 3 meetings.

302 Music for Classroom Teachers (2)
Methods and materials for teaching music in the elementary school. PREQ: 301. 3 meetings.

303 The World of Music (3)
Musical traditions of various world cultures in their social contexts. PREQ: Gen Ed P3b and junior-level status. (P4)

305 Junior Recital (1)
Public performance. May be scheduled after hearing committee approval and completion of junior-qualifying examination. PREQ: Junior-level qualifying examination.

325 Music in the Elementary and Middle School (3)
Problems in teaching and supervising the music program in the elementary and middle school. PREQ: 278; Admission to the teacher education program.

326 Instrumental Methods and Materials (3)
Methods and materials used in instrumental teaching.

327 Choral Methods and Materials (3)
Methods and materials used in developing the school choral program.

350 Music History I, II (3, 3)
351 Western music from Middle Ages through the Baroque in 350; from the Classical Period through the 20th century in 351. PREQ: 278 or permission of department head and instructor.

378 Survey of the Music Industry (3)
The retail and wholesale music trade: publishing, royalties, copyright, performance rights, record production, advertising and promotion, labor relations, contracts, artist management.

389 Cooperative Education in Music (1 or 3, R15)
See Cooperative Education Program.

403 Marching Band Techniques (2)
PREQ: 326.

405 Senior Recital (1)
Public performance. May be scheduled after hearing committee approval. PREQ: 305.

420 Studies in Music Literature (3, R9)
Historical and theoretical study of various forms of music literature. PREQ: 351 or approval of instructor.

425 Twentieth-century Music (3)
Historical and theoretical issues in 20th-century music. PREQ: 351 or approval of instructor.

428 Choral Conducting (3)
Study and application of gesture communication and analysis selected to choral conducting. PREQ: 252, 278.

429 Instrumental Conducting (3)
Application of techniques and analysis to instrumental conducting. PREQ: 252, 278.
470 Orchestration and Arranging (2)
Scoring and arranging for instrumental and vocal ensembles. PREQ: 278.

489 Internship (3, 6, 9, R9)
Faculty-supervised training in an approved agency. Minimum of 9 hours per week or 135 hours for each 3 credits, arranged with the agency and the music department. PREQ: 378, BA 133, CIS 251, permission of department head.

493 Topics in Music (1-3, R12)
Issues in music performance, education, or the music business. PREQ: Permission of department head.

497 Seminar in Piano Pedagogy (1, R4)
PREQ: Approval of instructor. 2 Lab.

498 Seminar in Accompanying (1, R4)
PREQ: Approval of instructor. 2 Lab.

Graduate Courses

503 Marching Band Techniques (2) 614 Applied Conducting (1, R4)
504 Topics in Music (1-3, R3) 615 Applied Composition (2, R8)
520 Studies in Music Literature (3, R9) 621 History of Musical Theory (3)
525 Twentieth-century Music (3) 622 Influences of Folk Traditions on Western
592 Orff-Schulwerk Level I (3) Art Music (3)
593 Topics in Music (1-3, R12) 640 Seminar in Music Pedagogy (3, R6)
597 Seminar in Piano Pedagogy (1, R4) 650 Advanced Flute Repair (2, R8)
598 Seminar in Accompanying (1, R4) 679 Lecture/Recital (3, R6)
601 Writing About Music (1) 680 Independent Study (1, R6)
611 Applied Music (1, R4) 693 Orff-Schulwerk Level II (3)
612 Applied Music (2, R8) 694 Orff-Schulwerk Level III (3)
613 Applied Music (3, R9) 695 Music Education Seminar (3)
699 Thesis (3)

Performance Courses
Credit is earned on the basis of one hour for each half hour of individual instruction per week. The courses are listed in prerequisite order. The two-hour courses are open only to music majors in the principal performance area. All other students take the one-hour courses. Permission of the department head is required. Passing a qualifying examination is prerequisite for 2/332, 2/336, 2/342, 2/346, 2/356, 2/362, and 2/366.

Brass
130, 131, 230, 231, 330, 331, 430, 431 (1 each)
132, 133, 232, 233, 332, 333, 432, 433 (2 each)

Percussion
134, 135, 234, 235, 334, 335, 434, 435 (1 each)
136, 137, 236, 237, 336, 337, 436, 437 (2 each)

Piano
140, 141, 240, 241, 340, 341, 440, 441 (1 each)
142, 143, 242, 243, 342, 343, 442, 443 (2 each)

Organ
144, 145, 244, 245, 344, 345, 444, 445 (1 each)
146, 147, 246, 247, 346, 347, 446, 447 (2 each)

Harpischord
150, 151, 250, 251 (1 each)

Voice
154, 155, 254, 255, 354, 355, 454, 455 (1 each)
156, 157, 256, 257, 356, 357, 456, 457 (2 each)

Woodwind
160, 161, 260, 261, 360, 361, 460, 461 (1 each)
162, 163, 262, 263, 362, 363, 462, 463 (2 each)

String
164, 165, 264, 265, 364, 365, 464, 465 (1 each)
166, 167, 266, 267, 366, 367, 466, 467 (2 each)

Music Synthesis
188, 189, 288, 289, 388, 391, 458, 459 (2 each)
148 Piano Class I, II (1, 1)  
149 Basic functional keyboard skills. 2 meetings.

158 Voice Class I, II (1, 1)  
159 Fundamental voice instruction. 2 meetings.

168 String Class I (1)  
Playing stringed instruments; basic technical problems and teaching techniques. 2 meetings.

169 Classroom Guitar Technique (1)  
Basic technical problems and teaching techniques. 2 meetings.

170 Preparatory Applied Music (2, R4)  
Individual instruction for students not meeting prerequisites. Not applicable to major. PREQ: Permission of department head. 1 meeting.

171 Chorus (1, R8)  
Study and performance of representative choral works; open to any student meeting eligibility requirements. 3 meetings.

172 Concert Choir (1, R8)  
Audition required; public performances. 4 meetings.

173 Band (1, R8)  
Performance of a wide variety of music in the marching, symphonic, and concert bands; open to any student meeting eligibility requirements. 4 meetings.

174 Orchestra (1, R8)  
Experience for advanced strings, wind, and percussion players; formal concerts and performances. PREQ: Permission of instructor.

175 Ensemble (1, R12)  
Performance in vocal or instrumental ensembles. 2 meetings.

184 Functional Jazz Keyboard (1, R2)  
Functional keyboard skills in jazz and popular styles. PREQ: 152 and 177 or permission of instructor. 2 meetings.

248 Piano Class III, IV (1, 1)  
249 Continuation of 148 and 149. 2 meetings.

258 Diction for Singers I (1)  
Fundamentals of the International Phonetic Alphabet and the principles utilized in a singing pronunciation of English and Italian.

259 Diction for Singers II (2)  
Continuation of the International Phonetic Alphabet and the principles utilized in a singing pronunciation of German and French. PREQ: 258 or permission of instructor.

270 Brass Class I (1)  
Brass performance and pedagogy related to trumpet. 2 meetings.

271 Woodwind Class I (1)  
Playing clarinet and saxophone; basic technical problems and teaching techniques. 2 meetings.

272 Percussion Class (1)  
Playing percussion instruments; basic technical problems and teaching techniques. 2 meetings.

273 Brass Class II (1)  
Playing horn and low brass; basic technical problems and teaching techniques. PREQ: 270. 2 meetings.
274 **Woodwind Class II (1)**  
Playing flute and double reeds; basic technical problems and teaching techniques. 2 meetings.

279 **Wind and Percussion Class I (1)**  
Class for voice and keyboard music majors, music minors, and music focus area students. 2 Lab.

283 **MIDI/Synthesis Class (1)**  
Topics, equipment, and pedagogy of MIDI/Synthesis. PREQ: 152 and 177 or permission of instructor. 2 meetings.

284 **Synthesizer Masterclass (1, R8)**  
Group lessons in MIDI/Synthesis for secondary students. PREQ: 181 and 182 or permission of instructor.

348 **Piano Class V, VI (1, 1)**  
349 Continuation of 248 and 249. 2 meetings.

370 **Ensemble (1, R12)**  
Performance in vocal and instrumental ensembles. PREQ: 175 or permission of department head.

371 **University Chorus (1, R8)**  
Study and performance of representative choral works; open to any student meeting eligibility requirements. 3 meetings. PREQ: 171 or permission of department head.

372 **Concert Choir (1, R8)**  
Audition required; public performances. 4 meetings. PREQ: 172 or permission of department head.

373 **Band (1, R8)**  
Performance in a wide variety of music in the marching, symphonic, and concert bands; open to any student meeting eligibility requirements. 4 meetings. PREQ: 173 or permission of department head.

374 **Orchestra (1, R8)**  
Experience for advanced strings, wind, and percussion players; formal concerts and performances. PREQ: 174 or permission of department head.

448 **Piano Class VII, VIII (1, 1)**  
449 Continuation of 348 and 349; must be elected in sequence until piano proficiency is satisfied; credit not applicable toward major requirements. 2 meetings.

**Graduate Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Prequisites</th>
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<tbody>
<tr>
<td>594</td>
<td>Topics in Music (1-3, R9)</td>
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<tr>
<td>611</td>
<td>Applied Music (1, R4)</td>
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<td>612</td>
<td>Applied Music (2, R8)</td>
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<tr>
<td>675</td>
<td>Ensemble (1, R6)</td>
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<tr>
<td>696</td>
<td>Seminar in Choral Techniques and Materials (3)</td>
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**Natural Resources Management (NRM)**

340 **Natural Resource Measurements (4)**  
Basic land, climatic, hydrologic, and vegetative measurements used in resource management. 3 Lecture, 2 Lab.

342 **Microcomputer Applications in NRM (1)**  
Applications of spreadsheets, database management, and specialized computer software to problems in natural resources management. 1 Lab.

344 **Introduction to Geographic Information Systems (3)**  
Introduction to and applications of geographic information systems in natural resources management. 2 Lecture, 2 Lab. PREQ: CS 101, NRM 342 or permission of instructor.
351 Forest Ecology (3)
The study of forests as integrated ecological systems; energy transfer; nutrient cycling; communities; succession; disturbance; and their roles in productivity and management. PREQ: BIOL 232, NRM 340 or permission of instructor. 2 Lecture, 2 Lab.

352 Forest Resource Measurements (3)
Principles of applications in measuring forest resources. Measurements of trees and stands for volume, quality, growth, land areas, and other forest resources. PREQ: 340 or permission of instructor. 2 Lecture, 2 Lab.

389 Cooperative Education in NRM (1 or 3, R15)
See Cooperative Education Program.

440 Integrated Resources Management (4)
Natural resources management exercises; project and strategic planning; map and quantitative integration techniques; group dynamics. PREQ: 340, 442; or permission of instructor. 2 Lecture, 4 Lab.

442 Natural Resources Policy and Administration (3)
Policy and administrative principles; case studies on the evolution of policy in the United States; current issues. PREQ: NRM major, junior standing; or permission of instructor.

451 Foundations of Silviculture (4)
Principles of silviculture and their applications to the major forest types of the United States. Site and management requirements of important tree species. PREQ: 351, 352 or permission of instructor. 3 Lecture, 2 Lab.

452 Forest Management (4)
Principles of forest management at stand and forest levels; forest growth, regulation, harvesting, and multiple-use management. PREQ: 451 or permission of instructor. 3 Lecture, 2 Lab.

460 Watershed Management (3)
Principles of watershed management for analysis and control of water yield, timing, and quality in single and multiple-use situations. 2 Lecture, 2 Lab. PREQ: 340 or permission of instructor.

470 Land Suitability Classification (3)
Study and application of land suitability classifications systems. PREQ: 340, 344, GEOG 305; or permission of instructor. 2 Lecture, 2 Lab.

480 Independent Study (1-3, R6)
PREQ: NRM major and permission of program coordinator.

493 Topics in NRM (1-3, R6)
PREQ: Permission of program coordinator.

Nursing (NSG)

300 Nursing Ethics through the Life Span (1-3)
Moral problems of everyday nursing practice; emphasis on the nurse’s role in moral reasoning. PREQ: Permission of instructor.

301 Professional Transitions in Nursing (3)
The development of the profession and of professional nurse roles and the processes through which they are conducted. PREQ: Admission to the nursing sequence.

302 Health Promotion in the Community (3)
Families as recipients of nursing care; wellness and promotion of health for individuals, families, and other groups in the community. PREQ: 301 or permission of instructor.
340 Basic Nursing Skills (3)
Psychomotor nursing skills essential to the care and comfort of patients; scientific principles underlying nursing procedures. PREQ: Admission to the nursing sequence. 2 Lecture, 3 Lab.

350 Dimensions of Professional Nursing (2)
The development of the profession and of professional nurse roles. PREQ: Permission of instructor. 1 Lecture, 1 Seminar.

353 Nursing Science I (4)
Fundamental nursing processes and concepts; emphasis on health maintenance and wellness; the normal prenatal patient as a major model. PREQ: Admission to the nursing sequence. COREQ: 383.

355 Nursing Science II (4)

360 Health Care of Women (2)
Review of women's health care, the functions of women's bodies, and personal responsibility for health.

383 Clinical Practicum I (3)
Application of psychomotor skills, interpersonal and nursing processes to the care of individuals; emphasis on the nursing role in health maintenance. PREQ: Junior standing. COREQ: 353. 9 Lab.

384 Practicum in Community Health Nursing (3)
Application of wellness concepts and health promotion in the nursing care of families and other groups in community settings. PREQ: 302 and 399 or permission of instructor. 9 Lab.

385 Clinical Practicum II (4)
Care of ill individuals and families in acute care and a variety of community settings; nursing role in preventing and treating illness emphasized. PREQ: 383. COREQ: 355. 12 Lab.

389 Cooperative Education in Nursing (1 or 3, R15)
PREQ: 355. See Cooperative Education Program.

393 Topics in Nursing (1-4, R12)
PREQ: Permission of instructor.

399 Seminar: Professional Nursing Knowledge and Skills (2)
Registered nurse students demonstrate or provide documentary evidence of satisfactory level of competence in basic professional nursing knowledge and skills. S/U grading. PREQ: Permission of instructor.

405 Gerontological Nursing (1-3)
The aging process, health assessment and promotion in the aged, identification of frequent alternations in health and appropriate nursing interventions. To be taught off campus only. PREQ: Permission of instructor.

460 Nursing Leadership and Management (2)
Leadership theory in the management of clients, peers, and other health-care providers in nursing service settings. PREQ: 385 or permission of instructor. 1 Lecture, 1 Seminar.

466 Nursing Science III (5)
Application of the nursing process for complex client models, including the childbear-
ing family, the hospitalized child and family, and the mentally ill client. PREQ: 385. COREQ: 486.

467 Nursing Science IV (5)
Planning nursing care in hypothetical situations for the ill adult with complex healthcare problems. PREQ: 385. COREQ: 487.

470 Nursing Research (3)
Research design in the study of nursing problems; interpretation of research emphasized. PREQ: Permission of instructor.

475 Perspectives of the Nursing Profession (2)
The impact and implications of current and evolving trends on the future practice of nursing. PREQ: Permission of instructor. 1 Lecture, 1 Seminar.

480 Independent Study (1-3, R6)
PREQ: Permission of instructor. S/U Grading.

483 Practicum in Clinical Management (3)
Application of management principles in the care of clients with complex health problems. COREQ: 460 or permission of instructor. 9 Lab.

486 Clinical Practicum III (4)
Application of nursing strategies to the care of the child-bearing family, the hospitalized child and family, and the mentally ill client. PREQ: 385. COREQ: 466. 12 Lab.

487 Clinical Practicum IV (4)
Application of wellness-illness concepts, nursing and other processes, and nursing skills with individuals and multiproblem families in complex healthcare agencies; experience in the managerial role of the nurse. PREQ: 385. COREQ: 467. 12 Lab.

Nutrition and Dietetics (ND)

231 Food Science (4)
Scientific principles of food preparation; effect of preparation practices on food quality and nutrient retention; storage and preservation principles. 3 Lecture, 3 Lab.

300 Food Facts and Fads (3)
Effects of food processing and preservation; safety of the food supply; food choices and health.

330 Human Nutritional Needs (3)
Principles of nutrition; needs throughout the life cycle; selection of well-balanced diets for health and well-being.

334 Nutritional Applications (3)
Application of nutritional principles to diet planning, nutrient analysis including computer-aided analysis, and nutritional assessment. PREQ: 330 or permission of instructor. 1 Lecture, 4 Lab.

336 Normal Nutrition (2)
Principles of human nutrition, emphasizing nutrients and factors affecting utilization in the human body. PREQ: BIOL 292, CHEM 133.

337 Therapeutic Nutrition (2)
Physiological and biochemical abnormalities in disease; principles of nutritional therapy. PREQ: BIOL 292, CHEM 133.

389 Cooperative Education in Nutrition (1 or 3, R15)
See Cooperative Education Program.
431 Food Preservation (3)
Principles and procedures for food preservation; home methods, principles of home food sanitation and spoilage, food storage techniques. PREQ: 231 or permission of instructor. 2 Lecture, 2 Lab.

433 Research Methods in Nutrition (3)
Standard procedures for nutrient analysis, including proximate analysis of foods; introductory experimental design and methodology. PREQ: 231; MATH 170 or PSY 251. COREQ: 436. 2 Lecture, 4 Lab.

434 Experimental Methods of Foods (3)
Advanced food science principles and techniques of sensory and objective evaluation of foods. PREQ: 231; CHEM 133. 2 Lecture, 4 Lab.

436 Advanced Human Nutrition (4)
Normal nutrition related to biochemical and physiological functioning; interrelationships of nutrients and their effect on body needs. PREQ: 334; BIOL 292; CHEM 133. COREQ: 433.

437 Diet Therapy (4)
Mechanisms by which food contributes to maintenance of health, prevention of disease, and correction of nutritional disorders. PREQ: 436. COREQ: 439.

439 Introduction to Professional Practice (3)
Introduction to professional ethics, conduct in patient care, utilization of laboratory values, nutritional assessment, and dietary management. COREQ: 437. 2 Lecture, 3 Clinical.

480 Independent Study in Nutrition (1-3, R6)
PREQ: Permission of instructor.

483 Internship (3, 3, 3)
484 Integration of theory and practice in a setting appropriate to the student's career field. 485 S/U grading. PREQ: Permission of instructor. 9 hours per week per course.

Graduate Courses
531 Food Preservation (3)
635 Nutrition Education (3)
533 Research Methods in Nutrition (3)
636 Protein, Carbohydrates, and Lipids (3)
534 Experimental Methods of Foods (3)
637 Advanced Diet Therapy (3)
536 Advanced Human Nutrition (4)
638 Community Nutrition (3)
537 Diet Therapy (4)
639 Vitamins and Minerals (3)
538 Clinical Experience in Dietetics (1)
681 Practicum in Clinical Dietetics (3, R6)
539 Introduction to Professional Practice (3)
682 Practicum in Administrative Dietetics (3, R6)
630 Nutrition Throughout the Life Cycle (3)
683 Practicum in Community Dietetics (3)
693 Topics in Nutrition and Food Science (1-3, R9)

Office Administration and Business Education (OA)

293 Topics in Office Administration (1-3, R6)

300 Word Processing (3)
Word processing skill development and application using electronic typewriters and microcomputers. PREQ: Keyboarding skill.

304 Business Communications (3)
Application of written, oral, and interpersonal communication theory in business. PREQ: ENGL 102.

310 Methods and Materials for Business Education (2)

340 Information Processing Systems (3)
Information processing and interpretation; use of the information processor, computer, and microcomputer; systems design; organizational implications. PREQ: 300 or equivalent. 2 Lecture, 2 Lab.
389 Cooperative Education in Office Administration (1 or 3, R15)
See Cooperative Education Program.

393 Topics in Office Administration (1-3, R6)

401 Office Systems and Simulations (3)
Organization, supervision, and related office administration responsibilities; office simulations. PREQ: 300.

402 Administrative Management and Policy (3)
Systems analysis, leadership and human relations, and control of office operations.

403 Business Research and Reports (3)
Identification of research problems; collecting and analyzing data; presenting findings for decision making.

415 Administration of Business Education Programs (3)
Administration, supervision, and coordination of business and office education programs.

483 Internship in Business and Office Education (3, 3, 3)
484 Supervised work experience in applications of previously studied theory. S/U grading.
485 PREQ: Junior standing, 2.0 GPA, permission of department head. Minimum of 10 hours per week.

Graduate Courses
601 Trends and Issues in Business Education (3) 683 Internship in Vocational Business Education (3)
602 (IET & HE 602) Vocational Education History 684 Internship in a Business Firm (1-3)
and Philosophy (3) 693 Topics in Business and Office Education (1-3, R9)
603 Research in Business Education (3) 695 Seminar in Business and Office Education (3)
605 Managerial Communication (3)

Parks and Recreation Management (PRM)

150 Career Opportunities in Parks and Recreation (1)
Exploration of varied career opportunities; career planning advisement; professional values and requirements; exposure to professionals in the field. 2 Lab/discussion/demonstration.

250 Foundations of Parks and Recreation Management (3)
Concepts, philosophical orientations, and aspects of recreation, play, and leisure. The organization of leisure and recreation as a service and profession. PREQ: 150 or permission of instructor.

254 Introduction to Outdoor Pursuits Education (3)
Instructional techniques for outdoor pursuits. Back country characteristics are reviewed in terms of hazards, use ethics, and safety. 2 Lecture, 2 Lab.

270 Leadership and Group Dynamics in Recreation (3)
Emphasis will be on appropriate theories and techniques for specific clientele and the different populations that are encountered as a recreation professional.

313 Camp Counseling (3)
This course is designed to prepare students for positions as camp counselors and provides the foundations for further preparation toward camp administration.

314 Organization and Administration of Camping Agencies (3)
The nature of camping; trends; elements of camp design and management.

321 Outdoor Education and Interpretation (3)
Theory and principles of outdoor education as an interdisciplinary approach to learning in a recreational or educational setting.
330 (SM 330) Aquatic Recreation Management (3)
Organization, programming, facility design, and maintenance in various aquatic recreational environments. Course may lead to Certified Pool Operator certification.

361 Program Planning and Evaluation in Parks and Recreation Management (3)
Designed to equip students with a variety of program planning methodologies including proposal and grant writing. Evaluative research methods are also included. **PREQ:** SOC 231 and SOC 385 or permission of instructor. 2 Lecture, 2 Lab.

370 Internship Orientation (1)
Orientation to the internship; preparation of personnel records; applications, resumes, and agency contracts. Preparation for entry into the profession: interview and application techniques. **PREQ:** SOC 385, and SOC 231, or permission of instructor. 2 Lab.

383 Internship in Parks and Recreation Management (1-3, R3)
S/U grading. **PREQ:** Permission of program coordinator. Minimum of 3 hours per credit hour.

389 Cooperative Education in PRM (1 or 3, R15)
See Cooperative Education Program.

420 Administration and Leadership of Outdoor Pursuits (3)
Implementation of outdoor pursuits programs. Includes planning and leadership components, outdoor adventure-based administrative techniques, and risk management. **PREQ:** 254 or permission of instructor. 2 Lecture, 2 Lab.

425 Land-based Outdoor Pursuits Education (3)
Land-based outdoor instruction in mountain activities, caving, and rescue techniques. Includes institutional teaching techniques used by different agencies and adaptations for people with disabilities. **PREQ:** 254 or permission of instructor. 2 Lecture, 2 Lab.

426 Water-based Outdoor Pursuits Education (3)
Water-based outdoor instruction in canoeing, kayaking, rafting, and rescue techniques. Includes institutional teaching techniques used by different agencies and adaptations for people with disabilities. **PREQ:** 254 or permission of instructor.

430 Entrepreneurship and Commercial Recreation (3)
Analysis of types of commercial and private recreation enterprises, probable trends and directions, requirements for and procedures for planning and organizing commercial recreation services.

433 Outdoor Recreation (3)
An overview of the professional aspects of outdoor recreation, including classification systems, policies of management agencies, and the perspectives of individuals, non-profit and commercial groups.

434 High Adventure Travel and Outfitting (3)
History, development, and organization of these activities. **PREQ:** Permission of instructor. 2 Lecture, 2 Lab.

435 Park and Recreation Sites, Facilities, and Programs (1-6, R6)
Planned tour to study specific types of parks and recreation sites, facilities, and/or programs related to current issues and practices. 1 Lecture or 2 Lab per credit hour.

440 Travel and Tourism (3)
The travel and tourist industry, national and international; locational characteristics, terminology, demographics, economic impact and trends; attitudes and skills required. **PREQ:** Permission of instructor. 2 Lecture, 2 Lab.

461 Management and Administration of PRM Services (3)
Management, organization, and supervision in recreation and leisure service adminis-
480 Independent Study (1-3, R6)
PREQ: Permission of program coordinator.

483 Internship in Parks and Recreation Management (3, 3, 3)
Placement in a cooperating agency to relate classroom learning to practice. S/U grading.
485 PREQ: 370, 2.0 GPA, permission of program coordinator. 9 hours per week per course.

486 Field Experience (1-12)
Field experience in cooperation with existing programs such as North Carolina Outward Bound School and Nantahala Outdoor Center. PREQ: Permission of instructor. 1-12 Lab.

493 Topics in Parks and Recreation Management (1-3, R6)
PREQ: Permission of program coordinator. 1 Lecture, 2 Lab.

495 Senior Seminar in Parks and Recreation Management (1)
Current trends and issues; individual research topics; employment decision making; graduate school advisement; presentation of internship experience. PREQ: Permission of instructor. 2 Lab/discussion.

Graduate Courses
580 Independent Study (1-3, R6)
583 Internship in Parks and Recreation Management (1-3, R6)
593 Topics in Parks and Recreation Management (1-3, R6)

Philosophy (PHIL)

101 Western Philosophical Traditions (3)
Examination of ways in which philosophers have interpreted reality, knowledge, and the nature of values. (P3a)

201 (300) Logic and Its Uses (3)
Principles and problems of reasoning; analysis and evaluation of arguments on philosophical, social, and scientific issues.

230 Reason and Rhetoric (3)
A study of reasoning in legal, philosophical, political, scientific, and other contexts with attention to rhetorical as well as logical uses of language.

231 Introduction to Ethics (3)
A treatment of questions of ethical values as they appear in both contemporary and historical contexts.

232 Introduction to Symbolic Logic (3)
Propositional and predicate logic, logic of modality, theory of logic.

304 Ancient Philosophy (3)
The Pre-Socratics, Plato, and Aristotle.

305 Medieval Philosophy (3)
Selected medieval philosophers, such as Augustine, Anselm, Averroes, Maimonides, Bonaventure, Aquinas, Scotus, and Ockham.

306 Modern Philosophy (3)
Sixteenth to eighteenth centuries: the British empiricists and Continental rationalists.
307 Nineteenth-Century Philosophy (3)
Kant, Hegel, and other selected nineteenth-century philosophers, such as Fichte, Marx, Mill, Kierkegaard, and Nietzsche.

308 Contemporary Philosophy (3)
Selected movements in contemporary philosophy, such as analytic philosophy, existentialism, phenomenology, process philosophy, and pragmatism.

310 Philosophy of Art (3)
Consideration of ways of making reflective claims about art; emphasis on development of a personal viewpoint.

311 Philosophy of Science (3)
The structure of scientific explanation and discovery; the cognitive status of scientific theories; relations between the various natural and social sciences.

312 Philosophy of Religion (3)
Selected topics, such as proofs for the existence of God, immortality, the problem of evil, and the nature of religious belief, action, and experience.

330 American Philosophy (3)
Study of major philosophers in America: James, Dewey, Peirce, Mead, Whitehead, Santayana, and Lewis.

340 Epistemology (3)
Primary problems in the theory of knowledge in Western philosophy. PREQ: 3 hours in philosophy excluding 101 and 201, or permission of instructor.

341 Metaphysics (3)
Central metaphysical issues in Western philosophy. PREQ: 3 hours in philosophy excluding 101 and 201, or permission of instructor.

393 Topics in Philosophy (1-3, R6)
PREQ: Permission of instructor.

493 Seminar in Philosophy (3, R9)
PREQ: 6 hours in philosophy, excluding 101 and 201, or permission of instructor.

Graduate Courses
593 Topics in Philosophy (1-3, R6)

Physical Education (PE)

102 Basic Water Safety Skills (1)
Basic water skills; Level III Stroke Readiness; American Red Cross swimming outline. 2 meetings (F5)

103 Intermediate/Advanced Swimming and Aquatic Sports (1)
Swimming strokes and diving; American Red Cross Level VII Advanced Skills; water polo, basketball and volleyball skills rules and strategy. PREQ: 102 or equivalent. 2 meetings (F5)

104 Lifesaving (1)
American Red Cross outline; applicable toward lifesaving certification. PREQ: 103 or equivalent. 2 meetings (F5)

105 Water Safety Instructor-Lifeguarding Instructor (1)
American Red Cross training for water safety instructor and lifeguarding instructor certificates. PREQ: Red Cross Level VII Advanced Swimming Skills. 3 meetings. (F5)
106 **Scuba Diving** (1)  
Snorkel and scuba. PREQ: 103 or equivalent. 2 meetings. (F5)

107 **Synchronized Swimming** (1)  
Creative patterns and movement with music. PREQ: 103 or equivalent. 2 meetings. (F5)

108 **Canoeing** (1)  
PREQ: 103 or equivalent. One 2-hour meeting. (F5)

113 **Hiking** (1)  
Safety and skills for organizing hiking and backpacking trips for small groups; clothing and equipment; map and compass; choosing hiking areas; weekend trips as arranged. 2 meetings. (F5)

114 **Jogging** (1)  
Principles and physiological benefits of running and aerobic exercise. 2 meetings. (F5)

115 **Weight Training** (1)  
Execution of various lifts; isotonic exercises; related health and safety factors. 2 meetings. (F5)

116 **Slimnastics** (1)  
Exercise and weight control; correlation of proper exercise to body proportions. 2 meetings. (F5)

118 **Aerobic Dance** (1)  
A physical fitness program utilizing simple dance routines and exercises. 2 meetings. (F5)

122 **Beginning Tennis** (1)  
2 meetings. (F5)

123 **Beginning Golf** (1)  
2 meetings. (F5)

124 **Handball** (1)  
One-wall and four-wall handball. 2 meetings. (F5)

125 **Racquetball** (1)  
One-wall and four-wall racquetball. 2 meetings. (F5)

126 **Bowling** (1)  
2 meetings. (F5)

127 **Badminton** (1)  
Singles and doubles games. 2 meetings. (F5)

129 **Archery** (1)  
2 meetings. (F5)

130 **Lifeguard Training** (1)  
American Red Cross outline for lifeguarding certificate. PREQ: PE 103 or equivalent. 3 meetings. (F5)

132 **Basketball** (1)  
2 meetings. (F5)

133 **Volleyball** (1)  
2 meetings. (F5)

134 **Softball** (1)  
2 meetings. (F5)
135 Soccer (1)  
2 meetings. (F5)

202 Casting (1)  
Bait, spin, and fly casting; fundamentals and care of equipment. 2 meetings. (F5)

203 Gun Handling (1)  
Shooting techniques, positions, gun laws, care of equipment. 2 meetings. (F5)

204 Snow Skiing (1)  
Meetings as announced. (F5)

205 Modern Dance and Choreography (1)  
Dance as an art form and a physical activity; elements of composition for expressive, creative, rhythmic movement. 2 meetings. (F5)

206 Social, Line, and Folk Dance (1)  
Skills, control, poise required in social, line, and folk dances. 2 meetings. (F5)

207 Fencing (1)  
2 meetings. (F5)

209 Advanced Tennis (1)  
PREQ: 122 or permission of instructor. 2 meetings. (F5)

210 Advanced Golf (1)  
PREQ: 123 or permission of instructor. 2 meetings. (F5)

214 Tumbling and Rebound Tumbling (1)  
Tumbling and floor exercises; trampolining. 2 meetings. (F5)

215 Gymnastic Apparatus (1)  
Long horse vault, parallel bars, horizontal bar, rings, side horse, uneven parallel bars, balance beam, and vault. 2 meetings. (F5)

228 Adapted Physical Education (1, R3)  
Remedial and therapeutic activities. PREQ: Permission of instructor and recommendation of a physician. 2 meetings. (F5)

230 Ice Skating (1)  
Mechanical principles of ice skating, history, equipment, safety of ice skating as a recreational activity. 2 meetings. (F5)

231 Aquarobics (1)  
Pool-based nonswimming aerobic activity for all ages and fitness levels. 2 meetings. (F5)

**Major Courses**

213 (SM 213) Introduction to Athletic Training (3)  
Prevention of injuries, bandaging and the treatment of basic injuries in varsity athletics.

250 Elementary School Physical Education Curriculum (2)  
Physical education in relation to the total curriculum.

251 Dance Dynamics (3)  
Methods and materials in creative rhythms; singing games, folk dances, and modern dance. 2 Lecture, 2 Lab.
261 Skill Acquisition I, II, III (1, 1, 1)
Fitness activities: aquatic, aerobic, and weight training skills in 261;
individual activities: stunts/tumbling, tennis, and golf skills in 262; team activities: volleyball, soccer, and basketball skills in 263. 3 meetings.

265 Sports Officialing I, II (2,2)
Rules, techniques, and mechanics in sports officiating; football, softball, baseball in 265; basketball, volleyball, soccer in 266.

310 Management of Physical Education and Sport Activity (2)
Study of management functions of physical education, intramurals, and sport programs. 2 Lecture, 1 Lab.

311 (HEAL 311) Measurement and Evaluation (2)

312 Foundations of Health and Physical Education (3)
The basic physiological, psychological, and sociological principles and historical foundations.

313 (SM 313) Psychological Aspects of Sport (3)
The psychological aspects of sport and coaching methods. PREQ: Junior standing; SM 260 for SM majors.

316 Administration of Recreational Agencies (2)
Organizational theory; facility, program, and personnel management in private and commercial recreational agencies. PREQ: Permission of instructor.

325 Physical Education Curriculum and Methods (3)
Class management, teaching methods, and program content for grades K-12. PREQ: Majors must be admitted to the professional education sequence. Minors by permission of instructor.

335 Anatomy and Physiology (4)
The study of the structure and function of the human body. 3 Lecture, 1 Lab.

345 Elementary Physical Education (3)
Developmental approach to physical education for the elementary school program. 2 Lecture, 2 Lab.

353 Methods and Teaching Analysis of Team and Individual Sports (3)
Methods, materials, and skills used in teaching sports: soccer, tennis, volleyball, and tumbling. PREQ: 312. 2 Lecture, 2 Lab.

360 Skills in Promoting Healthful Living (3)
A competency-based course of methods and materials in health, first-aid/safety, and physical education for the elementary school program. 2 Lecture, 1 Lab.

380 Independent Study (1-3)
A topic in health, physical education, or recreation agreed upon by student and instructor. PREQ: ENGL 102; permission of department head.

383 Instructional Apprenticeship (1, R3)
Apprenticeship to develop teaching and leadership skills before student teaching. PREQ: Physical education major; permission of instructor. 3 hours per credit hour.

389 Cooperative Education in PE and Sports (1 or 3, R15)
See Cooperative Education Program.

405 Outdoor Leisure Pursuits (1)
Application of principles of outdoor skills to planning, implementing, and evaluating K-12 school programs. 1 Lecture, 2 Lab.
410 Coaching Baseball and Football (3)
History, methods, materials, skills, and strategies of coaching baseball and football. PREQ: Junior-level standing; 2 Lecture, 2 Lab.

411 Coaching Basketball, Track, and Field (3)
Methods, materials, skills, and strategies for women's and men's basketball and track and field. PREQ: Junior-level standing; 2 Lecture, 2 Lab.

418 Coaching Softball, Volleyball, and Gymnastics (3)
Methods, materials, skills, and strategies of coaching softball, volleyball, and gymnastics. PREQ: Junior-level standing; 2 Lecture, 2 Lab.

423 Kinesiology (2)
Structure and function of the human muscular system as related to sports and activities. PREQ: 335.

424 Methods in Adaptive Physical Education (2)
Physical injuries, disabilities, illnesses; experience in analysis and application of therapeutic modalities. PREQ: 423 or permission of instructor.

425 Exercise Physiology (2)
The study of the acute and chronic effects of exercise on the human body. PREQ: 335. 2 Lecture, 1 Lab.

435 Motor Learning (2)
Analysis of the various theories related to motor learning, including equipment, evaluation techniques, and application in an educational environment. PREQ: 335. 3 Lecture.

490 Supervised Student Teaching in Physical Education (9)
A full-time teaching experience in physical education. COREQ: 496.

493 Special Topics (3, R6)
Trends and issues in physical education, sport management, and recreation.

496 Student Teaching Seminar in Physical Education (3)
Theory related to practice during physical education student teaching. COREQ: 490.

Graduate Courses
615 Legal Issues in Human Performance (3)
621 Research in Health and Human Performance (3)
625 Motor Learning (3)
630 Physical Education Curriculum (3)
635 Lifespan Motor Development (3)
640 Administration of Physical Education (3)
650 Applied Physiology (3)
655 Methods and Analysis in Physical Education and Sport Instruction (3)
665 Exercise Testing and Prescription (3)
675 Issues in Intramurals and Athletics (3)
676 Research Techniques in Exercise Physiology (3)
694 Special Problems (1-3)
696 Seminar/Practicum in Physical Education (3)
699 Thesis (3, R6)

Physical Therapy (PT)

Graduate Courses
601 Professional Issues I (2)
602 Professional Issues II (2)
603 Professional Issues III (1)
604 Professional Issues IV (2)
605 Professional Issues V (2)
611 Physical Therapy Science I (3)
612 Physical Therapy Science II (2)
613 Physical Therapy Science III (4)
614 Physical Therapy Science IV (3)
621 Human Anatomy I (3)
622 Human Anatomy II (3)
623 Functional Human Anatomy I (4)
624 Functional Human Anatomy II (4)
631 Human Anatomy I (3)
632 Human Physiology II (3)
641 Scientific Inquiry I (1)
642 Scientific Inquiry II (1)
643 Scientific Inquiry III (2)
644 Scientific Inquiry IV (2)
651 Clinical Logic I (3)
652 Clinical Logic II (3)
653 Clinical Logic III (3)
660 Neuroscience (4)
683 Experiential Professional Activities
684 I and II (2, 2)
693 Topics in Physical Therapy (1)
783 Experiential Professional Activities
784 III and IV (5, 5)
### Physics (PHYS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Lecture</th>
<th>Lab</th>
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<tbody>
<tr>
<td>105</td>
<td>Contemporary Physics (4)</td>
<td>4</td>
<td>Basic ideas in mechanics, heat, light, sound, electricity and magnetism, atomic and nuclear physics; applications in today's society.</td>
<td>3 Lecture, 2 Lab.</td>
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<tr>
<td>130</td>
<td>Introductory Physics (4, 4)</td>
<td></td>
<td>Noncalculus-based treatment of motion, force, energy, heat, electricity, magnetism, light, and modern physics.</td>
<td>MATH 130; 130 for 131.</td>
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<tr>
<td>131</td>
<td>General Physics (4, 4)</td>
<td></td>
<td>Calculus-based study of mechanics, thermodynamics, electricity and magnetism, optics, and modern physics.</td>
<td>MATH 153 for 230; 230 for 231.</td>
<td></td>
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<tr>
<td>230</td>
<td>Electronics (4)</td>
<td></td>
<td>Circuit theory, discrete devices, amplifiers, operational amplifiers, integrated circuits, and digital techniques.</td>
<td>131 and a course in differential and integral calculus.</td>
<td></td>
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<tr>
<td>302</td>
<td>Modern Physics (3)</td>
<td></td>
<td>Special relativity, quantum physics, the wave nature of matter, atomic and nuclear structure, and elementary particles.</td>
<td>131 or 231; MATH 140 or 153.</td>
<td></td>
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<tr>
<td>310</td>
<td>Mathematical Methods of Physics (3)</td>
<td></td>
<td>Complex numbers and functions, series, Fourier series, cylindrical and spherical polar coordinate systems, ordinary and partial differential equations.</td>
<td>131 or 231; MATH 255.</td>
<td></td>
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<tr>
<td>320</td>
<td>Optics (4)</td>
<td></td>
<td>Geometrical and physical optics, introduction to quantum optics.</td>
<td>131, MATH 255.</td>
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<tr>
<td>325</td>
<td>Thermodynamics (3)</td>
<td></td>
<td>Classical theory of heat, first and second laws of thermodynamics, enthalpy, entropy, introductory kinetic theory and statistical thermodynamics.</td>
<td>131, MATH 256.</td>
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<tr>
<td>335</td>
<td>Astrophysics (3)</td>
<td></td>
<td>Introduction to the basic principles of astrophysics; stellar structure, stellar evolution, galactic astronomy.</td>
<td>231 or 131; MATH 256.</td>
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<tr>
<td>360</td>
<td>Laboratory Physics (2)</td>
<td></td>
<td>Intermediate experiments in modern physics.</td>
<td>131 or 231.</td>
<td></td>
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<tr>
<td>380</td>
<td>Research in Physics (2, R8)</td>
<td></td>
<td>Physics research projects for individual students.</td>
<td>Permission of instructor.</td>
<td></td>
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<tr>
<td>389</td>
<td>Cooperative Education in Physics (1 or 3, R15)</td>
<td></td>
<td>See Cooperative Education Program.</td>
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<tr>
<td>410</td>
<td>Classical Mechanics (3)</td>
<td></td>
<td>Topics in analytical mechanics using vector operators and differential equations.</td>
<td>320 or MATH 256.</td>
<td></td>
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<tr>
<td>420</td>
<td>Nuclear Physics (3)</td>
<td></td>
<td>Nuclear decay, models, reactions, fission, fusion; lab techniques of instrumentation, gamma spectra, particle techniques.</td>
<td>131 or 231 and a course in differential and integral calculus.</td>
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440 Electricity and Magnetism (3)
Topics in electricity and magnetism using vector operators and differential equations. PREQ: 410 and 320 or MATH 320.

450 Quantum Mechanics (4)
Origins of quantum theory, the Schrödinger equation, one-dimensional potentials, linear harmonic oscillator, spherically symmetric potentials and the hydrogen atom. PREQ: 310, MATH 256.

454 (CHEM 454) Computer Interfacing (3)
Digital logic, computer design and interfacing with laboratory instruments. PREQ: Permission of instructor. 2 Lecture, 3 Lab.

493 Topics in Physics (2-4)
PREQ: 350 or permission of department head.

495 Seminar in Physics (1)
S/U grading.

Graduate Courses
601 Topics in Physics Education I, II (3,3)
602

Political Science (PSC)

106 (300) American Politics and Issues (3)
Analysis of current political institutions and their development within the cultural setting; associated problems and interrelationships with other social institutions. (P1b)

107 (301) Comparative Political Cultures (3)
Impact of cultural differences on the policies and political perspectives of various First-, Second-, and Third-World nations; comparison and contrast of contemporary examples. (P4)

108 Global Issues in Politics (3)
Analysis of major international issues influencing the development of recent history. (P5)

231 American Government and Politics (3)
The American political system; introduction to government institutions and how politics shapes policies.

302 Problems and Policies of American Government (3)
Alternative public policies in selected areas: social welfare, health care, resources, labor, agriculture, civil rights, business, taxation, defense, and education.

303 State and Local Government (3)
Structure and functions of state and local government; processes of policy formation.

304 Public Administration (3)
Administrative theory and practice; implementation of governmental policies; case studies of the administrative process in such areas as business regulation, health care, and law enforcement.

305 Congress (3)
Congress as an institution; its role in the formulation of national policies; case studies dealing with legislation in the various areas of national policy.

306 American Presidency (3)
The chief executive, his advisers, role playing, and decision making in the executive branch.
307 Civil Service Administration (3)
Policies, methods, and techniques used in civil service systems; problems and procedures in the public sector (local, state, and national).

309 The Politics of Budgeting (3)
Budgetary aspects of national, state, and local government operations; budget formulation, execution and enactment, revenue resources; politics of process.

310 Constitutional Law: Structure and Powers (3)
Analysis of judicial review; constitutional powers of the branches of government; federalism, sources of regulatory authority, and constitutional protection of political rights.

315 European Political Systems (3)
Comparison of the political systems of selected nations.

316 Politics of Developing Areas (3)
Comparative analysis of developmental processes pursued through political, military, economic, and administrative structures of Third-World nations; case studies.

317 Politics of East Asia (3)
Selected political systems of East Asia; factors involved in political change and modernization.

318 Soviet Political System (3)
The making of domestic and foreign policy by the Communist Party as a respondent to and a representative of the Russian political culture.

319 Latin American Political Systems (3)
Institutions, groups, parties, and processes; problems of political development, modernization, and change.

331 International Politics (3)
Components and characteristics of the international political system; conflict and cooperation in international relations; changing nature of international behavior.

332 International Organization (3)
Global and regional organizations promoting settlement of disputes, collective security, economic development, human rights, self-government.

333 International Law (3)
Rules and practices regulating such matters as state territory and jurisdiction, treaties, nationality and treatment of aliens, diplomatic and consular relations, warfare.

334 United States Foreign Policy (3)
Policies governing America's foreign relations; personnel and agencies responsible for policy implementation; role of the United States in world affairs since World War II.

335 Problems in World Politics (3)
Contemporary issues in international politics; international problem-solving methods and applications.

336 Mass Media and American Politics (3)
Examination and assessment of the power and influence of the mass media in American politics; emphasis on television.

345 Ancient and Medieval Political Thought (3)
Political philosophers from Plato to Thomas Aquinas; their ideas examined and related to current issues.

346 Modern Political Thought (3)
Political philosophers from Machiavelli to Mill; ideas providing the basis of modern political discussion and controversy examined.
347 American Social and Political Eras (3)
American social and political ideas from the Federalist Papers to the present.

348 Political Analysis (3)
Research methods and theoretical approaches for describing, explaining, and solving domestic and foreign policy problems. PREQ: 231 or permission of instructor.

351 Gender in Politics (3)
Gender roles examined in the context of national, state, and local government and politics.

389 Cooperative Education in Political Science (1 or 3, R15)
See Cooperative Education Program.

407 American Political Parties (3)
American political parties and their role in the government and politics of contemporary society; current national issues dividing the parties.

421 Political and Organizational Leadership (3)
Concepts and processes of leadership related to political and public organizations. PREQ: 6 hours in political science or permission of instructor.

436 Dynamics of World Order (3)
Alternative approaches to meeting social and political needs in a changing global environment; conditions and practices of interdependence.

480 Readings in Political Science (3)
PREQ: Departmental permission.

483 Internship in Political Science (3, 3, 3)
484 Work experience in a government or community agency applying academic studies to practice. S/U grading. PREQ: Permission of department head. 9 hours per week per course.

493 Contemporary Political Systems (3, R6)
Problems in the structure and functions of selected political systems reflected against their political cultures.

494 Seminar: American Political Systems (3)
Current issues in American government and politics.

Psychology (PSY)

101 (301) Perspectives on Human Behavior (3)
Applications of basic methods of study and knowledge of human behavior in relation to the social, cultural, and physical environment (Pla)

250 General Psychology (3)
Overview of psychology and the scientific study of behavior; topics in social, abnormal, and developmental physiological psychology, and personality, sensation, perception, and learning.
251 Research Methods I: Statistics (3)
Statistical description and inference; central tendency and variability; correlational measures; parametric and nonparametric tests of significance. PREQ: An algebra course.

252 Research Methods II: Experimentation (3)
Naturalistic observation and correlational research; research designs and statistics; ethical issues; data collection and analysis; writing formal papers. PREQ: 250 or permission of instructor; 251.

260 Introduction to Gerontology (3)
Introduction to the field of gerontology.

280 Research in Psychology I (1-3, R3)
Introductory-level supervised bibliographical or research activity. S/U grading. PREQ: Permission of instructor.

310 Social Psychology (3)
Social influences on individual behavior, feelings, and thoughts; social-psychological approaches to problems of attitudes, conformity, leadership, and other group phenomena. PREQ: 250 or permission of instructor.

313 Organizational and Industrial Psychology (3)
Structure, methods, techniques, and application of psychological concepts to human problems of work in organizations. PREQ: 250 or permission of instructor.

320 Child and Adolescent Development (3)
Theories and principles of development from conception through adolescence. PREQ: EDCI 231 and admission to professional education sequence or permission of the psychology department head; field experience required.

321 Educational Psychology (3)
Application of psychological principles to teaching; cognition, learning, motivation, measurement, individual differences, and behavior management. PREQ: For education majors: EDCI 231, PSY 320, admitted to teacher education. Field experience required.

325 Development: Early Adulthood through Maturity (3)
Physiological, cognitive, emotional, psychological, and social development after adolescence. PREQ: 250 or permission of instructor.

327 Psychology of Aging (3)
The process of aging during the later years; biological, psychological, and cognitive changes; theories of aging; counseling approaches. PREQ: 250 or permission of instructor.

331 Human Sexuality (3)
Physiological, biochemical, psychological, social, and legal aspects of human sexual behavior.

333 Psychology of Sex Differences (3)
Development of sex differences and similarities in cognition, personality, and social behaviors; the role of physiological, social, and cultural factors. PREQ: 250 or permission of instructor.

360 Psychological Testing (3)
History, theory, and practice of measurement; test development and standardization; evaluation of intelligence, achievement, aptitude, and personality. PREQ: 250 or permission of instructor.

363 Behavioral Intervention (3)
A survey of behavioral theory covering both nonmediational and mediational approaches. Applications of behavioral theory to a variety of difficulties including school and clinical settings. PREQ: 250 or permission of instructor.
Cooperative Education in Psychology (1 or 3, R15)
See Cooperative Education Program.

Topics in Psychology (3, R9)
PREQ: 250 or permission of instructor.

Individual Psychology (3)
Theory and practice related to self-understanding, problem solving, and interpersonal relationships. PREQ: 250 and 6 hours of psychology or permission of instructor.

Death and Dying (3)
Psychological foundations and correlates of death anxiety and grief; cross-cultural perspectives; death education and stages in children's awareness; coping with grief and fears. PREQ: 250 or permission of instructor.

Personality (3)
Assumptions, constructs, and theories of personality; related empirical findings. PREQ: 250 or permission of instructor.

Biological Psychology (3)
Physiological, genetic, and evolutionary bases of behavior. PREQ: 250 or permission of instructor.

Health Psychology (3)
Psychological foundations of health and illness; exploration of the impact of thoughts, emotions, and behavior on the development, treatment, and prevention of illness and the maintenance of health. PREQ: 250 or permission of instructor.

Language, Memory, and Cognition (3)
Theories and principles of human information processing: language production and comprehension, basic processes in memory and cognition. PREQ: 250 or permission of instructor.

Human Neuropsychology (3)
Survey of the basic theories of neuropsychology, emphasizing both cognitive and clinical research. The course will focus on the influence of the human brain on normal and abnormal behavior. PREQ: 250 or permission of instructor.

Systems and Theories in Psychology (3)
Systematic survey of psychology as a scientific endeavor from early approaches to contemporary schools and trends. PREQ: 250 or permission of instructor.

Crisis Intervention (1)
Theory and nature of crises; intervention strategies for dealing with a variety of crises such as physical assault, rape, suicide, and natural disasters.

Abnormal Psychology (3)
Theories of psychopathology; etiology, dynamics, symptomatology, diagnosis, and treatment. PREQ: 250 or permission of instructor.

The Emotionally Disturbed Child and Adolescent (3)
Etiology, characteristics, assessment, and treatment of deviation; learning difficulties, behavioral and psychotic disorders; problems of the handicapped. PREQ: 250 or permission of instructor.

Research in Psychology (1-6, R6)
Supervised research experiences for advanced students. S/U grading. PREQ: 250, 251, 252; permission of instructor.

Internship in Psychology (3, 3, 3, 3)
Application of theory, methods, and techniques in a cooperating agency under faculty supervision. PREQ: 2.0 GPA, 20 hours of psychology, and a course in methods of counseling, or permission of instructor. 9 hours applicable to major. 10 hours per week per course.
495 Senior Seminar in Psychology (3)
Overview of the history and current state of psychology. Discussions of important facts, issues, concepts, and theoretical perspectives in psychology. PREQ: Senior status as a psychology major.

Graduate Courses

510 Individual Psychology (3)
526 Death and Dying (3)
530 Personality (3)
540 Biological Psychology (3)
541 Health Psychology (3)
544 Language, Memory, and Cognition (3)
548 Human Neuropsychology (3)
555 Systems and Theories in Psychology (3)
570 Abnormal Psychology (3)
574 The Emotionally Disturbed Child and Adolescent (3)
610 Advanced Social Psychology (3)
621 Advanced Educational Psychology (3)
624 Child Development (3)
625 Adolescent Development (3)
626 Adulthood and Aging (3)
650 Advanced General Psychology (3)
651 Advanced Research Methods (3)
652 Advanced Research: Proposal Writing (2)

661 Psychological Assessment I (4)
662 Personality Assessment (3)
663 Assessment and Intervention with Infants (3)
671 Advanced Psychopathology (3)
672 Psychotherapy I: Theories (3)
673 Professional Issues (3)
675 Behavioral Interventions (3)
676 Psychotherapy II: Techniques (3)
677 Group Psychotherapy (3)
678 Family Systems (3)
679 Survey of Clinical Psychology (3)
680 Directed Study in Psychology (3, R6)
683 Internship in Psychology (6, 6)
684 Practicum in Psychology (4)
693 Topics in Psychology (3, R9)
697 Seminar: Behavioral/Emotional Evaluation of Children and Adolescents (3)
698 Rorschach Seminar (3)
699 Thesis (3, R6)

Public Affairs (PA)

Graduate Courses

571 Government-Business Relations (3)
572 Public Policy Formulation (3)
670 Public Affairs Administration (3)
671 Budgetary Processes (3)
672 Governmental Organizations (3)

673 Public Policy Analysis (3)
674 Statistics and Decision Making (3)
675 Metropolitan Government (3)
676 Government and Press Relations (3)
685 Internship in Public Affairs (3)

Reading (EDRD)

250 College Reading and Vocabulary (3)
Extending skills for college and recreational reading: emphasis on vocabulary and comprehension.

280 Speed Reading (3)
Techniques for improving reading speed, efficiency, vocabulary, and study habits; skimming, pacing, eye exercises, comprehension, and retention. 2 Lecture, 2 Lab.

323 Reading and Communication Skills in Content Areas (2)
Methods for teaching reading and other communication skills in content areas. PREQ: Admission to the professional education sequence.

334 Reading Instruction in the Elementary School (3)
Methods and materials for teaching reading in grades K-6; integration of communication skills in the total developmental reading program. PREQ: Admission to the professional sequence or permission of the instructor.

389 Cooperative Education in Reading (1 or 3, R15)
See Cooperative Education Program.

443 Middle Grades Reading (3)
Methods and materials for teaching reading and other communication skills in the middle grades; emphasis on organization for instruction, word identification and comparison skills, and reading in content materials.
453 High School and Adult Reading (4)
Methods and materials for teaching reading in high school and adult education. PREQ: 443. 3 Lecture, 2 Lab.

474 Practicum in Teaching Reading (3)
Assessment of reading problems and strategies for teaching reading. PREQ: 334 or 443 and EDEL 315. 2 Lecture, 2 Lab.

Graduate Courses
520 Phonics and Word Analysis (3)
533 Reading and Communication Skills (3)
543 Middle Grades Reading (3)
553 High School and Adult Reading (4)
573 Practicum in Teaching Reading (3)
641 Seminar I: Investigation and Research in Teaching Reading (3)
651 Clinical Procedures in Remedial Reading (3)
661 Issues and Trends of Literacy Education (3)
672 Organization and Supervision of Reading Programs (3)

Recreational Therapy (RTH)

253 Psychomotor Activity Skills (2)
Active and passive activities used to improve functional abilities of clients in physical rehabilitation settings.

340 Foundations of Recreational Therapy (3)
An investigation into the prescribed use of recreational activity as a clinical treatment modality for persons whose functional abilities are impaired.

352 Recreational Therapy Processes and Techniques (3)
Assessment, planning, implementation, and evaluation strategies attendant to recreational therapy service delivery. PREQ: 340.

360 Recreational Therapy Services for the Elderly (3)
Addressing the physical, psychological, and social needs of the elderly through recreational therapy.

389 Cooperative Education in Recreational Therapy (1 or 3, R15)
See Cooperative Education Program.

395 Pre-Internship Seminar (1)
Overview of NCTRC standards for professional certification, personal communication skills, practicum documentation requirements, internship site selection, and bloodborne pathogen training. PREQ: RTH major, junior standing.

396 Special Topics (1-3)

417 Administration of Recreational Therapy Services (3)
Contemporary recreational therapy program organizational principles and administrative issues. PREQ: 340.

450 Advanced Methods in Recreational Therapy (3)
Theoretical and practical examination of contemporary implementation procedures used in recreational therapy practice. Field trips required. PREQ: 340 or permission of instructor. 2 Lecture, 2 Lab.

470 Adventure-Based Recreational Therapy (3)
A theoretical and practical investigation of structured outdoor experiences as vehicles for facilitating human growth and development. Field trips required. PREQ: PRM 321 or permission of instructor. 2 Lecture, 2 Lab.
481 Independent Study (1-3)

484 Recreational Therapy Clinical Internship (6, 6)
Experience designed to integrate theory with practice; observation, field work, and planning in a setting related to student's area of interest. PREQ: RTH major and permission of curriculum coordinator. 3 hours per credit hour.

Religion (REL)

105 Eastern Religious Traditions (3)
A survey of the major Eastern religious traditions, such as Hinduism and Buddhism, and an attempt to answer the question: What is religion?

106 Western Religious Traditions (3)
A historical study of Judaism, Christianity, and Islam, and their influences on Western civilization.

380 Independent Study (1-3, R6)

493 Topics in Religion (3, R6)

Science Education (SCI)

293 Shop for Science Teachers (3)
Design, construction, and repair of simple laboratory apparatus and electronic equipment; basic work with wood, metal, glass, and soldering. 6 Lab.

331 Methods and Materials for Elementary Science (2)
Integrated lab experiences in micro-teaching; inquiry teaching skills using recent curricular materials. PREQ: Completion of general education science requirements.

341 Methods and Materials for Secondary School Science (2)
Integrated treatment of methods, materials, curriculum, and innovations in secondary science. PREQ: Completion of general education science requirements.

451 Environmental Science for Teachers (3)
Materials and techniques for interdisciplinary projects.

493 Topics in Science Education (1-3, 1-3)

494

Graduate Courses
551 Environmental Science for Teachers (3) 621 Biology and Environmental Science for Teachers (3)
593 Topics in Science Education (1-3, R6) 695 Seminar in Science Education (3, 3)
594 696
611 Physical and Earth Science for Teachers (3)

Secondary Education and Special Subject Teaching (EDSE)

322 Principles and Methods of Teaching (3)
Methods, strategies, materials, and techniques of clinical and classroom teaching. PREQ: Admission to the teacher education program or permission of department head.

486 Field Experience in Teaching (3, R6)
Supervised experience for a second teaching certification or for an initial certification for individuals who are employed as full-time teachers. 9 hours per week.

487 Teaching Practicum in Clinical Settings (1, R3)
Experience using teaching techniques, materials, and methods for individualized
230 instruction in job-related settings. S/U grading. PREQ: Junior standing and permission of advisor and department head. 1 Lecture, 1 Lab.

490 Supervised Student Teaching (9)
A full-time teaching experience. COREQ: 495.

492 Supervised Student Teaching in Health Education (6)
COREQ: 495.

495 Student Teaching Seminar (3)
Theory related to practice during student teaching. COREQ: 490, 492.

Social Work (socw)

151 Introduction to Social Work (3)
Social work as a profession; history; current practice settings; professional values and requirements.

231 Foundations of Family Service Skills (3)
Introduction to helping skills for practitioners working with children and their families.

232 Performance-Based Skills for Social Service Providers (3)
Integrates and further develops helping skills into performance standards for effective practice with children and families.

233 Competency-Based Practice Experience (3)
Practice experience in an agency related to skills learned in 231 and 232. S/U grading. PREQ: 231 and 232. 10 hours per week.

234 Social Welfare Programs (3)
The development of social welfare policy and programs with an emphasis on societal efforts to solve problems of the poor and disadvantaged. Credit not given to satisfy social work major requirements.

235 Working with Families (3)
The meaning of family and its functioning in contemporary society. Approaches and techniques for working with families. Credit not given to satisfy social work major requirements.

236 Research Utilization (3)
Design and implementation of a research project based on work in Head Start. Credit not given to satisfy social work major requirements.

237 Cultural Diversity (3)
Examination of implications of cultural diversity on social work practice. Credit not given to satisfy social work major requirements.

238, 239, 240 Volunteer Experience in Social Services (3, 3, 3)
Volunteer experience in a social agency. S/U grading. Credit not given to satisfy social work major requirements.

251 Social Welfare Policy and Programs (3)
Historical development of social welfare policies; policy development and change; understanding the political process; the relationship to social work values.

253 Foundations of Social Work Practice (3)
Basic knowledge, values, and skills of the profession; emphasis on use of self and the generalist approach. PREQ: 151.

304 School Social Work (3)
Practice in the school system: its content, history, and legal framework: Special needs children: designs, delivery, and evaluation of services.
326 Child Welfare (3)
Child welfare services, public and private programs, children's rights, and issues affecting services for children and families.

327 Social Work with Families (3)
Concepts and skills for intervention with families; emphasis on use of family strengths and community resources in family problem solving.

329 Social Work with Older Adults (3)
Concepts and skills for effective practice with the aging; needs and strengths of older people; community resources; professional approaches to intervention.

330 Social Work in the Health Field (3)
Concepts and skills for social work practice in hospitals, out-patient clinics, and other health settings.

334 Human Behavior and the Social Environment I (3)
Focus on the interaction of people with their environments from infancy to young adulthood. A variety of theories and research about human growth and development are considered.

335 Social Work Research and Evaluation (3)
Scientific methods of research used in building practice knowledge and evaluating service delivery. PREQ: 151, MATH 170.

335 Human Behavior and the Social Environment II (3)
Focus on the interaction of people and their environments from middle to later adulthood. A variety of theories and research about human growth and development are considered.

362 Social Work Practice I (3)
Application of knowledge, values, and skills to social work practice: individuals, families and groups. PREQ: 253.

364 Social Work Practice II (3)
Application of knowledge, values, and skills to social work practice: organizations and communities. PREQ: 362.

373 Social Welfare Policy: Issues and Analysis (3)
Current legal, political, economic, and social issues that influence the profession and practice of social work. PREQ: 251.

389 Cooperative Education in Social Work (1 or 3, R15)
See Cooperative Education Program.

393 Topics in Social Work (3, R9)

395 Seminar in Social Work (1-3, R9)
Current trends and issues for practice; studies of social work agencies and programs; examination of social welfare policies and concerns. PREQ: Permission of instructor.

402 Person, Environment, Culture (3)
Integration of human behavior and social environment, emphasis on selected subcultures and minority groups.

481 Independent Study (1-3, R6)
PREQ: 253 or permission of department head.

483 Internship in Social Work (3, 3, 3)
Work experience in an agency related to the student's interest and career objectives.

485 S/U grading. PREQ: Permission of instructor. 10 hours per week per course.
486 Field Practicum (4, 4, 4)
Full-time supervised placement in selected human service agencies to integrate theory with practice and prepare for professional responsibility. Concurrent enrollment required. PREQ: 364. COREQ: 496.

496 Field Practicum Seminar (4)
Integration of content with field practice. COREQ: 486, 487, 488.

Graduate Course
593 Topics in Social Work (1-3, R6)

Sociology (SOC)

103 (300) Human Society (3)
Analysis of human behavior in social and cultural contexts, emphasizing the sociological perspective. (P1a)

231 Principles of Sociology (3)
Analysis of human social behavior; basic concepts in current theory and research.

304 Social Change (3)
Changes in human societies through cultural, economic, social, and political processes; introduction to development, social movements, and social conflict. PREQ: 231 or permission of instructor.

310 Demography (3)
Study of population characteristics, growth, and trends within a context of social, cultural, economic, and political systems. PREQ: 231 or permission of instructor.

314 Social Inequality (3)
Social inequalities in wealth, income, prestige, and power; inequalities based on sex, age, and race. PREQ: 231 or permission of instructor.

326 Gender Roles and Society (3)
Gender roles examined in a sociological context emphasizing the relationship between these roles and the pre-existing sexual stratification system. PREQ: 231 or permission of instructor.

327 Women and Development (3)
A cross-cultural overview of the impact of modernization on women's status and women's roles in the development process. PREQ: 231 or permission of instructor.

328 Women of Color (3)
Life experiences and achievements of women of color in the United States are reviewed. Topics covered include activism, employment, education, health, family life, religion, and the media. PREQ: 231 or permission of instructor.

330 Rural Society (3)
Application of sociological concepts to rural environments; characteristics of rural population, social structure, social institutions; social change, structure of agriculture, local government structure and processes. PREQ: 231 or permission of instructor.

342 The Individual in Society (3)
Individual behavior in social context; social interaction. PREQ: 231 or permission of instructor.

350 Deviant Social Behavior (3)
Causes and control of individual and group rebellion or retreat from prescribed social norms.

354 Social Problems (3)
Problems of modern American society such as poverty, social conflict, corporate power and capitalism, alienation, and deviance.
355 Criminology (3)
Nature, extent, and causes of criminal behavior; role of police, courts, and corrections; prevention and control programs.

380 (ANTH 380) Ethnographic Research Methods (3)

385 Methods of Social Research (3)
The logic of scientific inquiry; techniques of research used in sociology, including sample surveys. PREQ: 231 or permission of instructor.

386 Analysis of Social Data (3)
Methods for presentation and analysis of social scientific data; descriptive and inferential techniques; measures of association. PREQ: 385.

389 Cooperative Education in Sociology (1 or 3, R15)
PREQ: 231 or permission of instructor. See Cooperative Education Program.

391 Sociological Theory (3)
The development of sociological theory; issues in classical and contemporary social thought. PREQ: 231 or permission of instructor

414 (ANTH 414) Minority Groups (3)
Relations between dominant and subordinate races and ethnic groups; historical and comparative aspects; African-Americans, Chicanos, and Indians. PREQ: 231 or permission of instructor.

423 (SM 423) Sociology of Sport (3)
Social issues in sport examined from historical, cross-cultural, and sociological perspectives with attention to impact of race, gender, and social class on participation. PREQ: Junior standing; SM 260 for SM majors.

428 Sociology of Institutions (3)
Theoretical explanations of institutions including education, factories, retail, health care, government, media, politics, and their influence on society. PREQ: 231 or permission of instructor.

432 Community Organization and Development (3)
Community organization viewed as a process of bringing about desirable changes in community life. Community structure, needs assessment, and planning for change. PREQ: 231 or permission of instructor.

434 Regional and Societal Development (3)
Social dimensions of economic growth and development with particular emphasis on Third-World countries; alternative definitions of development, and changing national, regional, and institutional structures. PREQ: 231 or permission of instructor.

448 Social Movements (3)
Social movements and collective behavior; mass efforts to promote or resist social change; comparison of riots, reform movements, and revolutions. PREQ: 231 or permission of instructor.

454 Sociology of Conflict and Conflict Resolution (3)
Analysis of sociological theories of social conflict, including Marx, Weber, Simmel, Coser, Dahrendorf, and Collins; case studies of conflict and conflict resolution stressing the applications of theory and research. PREQ: 231 or permission of instructor.

480 Independent Study in Sociology (1-2, R6)
PREQ: 231 or permission of instructor.

483 Internship in Sociology (3, 3, 3)
Application of theory and knowledge to work experience in a cooperating agency.

484 S/U grading. 3 hours credit applicable to sociology major or minor. 9 hours per week per course. PREQ: 231 or permission of instructor.
494 Topics in Sociology (1-3, R9)
PREQ: Permission of instructor

Graduate Courses
514 (ANTH 514) Minority Groups (3)
523 Sociology of Sport (3)
532 Community Organization and Development (3)
534 Regional and Societal Development (3)
554 Sociology of Conflict and Conflict Resolution (3)
580 Independent Study in Sociology (1-2, R6)
594 Topics in Sociology (3, R6)
601 Rural Society (3)

Spanish (SPAN)

101 Spanish Language and Culture (3)
Elements of understanding, speaking, reading, and writing Spanish; basic grammatical concepts; lab practice required. (P3a)

105 The Spanish-Speaking World (3)
Study of Spanish culture and its relationship to the cultures of countries and regions where Spanish is spoken. (P4)

110 Intensive Spanish I (6)
Developing skills in understanding, speaking, reading, and writing; emphasis on oral aspects; the Rassias Method. Three hours credit only applicable to general education. PREQ: Permission of instructor. 4 Lecture, 3 Lab, 5 Drill. (P3a)

132 Elementary Spanish (3)
Continuation of Spanish 101. PREQ: Placement or permission of department head.

231 Intermediate Spanish I, II (3, 3)
Continuation of oral and written Spanish grammar; readings and discussion on Spanish culture and civilization; readings in more specialized areas; lab practice may be assigned. PREQ: 132 or equivalent or placement for 231; 231 or equivalent or placement for 232.

240 Intensive Spanish II (6)
Continuation of 110; increasing emphasis on reading and writing skills. PREQ: Permission of instructor. 4 Lecture, 5 Lab, 5 Drill.

301 Spanish Composition (3)
PREQ: 232 or equivalent or placement.

302 Conversational Spanish (3)
Advanced intermediate course emphasizing topical dialogue. PREQ: 232 or equivalent or placement.

303 Applied Spanish Conversation (3, R6)
Apprenticeship in the intensive language program. Does not count toward major, minor, or DFA in foreign languages. PREQ: 232 or 240, sophomore standing, selection by faculty. 10 Lab.

310 Introduction to Spanish Prose and Poetry (3)
Introduction to Spanish literary texts; reading and analysis of literary works. PREQ: 232 or 240.

320 Methods of Teaching Foreign Language (3)
Methods and materials for teaching second languages in grades K-12. PREQ: Admission to professional sequence or permission of instructor.

321 Spanish Civilization (3)
Geographical, political, cultural, and historical aspects of Spain. PREQ: 232 or 240. PREQ or COREQ: 301 or 302 or permission of department head.
322 Latin American Civilization (3)
Geographical, political, cultural, and historical aspects of Latin America. PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission of department head.

331 Survey of Spanish Literature I, II (3)
The main literary movements, authors, and works in Spain since the 12th century; course division at 15th century. PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission of department head.

333 Survey of Latin American Literature (3)
Literary movements, authors, and works of Latin America. PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission of department head.

351 Spanish Phonetics and General Linguistics (3)
Analysis of the Spanish sound system; intensive drill in pronunciation, articulation, intonation, and rhythm; introduction to linguistics. PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission of department head.

389 Cooperative Education in Spanish (1 or 3, R15)
PREQ: 301, 302. See Cooperative Education Program.

393 Special Topics in Spanish (1-3, R6)
PREQ: 232 or 240.

431 Studies in Spanish Literature (3, R6)
Study of an author or authors, a genre, literary movement, school, or literary period of Spain. PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission of department head.

432 Studies in Latin American Literature (3, R6)
Study of an author or authors, a genre, literary movement, school, or literary period of Latin America. PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission of department head.

451 Advanced Spanish Grammar (3)
Study of the more difficult grammatical forms and usages of the Spanish language. PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission of department head.

452 Advanced Spanish Conversation (3)
Discussion of selected topics; reports on assigned readings; situational dialogues in practical, everyday Spanish. PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission of department head.

481 Independent Studies in Spanish (1-3, R6)
PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission of department head.

Special Education (SPED)

200 Survey of Exceptionalities (3)
Historical, philosophical, and legal basis of special education; characteristics and related educational needs of children with disabilities, models of delivery of services and trends in special education for children birth to five years old. PREQ: BK 260 and admission to professional education sequence.

240 The Exceptional Child (3)
Areas and characteristics of exceptionalities; problems in learning and personal-social adjustment of exceptional children; educational alternatives.

310 Evaluation of the Exceptional Child (3)
Development of assessment programs and evaluation procedures; practice administering and interpreting tests.
312 Teaching Elementary Students with Learning Problems (K-6) (3)
Methods and materials for evaluating and instructing children with mild to moderate learning problems. PREQ: 240, admission to the professional education sequence.

313 Assessment of the Young Child (3)
Assessment activities including child screening, diagnostic assessment, educational assessment for young children. PREQ: 200.

314 (BK, EDEL) Kindergarten Curriculum (3)
Overview of models for K-3 curriculum for typical and atypical children in home and school environments.

323 Preprofessional Seminar in Mental Retardation (3)
Topics related to field experiences.

335 Teaching Exceptional Children (2)
Overview of exceptional children; emphasis on methods and materials for integrating students into regular classrooms. Not open to special education majors. PREQ: Admission to the teacher education program or permission of department head.

366 (BK, EDEL) Infant Curriculum (3)
Scope and sequence of developmental curricula in all areas of infant development and learning; methods of providing individual and group intervention through a variety of formats. 2 Lecture, 3 Lab. PREQ: CDFR 360.

389 Cooperative Education in Special Education (1 or 3, R15)
See Cooperative Education Program.

401 Introduction to Learning Disabilities (3)
Historical concepts and theories of learning disabilities; educational characteristics of learning-disabled children; overview of remedial programs. PREQ: 240.

405 Introduction to Mental Retardation (3)
Multidisciplinary approach to mental retardation; mental performance and functioning related to human development. PREQ: 240 or permission of department head.

411 Collaborative Planning (3)
Development, implementation, monitoring, and evaluation of care plans (IFSP and IEP); knowledge of state and federal legislation agency services and programs affecting young children with disabilities and their families.

412 Interagency Practicum (2)
Professional roles and functions of early childhood intervention teams, transdisciplinary team process, structures of interagency collaboration. PREQ: 200, admission to professional education sequence.

413 Teaching Adolescents with Learning Problems (3)
Survey and evaluation of curricular models, diagnosis, developing instructional strategies, establishing goals and objectives. PREQ: 312, admission to professional education sequence, senior status.

417 Managing Classrooms for Exceptional Children (3)
Principles and techniques of classroom and behavior management. PREQ: 240 and admission to the teacher education program.

432 The Physically Handicapped Child (3)
Social, psychological, and medical problems of children with physical disabilities.

450 Individual Educational Plans for Students with Disabilities (3)
Development of Individual Educational Plans (IEPs); formal and informal assessment
and instructional planning; study of federal and state regulations. **PREQ:** 240 and admission to the professional education sequence.

470 (BK, EDEL) **Early Childhood Curriculum (3)**
Materials, environments, and interactions for 2-5 year olds in all curricular areas, including thinking and social problem-solving for typical and atypical children. 2 Lecture, 3 Lab. **PREQ:** 366.

484 **Practicum in Special Education (1-3)**
Three hours per credit hour. **PREQ:** Written application, permission of instructor and advisor.

485 **Field Experience in Teaching (3, R6)**
Supervised experience for a second teaching certificate or for an initial certification for individuals who are employed as full-time teachers. 9 hours per week.

486 **Practicum in Mental Retardation (1-3)**
3 hours per credit hour. **PREQ:** Written application; permission of instructor and adviser.

487 **Practicum in Learning Disabilities (1-3)**
3 hours per credit hour. **PREQ:** Written application; permission of instructor and adviser.

490 **Supervised Student Teaching (9)**
A full-time teaching experience. **COREQ:** 495.

491 (BK, EDEL) **Internship (4, R8)**
Observing, planning, teaching, and evaluating young children in typical and atypical settings. **COREQ:** BK 496.

495 **Special Education Seminar (3)**
Working with parents, teachers, students, and others in a helping consultative relationship; skills for effective participation on interdisciplinary teams. **PREQ:** 240 and admission to the teacher education program. **COREQ:** 490.

496 (BK, EDEL) **Internship Seminar (1, R2)**
The interrelationships of theory and practice in the context of experience. **COREQ:** BK 491.

**Graduate Courses**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>501</td>
<td>Introduction to Learning Disabilities</td>
<td>3</td>
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<td>502</td>
<td>Current Issues in Special Education</td>
<td>3</td>
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<td>504</td>
<td>Educational Programs for Students with Behavioral</td>
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<td>Disorders</td>
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<td>513</td>
<td>Teaching Adolescents with Learning Problems</td>
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<td>529</td>
<td>Educational Programs for Students with Mental Retardation</td>
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<td>531</td>
<td>The Physically Handicapped Child</td>
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<td>593</td>
<td>Topics in Special Education (1-3, R6)</td>
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<td>600</td>
<td>Creative Thinking and Problem Solving</td>
<td>3</td>
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<td>603</td>
<td>Administration of Special Education Programs</td>
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<td>630</td>
<td>Teaching Students with Mild to Moderate Mental Retardation</td>
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<td>631</td>
<td>Appraisal of Exceptional Children</td>
<td>3</td>
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<td>681</td>
<td>Seminar in Learning Disabilities</td>
<td>3</td>
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<td>682</td>
<td>Research in Special Education</td>
<td>3</td>
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<td>684</td>
<td>Teaching Students with Behavioral Disorders</td>
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<td>687</td>
<td>Practicum in Special Education (1-3, R3; each course)</td>
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**Sport Management (SM)**

213 (PE 213) **Introduction to Athletic Training (3)**
Prevention of injuries, bandaging and the treatment of basic injuries in varsity athletics.

260 **Introduction to Sport Management (3)**
Career opportunities, competencies, and management skills; overview of management functions and ethics; history of sport management.
313 (PE 313) Psychological Aspects of Sport (3)  
The psychological aspects of sport and coaching methods. PREQ: Junior standing; 260.

315 Introduction to Intramurals and Recreational Sport Management (3)  
Organization, administration, history, and theoretical concepts of intramurals and recreational sport management in the public school, college, and military settings. PREQ: Junior standing or permission of instructor.

330 (PRM 330) Aquatic Recreation Management (3)  
Organization, programming, facility design, and maintenance in various aquatic recreational environments. Course may lead to Certified Pool Operator certification.

380 Independent Study (1-3, R3)  
A topic in sport management agreed upon by student and instructor. PREQ: ENGL 102; permission of department head.

383 Apprenticeship (1, R3)  
Apprenticeship to develop necessary skills before entering the required internship. PREQ: Permission of department head. 3 Lab.

389 Cooperative Education in Sport Management (1 or 3, R15)  
PREQ: Permission of instructor. See Cooperative Education Program.

413 Athletic Injury Assessment (3)  
A concentrated study on athletic injury assessment and rehabilitation. PREQ: PE 213.

415 Legal Issues for the Sport Practitioner (3)  
Study of legal issues related to sport delivery systems, physical education, and recreation settings. Legal terminology, risk management, case law, and current issues are analyzed. PREQ: Senior standing or permission of instructor; SM 260 for SM majors.

423 (SOC 423) Sociology of Sport (3)  
Social issues in sport examined from historical, cross-cultural, and sociological perspectives with attention to impact of race, gender, and social class on participation. PREQ: Junior standing; SM 260 for SM majors.

435 Event and Facility Management and Marketing (3)  
Study of current trends and the management and marketing of sporting events and sport facilities. Basic terminology and building designs of sport facilities are also discussed. PREQ: Junior standing.

460 Financial Aspects of Sport (3)  
Financial considerations important to sport; budgeting, fund raising, and economic impact of sport events; historical aspects. PREQ: SM 260 for SM majors only; ACCT 161 or 251; MKT 301; ECON 231; and junior standing.

461 Sport Marketing Promotions (3)  
Historical study of sport marketing; techniques in developing sport sponsorship proposals and effective sport promotions; sport marketing applications. PREQ: SM 260 for sport management majors; junior standing; MKT 301.

484 Internship in Sport Management (6, 6)  
Experiences relating theory to practice in a specific area of sport management. PREQ: Permission of department head. 12 weeks, 20 hours per week per course.

495 Sport Management Seminar (2)  
Analysis of management, organizational structure, and strategic planning in sports organizations; current issues in sports management. PREQ: SM major; SM 260; senior standing.
University Studies-Interdisciplinary (USI)

101 Honors Forum (1)
Interdisciplinary introduction to the academic milieu—scholarly controversy, the ferment of ideas, study, and research.

130 Academic and Career Planning (1)
Introduction to the university and to higher education. Discussion of issues involved in the transition from high school to college. Emphasis on academic and career planning and personal development.

393 Topics in International Studies I (3, R6)
Interdisciplinary introduction to the civilization and culture of a particular country or region and its relationship with the United States.

394 Topics in Cherokee Studies (3, R9)
Selected individual or interdisciplinary aspects of Cherokee culture and society offered by various departments.

395 Topics in International Studies II (1-3, R4)
Interdisciplinary study of the civilization, environment, and culture of a country or region and its relationships with the United States and the world community.

396 Honors Colloquium (3, R6)
Interdisciplinary discussion of a topic of special concern selected in consultation with honors students. PREQ: Junior standing, 3.0 GPA.

497 Honors Seminar (3, R6)
Interdisciplinary seminar featuring student research directed toward a topic selected in consultation with honors students. PREQ: Junior standing with 3.0 GPA.

Graduate Courses

693 Topics in Graduate Education (1-3, R6)
History of The University of North Carolina

In North Carolina, all the public educational institutions that grant baccalaureate degrees are part of the University of North Carolina. Western Carolina University is one of the 16 constituent institutions of the multi-campus state university.

The University of North Carolina, chartered by the N.C. General Assembly in 1789, was the first public university in the United States to open its doors and the only one to graduate students in the 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 N.C. General Assembly began sponsoring additional institutions of higher education, diverse in origin and purpose. Five were historically African-American 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 N.C. General Assembly redefined the University of North Carolina to include three state-supported institutions: the campus at Chapel Hill (now the University of North Carolina at Chapel Hill), North Carolina State College (now North Carolina State University at Raleigh), and Woman's College (now the University of North Carolina at Greensboro). The new multi-campus university operated with one board of trustees and one president. By 1969, three additional campuses had joined the university through legislative action: the University of North Carolina at Charlotte, the University of North Carolina at Asheville, and the University of North Carolina at Wilmington.

In 1971, the General Assembly passed legislation bringing into the University of North Carolina the state's ten remaining public senior institutions, each of which had until then been legally separate: Appalachian State University, East Carolina University, Elizabeth City State University, Fayetteville State University, North Carolina Agricultural and Technical State University, North Carolina Central University, the North Carolina School of the Arts, Pembroke State University, Western Carolina University, and Winston-Salem State University. This action created the current 16-campus University. (In 1985, the North Carolina School of Science and Mathematics, a residential high school for gifted students, was declared an affiliated school of the University; and in 1996, Pembroke State University was renamed The University of North Carolina at Pembroke through Legislative action.)

The UNC Board of Governors is the policy-making body legally charged with "the general determination, control, supervision, management, and governance of all affairs of the constituent institutions." It elects the president, who administers the university. The 32 voting members of the Board of Governors are elected by the General Assembly for four-year terms. Former board chairmen and board members who are former governors of North Carolina may continue to serve for limited periods as non-voting members emeriti. The president of the UNC Association of Student Governments, or that student's designee, is also a non-voting member.

Each of the 16 constituent institutions is headed by a chancellor, who is chosen by the Board of Governors on the president's nomination and is responsible to the president. Each institution has a board of trustees, consisting of eight members elected by the Board of Governors, four appointed by the governor, and the president of the student body, who serves ex officio. (The N.C. 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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WESTERN CAROLINA UNIVERSITY

Western Carolina University was founded in August 1889 as a semipublic school. Chartered as Cullowhee High School in 1891, it served the Cullowhee community and boarding students from neighboring counties and other states.

For Professor Robert Lee Madison, the institution's founder, the aim of the school was teacher training. In 1893, with the first state appropriation of $1,500, a normal department was established. In 1905, the institution became Cullowhee Normal and Industrial School, a title it held for 20 years.

Beginning about 1912, the status of the school was gradually raised to that of a two-year normal school or junior college. With state support increasing and work at the secondary level discontinued, the name of the school was changed in 1925 to Cullowhee State Normal School.

In 1929, under a new charter authorizing the school to extend its work to the four-year level, the name Western Carolina Teachers College was adopted. Modifications in function and rapid growth climaxed in 1951 with the addition of the postgraduate year to the curriculum, and the granting of the Master of Arts in Education degree was authorized. Demands in the liberal arts, and for programs in other areas of learning, led to an expansion of its offerings and to a further change, in 1953, to the name Western Carolina College.

In 1967 the institution was designated a regional university by the North Carolina General Assembly and the name of the institution was changed to Western Carolina University.

In 1971 the state legislature reorganized higher education in North Carolina, and on July 1, 1972, Western Carolina University became a constituent institution of the University of North Carolina.

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