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.

Western Carolina University publishes two issues of The Record, the general catalog and the graduate catalog. Both describe academic programs, regulations, and policies.

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, NC 28723, 704-227-7317.

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Volume LXXIV April 1998 Number 1

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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 1998

August 3, Monday

August 16, Sunday, noon
August 16-18, Sunday-Tuesday
August 17, Monday, 3-6 p m
August 18, Tuesday 9-11 a m

11-1 p m
1-4 p m
August 19, Wednesday, 9 a m - 4 p m
August 20, Thursday, 8 a m
August 20-26,
Thursday-Wednesday
September 5-7, Saturday-Monday
September 8, Tuesday, 8 a m
October 3-6, Saturday-Tuesday
October 7, Wednesday, 8 a m
October 8, Thursday
October 14, Wednesday
October 19, Monday

October 19-November 6,
Monday-Friday
November 25-29,
Wednesday, 8 a m - Sunday
November 30, Monday 8 a m
December 10, Thursday
December 11, Friday
December 12-18, Saturday-Friday
December 19, Saturday, 2 p m
December 19, Saturday

Class schedules of all undergraduate students
who preregistered and have not paid will be cancelled
Resident halls open for all students
Orientation for new students
Registration in Asheville
Registration in Cullowhee for new and transfer students
Returning and continuing students
Drop-add
Registration and drop add continues
All classes begin
Late registration and schedule changes in Cullowhee
Labor Day Holiday
Classes resume
Fall holiday
Classes resume
(All Monday classes meet)
Last day to drop a course with a W
Last day for students completing programs in May to file degree application in dean’s offices
Academic advisement for spring semester
and early registration in Cullowhee
Thanksgiving holidays

Classes resume
Last day of classes
Reading day
Final examinations
Commencement
Christmas holiday begins

Spring Semester 1999

January 10, Sunday, noon
January 11, Monday 3-6 p m
January 11, Monday
January 12, Tuesday, 9-11 a m

11-1 p m
1-4 p m
January 13, Wednesday, 8 a m
January 13-20, Wednesday-Wednesday

January 18, Monday
March 6-14, Saturday-Sunday
March 15, Monday, 8 a m
March 15, Monday

Residence halls open for all students
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
Spring holiday
Classes resume
Last day to drop a course with a W

1 A late registration fee of $10 will be charged
March 22-April 9, Monday-Friday
April 2-4, Friday, 8 a.m.-Sunday
April 5, Monday, 8 a.m.
April 8, Thursday
May 7, Friday
May 8-14, Saturday-Friday
May 15, Saturday, 2 p.m.

Summer Term 1999
May 27, Thursday, 4-6 p.m.
May 31, Monday, 9 a.m.-4 p.m.
May 31, Monday-August 6, Friday
July 5, Monday, 9 a.m.-4 p.m.
July 5, Monday-August 6, Friday
August 6, Friday, 7 p.m.

Academic advising for summer and fall semester and early registration in Cullowhee
Easter holiday
Classes resume
(All Monday classes meet)
Last day of classes
Final examinations
Commencement

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

TELEPHONE NUMBERS

Area Code 828
The area code 704 will change to 828 on June 1, 1998

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
Western Carolina University is a comprehensive university within The University of North Carolina, offering a broad array of undergraduate and graduate programs in the arts, sciences and professions. The University serves the people of North Carolina from its residential main campus at Cullowhee, situated between the Blue Ridge and Great Smoky Mountains, and through its resident credit programs in Asheville and Cherokee.

Mission

Teaching and learning constitute the central mission of Western Carolina University. The University seeks to create a community of scholarship in which the activities of its members are consistent with the highest standards of knowledge and practice in their disciplines.

The commitment of the community to service, research and creative activities complements the central mission and extends the benefits of its scholarship to society. As a major public resource for western North Carolina, the University assists individuals and agencies in the region through the expertise of its faculty, its staff, and its students.

Aspirations

Western Carolina University aspires to provide an environment in which students, faculty, and staff jointly assume responsibility for learning, where the free exchange of ideas, intellectual challenge, and high standards of scholarship prevail.

The University prepares students to become contributing and informed citizens in a global community. By working both independently and collaboratively, graduates of the University have demonstrated the knowledge, skills, and attitudes of an educated person, including:

- the ability to think critically, to communicate effectively, to identify and resolve problems reflectively, and to use information and technology responsibly,
- proficiency in the intellectual and technical skills of a disciplined study in the arts, sciences, or professions,
- an appreciation for the creative and performing arts, and
- a basis for continued personal development and lifelong learning.

To encourage and protect the free and open interchange of ideas, the University strives to provide experiences that foster the development of respect among all its members toward the larger communities of which it is a part. Accordingly, the University encourages its students, faculty, and staff to display the following traits of citizenship:

- behavior characterized by honesty, integrity, and responsibility,
- service to others,
- awareness of and sensitivity to the concerns of diverse people and cultures, and
- commitment to stewardship of the natural and cultural environment.

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 is also 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, education specialist, and doctorate levels. In addition to this institutional accreditation, other special accreditation by appropriate agencies includes these:

- American Assembly of Collegiate Schools of Business
- American Association of Family and Consumer Sciences
- American Chemical Society
- American Dietetic Association (Approved Didactic Program in Dietetics)
- 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
- International Association for Management Education (AACSB)
- 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 American Society for Sport Management/National Association of Sport and Physical Education
- North Carolina Board of Nursing
- North Carolina Department of Public Instruction
- Project Management Institute
- Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc (Manufacturing Engineering Technology and Electronics Engineering Technology)

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
Academic Program

A varied academic program is offered by the university's five 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 of The Record.

The five 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 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, 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 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

University Honors College
See page 67

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 accountancy, business administration, elementary education, health sciences, human resource development, middle grades education, school administration, special education, and supervision are offered. The Education Specialist degree is offered in educational leadership which leads to recommendation for advanced licensure for principals, superintendents, and general supervisors. Two-year college programs are available at the master's level, as is the Ed S in two-year college administration.

Most of the course requirements for master's degrees in community counseling, school counseling, English, and technology, and the Doctor of Education degree in educational leadership are also offered in Asheville.

Some of the course requirements for the Master of Arts in Teaching degree in both secondary and special subject teaching, as well as courses in family and consumer sciences, history, mathematics, physical education, and psychology are available.

Some 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 828-251-6642 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, 828-497-7920, across from the Cherokee High School, and in the CAP Center, 51 McKee, at Cullowhee, 828-227-7170.

Hunter Library

The library contains more than 550,000 books and bound periodical volumes, 65 on-line databases, 673 CD-ROMs, 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 112,000 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 (CMC) is maintained that contains the state-adopted textbooks for North Carolina, curriculum guides, children’s literature, and manipulatives suitable for classroom use. The CMC also contains the Library Media collection which includes CDs, videotapes, etc.

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
- Micorgrants travel funds for workshops on teaching
- Instructional Improvement Grants funds for supplies and services for redesigning courses

Mountain Resource Center. The Mountain Resource 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 regional office 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 trade 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 inquires 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 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 is staffed by undergraduate and graduate mathematics students. Tutoring 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 including the Eastern Band of the Cherokee Indians. Projects are variously funded by the North Carolina Department of Health and Human Services, Division for Women’s and Children’s Health, the Smoky Mountain Center for Mental Health, Developmental Disabilities, and Substance Abuse Services, local school systems and community agencies, and Western Carolina University. The center provides developmental evaluation, recommendations for services, treatment, and guidance for newborns, infants, toddlers, preschool children, and their families. Special services are provided or located if necessary, and progress is followed until the child enters a school program. The center affords opportunities for training and research relevant to the university’s academic programs in birth through kindergarten teacher licensure, child and family relations, communication disorders, counseling, elementary education, health information management, health services management, nursing, nutrition and dietetics, physical therapy, psychology, recreational therapy, 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 and biota of the southern Appalachians. Summer courses are offered at the advanced undergraduate and graduate level. 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 center of the University of North Carolina, it is partially supported by twenty-nine 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 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 computer information services to the entire campus community. These services provide access to computing resources that students, faculty members, administrators, and staff members need as they learn and apply the products of learning, and contribute to the university's community of scholarship.

The central computing facilities managed by the Computer Center consist of two Digital Equipment Corporation VAX 4000/700A computers which run the VAX/VMS operating system. The VAXes may be accessed by microcomputers or terminals on the campus network or by dial-up modems. On the VAXes, the Computer Center provides access to a wide selection of software for academic computing. Software programming languages include BASIC, C, FORTRAN, Pascal, COBOL, and MACRO, with Datatrieve as a common report-retrieval language. Administrative computing services on the VAXes include student record, financial, and alumni systems from Systems & Computer Technology Corporation and several applications 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. These include SPSS, SAS, and Minitab. For large research problems and special applications, faculty and students may access the computer resources of the North Carolina Supercomputing Center located in Research Triangle Park.

The Computer Center also supports the campus network which has a FDDI dual optic fiber ring backbone between buildings. There are over 2,400 microcomputers in offices and lab facilities on campus, and most departments have local area networks which are connected to the campus network. Student residence halls are also on the campus network and have two network ports per room. There are four general microcomputer lab facilities which are open at least eighty hours per week. The Computer Center supports both DOS (Windows) and Apple Macintosh operating systems and various microcomputer application programs.

WCU is a node on the North Carolina Information Highway, and the campus network is connected to the statewide NC-REN network which provides WCU's Internet access. All students receive an account on the central VAX which provides them with access to VAX software, electronic mail, text based Internet services, and the university library. The WCU World Wide Web server at URL http://www.wcu.edu has general information about WCU. The university is also an active member of CAUSE and EDUCOM.
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 include 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 early 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 are 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. A number of summer programs are available for pre-college 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. A ballet camp is offered in collaboration with the Atlanta Ballet. In addition, sports camps and recreational programs are 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 features a main arena seating capacity of more than 8,000 people and houses offices of the Ramsey Center administration, the Department of University Athletics, and University Publications. Through a network of movable curtains, the main arena 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, and weight room are also located in the Ramsey Regional Activity Center.

Other Offices and Services.

Research and Graduate Studies. 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.
Office of Advancement and External Affairs

The office of Advancement and External Affairs includes University Advancement, Public Information and the Mountain Resource and Mountain Heritage Centers.

This office has overall responsibility for institutional services in several program areas including the Mountain Heritage and Mountain Resource Centers. The office acts as liaison with regional, state and national groups and agencies and coordinates the university's regional economic and workforce development initiatives as well as cultural heritage programs as outreach services to the western North Carolina region.

Office for University Advancement. University Advancement facilitates and supports collaborative university-wide efforts in fund raising, alumni affairs, institutional marketing and positioning along with 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 Alumni Affairs, Catamount Club (athletics), Loyalty Fund, Major and Planned Gifts, and Corporate and Foundation Gifts. All institutional initiatives involving fund raising from private resources are coordinated through the University Advancement office.

Office of Public Information. 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, 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.

Carolina Colloquy for University Teaching

The Carolina Colloquy for University Teaching promotes high quality teaching across all institutions in The University of North Carolina system. The activities of the Colloquy address issues of teaching, learning, and student development and include a multi-campus retreat, a new faculty seminar on exemplary teaching, a summer conference, and an electronic journal. Colloquy activities are supervised by a steering committee consisting of one representative from each campus in The UNC system. Administrative headquarters are located at Western Carolina University.
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.

Advance Partial Payments. Each undergraduate student who is admitted to WCU is required to submit an advance partial tuition payment of $100. This payment will be credited to the charges for the first semester of enrollment. There is also an advance partial housing payment of $100 that must be submitted by all new students who plan to live in a University residence hall. These payments for the fall semester should be submitted to the Controller's Office no later than June 1. The deadline for the spring semester (January) is December 1. For additional information, see the Section on Fees of this catalog.

Computer Admission Requirement for New Freshmen.

To make sure that students have access to the highest quality education that takes maximum advantage of the changes in information and communications technologies, Western Carolina University is requiring all new, full-time freshmen admitted to undergraduate degree status starting with the fall (and early summer) of 1998 to begin their academic careers at WCU with an appropriate, networkable computer.

Students Who Already Own a Computer. Students who already own a computer may not need to purchase one. Any Pentium or PowerMac computer should connect easily to the university's network with an appropriate network interface card or modem. Network interface cards are available for purchase through the University Bookstore. In addition, all computers must have a 2X or better CD-ROM drive.

Students Who Are Purchasing a Computer. Either a Pentium or a PowerMac computer can meet the university's computer admission requirement. The minimum configurations for a newly purchased computer are as follows.
166 MHz processor (Intel Pentium, AMD, k6, or Cyrix 6x86) 16 MB RAM, expandable 1 2 GB hard drive Color monitor, 28mm or lower dot pitch 1 44 MB floppy drive CD-ROM drive, 2X or higher 16-bit sound card (Sound Blaster compatible) Speakers 3Com Ethernet adapter (on-campus students) or 28 8 Kbps modem (off-campus students) 104 key keyboard Mouse or pointing device 2 ISA/PCI PC expansion slots

**Windows System**

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<tr>
<td>166 MHz processor (Intel Pentium, AMD, k6, or Cyrix 6x86)</td>
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<tr>
<td>16 MB RAM, expandable</td>
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<tr>
<td>1 2 GB hard drive</td>
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<tr>
<td>Color monitor, 28mm or lower dot pitch</td>
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<tr>
<td>1 44 MB floppy drive</td>
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<td>CD-ROM drive, 2X or higher</td>
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<td>16-bit sound card (Sound Blaster compatible)</td>
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<td>Speakers</td>
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<tr>
<td>3Com Ethernet adapter (on-campus students) or 28 8 Kbps modem (off-campus students)</td>
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<tr>
<td>104 key keyboard</td>
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<td>Mouse or pointing device</td>
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<td>2 ISA/PCI PC expansion slots</td>
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**Macintosh System**

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<tr>
<td>180 MHz 603e PowerPC processor</td>
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<tr>
<td>16 MB RAM, expandable</td>
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<tr>
<td>1 2 GB hard drive</td>
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<tr>
<td>Color monitor, 28mm or lower dot pitch</td>
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<tr>
<td>1 44 MB floppy drive</td>
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<tr>
<td>CD-ROM drive, 2X or higher</td>
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<tr>
<td>Built-in 16-bit audio and speakers (standard Macintosh feature)</td>
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<tr>
<td>Asante or Apple Integrated Ethernet adapter (on-campus students) or</td>
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<tr>
<td>28 8 Kbps modem (off-campus students)</td>
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<tr>
<td>104 key keyboard</td>
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<td>Mouse or pointing device</td>
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<td>2 expansion slots</td>
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**Required Software.** Required software is Microsoft Office 97 Professional Suite (Windows) or Microsoft Office 98 Suite (Macintosh) The student is responsible for purchasing this software

**Purchase of Computers** The University Bookstore offers for sale competitively priced computer packages, preconfigured to WCU's network, including all required software. Students may purchase computers from any vendor, however, machines purchased from the University Bookstore will be preconfigured for easy connection to the university's network and will include all required software.

**Training for Students.** All new freshmen are required to attend a training program immediately prior to the beginning of classes. This program familiarizes students with basic computing concepts, including accessing the university network, as well as using e-mail, the www browser, and the university's administrative software and on-line library resources. During the academic year, non-credit training seminars on using the Microsoft Office software will be available.

**Additional Information.** If you would like additional information about WCU's computer admission requirement, call 1-888-WCU-TECK (toll-free) or send e-mail to WCUTECK@wcu.edu

**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.

**First Year 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 centers may be obtained from the College Board, PO Box 592, Princeton, NJ 08541. Information and application for the ACT may be obtained from The American College Test National Office, P O Box 168, Iowa City, IA 52243, and from high school guidance.
counselors. Applicants must request that their scores be sent to the Office of Admissions, Western Carolina University, Cullowhee, N.C. 28723 (College code for the SAT is 5897 and ACT code is 3172).

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 twelve 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 Carolina University: 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.

Admissions Procedure

Home Schooled Applicants. This policy deals with those students who are applying for admission as freshmen or transfer applicants, who are required to submit secondary school records, and who are participating (or have participated) in a secondary home school program.

Home schooled students will have their records considered ONLY under the following conditions:

1. The student provides an official transcript of all work completed. This should include course names, descriptions, grades, and the amount of credit awarded.
2 The student provide official score reports of the SAT I or ACT tests

All home schooled applicants must meet standards equivalent to those used for applicants from approved secondary schools. This includes indication of the successful completion of work equivalent to MAR units. Each applicant will be reviewed individually for academic strengths and weaknesses.

**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 twelve and sixteen 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 (MAR) at the Sixteen 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 twelfth 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 scores. Transfer applications should be submitted by July 1 for fall admission and at least thirty 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. 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 twelve 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 and all documents supporting the request for readmission must be submitted thirty 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 thirty 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 non-degree intent form and paying the $35 application fee. Special students are not admitted to any degree program, are not eligible for financial assistance, are not assigned to advisers, and may not live in campus housing. Admissions categories for special students are:

**Non-Degree Students.** Persons not seeking degrees but who wish to take courses for personal enrichment or advancement may take up to eighteen semester hours as a non-degree student. Non-degree students who wish to take more than eighteen semester hours will have to meet regular admission criteria.

**Teacher Licensure Students.** Persons who have earned a previous four-year degree and are returning to complete those requirements necessary for teacher licensure and are not pursuing a degree may apply as a teacher licensure student. Persons who plan to meet teacher licensure requirements must provide transcripts of all college work attempted to the Office of Teacher Licensure, 228 Killian, Western Carolina University, Cullowhee, North Carolina 28723.

**Dual Enrollment Students** Dual enrollment students are those students who plan to take courses at WCU while currently enrolled in a local high school. Applicants must submit a letter of parental consent, a letter of permission from their high school principal or guidance counselor, SAT or ACT scores, and an official high school transcript.
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 Director of Admissions. Appeals of decisions which are related to academic preparation or credentials are evaluated by the Admissions, Readmissions, and Retention Committee. Appeals of decisions which are related to criminal, disciplinary, or behavioral factors are forwarded to the Vice Chancellor for Student Development. The request should indicate the reasons for reconsideration and any factors the applicant feels were not given adequate consideration in the admission process. Upon receipt of a written request, the Director of Admissions will forward the documentation to the appropriate appellate body. Applicants will be notified in writing of the final decision by the Office of Admissions.

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.

Application Falsification

Students furnishing the University with false, misleading, or incomplete information relating to their application or academic record will be subject to rejection or dismissal.
STUDENT SERVICES

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 computer data ports, 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 radios, stereos, and televisions as long as outside antennae are not required. Cable television is available in public areas. Cable television service is available in each room as an option to students who contract individually with the local commercial cable company serving the campus. Other facilities include vending machines, post office boxes, washers and dryers. Local telephone service is included in the housing fee. If the student requests long distance service, he (she) is assigned a personal security code and will be responsible for those charges.

Room Reservations and Advance Partial Payment. Any new, transfer, readmitted, or graduate student may reserve a room in the residence halls by submitting the advance partial payment of $100 and a signed application/contract to the Controller’s Office. Returning students are to submit a signed contract with $150 pre-payment. These payments for the fall semester should be submitted no later than June 1. The deadline for the spring semester (January) is December 1. Checks should be made payable to Western Carolina University. Housing advance payments received after the deadline will be accepted on a space-available basis. Financial aid awards may not be used to cover advance partial payments.

Freshmen who wish to live off campus must receive permission from the Director of 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 prior approval by the Department of University Housing. Students who have official university duties 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 under conditions outlined in the contract.

Summer Terms. Students who begin their enrollment in summer terms (May or July) are not required to submit the advance housing payment, but must submit the Residence Hall...
Application/Contract if they wish to reside in University housing. If, however, you are attending the Academic Success Program, the advance housing payment must be submitted with the contract.

Refund Policy. Students who have paid the advance housing payment and choose not to attend WCU are eligible for a 100% refund if notification of cancellation is received prior to June 1 (December 1 for spring). Cancellations received after June 1 (December 1 for spring) will be subject to a $50 administrative processing fee.

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, halogen lamps, 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. 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 equipment rental, television lounges, billiard room, fax service, and ATM. Through functions such as dinner on the lawn, films, dances, concerts, outdoor 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 with free weights, treadmills, stair steppers, exercise bikes, and state-of-the-art Cybex exercise stations for students, faculty, and staff members.

Cullowhee's location offers excellent opportunities for mountain biking, rock climbing, river and lake boating, canoeing, fishing, skiing, hunting, golf, 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 forty 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, 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 828-227-7640.

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 to have the following current immunizations: diphthera-pertussis-tetanus or tetanus-diphthera, 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
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, Medical College Admission Test, Scholastic Aptitude Test, Law School Admission Test, Miller Analogies Test and College Level Examination Program (CLEP). Appointments can be made at 828-227-7469, 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.

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, Room 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 State Approving Agency. All inquiries concerning VA educational benefits should be addressed to the Director of Student Services, Western Carolina University, Cullowhee, NC 28723.

International Student Services. The Director for Student Services and International Student Adviser serves as the adviser 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 at Western Carolina University is to create a healthier community in which students, faculty and staff can learn and grow. The Wellness Program provides a variety of activities in order to reach this goal including presentations, a Wellness Resource Library, an exercise incentive challenge, smoking cessation programs, and events centered on national awareness topics such as fitness, nutrition, AIDS, and alcohol. For more information about this program, call 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 à 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- and CatCard-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, and an ATM machine is located in the Hinds University Center. In addition, offices of this bank, First Union National Bank, 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, 828-227-7234.

**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 expulsion 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, North Carolina General Statutes 90-90, or Schedule II, General Statutes 90-90 (including, but not limited to, heroin, mescaline, lysergic acid diethylamide, opium, cocaine, amphetamine, and 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, North Carolina General Statutes 90-91 through 90-94 (including but not limited to marijuana, pentobarbital, codeine), the minimum penalty shall be suspension from enrollment or from employment for a period of at least one semester or its equivalent. For a second offense, any student shall be expelled and any faculty member, 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, North Carolina 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.

* 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.
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 thirty days after notice of said conviction.

Policy on Computer Abuse

The university provides computer access through the computer center and colleges 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.

Law Enforcement. The Office of Public Safety is responsible for providing law enforcement criminal investigation, and security services on campus. Public Safety officers are certified by the N C Attorney General’s office as police officers and have met all standards set by the Attorney General for law enforcement officers in this state.

All crimes which occur on the campus of WCU should be reported to the Office of Public Safety. Reports may be filed by dialing 911 in an emergency situation. In non-emergency
situations, reports may be filed by dialing 227-7301. Reports may also be filed by visiting the Public Safety Office located on the second floor of the Jordan-Phillips Field House, or by contacting an officer on patrol. Officers may also be summoned by activating any of the emergency callboxes placed at various locations on the campus.

Information on crime statistics and crime prevention programs is available at the Public Safety office.

Parking. The Office of Public Safety is also responsible for the administration of WCU’s parking system, vehicle registration, and parking enforcement. State statutes provide that campus traffic and parking regulations have the force of law and violators may be subject to penalties as prescribed by law.

Everyone who parks a vehicle on campus must register that vehicle at the Traffic Office in the Field House and display a current registration decal. Copies of the parking and traffic regulations are available at the Traffic Office.

The Traffic and Security Committee, composed of students, faculty, and staff functions as an appeals board for faculty and staff members who wish to contest parking citations which they may receive. Appeals of student violations are handled by a committee of the SGA. Appeals forms are available in the Traffic Office.
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 1998-99 academic year. The University reserves the right to alter any charges without prior notice upon direction from appropriate governing authorities.

Application for admission must be accompanied by a $35, 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 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.

Tuition and Housing Advance Partial Payments

Tuition and Fees. New students who are admitted to Western Carolina University are required to remit a $100 advance partial payment of tuition and fees. By doing so, the student reserves a place in the entering class and establishes eligibility to pre-register for courses to be taken in the first term of enrollment. This amount is due and payable upon notification of acceptance for admission and must be paid prior to participation in Early Bird or other pre-registrations. The payment is fully creditable to charges for the first semester of enrollment. If a student's plan to enroll at Western Carolina University changes, the advance payment is fully refundable if the University receives written notice of cancellation on or before June 1 preceding the scheduled Fall enrollment (December 1 for Spring enrollment). If notice of cancellation is not given or is received after June 1, the advance payment for fall semester will be refunded subject to a $50 administrative fee.

Continuing students who pre-register for Fall semester will be required to remit full payment of tuition and fees by August 1 in order to retain their pre-registered class schedules. After August 1, schedules of those who have pre-registered and not paid will be canceled. The class seats made available thereby will be offered to these and all other students who register in the regular registration and drop-add periods at the beginning of Fall semester.

Housing. New students who intend to live on the University campus must remit a $100 advance partial payment of housing charges (Freshmen students are required to live on campus unless they reside with immediate family members or are married). This amount is due and payable upon notification of admission and is fully creditable to housing charges for the first semester of enrollment.

Returning students are required to remit a $150 advance partial payment of housing charges by May 1 of each year to secure residence hall spaces for the next academic year. This payment is fully creditable to first semester housing charges.

If either a new or returning student's plan to enroll at WCU changes, the advance payment is fully refundable if the University receives written notice of cancellation on or before June 1 preceding the scheduled enrollment. If notice of cancellation is not provided or is received after June 1, the advance payment will be refunded minus a $50 administrative charge. After June 1, requests and advance payments for campus housing will be accepted on a space-available basis.
### 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><strong>Tuition</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>North Carolina student</td>
<td>$459 00</td>
<td>$459 00</td>
</tr>
<tr>
<td>Out-of-State student</td>
<td>$4,094 00</td>
<td>$4,094 00</td>
</tr>
<tr>
<td><strong>Required fees</strong></td>
<td>440 50</td>
<td>440 50</td>
</tr>
<tr>
<td><strong>Book Rental Fee</strong></td>
<td>72 50</td>
<td>**</td>
</tr>
<tr>
<td><strong>Room</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residence Hall Double Room Rate</td>
<td>$740 00</td>
<td>$740 00</td>
</tr>
<tr>
<td>Madison Hall rate (graduate housing)</td>
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<td>$1,525 00</td>
</tr>
<tr>
<td>Robertson Apartments (married housing)</td>
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<td></td>
</tr>
<tr>
<td>Efficiencies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>One Bedroom Apartments</td>
<td></td>
<td>$1,625 00</td>
</tr>
<tr>
<td><strong>Board (required of residence hall students)</strong></td>
<td>$723 00</td>
<td>$723 00</td>
</tr>
<tr>
<td>Declining Balance-Standard Option</td>
<td>656 00</td>
<td>656 00</td>
</tr>
<tr>
<td>Declining Balance-Low Option</td>
<td>874 00</td>
<td>874 00</td>
</tr>
<tr>
<td>18-Flex Meal plus $50 plan</td>
<td>778 00</td>
<td>778 00</td>
</tr>
<tr>
<td>2-Flex Meal plus $100 plan</td>
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<td></td>
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<tr>
<td><strong>Totals</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>North Carolina rate</strong></td>
<td>$972 00</td>
<td>$899 50</td>
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<tr>
<td><strong>Out-of-State rate</strong></td>
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<td>$4,534 50</td>
</tr>
<tr>
<td><strong>Residence hall boarding student</strong></td>
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</tr>
<tr>
<td>North Carolina rate</td>
<td>2,435 00</td>
<td>2,362 50</td>
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<tr>
<td>with Declining Balance-Standard Option</td>
<td></td>
<td></td>
</tr>
<tr>
<td>with Declining Balance-Low Option</td>
<td>2,368 00</td>
<td>2,295 50</td>
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<tr>
<td>with 18-Flex Meal plus $50 plan</td>
<td>2,586 00</td>
<td>2,513 50</td>
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<tr>
<td>with 12-Flex Meal plus $100 plan</td>
<td>2,490 00</td>
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<tr>
<td><strong>Out-of-State rate</strong></td>
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<tr>
<td>with Declining Balance-Standard Option</td>
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<tr>
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<td>6,148 50</td>
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<tr>
<td>with 18-Flex Meal plus $50 plan</td>
<td>6,125 00</td>
<td>6,052 50</td>
</tr>
</tbody>
</table>

* Required fees include Health Services $83 50, Recreational and Cultural $75, Athletics $124 50, Athletic Facilities $16, University Center $91, Documents Fee $3, Education and Technology Fee $47 50.

** 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>$155 25</td>
<td>$1,064 25</td>
</tr>
<tr>
<td>2</td>
<td>195 50</td>
<td>1,104 50</td>
</tr>
<tr>
<td>3</td>
<td>235 75</td>
<td>1,144 75</td>
</tr>
<tr>
<td>4</td>
<td>276 00</td>
<td>1,185 00</td>
</tr>
<tr>
<td>5</td>
<td>316 25</td>
<td>1,225 25</td>
</tr>
<tr>
<td>Hours Enrolled</td>
<td>Undergraduate</td>
<td>Graduate</td>
</tr>
<tr>
<td>---------------</td>
<td>---------------</td>
<td>----------</td>
</tr>
<tr>
<td></td>
<td>In-State</td>
<td>Out-of-State</td>
</tr>
<tr>
<td>6</td>
<td>471 50</td>
<td>2,288 50</td>
</tr>
<tr>
<td>7</td>
<td>511 75</td>
<td>2,328 75</td>
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<tr>
<td>8</td>
<td>552 00</td>
<td>2,369 00</td>
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<tr>
<td>9</td>
<td>707 25</td>
<td>3,433 25</td>
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<tr>
<td>10</td>
<td>747 50</td>
<td>3,473 50</td>
</tr>
<tr>
<td>11</td>
<td>787 75</td>
<td>3,513 75</td>
</tr>
</tbody>
</table>

For each 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 UNC-A 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
Graduation Fee $30
Late Registration Fee $10
Cap, Gown, and Hood Obtained through WCU Bookstore
CLEP, GRE, NTE, etc Fee set by Educational Testing Service

Meal Plan

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

<table>
<thead>
<tr>
<th>Plan Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>*18-Flex Meal plus $50 plan</td>
<td>$ 874</td>
</tr>
<tr>
<td>*12-Flex Meal plus $100 plan</td>
<td>778</td>
</tr>
<tr>
<td>**Declining Balance-Standard Option</td>
<td>723</td>
</tr>
<tr>
<td>**Declining Balance-Low Option</td>
<td>656</td>
</tr>
</tbody>
</table>

*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 that 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 declining balance plan priced at $450 per semester.
Unused balances that remain in declining balance meal plan accounts at the end of each academic term are not refundable. However, unused balances up to a maximum of $50 will be automatically rolled over from fall to spring semester for continuing students only. Unused balances cannot be rolled over to the next fall semester.

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 percent refund
- 12-28 calendar days following the first day of classes: 50 percent refund
- 29-57 calendar days following the first day of classes: 25 percent refund
- 58 calendar days following the first day of classes: 0 percent refund

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

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.

The following are exceptions to the above-stated refund policies. The advance partial payment of tuition and fees required of new students is subject to a $50 administrative charge if the student withdraws before the first day of classes, but after June 1 for fall semester and December 1 for spring semester. The advance partial payment required of new students to reserve campus housing is likewise subject to a $50 administrative charge if withdrawal occurs after the dates indicated. Continuing students must make payment in full prior to August 1 to reserve campus housing. This payment is similarly subject to a $50 administrative charge if withdrawal occurs after August 1, but before the first day of classes.
**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.

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 or 5 percent 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.

**Tuition Surcharge Policy**

Pursuant to actions of the North Carolina General Assembly and policy adopted by The Board of Governors of the University of North Carolina, a 25 percent tuition surcharge applies to 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 $72.50 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; 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 costs (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 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 incidental 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 residentiary 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 residentiary 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 residiatory acts accompanied by residiatory 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 or certain family of deceased or disabled emergency workers 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.

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>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>At completion of this semester</td>
<td>2 3 4 5 6 7 8 9 10 11 12</td>
</tr>
<tr>
<td>Total minimum credits</td>
<td>18 28 38 50 62 75 88 101 114 128 140</td>
</tr>
<tr>
<td>Minimum required GPA</td>
<td>15 16 17 18 19 195 20 20 20 20 20</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 percent (12 semesters) of the normal time (8 semesters) to complete an undergraduate degree. This allows for double majors and change of majors. All transfer students are required to successfully complete a minimum of 70 percent of WCU credit hours for which they enroll.

**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 based 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 up to $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, North Carolina. 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, NC 27150.
Grants

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 $3,000 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 caucasian 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 fifteen credit hours per term and agree to perform public service at least six hours a week as freshmen and at least eight hours a week as upperclassmen. 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.

Special Assistance

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 eighteen through twenty-six 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.
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 $5,000 to $6,500, depending upon the assignment involved, are awarded to qualified graduate students through the Graduate School. These stipends require twenty hours of work per week.

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

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.
SCHOLARSHIPS

Applying for Scholarships

The Office of Academic Affairs manages academic scholarship awards supported by funds from donors. Academic Affairs cooperates with the Financial Aid and Admissions offices and representatives from the colleges in screening applicants and making awards through the University Scholarship Committee. Students who apply to Academic Affairs are considered for all scholarships for which they may be eligible. For information about eligibility and application procedures for academic scholarships, contact the Office of Academic Affairs.

There are a variety of departmental and athletic scholarship awards, as well as scholarships managed by the Admissions office for entering freshmen. For more information about freshman scholarships, contact the Admissions office. Students who have declared a major should inquire in their academic department office or their college dean’s office about scholarships in their discipline. For information about athletic scholarships, contact the Athletics office.

Scholarship Listing

Western Carolina University is proud to recognize many of the generous contributors who have funded endowed scholarships for deserving students. The following is not intended to be a complete listing of all available scholarships.

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.

Mr and Mrs. John W. Ashe Scholarship. This fund was established by a bequest from the estate of Beulah Ashe Ensley in honor and memory of her parents. Awards are for students from Jackson or Haywood counties who demonstrate financial need.

Biology Department Scholarship Fund. 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 full-time. Priority consideration 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, provide assistance for students with impaired hearing.

Frank 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. Contact the head of the Chemistry Department.

Gracie 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.

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.
The Mandy Buchanan and Daniel Ledford Music Scholarship Fund. The families of Mandy Buchanan and Daniel Ledford established this memorial fund to provide scholarship support for students from Haywood County majoring in music who participate in Western's marching band. Contact the head of the Music Department.

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.

Louise Mason Caldwell Scholarship Fund. This endowed scholarship program provides financial support for Cherokee Indians to attend WCU. Contact the director of the WCU Cherokee Center.

Patrick Lee Carmody Scholarship Fund. This memorial scholarship fund provides financial support for qualified students majoring in communication (radio-television). The awards are based on academic achievement, civic and social activity, and contributions to student programs and activities. Contact the Department of Communication and Theatre Arts.

The Christopher Thomas Cash/Sigma Nu Fraternity Scholarship Fund. This memorial fund was established to make awards to brothers of Kappa Phi Chapter at Western Carolina University. Contact the Sigma Nu fraternity scholarship committee.

Katherine Causey Award. This award provides financial support for women who graduated from high schools in Alamance, Guilford, and Randolph Counties or counties west of the above-named counties in North Carolina and who are majoring in biology or English.

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. Contact the Dean of the College of Applied Sciences.

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 undergraduate mathematics majors and English majors. Contact the appropriate department.

Cullowhee School District Award. This award program provides funds for 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. Contact the School Counselor at Smoky Mountain High School.

Andrea Culpepper Scholarship Fund. This memorial scholarship fund provides financial support for students enrolled in the nursing program. Contact the Dean of the College of Applied Sciences.

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.

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 thirteen Western North Carolina counties.

The Barbara and James Dooley Music Award. 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.
Winston A. 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.

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 on the basis of financial need.

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, as well as financial need.

Xena Bristol Forsyth Scholarships. This endowment honors Mrs. Xena Bristol Forsyth and her son, William Frank Forsyth. It supports awards for juniors and seniors in the College of Business. Preference is given to students from Cherokee, Clay, and Graham Counties. Contact the Dean of the College of Business.

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 professions, and to provide students with a woman scientist mentor at Glaxo Inc. Contact the Dean of the College of Arts and Sciences.

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 students' potential for contribution to the department's major performance ensembles, the needs of the ensemble and the department, and the students' 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 scholarships to Western North Carolina students who excel academically.

The L. Milton Hauser Scholarship Fund. This memorial fund, established by the family of L. Milton Hauser, provides awards to students majoring in elementary or middle grades education.

Haywood County Western Alumn Scholarships. These endowed scholarships are awarded to Pisgah and Tuscola High School graduates on the basis of 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, Henderson, Jackson, and Macon Counties who are in need of financial assistance.

The History Department Academic Excellence. 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. Contact the History Department.
Dillard Hooper Scholarship. Established through a bequest from the estate of Louise Hooper, this scholarship will be awarded annually on the basis of financial need 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. Contact the Dean of the College of Applied Sciences.

The H. T. and Glen Weaver Hunter Memorial Scholarship Fund. This scholarship fund was established through the generosity of Miss Marthlou Hunter, a 1930 graduate of Western. Ms Hunter’s father, Hiram T Hunter, was President of Western from 1920 until his death in 1946. Preference is given to entering freshmen, and renewals depend upon satisfactory progress.

Marshall Hyde Scholarships. These scholarships are awarded to undergraduate students from Graham County who have expressed an interest in horticulture, forestry, or environmental improvement. Contact the Graham County school superintendent.

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 or surrounding counties.

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 on the basis of financial need and other criteria.

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. Contact the Dean of Research and Graduate Studies.

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. Contact the Dean of the College of Business.

The Linda Reep Lankford Scholarship Fund. This scholarship, established by Jesse R Lankford in memory of his wife, Linda Reep Lankford, provides assistance to students majoring in elementary or middle grades education. Contact the Dean of the College of Education and Allied Professions.

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.

The John Donivan Hales/Jessie Lindsay Scholarship Fund. This fund was established by Jessie Lindsay Hales in memory of her husband, John Donivan Hales. Awards are made to students who are residents of Swain County who have expressed an intention to major in elementary education.

The “Little E.J.” Scholarship Fund. This fund, established by Blanton and E J Whitmire in honor of the son of E J and Genevieve Whitmire, provides support for students majoring in special education. Contact the head of the Department of Human Services.

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.

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 Bank Scholarship Fund. The purpose of this fund is to provide support for outstanding students from the North Carolina counties served directly by Macon Savings Bank, currently Macon, Cherokee, Clay, Henderson, Jackson, and Transylvania.

The Dean Martin Business Fellowship Fund. This scholarship was established in memory of Dr. M. Dean Martin, a professor in business. Business students majoring in management, marketing, or graduate business programs receive awards based upon academic achievement, promise for continued scholarly accomplishment, and leadership potential. Contact the Dean of the College of Business.

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.

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 social and civic contributions, and need.

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 GPA in their major. Contact the Dean of the College of Arts and Sciences.

The Morrill Family Memorial Fund. This memorial fund provides financial support for graduate students conducting research related to improving teaching. Contact the Dean of the College of Education and Allied Professions.

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 contributions. Contact the fraternity for information.

The Helga Nielsen Scholarship Fund. This fund was established through the generosity of Helga Nielsen to provide scholarship assistance for Cherokee Indian students. Contact the Director of the WCU Cherokee Center.

Josefina Niggl Scholarship. These endowed scholarships honoring Josefina Niggl, distinguished playwright and teacher, are made to students majoring in theatre arts with established records of achievement in the WCU theatre. Contact the head of the Department of Communication and Theatre Art.

The Lucy Ann Nordyke Fellowship Fund. This scholarship was established by Martha Jean Rice in memory of her grandmother, Lucy Ann Nordyke, who was born in 1861 in the Cherokee Nation West. Scholarship support is provided for students pursuing a master’s degree in history and performing research in Cherokee Indian Studies. First priority is given to Cherokee Indians and Cherokee descendants. Contact the head of the History Department.

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.

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.

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 Contact the fraternity scholarship committee.

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.

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. 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. Contact the head of the Biology Department.

Bronce and Betty Ray Scholarships. These 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.

The Freda Rayburn Scholarship for Women in Business. The purpose of this scholarship fund is to support women who have leadership potential in business and provide opportunities for them to participate in education for careers in business. Scholarships are available at the undergraduate and graduate levels.

Paul A. Reid and Paul A. Reid Surry County 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 high school scholarships, which honor professors emeriti Richard and Marian Renfro, are awarded to students majoring in music education. Contact the head of the Music Department.

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. Contact the head of the Biology Department.

The Bobby S. and Anne B. Robinson Scholarship Fund. Established through the generosity of the I.L. Long Construction Company in Winston-Salem, this scholarship is to provide support for incoming freshmen from McDowell County or Swain County High Schools who demonstrate financial need.

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. Contact the fraternity scholarship committee.

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 Southwestern Community College and who desire to pursue a baccalaureate degree program at WCU.

The Laura and Phillip Sherrill Scholarship. The purpose of this fund is to provide a scholarship to a rising senior who is a resident of North Carolina in the College of Business. Contact the Dean of the College of Business.
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. Contact the Dean of the College of Arts and Sciences.

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 on the basis of financial need and other criteria.

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.

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.

The Lorraine Kronholm Stone Scholarship Fund. This memorial fund was established to provide scholarship support for "non-traditional" students majoring in studio art or art education. Contact the head of the Art Department.

The Stephanie Ann Stow Scholarship Fund. The family of Stephanie Ann Stow has established this memorial fund to provide scholarships to support education students who are doing their student teaching. Preference is given to students from Asheville High School or other Buncombe County High Schools. Contact the Dean of the College of Education and Allied Professions.

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 to students in speech or public relations. Contact the head of the Department of Communication and Theatre Arts.

Mary and Charles Wayte Graduate Scholarship Fund. This fund was established by the Waytes to support scholarships for graduate students in business and education. Contact the Associate Dean of the College of Education and Allied Professions or the Dean of the College of Business.

The Curtis L. and Brenda C. Wellmon Scholarship Fund. This scholarship, established by the Wellmons, provides support to graduates of East Burke High School in Icard, North Carolina, who demonstrate financial need.

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. Contact the Dean of the College of Education and Allied Professions.
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 twelve hours. A normal load is sixteen hours, however, a student may take up to nineteen hours. Any schedule that exceeds nineteen 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>
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Grading and Quality Point System*

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<tr>
<th>Grade</th>
<th>Interpretation</th>
<th>Quality Points per Semester Hour</th>
<th>Grade</th>
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The grades of A, A-, B+, B-, C+, C-, D+, D-, and F indicate gradations in quality from Excellent
to Failure. Please note that a C- grade is less than satisfactory and may not meet particular program and/or
course requirements.

*See graduate catalog 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-, C+, C-, 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 twelve 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 thirty 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 twelve 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 with documentation to the Office for Student Development by the last day of classes.

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 they have been treated unjustly by an instructor in any matter pertaining to their academic work should follow in order the academic appeals procedure: 1) appeal verbally to the instructor, 2) appeal verbally to the instructor's department head, 3) appeal verbally to the dean of the instructor's college, 4) appeal in writing to the Academic Problems Committee, as outlined below. Any request by a student for a change in a final grade must be submitted to the instructor within thirty-five days after the end of final exams.

The Academic Problems Committee is comprised of five members, including two students chosen by the SGA and three faculty members. In order to appeal to the Academic Problems Committee, students should write a one- or two-page letter to the faculty chair of the committee succinctly stating the grounds for the appeal and the requested action to resolve the appealed issue. After deliberation, the committee will make recommendations to the vice chancellor for academic affairs. The vice chancellor's decision may be appealed to the chancellor. Additional information about the composition and procedures of the Academic Problems Committee is available in 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 twelve 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 entered 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 supersede 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:

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<tr>
<th>Quality Hours and Transfer Hours</th>
<th>A student is on Academic Probation when GPA is</th>
<th>A student is on Academic Suspension when GPA is</th>
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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 twelve hours but no more than fifteen 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 twelve 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.

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**Grade Replacement Policy for Undergraduates**

Students are allowed to replace grades on five different courses taken at Western Carolina University. The following guidelines apply:

1. Only five courses (regardless of credit hour value) may be selected for grade replacement. The grade replacement policy may only be applied one time for a particular course. For courses repeated beyond the limit for grade replacement, the Repeat Policy applies.

2. When a student elects to use a course for grade replacement, the student must file the Grade Replacement Form with the Registrar’s Office. This form indicates which course is to be excluded from GPA computation under this policy. Once a decision is made, it is irrevocable.

3. Although the original grade will not be used in determining the cumulative GPA of the student, the original grade will remain on the student’s academic transcript.

4. Any course elected for grade replacement must be taken and repeated at Western Carolina University.

Since all courses do not carry the same hours of credit, students are urged to consult their advisor in making decisions regarding use of the Grade Replacement Policy. It is the responsibility of the student to follow the Grade Replacement guidelines and to detect and report any needed adjustments to the student’s academic record.

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**Repeat Course Policy for Undergraduates**

Students may repeat any number of courses taken for credit. A student may choose to replace a grade according to the Grade Replacement Policy. Once a student has exhausted the guidelines set in the Grade Replacement Policy, all quality hours and grades earned each time a course is taken will be used in computing the student’s GPA. Unless specifically stated in the catalog description, credit for any course may be applied only once toward the required hours for graduation.

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**Academic Re-evaluation Policy**

To be eligible to elect an academic re-evaluation, a student must have a cumulative GPA below 2.0 and must have made a GPA of 2.30 or better on twelve or more hours of work for each of two successive semesters, one of which may be summer school. At least eighteen 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 2.0 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 Office of Admissions 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 the Registrar. 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 the Registrar's Office 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. 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 percent 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 twelve 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 thirty 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 on a transient basis and transfer it must secure the appropriate department head's and dean's approval before enrollment at the other institution. Transient Approval Forms are available in the Registrar's Office and the departments. Students must be academically eligible to re-enroll at Western Carolina University to secure transient permission. 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 2.0 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 Registrars Office and the department head of the student's major. Information about course transferability may be obtained in the Registrars 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.

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 or placement is a prerequisite. MATH 145 and MATH 146 can be waived as requirements for students who place into MATH 153. The placement test does not generate course credit for course requirements that are waived as a result of placement.

If a student’s major or program requires only a general education math course, students may take MATH 101 regardless of their placement. However, MATH 101 does not satisfy the prerequisite for MATH 130 or MATH 170. Advisers 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 ten hours of credit.

Advanced Placement Program. Students who earn a grade of three or above on the College Board advanced placement courses are eligible to receive credit based upon the evaluations of the appropriate department heads. Currently, credit may be earned in American and European history, art history, biology, calculus, chemistry, computer science, economics, English, French language and literature, German literature, Latin, music, physics, political science, psychology, 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 and MATH 100 will not count toward the 120 or 128 hours required for graduation.

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 full-time 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 twelve 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 ten 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. After earning ninety hours, to be certified as a candidate for graduation the student must obtain an application form from the dean and return it to the dean. (In order to obtain the application form, the student must first present a paid receipt to the dean's office that the $30 graduation fee has been paid in the Controller's Office.) The dean will send the completed application and an official transcript to the student's department head. In consultation with the student's advisor, 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 ninety 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 forty-six 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 thirty to forty 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 (sixteen to twenty-four 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 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 (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, seventy-five 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 twelve 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. College-wide 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 thirty 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 colleges 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 thirty additional hours for the other (or second) degree through regular enrollment at the university. The thirty 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 2.0 on all work attempted at Western Carolina University and on all courses in the major.
3. A minimum of 25 percent 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 twelve 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.

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 forty-one 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 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
The requirement is waived
(1) if the student passes CS 130, CS 150, or CIS 251,
(2) if a junior or senior transfer student who passes BIOL 304, BIOL 333, CHEM 454,
   CJ 352, ENGL 401, GEOG 326, CMCR 301, CMPM 303, PSC 348, SOC 385,
   SOC 386, or OA 340,
(3) if a student takes a practical test (administered by the Mathematics and Computer
   Science Department) and demonstrates competency in three of four computer
   applications: Word Processing, Networking, Spreadsheets, and/or Power Point

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 132 Basketball, 1 hour
PE 133 Volleyball, 1 hour
PE 134 Softball, 1 hour
PE 135 Soccer, 1 hour
PE 202 Casting, 1 hour
PE 203 Gun Handling, 1 hour
PE 204 Snow Sking, 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*

*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 210 Advanced Golf, 1 hour*
PE 214 Tumbling and Rebound Tumbling, 1 hour
PE 215 Gymnastic Apparatus, 1 hour
PE 228 Adaptive Physical Education, 1 hour
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
      LAW 105 Law and Society, 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 PREQ ENGL 102
      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 PREQ ENGL 102
   FREN 105 The French-Speaking World, 3 hours
   GEOG 103 (303)** Cultural Geography, 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 parentheses are course number listings for transfer students only from Haywood Community College.
HIST 107 (307)** World Cultures in Historical Perspective, 3 hours
MUS 303 The World of Music, 3 hours, PREQ P3b course
PSC 107 (301)** Comparative Political Cultures, 3 hours
REL 105 Eastern Religious Tradition, 3 hours
SPAN 105 The Spanish-Speaking World, 3 hours

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 PREQ ENGL 102
GER 204 A Literary Perspective on German Civilization, 3 hours PREQ ENGL 102
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 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>BS BA</td>
</tr>
<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 A</td>
</tr>
<tr>
<td>Biology</td>
<td>A&amp;S</td>
<td>BS</td>
</tr>
<tr>
<td>Birth-Kindergarten</td>
<td>AS</td>
<td>BS</td>
</tr>
<tr>
<td>Business Administration and Law</td>
<td>BUS</td>
<td>BS BA</td>
</tr>
<tr>
<td>Chemistry</td>
<td>A&amp;S</td>
<td>BS</td>
</tr>
<tr>
<td>Child Development and Family Relations</td>
<td>AS</td>
<td>B A</td>
</tr>
<tr>
<td>Clinical Laboratory Sciences</td>
<td>AS</td>
<td>BS</td>
</tr>
<tr>
<td>Clothing, Textiles, and Merchandising</td>
<td>AS</td>
<td>BS</td>
</tr>
<tr>
<td>Communication Disorders</td>
<td>E&amp;AP</td>
<td>BS Ed</td>
</tr>
<tr>
<td>Communication</td>
<td>A&amp;S</td>
<td>BS</td>
</tr>
<tr>
<td>Computer Information Systems</td>
<td>BUS</td>
<td>BS BA</td>
</tr>
<tr>
<td>Computer Science</td>
<td>A&amp;S</td>
<td>BS</td>
</tr>
<tr>
<td>Consumer Sciences</td>
<td>AS</td>
<td>BS</td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>AS</td>
<td>BS</td>
</tr>
<tr>
<td>Economics</td>
<td>BUS</td>
<td>BS BA</td>
</tr>
<tr>
<td>Electronics Engineering Technology</td>
<td>AS</td>
<td>BS</td>
</tr>
<tr>
<td>Elementary Education</td>
<td>E&amp;AP</td>
<td>BS Ed</td>
</tr>
<tr>
<td>Emergency Medical Care</td>
<td>AS</td>
<td>BS</td>
</tr>
<tr>
<td>English</td>
<td>A&amp;S</td>
<td>B A</td>
</tr>
<tr>
<td>Environmental Health</td>
<td>E&amp;AP</td>
<td>BS Ed</td>
</tr>
</tbody>
</table>

**Designates a course or program that is the standard introductory course or program in the college and department.
Family and Consumer Sciences E&AP BSEd
Finance BUS BSBA
French A&S GA
General Special Education E&AP BSEd
Geography A&S B S
Geography/Planning A&S B S
Geology A&S BA
German A&S BA
Health Information Management E&AP BSEd
Health Services Management A&S B S
History A&S BA
Hospitality Management A&S B S
Industrial Arts (Inactive Status) E&AP BSEd
Industrial Chemistry A&S B S
Industrial Technology A&S B S
Interior Design A&S B S
International Business BUS B S
Management BUS BSB A
Manufacturing Engineering Technology A&S B S
Marketing BUS BSB A
Mathematics A&S B S
Middle Grades Education E&AP BSEd
Music A&S B A
Natural Resources Management A&S B S
Nursing A&S BSN
Nutrition and Dietetics A&S B S
Parks and Recreation Management E&AP B S
Philosophy A&S B A
Physical Education E&AP BSEd
Physics A&S B S
Political Science A&S BA
Psychology E&AP B S
Recreational Therapy E&AP B S
Social Sciences A&S BA
Social Work A&S B S
Sociology A&S BA
Spanish A&S BA
Speech and Theatre Arts A&S BA
Sport Management E&AP B S
Theatre A&S BA

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:

The 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 at least one of the following...
a 3.5 GPA in high school, top 10 percent 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 30 hours of Honors College credit and who graduate with at least a 3.33 cumulative GPA will receive The Honors College diploma.

For more information, please contact the Dean of the Honors College 828-227-7383.

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 of engineering to which the student plans to transfer.

WCU’s pre-engineering program has been approved by the Subcommittee on Engineering Transfer. This allows qualified WCU students to transfer to the engineering programs at North Carolina A & T, North Carolina State University, and the University of North Carolina at Charlotte and ensures the acceptance of technical program course credits at these universities. Since most core courses in the sciences and mathematics are uniform in most accredited engineering schools, students may elect to transfer to other engineering schools.
Students are advised by a faculty adviser in the Department of Chemistry and Physics.

**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.

Freshmen, transfer students, and students who have not declared a major will be assigned a pre-law adviser by the CAP Center. After selecting a major, students will be assigned to an appropriate department and pre-law adviser. 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 at Western Carolina University and receive credit for selected courses toward a Ph.D. degree 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 and chemistry/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 participates in the general transfer agreements developed by the University of North Carolina General Administration in cooperation with the North Carolina community colleges. The University has developed several additional agreements with individual community colleges in specific academic areas. For additional information, contact the transfer coordinator in the WCU admissions office or a local community college.

**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
- Selected preprofessional programs

For further information, contact the department head in the Geosciences and Natural Resources Management Department.

**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 Department Head in the Geosciences and Natural Resources Management Department.

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:

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.

Independent Study. Independent study courses are offered by several departments at Western Carolina University. The content and criteria for each course is determined by each academic department. Credit for these courses range from one to six semester hours credit as determined by the department. Students must be juniors or seniors in order to take an independent study course.
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 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 December 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 (2.0) 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. 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 (2.5 minimum) on all previous undergraduate 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. Registered nurses may apply at any time of the year. Students must earn a grade of C (2.0) 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). Students who complete the program with a minimum GPA of 2.5 and a C (2.0) or better in all major courses will receive an ADA verification statement. This verification statement qualifies graduates to pursue further training in ADA-accredited dietetic internships or 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, S Harb, 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

T Connelly, B Conser, G Eyambe, W Floreani, W Foegelle, S Huggins, K Hosig, M Hubble, N Kehrberg, P Kneller, G Smith, D Southern, C Stevens, E Story, D Trigg

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  Urnalysis, 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
HSM 310 Systems and Trends in Health Care Delivery, 3 hours
HSM 320 Human Resource Management in Health Care Agencies, 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, OA 304, 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 Resource 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
HSM 320 Human Resource Management in Health Care Agencies, 3 hours
HSM 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, J Dowell, V Duckett, S Grunwell, J Hall, J King, L Roberts, M Yops, J Zhao

Major in Consumer Sciences, B.S. Degree

General education, 41 hours
Program requirement, 3 hours  EDEL 466
The major requires 63 hours, including 3 hours in core courses (CDFR 261), and the following
FCS 311 Curriculum and Materials, 3 hours
FCS 321 Family Finance, 3 hours
FCS 410 Consumer Strategies, 3 hours
FCS 483 Internship, 3 hours
FCS 484 Internship, 3 hours
FCS 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 GPA 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 2.5 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 and Function, 3 hours
SPED 313 Assessment of the Young Child, 3 hours
SPED 411 Collaborative Planning, 3 hours
SPED 412 Interagency Practicum, 2 hours
EDEL 313 Literacy and Numeracy, 3 hours
EDCD 302 Communication Development and 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
FCS 311 Curriculum and Materials, 3 hours
FCS 321 Family Finance, 3 hours
FCS 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
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 Hospitality Management
The minor requires 21 hours, including HM 130, 333, 335, 430, MGT 300, PRM 440 and a 3 hour junior or senior elective selected from hospitality management, management, or nutrition and dietetics

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
K Ayala, A Ball, J Cook, R Dalley, A Latorre, M McAllister, M Martin, W Medaris, J Pounds, R Temple, J Turner, D Wood

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 nonmajors

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 nonmajors

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 ENVH 230 or ENVH 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 cosponsored by the North Carolina Industrial Commission.

DEPARTMENT OF NURSING
Sharon Jacques, Acting Head

M Carlyle, K Gillet, J Gregory, V Hall, C Hill, J Howe, A Johnson, B Kruse, J Mallory, S Metcalfe, E Simmons-Rowland, J Smith, C Stephens, K Stauffer

Major in Nursing, B S N. Degree/Basic 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 ANTHROPOLOGY AND SOCIOLOGY

Anne Rogers, Head
J. Bardo, M. Chamberlin, N. Haenn, J. Hickey, T. Hickey, N. Mwaniki, E. Price

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 second major, minor, or other approved program. Students must take at least 32 hours at the junior-senior level at WCU to satisfy general degree requirements.
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.

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:

- 231 Principles of Sociology, 3 hours
- 385 Methods of Social Research, 3 hours
- 386 Analysis of Social Data, 3 hours
- 391 Sociological Theory, 3 hours

Electives (21 hours) to complete a sociology major selected from sophomore, junior, or senior level sociology courses.

To complete the degree, 40 hours are required, including a minor, second major or other approved program. Students must take at least 30 hours at the junior-senior level at WCU to satisfy general university degree requirements.

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 general electives are increased by 6 hours.

Minor in Sociology

The minor requires 21 hours, including SOC 231 and 18 hours of sophomore, junior, or senior level sociology courses.

Minor in Anthropology

The minor requires 21 hours, including ANTH 250, 260, and 15 hours of junior-senior level anthropology courses.

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

See requirements under Arts and Sciences Interdisciplinary Programs.

DEPARTMENT OF ART

Robert Godfrey, Head


Major in Art, B.F.A. Degree

General education, 41 hours
Program requirements, 3 hours  

PHIL 310

The major requires 66 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
474 Portfolio, 3 hours

Art history electives (6 hours) at the junior-senior level and studio electives (12 hours for studio and 15 hours for graphic design) 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, and additional studio elective hours.

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 (18 hours) are required to complete the program. At least 32 hours taken at WCU must be at the junior-senior level to meet one of the general university degree requirements. To continue in the program, students must earn a grade of C or better in each art course in the major.

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

Major in Art, B.S.Ed. Degree

General education, 41 hours

The major requires 58 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
365 Art Methods for the Elementary School, 3 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 (4 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
J C Alexander Jr, Acting 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 423, 448, 454, ANTH 417, 473, HIST 442, 445, 446, 451, 463, PSY 333, 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

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 418, SOC 420, PSY 351, CMHC 414, and appropriate topics from ANTH 481, PSY 480, SOC 480, and CMPR 493

DEPARTMENT OF BIOLOGY
Clarence Paul Wright, Head

R Bruce, J Costa, F Coyle, P Galbreath, F Hinson, K Johnson, R Lumb, H Mainwaring, A Moore, D Petillo, S Rundle, T Rundle, J Wallace, J West

Major in Biology, B.S. Degree
General education, 41 hours
Program requirements with all emphases, 4 hours  CHEM 140  Additional requirements with the preprofessional emphasis, 14 hours, including MFL 231-232 or 240, MATH 130 and MATH 140 or equivalent, with a horticulture emphasis, 3 hours in MATH 130, and with a business emphasis, 6 hours in MATH 130, 170

The major requires 55-65 hours as follows
140, 141 Principles of Biology I, II, 8 hours
304 General Ecology, 3 hours
305 Genetics and Evolution, 3 hours
333 Cell and Molecular Biology, 3 hours
496 Senior Seminar, 1 hour

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

**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.  
NOTE  Horticulture courses are not taught at Western Carolina University

**Preprofessional**, 30 hours  CHEM 241, 242, 272, PHYS 130, 131, and 14 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**, 36 hours  FIN 305, ACCT 161, ECON 231, 232, MGT 300, MKT 301, PHYS 130, 131, and 10 hours of junior-senior biology electives

General electives (19-27 hours), are required to complete the program. At least 14 hours 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
140, 141 Principles of Biology I, II, 8 hours
304 General Ecology, 3 hours
305 Genetics and Evolution, 3 hours
333 Cell and Molecular Biology, 3 hours
496 Senior Seminar, 1 hour
CHEM 132, 133 General Chemistry, 8 hours
PHYS 130, 131 Introductory Physics, 8 hours
Biology electives (10 hours) at the junior-senior level

The professional education sequence (28 hours) for secondary and special subject teaching and 7 hours of general electives are required to complete the program

**Minor in Biology**

The minor requires 18 hours, including 140, 141, 304, 305, 333, and 496

**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.

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
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.

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
Kathleen S Wright, Acting Head

Major in Communication, B.S. Degree
General education, 41 hours

Program requirements, 9 hours  CIS 293 Beg Micro Applications or CS 130, 3 credit
statistics course, OA 304 or ENGL 401

The major requires 46 hours including 28 required hours in communication core courses
(CMCR) and a 18-hour concentration

Required Communication Core Courses, 28 hours
CMCR 140 Introduction to Communication Media, 3 hours
CMCR 150 Interpersonal Communication, 3 hours
CMCR 250 Public Communication, 3 hours
CMCR 301 Writing for Communication Media, 3 hours
CMCR 350 Communication Theory, 3 hours
CMCR 351 Communication Research, 3 hours
CMCR 389 Cooperative Education in Communication or
CMCR 483 Internship in Communication, 3 hours
CMCR 401 Editing for Communication Media, 3 hours
CMCR 465 Communication Ethics and Responsibilities, 3 hours
CMCR 496 Seminar in Professional Development, 1 hour

Concentrations, at least 18 hours selected from

Electronic Media (CMEM)  CMEM 352, 354, 355, and 356 required, 6 hours selected from
CMEM 351, 450, 451, 454, 455, 456, 457, 458, 459, and 493

Print Media (CMPM)  12 hours from the following  CMPM 302, 303, 304, 305, 402, 403,
404, CMTD 315 and CMPR 360, and 6 hours selected from advisor-approved courses

Public Relations (CMPR)  CMPR 360, 460, 365 or 493 required, 9 hours selected from
CMTD 315, CMPM 303, 304, 403, 404 or 3 hours of advisor-approved courses

Communication Training and Development (CMTD)  CMTD 315, 316, 412, 413 required,
6 hours selected from CMHC 314, 411, 414, 415, CMTD 493

To complete the program, a total of 32 hours is required, including at least 12 hours of general
electives and a minor, second major, or other approved programs. 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

**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

An 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**  9 hours from CMTA 341, 345, 346, 351, 441, and 6 hours from ANTH 260, PSY 250,
PHIL 310, 312

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

**Lighting Design**  CMTA 332, 335, 435, and 6 hours from ART 131, IET 151, HEAL 250,
IDSN 153

**Scenic Design**  CMTA 332, 333, 433, and 6 hours from ART 131, IET 151, HEAL 250, IDSN
153

**Technical Production**  CMTA 332, 6 hours from CMTA 330, 333, 335, 337, and 6 hours from
ART 131, IET 151, HEAL 250

To complete the program, a total of 23 hours of general electives is required  A student will
have only one concentration in the B.F.A degree
Minor in Communication

The minor requires 24 hours 6 hours of program requirements (CIS 293 Beg Micro Applications or CS 130, 3 credit statistics course) 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 minor, second major, or other approved program and general electives Students must take at least 32 hours at the junior-senior level at WCU in order to satisfy general university degree requirements

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 minor, second major, or other approved program and general electives Students must take at least 32 hours at the junior-senior level at WCU in order to satisfy general university degree requirements

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 minor, second major, or other approved program and general electives. Students must take at least 32 hours at the junior-senior level at WCU in order to satisfy general university degree requirements.

**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 420, 431, 440, 441, 451, 470

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-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)

GEOSCIENCES AND NATURAL RESOURCES MANAGEMENT

Lawrence G Kolenbrander, Head

P Bates, J Neff, V Peterson, T Rossbach, R Triplette, G White, R Young, S Yurkovich

Major in Geography, B.S. Degree

General education, 41 hours

Program requirements, 7 hours GEOL 150, MATH 170

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 (30 hours) are required to complete the program

At least 32 hours of the courses taken at WCU must be at the junior-senior level to meet one of the general university degree requirements

Major in Geography—Planning, B.S. Degree

General education, 41 hours

Program requirements, 7 hours GEOL 150, MATH 170

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 (31 hours) 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. At least 32 hours of the courses taken at WCU must be at the junior-senior level to meet one of the general university 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:
1. 150 Introduction to Physical Geology, 4 hours
2. 252 Mineralogy, 4 hours
3. 371 Structural Geology, 4 hours
4. 495 Senior Seminar in Geology, 3 hours
5. CHEM 132 and 140, or 140 and one additional Chemistry course numbered 200 or above, 7-8 hours
6. Geology, Math, or Science electives at the junior-senior level, 25-26 hours

General electives (22 hours) 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.

At least 30 hours of the courses taken at WCU must be at the junior-senior level to meet one of the general university degree requirements.

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

General education, 41 hours

Program requirements, 17-21 hours  PHYS 130-131 or 230-231, either MATH 145, 146, 153 and 255 or MATH 145, 146, and 170

The major requires 53 hours as follows:
1. CHEM 132 and 140, or 140 and one additional Chemistry course numbered 200 or above, 7-8 hours
2. 150 Introduction to Physical Geology, 4 hours
3. One freshman-level Geology elective, 3 hours
4. 252 Mineralogy, 4 hours
5. 352 Igneous and Metamorphic Petrology, 4 hours
6. 371 Structural Geology, 4 hours
7. 420 Sedimentation, 3 hours
8. 421 Stratigraphy, 3 hours
9. 483 Field Course, 4-6 hours, taken at another accredited institution with approval of the department head
10. 495 Senior Seminar in Geology, 3 hours
11. Geology, math, or science electives at the junior-senior level, 11-14 hours

General electives (13-17 hours) are required to complete the program.

At least 32 hours of the courses taken at WCU must be at the junior-senior level to meet one of the general university degree requirements.

**Major in Natural Resources Management, B.S. Degree**

General education, 41 hours

Program requirements, 10 hours  CHEM 132, MATH 170, 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 (13 hours) are required to complete the program

At least 32 hours of the courses taken at WCU must be at the junior-senior level to meet one of the general university degree requirements

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 freshmen 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

DEPARTMENT OF HISTORY

Curtis Wood, Head

W Anderson, T Blethen, P Carmichael, D Dorondo, G Graham, J Lewis, C Lovin, S Philyaw, D Pierce, G Schwartz, B Walton

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 32 hours of these courses must be at the junior-senior level.

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

General education, 41 hours

Program requirements, 3 hours MATH 170

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 45 hours is required, including a minor, second major, or other approved program and general electives. At least 32 hours of the courses taken at WCU must be at the junior-senior level to meet one of the general university degree requirements

**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 15 hours of electives from ANTH 417, ANTH 473, BIOL 251, ENGL 367, HIST 445, HIST 446, and HIST 472

**DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE**

Harold Williford, Head


**Major in Computer Science, B.S. Degree**

General education, 41 hours

Program requirements, 12 hours 8 hours selected from one of the following groups BIOL 140, 141 or CHEM 140, 232 or GEOL 150, 155 or PHYS 130, 131 or PHYS 230, 231, 4 hours selected from the above groups but in a different natural science than the first 8 hours

The major requires 61 hours as follows

150 Problem Solving and Programming I, 4 hours
151 Problem Solving and Programming II, 4 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 Data Structures, 3 hours
352 Organization of Programming Languages, 3 hours
360 Theory of Computation, 3 hours
370 Operating Systems, 3 hours
465 Computer Networks, 3 hours
495 Capstone, 3 hours
MATH 153 Calculus I and MATH 255 Calculus II, 8 hours
MATH 254 Matrix Theory, 3 hours
MATH 370 Probability and Statistics I, 3 hours
9 additional hours of courses selected from CS 301, 304, 320, 340, 361, 389, 393, 441, 443, 451, 452, 453, 460, 462, 463, 464, 480, and 493 (including at least 6 hours from courses at the 400 level)

14 additional hours of general electives completes the program of study

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

General education, 41 hours

Program requirements, 15 hours CS 150, PHYS 230, 231, One of BIOL 140, BIOL 141, CHEM 132, CHEM 140, GEOL 150, GEOL 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.

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**DEPARTMENT OF MODERN FOREIGN LANGUAGES**

*Suzanne Moore, Head*

*M Couture, T Gamble, P Haberland, R Morgan, N Norris, L Sutton, P Umfress, K Wilmath*

**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 or German Literature I, II, 6 hours, or 330 Masterpieces of Spanish Peninsular Literature and 333 Masterpieces of Spanish-American Literature, 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, 330, 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.

Native Speaker Policy
Native speakers are encouraged to enroll in any of the following courses FREN/GER/SPAN 321, 322, 330, 331, 332, 333, 351, 393, 451, 481, and all 400-level literature courses Other courses are normally not open to native speakers except where required in degree programs The department head may make exceptions on an individual basis

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 (winds and percussion, minimum 1 hour marching band)
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-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 Conductiong, 3 hours
470 Orchestration and Arranging, 2 hours

Major ensemble, 6 hours (winds and percussion minimum 2 hours marching band)

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

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

Charles J Stevens, Head
Kenneth Wink, Director of MPA
R Collings, A Hayes, C D Livingston, G Mercer

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)
346 Modern Political Thought, 3 hours
Junior-senior electives, 9 hours (no more than 6 hours can be applied to cooperative education or internship)

Concentration (9 hours) selected from
American Political Institutions 305, 306, 336, 407, 494
International Relations 332, 333, 334, 335
Public Administration 304, 6 hours selected from 307, 309, and 421
General Political Science Electives at the junior-senior level

To complete the program, a total of 48 hours is required, including a minor, second major, or other approved program. At least 32 hours taken at WCU must be at the junior-senior level to meet one of the general University requirements.

Major in Political Science, 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) is required, a foreign language is not required, and electives are increased by 3 hours.
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 minor, second major, or other approved program  At least 32 hours of the courses taken at WCU must be at the junior-senior level to meet one of the 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) is required, a foreign language is not required, and electives are increased by 3 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 350 Economic Geography or GEOG 444 Political 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
Terry L. Gibson, Head
L. Gustafson, C. Kuhn, B. Ward
The Social Work Program is accredited by the Council on Social Work Education and its principal educational goal is to prepare students for beginning generalist social work practice.

**Major in Social Work, B.S. Degree**

General education, 41 hours

Program requirements, 16 hours

- BIOL 134 (4 hours including lab), 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
- 354 Human Behavior and the Social Environment II, 3 hours
- 362 Social Work Practice I, 3 hours
- 364 Social Work Practice II, 3 hours
- 373 Social Welfare Policy Issues and Analysis, 3 hours
- 486, 487, 488 Field Practicum, 12 hours
- 496 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 (16 hours) are required to complete the program.
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 stages of development.

Programs of Study Include: Bachelor of Science in Business Administration, Bachelor of Science in International Business, 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 course work, 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.
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**: 12 hours

**Minimum requirements for B S B A Degree**: 120 hours

A minimum GPA of 2.0 is required in the major 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 course work 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.

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**DEPARTMENT OF ACCOUNTANCY**

*John A Beegle, Head*

*D Coffee, E Jones, L Kauffman, R Lirely, P Little, S Swanger*

**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.
DEPARTMENT OF BUSINESS ADMINISTRATION AND LAW
LeVon E Wilson, Head

D Burke, J C Carland, J W Carland, R Higgs, R McLaurin, M Nixon

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

Minor in Business Law

The minor, open to nonbusiness majors only, requires 18 hours, including Law 230 and 15 hours from the following 302, 303, 306, 315, 320, 331, 332, 403, 405, 410, 412, 415, or 440

DEPARTMENT OF BUSINESS COMPUTER INFORMATION SYSTEMS
Jennie L. Hunter, Head

D Banerjee, D Clapper, L Heinrichs, J McCreary, R Noel, W Perry, G Williams

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 ECONOMICS, FINANCE, AND INTERNATIONAL BUSINESS

John Wade, Head
G Allen, P Hays, S Jarrell, R Jones, S Kask, R McMahan, M Schreiber, A Spencer

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. Degree
General education, 41 hours
Foundation of Knowledge for Business, 45 hours
One year (6 hours) of modern foreign language from FREN, GER, 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 Routhueaux, R Shuffler, C Wright

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

DEPARTMENT OF MARKETING

Jo Anne S Hopper, Head

J Busbin, B Dunlap, M Garver, J Johnson, M Leonard, J Lewin

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
475 Marketing Strategy and 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

*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.
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 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.

Please select one of the following:

1. **ANTHROPOLOGY** (Total hours 24)
   - **Required Courses**: ANT 250, 260, 341, 419
   - **Additional Courses**: Select 3 hours from ANTH 327, 349, 351, 365, 3 hours from ANTH 361, 431, 441, 3 hours from ANTH 380, 440, 466, 3 hours from ANTH 417, 461, 464, 477

2. **ART** (Total hours 24)
   - **Required Courses**: ART 131, 132, 136, 137, 142
   - **Additional Courses**: Select 9 studio hours (courses from no more than two studio areas) in art

3. **BIOLOGY** (Total hours 24)
   - **Required Courses**: BIOL 140, 141, 304, 305, CHEM 132, 133
   - **Additional Courses**: Select 2 hours from BIOL 134, 291, 292, 311, 315, 493, or any other
300- or 400-level biology course for which the student has the prerequisites and permission of the instructor

4 COMMUNICATION TRAINING AND DEVELOPMENT (Total hours 24)
   Required Courses  CMCR 140, 150, 250
   Additional Courses  Select 15 hours from CMHC 314, 411, 414, 415, CMTD 315, 316, 412, 413, 493, CMCR 350, 465

5 ECONOMICS (Total hours 24)
   Required Courses  ECON 231, 232, 235, MGT 300, FIN 305
   Additional Courses  Select 3 upper-level economics courses to total nine hours

6 ENGLISH (Total hours 24)
   Required Courses  ENGL 251, 252, 312, 330, 414, 478
   Additional Courses  Select 6 hours from ENGL 361, 362, 420, 431, 440, 441, 451, 463, 470, 496

7 FRENCH (Total hours 24)
   Required Courses  FREN 240, or 231 and 232, FREN 301, 302, 321, 322, 351, 452
   NOTE  Some upper-level courses are not offered every year. Substitutions for these courses may be approved by the head of the Modern Foreign Languages Department if scheduling problems result for the student

8 GEOGRAPHY (Total hours 24)
   Required Courses  GEOG 150, 350
   Additional Courses  Select 6 hours from regional topics courses numbered GEOG 440, twelve hours from GEOG 300, 302, 320, 400, 402, 444, 462

9 GEOLOGY (Total hours 24)
   Required Courses  GEOL 150, and one other freshman-level geology course
   Additional Courses  Select 17 hours from any 200-level or higher geology course

10 GERMAN (Total hours 24)
   Required Courses  GER 240, or 231 and 232, GER 301, 302, 321, 322, 351, 452
   NOTE  Some upper-level courses are not offered every year. Substitutions for these courses may be approved by the head of the Modern Foreign Languages Department if scheduling problems result for the student

11 HISTORY (Total hours 24)
   Required Courses  HIST 221, 222, 231, 232
   Additional Courses  Select 12 hours of upper-division history courses except the following  HIST 389, 473, 475, 483, 484, 485
   NOTE  HIST 221 and 231 are offered only in the fall, HIST 222 and 232 are offered only in the spring

12 MATHEMATICS (Total hours 24)
   Required Courses  MATH 145, 146, 170, 230, 231, 260, and MATH 140 or 153
   Additional Courses  Select 1 course from MATH 255, 270, CS 130, 141

13 PHILOSOPHY (Total hours 24)
   Required Courses  PHIL 231, 304, 306, 307
   Additional Courses  Select 12 hours of philosophy courses at the junior-senior level with no more than 3 hours from PHIL 305, 308

14 POLITICAL SCIENCE (Total hours 24)
   Required Courses  PSC 231
   Additional Courses  Select 12 hours from PSC 302, 303, 316, 318, 331, 332, 9 hours from PSC 304, 305, 306, 310, 319, 333, 334, 335, 336, 407, 421

15 PSYCHOLOGY (Total hours 24)
   Required Courses  PSY 250, 251 (or equivalent), 252 (or equivalent)
   Additional Courses  Select 3 hours from PSY 310, 313, 331, 333, 360, 3 hours from PSY
440, 444, 448, 455, 3 hours from PSY 363, 430, 441, 470, 474, 6 hours of psychology electives (excluding PSY 320 and PSY 321)

NOTE PSY 252 is offered on TR during one semester and on MW during the next semester. PSY 363 is offered infrequently. PSY 455 is offered only one time each year. Students are encouraged to take PSY 389, 480 and/or 482-485 as psychology electives.

16 SOCIOMETRY (Total hours 24)
Required Courses SOC 231, 385
Additional Courses Select 18 hours from any 200-level and above sociology course

17 SPANISH (Total hours 24)
Required Courses SPAN 240, or 231 and 232, SPAN 301, 302, 321, 322, 351, 452
NOTE Some upper-level courses are not offered every year. Substitutions for these courses may be approved by the head of the Modern Foreign Languages Department if scheduling problems result for the student.

18 THEATRE (Total hours 24)
Required Courses CMTA 131, 140, 231, 300 or 301, 331, 340, 350, 400 or 401

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 students' major department 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 Building, Room 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 fully admitted to teacher education is EDCI 231 (BK 260 for B-K majors).

Admission criteria. All requirements for admission to teacher education should 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 (2.0) 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 (2.0) or higher in ENGL 300;
3. completed at least 45 earned hours,
4. earned (and then maintain) a minimum cumulative GPA of 2.5 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 2.5 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 2.5 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, or 322
- **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, or 322, SPED 490, 495
- **Secondary and Special Subject Teaching,** 27-28 hours EDCI 231, PSY 320, 321, or 322, 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 2.5 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. 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**

*Penelope S. Smith, Acting 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:

**Secondary Teaching (grades 9-12)**

- Biology
- Social Sciences
- English
- Family and Consumer Sciences*
- Mathematics

**Special Subject Teaching (grades K-12)**

- Art
- Communication Disorders
- French
- German
- Music
- Physical Education
- Spanish
- Special Education (General)

*Grades 7-12*

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 licensure. Consult your adviser or department head.

**DEPARTMENT OF ELEMENTARY AND MIDDLE GRADES EDUCATION**

*Lester L. Lamnack, 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 Guiding Children's Behavior and Managing Classrooms, 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 Guiding Children's Behavior and Managing Classrooms, 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 hours as follows
HEAL 250 First Aid and Safety Education, 2 hours
HEAL 312 Comprehensive Health Education, 3 hours
In order to complete the program, the following are required:

The professional education sequence (28 hours) for secondary and special subject teaching.

A disciplinary focus area, 24 hours. A grade of C or better in all major classes including PE 325 Physical Education Curriculum and Methods (Departmental Methods course included in The Professional Education Sequence). All majors must be active in a varsity sport, to include athletic training or managing, or serve as an intramural assistant for two full semesters and complete 50 hours of community service prior to student teaching.

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 (individual faculty members will include this as part of professional assignments in certain classes such as PE 312, 325, 345, and 353).

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 382 Program Planning and Evaluation 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 Management 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
- 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, HM 335, 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 395 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 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, MKT 301

The major requires 63 hours as follows

Core courses, 42 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, 3 hours
SM 423 Sociology of Sport, 3 hours
SM 435 Event and Facility Management and Marketing, 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
Concentration (21 hours) selected from
Athletic Administration*  SM 213, 315, MKT 302, 304, 306, LAW 315, CMPR 360

Athletic Training  HSCC 240, ND 330, PE 423, 425, SM 213, 383, 413, PE 335 or BIOL 291 and BIOL 292


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 230, 315, and CMPR 360

Recreational Sport Management  PE 265 or 266, PRM 254, 270, 461, RTH 253, SM 315, 330, and two credits 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 251/252, MGT 401, MKT 302, 304, 306, 403, LAW 230

Sports Information  CMCR 140, 301, CMPM 303, 304, 305, and CMPR 360  Three credits selected from PE 122 or 209, 123 or 210, 132, 133, 134, 135, 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

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, 3 hours
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, 322, 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*

Steven P Yurkovich, Acting Dean
J Casey Hurley, Acting 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 fifty 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 Arts in Teaching: Options in Art, Biology, Chemistry, English, Family and Consumer Sciences, Mathematics, Physical Education, Reading, and Social Sciences

Master of Science Majors in Applied Mathematics, Biology, Chemistry, Communication Disorders, Community Counseling, 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 Studies

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 or GRE. Please consult the graduate catalog, 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 all credentials should be submitted to the Graduate School not later than six weeks prior to the opening of the term.

*Complete information will be found in the graduate catalog, The Record, available from the Graduate School.
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 M.A. in studio art. A thesis or lecture/recital is required for the M.A. in music. A thesis may 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, and the Master of Science in communication disorders. 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 thirty to seventy-five 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

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
- 699/999: Thesis/Continuing Research

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 2.0 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.
# Guide To Course Prefixes

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<tr>
<th>Prefix</th>
<th>Field of Study</th>
<th>Department/College</th>
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<tr>
<td>ACCT</td>
<td>Accounting</td>
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<td>Anthropology</td>
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<td>Astronomy</td>
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<td>Birth-Kindergarten</td>
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<td>Child Development and Family Relations</td>
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<td>Communication Core</td>
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<td>USI</td>
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<td>Academic 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

461 CPA Problems (3)

466 Income Tax II (3)

467 Cost Accounting II (3)
475 Advanced Accounting Projects (3)
The strategic use of accounting in the business environment, integration of accounting concepts, principles and theory, application of accounting skills in practice PREQ 353
COREQ 454

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
485 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

Graduate Courses
601 Financial Analysis (3) 640 Auditing (3)
605 Accounting Theory and Practice I (3) 651 Managerial Accounting (3)
615 Accounting Theory and Practice II (3) 661 Advanced Theory (3)
616 Accounting Theory and Practice III (3) 662 Taxation and Business (3)
625 Advanced Accounting Information Systems (3) 682 Research Project in Accounting (3, R6)
630 Cost/Managerial Accounting (3) 693 Topics in Accounting (1-3, R6)
635 Accounting and Auditing Concepts in Not-for-Profit Organizations (3)

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
Religion, Magic, Myth (3)
Nonliterate religious tradition and ritual behavior, life-crisis rituals, secret societies, magic and witchcraft, notions of divinity

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

ART 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

SOC 380 Ethnographic Research Methods (3)
Theory and method, techniques of observation, description, interviewing, notetaking, and analyzing data, planning and completing a field study

1 Lecture, 5 Lab

SOC 389 Cooperative Education in Anthropology (1 or 3, R15) See Cooperative Education Program

SOC 414 Minority Groups (3)

SOC 417 Southern Appalachian Culture (3)
Stability and change in the sociocultural institutions of the region

SOC 419 Comparative Family (3)
The family as a social institution in various cultures

SOC 431 North American Prehistory (3)
Cultural history of the peoples of prehistoric North America, including Mexico

SOC 440 Archeological Field Techniques (3)
Basics of field work, surveying, photography, excavation, recording, and preservation techniques

SOC 441 Archeological Problems and Analyses (3)
Experience in collecting and analyzing relevant archeological data

SOC 461 Indians of North America (3)
Traditional and changing life styles of native North Americans, environmental adaptations, social organizations, religions, and arts

SOC 464 Cultures of South Asia (3)
The cultures of India, Pakistan, Ceylon, Nepal, Afghanistan, and other South Asian countries

SOC 466 Folklore (3)
Major forms, theories, and functions of lore among the world's cultures, collection, classification, and analysis of folklore

SOC 473 Contemporary Cherokee Culture and Society (3)
Present-day Cherokee culture and society, effects of tourism and the reservation system on life styles

SOC 477 Cultures of Subsaharan Africa (3)
Cultural diversity and development in Subsaharan Africa from earliest times to the present

SOC 481 Independent Study in Anthropology (1-2, R6)
Written application, approval of instructor and adviser

SOC 483 Anthropology Internship (3, 3, 3)
Application of academic training in an approved agency under faculty supervision

SOC 485 Credit toward anthropology major or minor limited to 3 hours S/U grading

9 hours per week per course
493 Topics in Anthropology (3, R6)
PREQ Permission of instructor

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 Sub-Saharan 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. Em-
phasis 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. PREQ 131 and 142 or permission of instructor. 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 handmade 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
138 (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 334 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)
484 Directed work experience in a professional design studio
485 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) 633 Graduate Painting (3, R9)
532 Design Problems (3, R6) 634 Graduate Printmaking (3, R9)
533 Painting Problems (3, R6) 644 Graduate Sculpture (3, R9)
534 Printmaking Problems (3, R6) 651 Graduate Ceramics (3, R9)
535 Sculpture Problems (3, R6) 652 Graduate Jewelry (3, R9)
536 Ceramics Problems (3, R6) 653 Graduate Weaving (3, R9)
537 Weaving Problems (3, R6) 666 Photography Problems (3, R6)
538 Art Education Problems (3, R6) 667 Graduate Photography (3, R9)
539 Topics in Art (1-4, R7) 680 Independent Study in Art Education (3, R6)
540 Exhibition Practicum (3) 681 Graduate Problems in Art (3)
541 Topics in Art History (1-6) 682 Independent Study in Art History (1-6)
542 Exhibition Practicum (3) 686 Graduate Seminar in Art History (3, R6)
543 Topics in Art History (1-6) 697 Seminar in Art Education (3, R6)
544 Exhibition Practicum (3) 698 Thesis (3)
545 Topics in Art History (1-6) 999 Continuing Research (2, R24)

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 (308) 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,
ocasionally, 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
atitudes of man 3 Lecture, 2 Lab (lab is optional) (P2)

301 Modern Astronomy (3)
Techniques of measurement and research PREQ 230 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 Human Biology (3-4)
Introduction to cell biology, genetics, and human systems biology  
3 Lecture, 2 Lab (lab is optional)

140 Principles of Biology I (4)
Introduction to biology for majors  
Basic cell structure and function, bioenergetics, introduction to genetics and molecular biology, evolutionary processes  
3 Lecture, 3 Lab

141 Principles of Biology II (4)
Second course for biology majors  
Evolutionary patterns (Monera, Protista, Fungi, Plants, and Animals), introduction to plant and animal physiology, organismic interactions (Behavior, Ecology)  
PREQ 140  
3 Lecture, 3 Lab

213 Techniques of Biological Photography (3)
Basic techniques in photographic theory as applied to scientific documentation emphasizing photomacography, photomicrography, and field techniques  
Two required Saturday field trips  
1 Lecture, 6 Lab

251 Natural History of the Southern Appalachians (4)
Interdisciplinary study of this unique environment, on-site studies, scheduled pack trips  
PREQ 141  
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

304 General Ecology (3)
Ecosystem and population processes, pathways of energy and materials, interactions between organisms and populations and human role in the biosphere  
PREQ 141 or permission of instructor  
2 Lecture, 3 Lab

305 Genetics and Evolution (3)
Processes of inheritance and evolution, experiments with various animals, plants, and bacteria  
PREQ 141 or permission of instructor  
2 Lecture, 3 Lab

311 Animal Physiology (2)
Principles of homeostasis, cell and tissue communication systems, contractility, respiration, excretion, and metabolism in animals  
PREQ BIOL 141 and CHEM 140

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 BIOL 141 and CHEM 140  
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 141 and 305, 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 141. 2 Lecture, 6 Lab

374 **Vertebrate Zoology** (4)
Morphology, physiology, behavior, ecology, and evolution of vertebrates. PREQ 141 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 BIOL 141 and CHEM 140. 3 Lecture, 3 Lab

417 **Biochemistry** (3)
The metabolism of carbohydrates, lipids, nucleic acids, and proteins in plant and animal systems. PREQ BIOL 304, 305 and CHEM 242, 272, or permission of instructor

419 **Cell Biology** (4)
Structure and function, techniques for the study of cells. PREQ 333. 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 141. 2 Lecture, 6 Lab/field

434 **Terrestrial Ecology** (4)
Population, ecosystem, community structure, and dynamics, major North American biomes, field and descriptive methods, required weekend field trips. PREQ 304 and 305. 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 304. 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 304 and 305

451 **Biology of Fungi** (4)
Slime molds and true fungi. Life histories, morphology, host-parasite relationship, fine structure, and phylogeny. PREQ 141

452 **Plant Anatomy** (4)
Plant cells, tissue organization in phylogenetic perspective, botanical microtechniques. PREQ 141. 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 305  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 141  3 Lecture, 3 Lab

457 Biology of Algae (4)
Life history, structure, reproduction, and phylogeny of the algae  
PREQ 141  3 Lecture, 3 Lab

466 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 141 and 304, or permission of instructor

467 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

470 Biology of Arthropods (4)
Functional morphology, physiology, natural history, and systematics of the arthropods, field/lab emphasis on spiders  
PREQ 141  2 Lecture, 6 Lab

471 Animal Behavior (4)
Mechanisms, development, functional significance, and evolution of behavior, individual research projects, films, and discussions in lab  
PREQ 141 or permission of instructor  
3 Lecture, 3 lab

475 Animal Development (4)
Development in animals, gametogenesis, fertilization, cleavage, gastrulation, organogenesis, embryonic adaptations, differentiation, and growth  
PREQ 304 and 305  
3 Lecture, 3 Lab

476 Contemporary Fisheries (3)
Biological concepts and alternative management practices involved in the protection, conservation, restoration, augmentation, and cultivation of fisheries resources  
PREQ 141 and 304, or permission of instructor  
2 Lecture, 2 Lab

478 Histology (4)
Vertebrate microscopic anatomy, emphasis on mammals, study of microscopic slides  
PREQ 333  
2 Lecture, 6 Lab

480 Research in Biology (2, R6)
PREQ  
Junior standing, permission of research director

493 Studies in Biology (1-6, R12)
PREQ  
Permission of department head

495 Introduction to Senior Thesis (1)
Designed to introduce experimental design and assist in selection of a senior thesis project  
PREQ  
Permission of department head

496 Senior Seminar (1)
PREQ 140, 141, 304, 305, and 333, or permission of instructor

498 Senior Thesis I (2)
Directed research conducted in the first semester of the senior year  
PREQ  
Permission of department head
499 Senior Thesis II (1)
Senior thesis and oral presentation following completion of directed undergraduate research  PREQ 498

Graduate Courses

513 Principles of General Microbiology (2)
514 Methods of General Microbiology (2)
515 Plant Physiology (4)
517 Biochemistry (3)
519 Cell Biology (4)
525 Flora of the Southern Appalachians (4)
534 Terrestrial Ecology (4)
535 Aquatic Ecology (4)
543 Evolutionary Processes (3)
551 Biology of Fungi (4)
553 Principles of Systematics (4)
555 Vascular Plants (4)
557 Biology of Algae (4)
566 Aquaculture (1)
567 Biostatistics (3)
570 Biology of Arthropods (4)
571 Animal Behavior (4)
576 Contemporary Fisheries (3)
578 Histology (4)
579 Cooperative Education in Biology (3, R6)
593 Advanced Studies in Biology (1-6, R12)
612 Principles of Chemical Ecology (3)
613 Molecular Biology (3)
614 Principles of Chemical Ecology Laboratory (2)
632 Biogeography (3)
637 Ichthyology (4)
693 Topics in Biology (1-6, R12)
694 Topics in Biology (1-6, R12)
697 Introduction to Graduate Studies in Biology (2)
699 Thesis Research (3, R12)
999 Continuing Research (2, R24)

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)

293 Topics in Business Administration (1-6, R6)
PREQ Permission of the dean

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.

393 Topics in Business Administration (1-6, R6)
PREQ Permission of the dean

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

493 Topics in Business Administration (1-6, R6)
PREQ Permission of the dean

Graduate Courses

500 Accounting for Management Analysis (3) 515 Management, Marketing, and Legal Issues (2, R6)
505 Economics and Public Policy (2-3, R5) 589 Cooperative Education Experience (3)
510 Information Systems and Statistical Methods (2, R4) 593 Current Topics in Business Administration (1-3, R4)
693 Topics in Business Administration (3, R6)

Business Law (LAW)

105 Law and Society (3)
Study of the relationship between the individual, law and society, structure of the system for dispute resolution in a legal and social context, role that law plays in a complex society  (P1a)

141 (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 (Pib)

230 Legal Environment of Business (3)
Social responsibility of business, ethics, legal concepts, and legislation and administrative decisions having an impact on business.

302 Legal Research and Contemporary Legal Problems (3)
Research and study of the relationship of law to the structure of society, study of prominent court decisions reflecting changes dictated by societal movements and civil litigation  PREQ 230
303 Consumer Protection (3)  
General products liability laws, federal and state legislation and consumer credit and reporting

306 Women and the Law (3)  
The study of the legal history of issues relating to women, case-law and legal precedent, statutory and constitutional law, and current legal issues surrounding women  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, pretrial 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)  
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, 2 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, 2 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

461 Environmental Chemistry (4)
Sources, reactions, transport, effects, and fates of chemical species in water, soil, air, and living environments  3 Lecture, 3 Lab  PREQ 352

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)
561 Environmental Chemistry (4)  
589 Cooperative Education in Chemistry (3, R6)  
593 Topics in Chemistry (1-3, R6)  
621 Graduate Inorganic Chemistry (3)  
695 Topics in Physical Chemistry (3, R6)  
696 Seminar (1, R3)  
698 Research in Chemistry (3, R15)  
699 Thesis (3, R9)  
999 Continuing Research (2, R24)

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 and 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 twenty-four 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
150

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

Graduate Courses
565 Day Care Management (3)
660 Child and Family Development (3)
567 Parent Education (3)
661 Contemporary Family Systems (3)
568 Families Organization and Function (3)
693 Topics in Child and Family Studies (1-3, R6)
569 Family Gerontology (3)

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
<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>306</td>
<td>Immunohematology (4)</td>
<td>The study of blood component therapy</td>
<td>PREQ 303, 304, CLS major</td>
</tr>
<tr>
<td>307</td>
<td>Medical Mycology (2)</td>
<td>Superficial and systemic mycological diseases and methods of isolation and identification</td>
<td>PREQ Junior standing in CLS</td>
</tr>
<tr>
<td>308</td>
<td>Advanced Hematology (3)</td>
<td>Hematological states involving classification of anemias, leukemias, enzyme deficiencies, platelet anomalies, and coagulation disorders</td>
<td>PREQ 303</td>
</tr>
<tr>
<td>309</td>
<td>Clinical Biochemistry (3)</td>
<td>Clinical parameters measuring the biochemical makeup of body fluids and results of lab tests related to disease states</td>
<td>PREQ CHEM 361</td>
</tr>
<tr>
<td>406</td>
<td>Laboratory Management (2)</td>
<td>Organization and administration of the clinical laboratory</td>
<td>PREQ CLS major</td>
</tr>
<tr>
<td>480</td>
<td>Independent Study (1-2)</td>
<td></td>
<td>PREQ Permission of instructor</td>
</tr>
<tr>
<td>485</td>
<td>Clinical Practicum in Urinalysis (2)</td>
<td></td>
<td>PREQ 301</td>
</tr>
<tr>
<td>486</td>
<td>Clinical Practicum in Hematology (3-5)</td>
<td></td>
<td>PREQ 308</td>
</tr>
<tr>
<td>487</td>
<td>Clinical Practicum in Blood Banking and Serology (3-5)</td>
<td></td>
<td>PREQ 306</td>
</tr>
<tr>
<td>488</td>
<td>Clinical Practicum in Microbiology (3-5)</td>
<td></td>
<td>PREQ 302, 305, 307</td>
</tr>
<tr>
<td>489</td>
<td>Clinical Practicum in Clinical Chemistry (3-5)</td>
<td></td>
<td>PREQ 309</td>
</tr>
<tr>
<td>140</td>
<td>Fashion Analysis (3)</td>
<td>The aesthetic, functional, and economic aspects of fashion apparel creation and selection</td>
<td></td>
</tr>
<tr>
<td>141</td>
<td>Clothing Selection and Construction (3)</td>
<td>Principles and techniques, fitting, altering, and constructing commercial patterns</td>
<td>2 Lecture, 3 Lab</td>
</tr>
<tr>
<td>242</td>
<td>Textiles (3)</td>
<td>Construction, properties, recommended uses and care of fibers, yarns, and fabrics, applications to consumer purchasing and use of clothing and household textiles</td>
<td></td>
</tr>
<tr>
<td>243</td>
<td>Apparel Quality Analysis (3)</td>
<td>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</td>
<td></td>
</tr>
<tr>
<td>245</td>
<td>Dynamics of the Fashion Industry (3)</td>
<td>Comprehensive survey of the scope and operation of the fashion industry</td>
<td></td>
</tr>
</tbody>
</table>
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)
484 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 Communication Media (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  

301 Writing for Communication Media (3)
Elements of news, news values, basic interviewing techniques, writing principles and fundamentals, styles used in journalism, broadcasting, advertising, and public relations  

350 Communication Theory (3)
Survey of theoretical genres used across communication disciplines

351 Communication Research (3)
This course is an introduction to the methods and practices of communication research  

389 Cooperative Education in Communications (1 or 3, R 9)
See Cooperative Education Program

401 Editing for Communication Media (3)
Elements of critical thinking and analysis fundamental to the editorial process in communication media

465 Communications Ethics and Responsibilities (3)
The legal and moral responsibilities of communicators in the communication industry

483 Internship in Communications (3, R9)
Work experience in the communication industry  

494 Communication Projects (1-3, R6)
Practical experience, performance, research in debate, forensics, film, electronic and print media

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

352 Writing for Broadcast (3, R6)
Writing commercials, public service announcements, station promotions, and short educational/entertainment features for radio and television  

354 Radio Production I (3)  
Practical course in production of radio commercials, public-service materials, and news actualities  
PREQ CMCR 301  COREQ CMEM 352  2 Lecture, 2 Lab

355 Television Production I (3)  
Producing and directing various television programs and productions, emphasis on studio operations  
PREQ CMCR 301  COREQ CMEM 352  1 Lecture, 4 Lab

356 Electronic Media Law and Regulation (3)  
This course is intended to help students understand the major issues and regulations facing the electronic media industry  
PREQ CMCR 301

450 Directing for the Camera (3)  
The art of directing on-camera performances  
PREQ 355  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

454 Radio Production II (3)  
Editing and related technical skills  
PREQ 354 or permission of instructor  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  1 Lecture, 4 Lab

456 Broadcast Operations (3)  
Principles of management in radio, television, and cable at the local and network levels  
PREQ 356

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 354 or 355  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)

Communication—Human Communication (CMHC)

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 (OCC) marks
154 Professional Speaking (3)
Advanced principles of public communication skills as related to professional speaking  
PREQ CMCR 250

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

Graduate Course
593 Selected Topics (3)

Communication Training and Development (CMTD)

315 Organizational Communication (3)
Channels of oral communication in complex organizations, and organizational influences on communication

316 Communication Training and Development (3)
This course provides an introduction to the theory, methods, and techniques of communication training and development  
PREQ 315 or permission of instructor

412 Small Group Communication (3)
Techniques for participation in small groups, roles of group leader and participant, practice in problem-solving deliberation  
PREQ 315 and 316 or permission of instructor

413 Conflict Resolution (3)
Overview of the theories and applied techniques of conflict resolution, emphasis in acquiring specific conflict resolution skills in group, interpersonal, organizational, and intercultural contexts  
PREQ 315 or permission of instructor

493 Selected Topics in Communication Training and Development (3, R9)
Study in a special interest in communication training and development

Communication—Print Media (CMPM)

302 Reporting of Public Affairs (3, R6)  
Advanced reporting course on selected public affairs topics  
PREQ CMCR 301

303 Advertising and Public Relation 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 Permission of the instructor

493 Selected Topics in Print Media (3, R9)
Study in a special area of interest in print media

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

365 Public Relations Case Studies (3)
Analysis and critique of the theories, strategies and factors used in classic and
contemporary public relations campaigns and programs
PREQ 360

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

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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>140</td>
<td>Acting I (3)</td>
<td>Introduction to the basic principles of acting</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>231</td>
<td>Stagecrafts I (3)</td>
<td>Introduction to theatre crafts and technology</td>
<td>PREQ 131</td>
<td>3</td>
</tr>
<tr>
<td>270</td>
<td>Theatre Arts Workshops I (1-3, R6)</td>
<td>Practical experience performance crews in theatre productions</td>
<td>PREQ Permission of instructor</td>
<td>2, 2 Lab</td>
</tr>
<tr>
<td>300</td>
<td>Dramatic Literature and Criticism I (3)</td>
<td>Dramatic structure, interpretation, and evaluation of masterpieces, Greek period to 1700</td>
<td>PREQ 131</td>
<td>3</td>
</tr>
<tr>
<td>301</td>
<td>Dramatic Literature and Criticism II (3)</td>
<td>Dramatic structure, interpretation, and evaluation of masterpieces, 1700 to present</td>
<td>PREQ 300 or permission of instructor</td>
<td>3</td>
</tr>
<tr>
<td>330</td>
<td>Makeup II (1)</td>
<td>Three-dimensional makeup and mask building Project oriented, emphasis on portfolio preparation</td>
<td>PREQ 130</td>
<td>1</td>
</tr>
<tr>
<td>331</td>
<td>Stagecrafts II (3)</td>
<td>Continuation of CMTA 231 with emphasis on application to production</td>
<td>PREQ 131, 231</td>
<td>3</td>
</tr>
<tr>
<td>332</td>
<td>Introduction to Theatrical Design (3)</td>
<td>Principles and practices of design as applied to theatre Project oriented</td>
<td>PREQ 331</td>
<td>3</td>
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<tr>
<td>333</td>
<td>Scenic Technology (3)</td>
<td>Advanced theory and practice in technology associated with scenic construction, emphasis on preparation for supervision of a basic scene shop</td>
<td>PREQ 332</td>
<td>3</td>
</tr>
<tr>
<td>335</td>
<td>Lighting Technology (3)</td>
<td>Advanced theory and practices in technology associated with theatre lighting, emphasis on preparation for supervision of lighting crew</td>
<td>PREQ 332</td>
<td>3</td>
</tr>
<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</td>
<td>PREQ 332</td>
<td>3</td>
</tr>
<tr>
<td>340</td>
<td>Acting II (3)</td>
<td>Introduction to character analysis and styles</td>
<td>PREQ 131, 140</td>
<td>3</td>
</tr>
<tr>
<td>341</td>
<td>Acting III (3)</td>
<td>Advanced scene work for theatre majors</td>
<td>PREQ 340</td>
<td>3</td>
</tr>
<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</td>
<td>PREQ 140 or 340</td>
<td>2</td>
</tr>
<tr>
<td>346</td>
<td>Acting for the Camera II (3)</td>
<td></td>
<td>PREQ 345</td>
<td>3</td>
</tr>
</tbody>
</table>
350 Directing I (3)
- Survey and practical application of the basic theories of play directing  
  PREQ 131, 140, 231

351 Directing II (3)
- Directing colloquium production problems and solutions  
  PREQ 350

370 Theatre Arts Workshops II (1-3, R6)
- Practical experience, performance, leadership portions of theatre productions  
  PREQ 350
  Permission of instructor 3 lab per credit hour

389 Cooperative Education in Theatre Arts (1-3, R6)
- See Cooperative Education Program  
  PREQ Completed 60 hours and permission of department head

400 History of the Theatre I (3)
- 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

401 History of the Theatre II (3)
- 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

433 Scene Design (3)
- Theory and practice in the design of stage scenery  
  Project oriented, emphasis on portfolio preparation  
  PREQ 333

435 Lighting Design (3)
- Theory and practice in the design of stage lighting  
  Project oriented, emphasis on portfolio preparation  
  PREQ 335

437 Costume Design (3)
- Theory and practice in the design of theatrical costumes  
  Project oriented, emphasis on portfolio preparation  
  PREQ 337 or permission of instructor

441 Acting IV (3)
- In-depth character analysis and application  
  PREQ 341

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)
Theory, diagnosis, and treatment of fluency disorders in children and adults  PREQ 301, 370, 372, 471 or equivalent
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)
672 Language Disorders in Adults (3) 696 Seminar in Language (3)
673 Neurogenic Speech Disorders (3) 697 Seminar in Fluency (3)
674 Diagnostics (3) 698 Seminar in Voice (3)
676 Language Disorders in Children (3) 699 Thesis (3, R6)
678 Augmentative Communication Systems (3) 999 Continuing Research (2, R24)

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 (4)  
Problem-solving and algorithm development using an object-based programming language classes, selection, iteration, arrays, and generic classes  PREQ or COREQ MATH 146 or equivalent  3 Lecture, 2 Lab

151 Problem Solving and Programming II (4)  
Object-oriented program development and elementary data structures pointers and dynamic allocation, generic classes and inheritance, recursion, linked lists, stacks, and queues  PREQ 150  3 Lecture, 2 Lab
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 experience

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

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)
495 Capstone (3)
A seminar emphasizing social and ethical issues in computer science. The seminar includes a project with a written report and presentation that demonstrates understanding of computer science principles. **PREQ**: Senior standing.

**Graduate Courses**

- 552 Advanced Computer Architecture (3)
- 555 Computer System Performance Analysis (3)
- 560 Compiler Construction II (3)
- 564 Microcomputer Development (3)
- 565 Computer Networks (3)
- 568 Artificial Intelligence (3)
- 593 Topics in Computer Science (1-6, R6)
- 600 Computer Literacy (3)
- 601 Logo (3)
- 602 Structured Basic (3)
- 606 Applications to the K-8 Curriculum (3)
- 610 Computing Concepts in Programming (3)
- 611 Data Structures (3)
- 612 Introduction to Computer Systems (3)
- 613 Organizations of Programming Languages (3)
- 614 Introduction to Computer Organization and Architecture (3)
- 616 Applications to the Mathematics Curriculum-Grades 9-12 (3)
- 617 Computers in Secondary Education (3)
- 618 Computer-Assisted Learning (3)

**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.

**Graduate Courses**

- 600 Individual and Group Helping Skills (3)
- 601 Professional Orientation (1)
- 605 The Helping Relationship (3)
- 610 Family Counseling (3)
- 615 Multicultural Counseling (3)
- 617 Substance Abuse Counseling (3)
- 620 Counseling Children (3)
- 623 Introduction to Community Counseling (2)
- 625 Counseling Developmental Perspectives (3)
- 630 Theories of Counseling (2)
- 631 Techniques of Individual Counseling (1)
- 633 Crisis Intervention Counseling (3)
- 635 Group Methods in Counseling (3)
- 640 Measurement and Appraisal in Counseling (3)
- 645 Consultation and Collaboration (3)
- 650 Career Development (3)
- 655 Career Counseling (3)
- 660 School Counseling Program Development (2)
- 665 Implementing School Counseling Program (3)
- 667 The DSM and Effective Treatment Planning in Counseling (3)
- 670 Research in Counseling (3)
- 680 Independent Study in Counseling (3)
- 686 Practicum in Counseling (3)
- 687 Internship in Counseling (3, R6)
- 695 Seminar in Counseling (3)
- 699 Thesis (3, R6)
- 730 Advanced Theory and Techniques in Counseling (3)
- 784 Internship in Counseling (3)
- 786 Advanced Practicum in Counseling (3)
- 999 Continuing Research (2, R24)

**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

360 Security Systems (3)
The role of private institutional security concerns. Physical security, loss prevention,
technology and the security profession are examined.
PREQ 250

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

450 Violence in American Society (3)
Theories on the causation, manifestations, prevention, and treatment of violent behav-
ior. International, national, and regional constructs of violence are discussed
PREQ 250
460 Drug Abuse (3)
An examination of drugs of abuse and the evolution of drug laws, law enforcement, and correctional responses for drug offenders

470 Criminal Justice Policy (3)
The origins and outcomes of criminal justice policy The role of politics, media, and bureaucracy are examined PREQ 250, 350

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)
999 Continuation Research (2, R24)
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. (P1b)

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 energy 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**

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>600</td>
<td>Theory and Foundations of School Administration</td>
<td>3</td>
</tr>
<tr>
<td>610</td>
<td>The Principalship</td>
<td>3</td>
</tr>
<tr>
<td>680</td>
<td>Problems in School Administration (1, R3)</td>
<td></td>
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<tr>
<td>681</td>
<td>Independent Study</td>
<td>1</td>
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<tr>
<td>684</td>
<td>Elementary Principal Internship (l)</td>
<td></td>
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<tr>
<td>685</td>
<td>Secondary Principal Internship (l)</td>
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<tr>
<td>695</td>
<td>Seminar in the Principalship (2)</td>
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<td>700</td>
<td>The Superintendent</td>
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<tr>
<td>710</td>
<td>(EDHE 710) Administration of Two-Year Colleges</td>
<td>(2)</td>
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<tr>
<td>783</td>
<td>Internship in School Administration (2)</td>
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<td>795</td>
<td>Seminar in School Administration (2)</td>
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### Educational Leadership (EDL)

**Graduate Courses**

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<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>611</td>
<td>Educational Organizations (3)</td>
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<tr>
<td>612</td>
<td>Leadership Theory</td>
<td>3</td>
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<td>620</td>
<td>School Law (3)</td>
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<td>630</td>
<td>School Finance and Business Management (3)</td>
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<td>640</td>
<td>School Plant Planning and Management (2)</td>
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<td>650</td>
<td>School Personnel Administration (3)</td>
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<td>660</td>
<td>School-Community Relations (3)</td>
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<td>686</td>
<td>School Site Internship I (3)</td>
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<td>687</td>
<td>School Site Internship II (3)</td>
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<td>693</td>
<td>Topics in Administration (1, R3)</td>
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<td>705</td>
<td>Leadership for Educational Programs (3)</td>
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<td>720</td>
<td>The Politics of Educational Decision Making (3)</td>
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<td>731</td>
<td>Policy Development and Analysis (3)</td>
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<td>732</td>
<td>Computer Applications in Educational Administration (3)</td>
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<td>785</td>
<td>Internship in Supervision (2)</td>
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<td>Seminar in Supervision (2)</td>
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<td>800</td>
<td>Advanced Leadership Theory (3)</td>
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<td>810</td>
<td>Behavior and Management of Educational Organizations (3)</td>
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<td>883</td>
<td>Internship in Rural School Leadership I (1-3, R3)</td>
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<td>Internship in Rural School Leadership II (1-3, R3)</td>
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<td>885</td>
<td>Internship in Rural School Leadership III (1-3, R3)</td>
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<td>Advanced Seminar in Instructional Leadership (3)</td>
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<td>896</td>
<td>Seminar in School Law (3)</td>
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<td>898</td>
<td>Doctoral Seminar in Educational Leadership (3)</td>
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<tr>
<td>899</td>
<td>Dissertation in School Leadership (3, R12)</td>
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<tr>
<td>999</td>
<td>Continuing Research (2, R24)</td>
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### Educational Supervision (EDSU)

**Graduate Courses**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>605</td>
<td>Principles of Supervision (3)</td>
<td></td>
</tr>
<tr>
<td>615</td>
<td>Techniques of Supervision (3)</td>
<td></td>
</tr>
<tr>
<td>620</td>
<td>School-Based Instructional Leadership (3)</td>
<td></td>
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<tr>
<td>630</td>
<td>School Improvement (3)</td>
<td></td>
</tr>
<tr>
<td>635</td>
<td>Supervision of the Novice Teacher (3)</td>
<td></td>
</tr>
<tr>
<td>680</td>
<td>Problems in Supervision (1, R3)</td>
<td></td>
</tr>
<tr>
<td>685</td>
<td>Internship in Supervision (2)</td>
<td></td>
</tr>
<tr>
<td>693</td>
<td>Topics in Supervision (1, R3)</td>
<td></td>
</tr>
</tbody>
</table>

### Electronics Engineering Technology (EET)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>141</td>
<td>Electronic Drafting (1)</td>
<td>2 Lab</td>
</tr>
<tr>
<td></td>
<td>Study of drafting and graphics relating to the field of electronics</td>
<td></td>
</tr>
<tr>
<td>142</td>
<td>Electronic Fabrication (1)</td>
<td>2 Lab</td>
</tr>
<tr>
<td></td>
<td>Study of methods used to assemble and construct electronic circuits and equipment</td>
<td></td>
</tr>
<tr>
<td>231</td>
<td>Circuit Analysis I (4)</td>
<td>3 Lecture, 2 Lab</td>
</tr>
<tr>
<td></td>
<td>Fundamental electrical theory involving DC/AC circuits</td>
<td>Topics include series, parallel, series-parallel networks, electromagnetic theory, transient circuit analysis, introduction to AC electricity</td>
</tr>
<tr>
<td>232</td>
<td>Circuit Analysis II (4)</td>
<td>3 Lecture, 2 Lab</td>
</tr>
<tr>
<td></td>
<td>Fundamentals of DC/AC circuits</td>
<td>Topics include AC series, parallel, series-parallel circuits, analysis techniques, network theorems, resonance, and transformers</td>
</tr>
<tr>
<td>241</td>
<td>Digital Integrated Circuits I (3)</td>
<td>2 Lecture, 2 Lab</td>
</tr>
<tr>
<td></td>
<td>Study of combinational and sequential digital circuits using integrated circuits techniques</td>
<td>COREQ 231</td>
</tr>
<tr>
<td>301</td>
<td>DC/AC Electricity (3)</td>
<td>2 Lecture, 2 Lab</td>
</tr>
<tr>
<td></td>
<td>Direct current and alternating current electricity</td>
<td>Topics include Ohm’s Law, series, parallel and series-parallel circuits, transformers and measurement techniques</td>
</tr>
</tbody>
</table>
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 Applications (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.

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 Guiding Children's Behavior and Managing Classrooms (2)
Methods for managing classrooms and helping students from kindergarten to grade 9 develop self discipline 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)
606 Elementary Language Arts 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)
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)
701 Seminar in Elementary School Curriculum (3)
714 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)
Pathophysiology, assessment and treatment of respiratory emergencies, fluid and electrolyte imbalance, manifestations and principles of treatment of shock  PREQ 340, HSCC 370  COREQ 361 2 Lecture

361 Advanced Emergency Medical Techniques (1)
Traditional techniques of intravenous and respiratory therapy, introduction to new techniques  PREQ 340, HSCC 370  COREQ 360 3 Lab

370 Medical Emergencies (3)
Assessment and advanced life-support for non-traumatic medical emergencies  PREQ 340 and HSCC 370 or permission of program director

382 Clinical Practicum I (1)
Development of clinical competency in patient assessment skills  PREQ 340 and permission of program director 4 Lab

389 Cooperative Education in EMC (1 or 3, R12)
See Cooperative Education Program

410 Trauma Management (3)
Assessment and management of traumatic emergencies, including patient access, stabilization, and transport, radio communications and use of ALS protocols  PREQ 360 2 Lecture, 3 Lab

420 Maternal and Child Emergency Care (3)
Obstetrical, gynecological, and pediatric emergencies  PREQ 340 and HSCC 370 or permission of program director

430 Special Needs Patients (2)
Assessment and emergency care of the elderly and handicapped  PREQ 360 or permission of program director

445 EMC Systems Management (3)
Planning and managing an emergency medical services system  Emphasis on demand analysis, staffing, medical direction, reimbursement, capital investment, and cost control  PREQ HSM 310

451 Advanced ECG Interpretation (1)
Advanced electrocardiography including 12-lead ECG interpretation  PREQ 350, 351

452 Advanced Cardiac Life Support (1)
The American Heart Association course leading to certification in advanced cardiac life support  PREQ 483 or permission of program director

482 Independent Study in Emergency Medical Care (2)
PREQ  Permission of instructor

483 Clinical Practicum II (1-4)
Experience to develop clinical competency in advanced life support assessment and skills  PREQ 350, 360, 370 12 Lab hours

484 Clinical Practicum III (2)
Advanced clinical rotations in a hospital setting  PREQ 420, 483 8 Lab

485 MICU Practicum (1-3)
Supervised field experience on mobile intensive care units  PREQ 410, 420, 483 9 Lab
487 Advanced MICU Practicum (2, R8)
Supervised field experience on mobile intensive care units to review, update, and maintain skills. PREQ 485 or current paramedic certification, permission of program director. 8 Field.

488 EMC Management Internship (2, R4)
Supervised management experience with an approved emergency medical service provider or regulator. PREQ EMC major and permission of program director. 5 weeks, full time.

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 mechanical 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 eighteenth century, emphasizing backgrounds and styles characteristic of each period.
252 Survey of English Literature II (3)
Major periods of English literature from the nineteenth 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

390 The Bible as Literature (3)
A study of the Bible from a literary perspective. PREQ 101, 102, and the sophomore general education literature requirement

401 Writing for Careers (3)
Theory and application of rhetoric in professional communication, emphasis on triad of author, subject, and audience. Practical assignments: memos, letters, resumes, reports, and persuasive messages

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)
Theoretical and practical basis for designing and teaching composition course, analysis of rhetorical, cognitive, and linguistic approaches. Practical, research-based techniques and issues. Offered every spring semester

415 Linguistics (3)
Introduction to sound systems, word systems, sentence patterns, social/regional dialects, psycholinguistics, child/adult language acquisition, historical linguistics, linguistic reconstruction, neurolinguistics, pragmatics, language typology. PREQ Permission of instructor

416 Teaching English as a Second Language (3)
Current trends/strategies in teaching English to non-native speakers. Aspects of American culture that affect language learning. PREQ ENGL 515 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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>441</td>
<td>The Age of Pope, Swift, and Johnson (3)</td>
<td>Selections from the works of Pope, Swift, Johnson, and their contemporaries</td>
</tr>
<tr>
<td>450</td>
<td>Major British Writers (3, R9)</td>
<td>Selected works of one or more important authors from a single historic period</td>
</tr>
<tr>
<td>451</td>
<td>Nineteenth-Century British Writers (3)</td>
<td>The poetry and fiction of the major Romantic and Victorian authors, including Wordsworth, Coleridge, Keats, Shelley, Tennyson, Browning, Arnold, and Dickens</td>
</tr>
<tr>
<td>455</td>
<td>The English Novel (3)</td>
<td>Selected 18th- and nineteenth-century novels of such writers as Defoe, Richardson, Fielding, Smollet, Austen, Scott, Dickens, Thackeray, and Hardy</td>
</tr>
<tr>
<td>463</td>
<td>American Literature Since 1945 (3)</td>
<td>Post-World War II American literature and its influences from other nationalities, especially those of Latin America and Canada</td>
</tr>
<tr>
<td>464</td>
<td>Native American Literature (3)</td>
<td>Ancient oral tradition and contemporary works. Perceptions of culture, environment, and time observed in “old ways” stories, how influences emerge in “new way” poetry and fiction.</td>
</tr>
<tr>
<td>470</td>
<td>Twentieth-Century Commonwealth Literature (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>472</td>
<td>Modern Fiction (3)</td>
<td>How modern texts move away from traditionally “representational” ways of developing plot, character, setting, and point of view. Works examined in context of current criticism.</td>
</tr>
<tr>
<td>473</td>
<td>Modern Drama (3)</td>
<td>Introduction to major figures of theatrical production from 1875 to contemporary, from realistic social dramas to surrealist dream plays. Includes “acting out” and field trips.</td>
</tr>
<tr>
<td>475</td>
<td>The American Novel (3)</td>
<td>Selected novels of major American writers</td>
</tr>
<tr>
<td>477</td>
<td>Literature and Gender (3)</td>
<td>Study of literature by or about women, the relationship of men and women in literature, feminist issues from a literary perspective.</td>
</tr>
<tr>
<td>478</td>
<td>Film as Literature (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 (3, R6)</td>
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</tr>
<tr>
<td>480</td>
<td>Studies in English (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 (3, 3, 3)</td>
<td>Practical experience in a writing-related setting. S/U grading. PREQ 303 9 hours.</td>
</tr>
<tr>
<td>484</td>
<td>Practical experience in Writing-related setting</td>
<td>IFSOS 594 9 hours.</td>
</tr>
</tbody>
</table>
493 Topics in Creative Writing (1-3, R6)
Study and practice of writing in a special area, e.g., the novel, drama, science fiction, juvenile literature PREQ 303 or permission of instructor

494 Special Topics in Advanced American English for Non-Native Speakers (1, R6)
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.

496 Seminar in Comparative Literature (3)
Literary classics in translation

497 Senior Seminar in Writing (3)
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

498 Senior Seminar in Literature (3)
Capstone course for the literature concentration. PREQ Senior standing

Graduate Courses
501 Writing for Careers (3)
502 Technical Writing for Business and Industry (3)
514 Fundamentals of Teaching Composition (3)
515 Linguistics (3)
516 Teaching English as a Second Language (3)
517 Methods of Teaching Literature (3)
550 Major British Writers (3, R9)
564 Native American Literature (3)
571 Modern Poetry (3)
572 Modern Fiction (3)
573 Modern Drama (3)
580 Studies in English (3, R6)
589 Co-op Writing and Editing (3, R6)
600 Selected Ethnic Literature (3)
601 Gender Studies (3)
602 African-American Literature (3)
606 Nonfiction Writing (3)
607 Breaking into Publishing (3)
608 Fiction Writing (3)
609 Poetry Writing (3)
610 History of Rhetoric (3)
611 Mountain Area Writing Project (6)
612 The Mountain Area Writing Project (Level 2) (3)
613 Stylistics (3)
614 Contemporary Rhetoric (3)
615 Linguistic Perspectives (3)
617 Historical Linguistics (3)
618 Methods of Literary Research and Bibliography (3)
619 English Grammars (3)
620 Chaucer (3)
621 Medieval Language and Literature (3)
622 Anglo-Saxon Language and Literature (3)
631 Shakespeare (3)
632 Renaissance Literature (3)
641 Milton (3)
642 Seventeenth Century Poetry and Prose (3)
643 Literature of the Enlightenment (3)
650 Modern American Literature (3)
651 American Realism through Modernism (3)
652 Victorian Literature (3)
653 Nineteenth Century British Fiction (3)
660 Early American Literature through Romanticism (3)
661 American Realism through Modernism (3)
662 American Post-Modern Literature (3)
670 Early Twentieth Century British Literature (3)
671 Late Twentieth Century British Literature (3)
672 Twentieth Century Genre (3)
674 Pre-Twentieth Century Criticism and Theory (3)
675 Twentieth Century Literary Criticism and Theory (3)
699 Thesis Research (3, R12)
999 Continuing Research (2, R24)

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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Pre-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>330</td>
<td>Food Protection and Sanitation (4)</td>
<td>4</td>
<td>Principles and techniques applied to the protection of food and milk for human consumption 3 Lecture, 2 Lab</td>
<td></td>
</tr>
<tr>
<td>340</td>
<td>Environmental Health Practices (3)</td>
<td>3</td>
<td>Environmental protection through the study of environmental topics, control methods, and techniques to enhance practice  PREQ 230</td>
<td></td>
</tr>
<tr>
<td>375</td>
<td>Environmental Toxicology (3)</td>
<td>3</td>
<td>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</td>
<td></td>
</tr>
<tr>
<td>389</td>
<td>Cooperative Education in Environmental Health (1 or 3, R12)</td>
<td>1-3</td>
<td>See Cooperative Education Program</td>
<td></td>
</tr>
<tr>
<td>430</td>
<td>Medical and Veterinary Entomology (4)</td>
<td>4</td>
<td>Vectors responsible for arthropod-borne diseases of medical and veterinary importance  PREQ  HSCC 389</td>
<td></td>
</tr>
<tr>
<td>440</td>
<td>Air Quality Control (4)</td>
<td>4</td>
<td>Evaluating and monitoring air quality, effects of pollution control and lab procedures in air quality investigation  PREQ  Environmental health major 3 Lecture, 2 Lab</td>
<td></td>
</tr>
<tr>
<td>457</td>
<td>Industrial Hygiene (3)</td>
<td>3</td>
<td>Health aspects of industry relative to the environmental factors of shelter, waste, and air  PREQ  Environmental health major or permission of instructor</td>
<td></td>
</tr>
<tr>
<td>458</td>
<td>Environmental Regulation and Law (3)</td>
<td>3</td>
<td>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</td>
<td></td>
</tr>
<tr>
<td>460</td>
<td>Senior Seminar in Environmental Health (1)</td>
<td>1</td>
<td>Exploration of current issues in environmental health  PREQ  Senior status</td>
<td></td>
</tr>
<tr>
<td>470</td>
<td>Principles of Epidemiology (3)</td>
<td>3</td>
<td>Principles and applications to investigation, control, and prevention of disease  PREQ  Environmental health major or permission of instructor</td>
<td></td>
</tr>
<tr>
<td>475</td>
<td>Environmental Program Administration (3)</td>
<td>3</td>
<td>Intensive study of regulatory program administration, focus on development, implementation, and evaluation of programs in the governmental sector</td>
<td></td>
</tr>
<tr>
<td>480</td>
<td>Independent Study in Environmental Health (1-2, R4)</td>
<td>1-2</td>
<td>9 weeks, full-time</td>
<td></td>
</tr>
<tr>
<td>483</td>
<td>Environmental Health Internship (3, R6)</td>
<td>3</td>
<td>Supervised experience in an approved clinical or environmental health facility  PREQ  Environmental health major or permission of instructor</td>
<td></td>
</tr>
<tr>
<td>493</td>
<td>Topics in Environmental Health (1-3)</td>
<td>1-3</td>
<td>Studies in special areas of interest in environmental health  PREQ 230, permission of instructor</td>
<td></td>
</tr>
</tbody>
</table>

**Graduate Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Pre-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>570</td>
<td>Principles of Epidemiology (3)</td>
<td>3</td>
<td>Hazardous Materials and Waste Management (3)</td>
</tr>
<tr>
<td>575</td>
<td>Environmental Program Administration (3)</td>
<td>3</td>
<td>Loss Control through Industrial Hygiene (3)</td>
</tr>
</tbody>
</table>

**Family and Consumer Sciences (FCS)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>171</td>
<td>Orientation (1)</td>
<td>1</td>
<td>The home economics profession, plan for personal and professional growth, career opportunities  S/U grading</td>
</tr>
</tbody>
</table>
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)
484 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

514 (IET 514) Career Exploration (3) 620 Contemporary Consumer Issues (3)
593 Topics in Family and Consumer Sciences (1-3, R6) 652 Computer Applications (3)
601 Professional Issues (3) 654 Creative Ergonomics (3)
602 (IET & OA 602) Vocational Education History and Philosophy (3) 680 Independent Study (1-3, R6)
610 (IET 610) Vocational/Technical Evaluation (3) 681 Research Project (3)
611 Designing Educational Programs (3) 693 Topics in Family & Consumer Sciences (1-3, R6)
699 Thesis (3, R6)
999 Continuing Research (2, R24)

Finance (FIN)

300 Security Analysis (3)
Evaluation of company fundamentals technical analysis of the stock market, interpretation and utilization of charts, bonds, and mortgage-backed securities PREQ ACCT 252 and ECON 232

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)
Law of agency, theories of value, real estate finance  PREQ 302

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)
602 Investment Analysis and Portfolio Management (3)
603 Advanced Financial Analysis (3)
682 Research Project in Finance (3, R6)
693 Topics in Finance (3, R6)

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 Pre-forestry 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)
232 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)
305 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)
322 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 twelfth-century, course division at the eighteenth 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
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)
- 540 Topics in Regional Geography (3, R12)
- 544 Political Geography (3)
- 560 Urban and Regional Land Use Planning (3)
- 562 Introduction to Urban Geography (3)
- 564 Industrial Location and Community Development (3)
- 591 Topics in Geography (1-3, R6)
- 593 Special Problems (1-3, R6)
- 593 Special Problems in Geography (3, R6)

**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

330 (PHYS 330) **Geophysics (4)**
The physics of the Earth: Topics include theory and applications of gravity, magnetics, electricity, and seismicity to environmental and tectonic problem-solving in geology; Field-oriented lab problems and applications  
PREQ PHYS 130 or 230  
3 Lecture, 3 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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Pre-req</th>
<th>Credits</th>
<th>Lecture</th>
<th>Lab</th>
<th>Field Trips</th>
</tr>
</thead>
<tbody>
<tr>
<td>371</td>
<td>Structural Geology (4)</td>
<td>Descriptive structural geology, emphasis on outcrop and regional scale deformational features, use of maps and graphic techniques in structural analysis</td>
<td>PREQ 150</td>
<td>3</td>
<td>2</td>
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<tr>
<td>389</td>
<td>Cooperative Education in Geology (1 or 3, R15)</td>
<td>See Cooperative Education Program</td>
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<tr>
<td>420</td>
<td>Sedimentation (3)</td>
<td>The origin, properties, and classification of sediments and sedimentary rocks</td>
<td>PREQ 150 or COREQ 252 or permission of instructor</td>
<td>2 Lecture, 2 Lab</td>
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<tr>
<td>421</td>
<td>Stratigraphy (3)</td>
<td>Sedimentary depositional environments and their relationships in time and space</td>
<td>PREQ 420</td>
<td>2 Lecture, 2 Lab</td>
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<tr>
<td>441</td>
<td>Economic Mineral Resources (3)</td>
<td>Formation of and exploration for economic mineral deposits, technologic, economic, and political aspects of exploitation, distribution of production and reserves</td>
<td>PREQ Permission of instructor</td>
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<tr>
<td>451</td>
<td>Analytical Methods in Geology (3)</td>
<td>Techniques used for the preparation of mineral and rock specimens for chemical analyses and/or instrumentation for field collection of data</td>
<td>PREQ Permission of instructor</td>
<td>1 Lecture, 4 Lab</td>
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<tr>
<td>471</td>
<td>Tectonics (3)</td>
<td>History and development of tectonic concepts, geometry and kinematics of plate mosaic, evolution of modern and ancient orogenic belts</td>
<td>PREQ 352, 371, or permission of instructor</td>
<td>2 Lecture, 2 Lab, field trips</td>
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<tr>
<td>491</td>
<td>Topics in Geology (1-3, R6)</td>
<td></td>
<td>PREQ Junior standing, permission of instructor</td>
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<tr>
<td>493</td>
<td>Special Problems in Geology (2, R4)</td>
<td>Supervised research, written and oral reports</td>
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<tr>
<td>495</td>
<td>Senior Seminar in Geology (3)</td>
<td>Readings in current topics in geology Written and oral presentation of student library research</td>
<td>PREQ Senior standing or permission of instructor</td>
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<tr>
<td>498</td>
<td>Senior Thesis (2, R4)</td>
<td>An original research project culminating in a written thesis and public presentation of results Projects may last 1 or 2 semesters</td>
<td>Senior standing</td>
<td>4 Lab</td>
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**Graduate Courses**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Lecture</th>
<th>Lab</th>
<th>Field Trips</th>
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</thead>
<tbody>
<tr>
<td>541</td>
<td>Economic Mineral Resources (3)</td>
<td>3</td>
<td></td>
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<tr>
<td>551</td>
<td>Analytical Methods in Geology (3)</td>
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<tr>
<td>591</td>
<td>Topics in Geology (1-3, R6)</td>
<td>1-3</td>
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<tr>
<td>593</td>
<td>Special Problems in Geology (2, R4)</td>
<td>2</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>
<td>1-3</td>
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**German (GER)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Lecture</th>
<th>Lab</th>
<th>Drill</th>
<th>Field Trips</th>
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</thead>
<tbody>
<tr>
<td>101</td>
<td>German Language and Culture (3)</td>
<td>3</td>
<td></td>
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<tr>
<td>110</td>
<td>Intensive German I (6)</td>
<td>6</td>
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</tbody>
</table>

Elements of understanding, speaking, reading, and writing German, grammatical concepts, lab practice required (P3a)

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 nineteenth-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 nineteenth-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, 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 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 transmit- 
ted 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, develop- 
ment, 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)
Study of disease processes with emphasis on etiology, signs and symptoms, complica- 
tions, and current treatment  
PREQ  BIOL 291, 292 and HSCC 220, 260
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
</table>
| 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) | Computing, reporting, displaying, interpreting, and analyzing healthcare statistics  
Principles of applied research for the health information profession  
COREQ 404 |
| 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) | Basic CPT-4 coding for ambulatory patients  
Advanced ICD-9-CM coding for prospective payment  
PREQ 404  
COREQ 485, 486, 495  2 Lecture, 3 Lab |
| 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)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>130</td>
<td>Introduction to Health Professions (3)</td>
<td>Survey of health specialties, the health sciences, and the preparation, values, and perspectives of health professionals, roles of members of the healthcare team</td>
</tr>
</tbody>
</table>
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/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/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

330 Legal and Legislative Aspects of Health Care (1-3)
The legal aspects of health care and legislative forces affecting it, impact on practitioners

370 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

389 Cooperative Education in Health Sciences (1 or 3, R15)
See Cooperative Education Program

Graduate Courses
Graduate courses are listed in the Graduate Catalog under Master of Health Sciences (MHS)

Health Services Management (HSM)

310 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

320 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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>440</td>
<td>Quality Management in Health Care Agencies (3)</td>
<td>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.</td>
</tr>
<tr>
<td>450</td>
<td>Financial Management in Health Care (3)</td>
<td>Selected knowledge and skills related to budgeting and the financial management of clinical departments and service units. PREQ: 320, 340, or permission of instructor.</td>
</tr>
<tr>
<td>470</td>
<td>Research Methodology and Analysis in Health Science (2)</td>
<td>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.</td>
</tr>
<tr>
<td>471</td>
<td>Research Project (1, R2)</td>
<td>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.</td>
</tr>
<tr>
<td>493</td>
<td>Special Topics (1-3)</td>
<td>Graduate Courses are listed in the Graduate Catalog under Master of Health Sciences (MHS).</td>
</tr>
</tbody>
</table>

**Higher Education (EDHE)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>431</td>
<td>Foundations of Adult Education (3)</td>
<td>Historical, sociological, psychological, and philosophical foundations of adult education, the nature and characteristics of adult learners, review of research.</td>
</tr>
<tr>
<td>531</td>
<td>Foundations of Adult Education (3)</td>
<td></td>
</tr>
<tr>
<td>605</td>
<td>The Two-Year College (3)</td>
<td></td>
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<tr>
<td>610</td>
<td>Two-Year College Instruction (3)</td>
<td></td>
</tr>
<tr>
<td>636</td>
<td>Two-Year College Curriculum Development (3)</td>
<td></td>
</tr>
<tr>
<td>683</td>
<td>Internship Two-Year College Administration I (2)</td>
<td></td>
</tr>
<tr>
<td>686</td>
<td>Practicum in Two-Year College Teaching (2)</td>
<td></td>
</tr>
<tr>
<td>689</td>
<td>Seminar on the Two-Year College (2)</td>
<td></td>
</tr>
<tr>
<td>710</td>
<td>Administration of Two-Year Colleges (2)</td>
<td></td>
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</table>

**History (HIST)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>105</td>
<td>History of Modern Western Civilization (3)</td>
<td>Western civilization from the Renaissance through the twentieth-century against the background of classical civilizations and the medieval period. (P5)</td>
</tr>
<tr>
<td>106</td>
<td>Modern American Institutions (3)</td>
<td>A consideration of the major American social, economic, and political institutions in the twentieth-century. (Pib)</td>
</tr>
<tr>
<td>107</td>
<td>World Cultures in Historical Perspective (3)</td>
<td>Comparison of Western culture and non-Western cultures, historical developments and their impact on the modern world. (P4)</td>
</tr>
<tr>
<td>221</td>
<td>European History to 1648 (3)</td>
<td>Social, cultural, economic, and political developments that shaped European civilization from earliest times through the Reformation.</td>
</tr>
<tr>
<td>222</td>
<td>European History Since 1648 (3)</td>
<td>Social, cultural, economic, and political developments that shaped European civilization since the Reformation.</td>
</tr>
<tr>
<td>231</td>
<td>American History to 1865 (3)</td>
<td></td>
</tr>
<tr>
<td>232</td>
<td>American History Since 1865 (3)</td>
<td></td>
</tr>
</tbody>
</table>
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 seventeenth-century, the age of aristocracy, industrial transformation and nineteenth-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 twentieth-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 twentieth-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, nineteenth-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

485 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

511 Western Imperialism, 1500 to the Present (3)
512 Early Modern Europe (3)
513 Europe in the Eighteenth-Century (3)
514 Europe in the Nineteenth-Century (3)
516 Europe in the Twentieth-Century (3)
531 Colonial America, 1492-1763 (3)
532 The Revolutionary Era, 1763-1800 (3)
533 The Young Republic, 1800-1848 (3)
534 Civil War and Reconstruction, 1848-1877 (3)
535 Emergence of Industrial America, 1877-1929 (3)
536 The United States Since 1929 (3)
542 African-American History (3)
543 The American South (3)
545 Cherokee History (3)
546 Southern Appalachian Culture (3)
551 American Women's History (3)
563 History of the Mexican Nation (3)
572 Local History and Genealogy (3)
573 Archives and Museum Management (3)
575 Historical Editing (3)
578 Historic Sites and Historic Preservation (3)
589 Cooperative Education in History (3)
593 Topics in History (3, R12)
595 American Historiography (3)
600 Readings in History I, II, III, IV (3, R6 per course)

Hospitality Management (HM)

130 Introduction to the Hospitality Industry (3)
Survey of management specialties in the industry, emphasis on food systems administration, current trends and problems

333 Quantity Foods (3)
Methods of quantity food production, planning, purchasing, storing, preparing, and serving foods  PREQ Permission of instructor  2 Lecture, 3 Lab

335 Lodging Management (3)
Functions of management applied to lodging operations, emphasis on procurement, principle, and techniques in hotel room division management  2 Lecture, 2 Lab  PREQ 130

338 Computer Applications in the Hospitality Industry (3)
Application of computer technology in the hospitality industry  PREQ 335 COREQ 333

339 Cost Control in the Hospitality Industry (3)
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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>389</td>
<td>Cooperative Education (1 or 3, R15)</td>
<td>See Cooperative Education Program</td>
</tr>
<tr>
<td>430</td>
<td>Food Systems Management (3)</td>
<td>Functions of management applied to food service systems, emphasis on food service equipment, layout and design, menu development, procurement, and production management. PREQ 333, COREQ MGT 300</td>
</tr>
<tr>
<td>431</td>
<td>Hospitality Marketing Management (3)</td>
<td>Application of marketing principles and practices in the hospitality industry, emphasis on consumer behavior, market analysis, marketing mix. PREQ 333, 335, MKT 301</td>
</tr>
<tr>
<td>433</td>
<td>Strategic Planning in the Hospitality Industry (3)</td>
<td>Application of theories and concepts of strategic management in hospitality management, cases in hospitality industry, domestic and multinational, are analyzed. PREQ 335, 339, 430, and 431</td>
</tr>
<tr>
<td>480</td>
<td>Independent Study (1-3, R6)</td>
<td></td>
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<tr>
<td>483</td>
<td>Internship (3, 3, 3)</td>
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<tr>
<td>484</td>
<td>Integration of theory and practice in a setting appropriate to the student's career field</td>
<td></td>
</tr>
<tr>
<td>485</td>
<td>S/U grading</td>
<td>PREQ Permission of instructor 9 hours per week per course</td>
</tr>
<tr>
<td>493</td>
<td>Topics (1-3)</td>
<td></td>
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</tbody>
</table>

**Graduate Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>532</td>
<td>Food Systems Management II (3)</td>
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</table>

**Human Resource Development (HRD)**

**Graduate Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>589</td>
<td>Cooperative Education in Human Resource Development (3)</td>
<td></td>
</tr>
<tr>
<td>605</td>
<td>Orientation to Human Resource Development (3)</td>
<td></td>
</tr>
<tr>
<td>610</td>
<td>Human Resource Development (3)</td>
<td></td>
</tr>
<tr>
<td>612</td>
<td>Instructional Design (3)</td>
<td></td>
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<tr>
<td>620</td>
<td>The Design and Use of Instructional Gaming Simulations (3)</td>
<td></td>
</tr>
<tr>
<td>660</td>
<td>Career Development/Management Systems (3)</td>
<td></td>
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<tr>
<td>670</td>
<td>Program Evaluation (3)</td>
<td></td>
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<tr>
<td>675</td>
<td>Managing the Human Resource Development Function (3)</td>
<td></td>
</tr>
<tr>
<td>683</td>
<td>Field Experience in Human Resource Development (3)</td>
<td></td>
</tr>
<tr>
<td>693</td>
<td>Topics in Human Resource Development (3, R6)</td>
<td></td>
</tr>
<tr>
<td>698</td>
<td>Seminar in Human Resource Development (3)</td>
<td></td>
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</tbody>
</table>

**Industrial Distribution (ID)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>230</td>
<td>Industrial Distribution (3)</td>
<td>The flow of industrial goods and services through the industrial distributor</td>
</tr>
<tr>
<td>360</td>
<td>Industrial Distribution Organization (3)</td>
<td>Survey of organizational structure in manufacturing industries</td>
</tr>
<tr>
<td>370</td>
<td>Product Management and Inventory Control (3)</td>
<td>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</td>
</tr>
<tr>
<td>479</td>
<td>Industrial Distribution Seminar (3)</td>
<td>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</td>
</tr>
</tbody>
</table>
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, IDSN 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

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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>510</td>
<td>Topics in CADD (3, R6)</td>
<td>3</td>
<td></td>
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<tr>
<td>514 (HE 514)</td>
<td>Career Exploration (3)</td>
<td>3</td>
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<tr>
<td>521</td>
<td>Ergonomics (3)</td>
<td>3</td>
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<tr>
<td>522</td>
<td>Advanced Polymer Technology (3)</td>
<td>3</td>
<td></td>
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<tr>
<td>524</td>
<td>Facilities Management and Maintenance (3)</td>
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<tr>
<td>534</td>
<td>Plant Layout (3)</td>
<td>3</td>
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<tr>
<td>560</td>
<td>Industrial Materials and Processes (3)</td>
<td>3</td>
<td></td>
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<tr>
<td>570</td>
<td>Advanced Electronics (3)</td>
<td>3</td>
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</tr>
<tr>
<td>589</td>
<td>Cooperative Education in Industrial Technology (3, R6)</td>
<td>3</td>
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<tr>
<td>593</td>
<td>Topics in Industrial Engineering Tech (1-3, R6)</td>
<td>1</td>
<td>3-6</td>
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<tr>
<td>602 (OA &amp; HE 602)</td>
<td>Vocational Education History and Philosophy (3)</td>
<td>3</td>
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<tr>
<td>603</td>
<td>Applied Research and Design of Experiments (3)</td>
<td>3</td>
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<tr>
<td>610 (HE 610)</td>
<td>Vocational/Technical Evaluation (3)</td>
<td>3</td>
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<tr>
<td>630</td>
<td>Trends in Industrial Education (3)</td>
<td>3</td>
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</tr>
<tr>
<td>632</td>
<td>Administration of Industrial Education (3)</td>
<td>3</td>
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<tr>
<td>636</td>
<td>Cooperative Vocational Education (3)</td>
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<td>650</td>
<td>Program Planning in Vocational/Technical Education (3)</td>
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<td>659</td>
<td>Independent Study (3, R6)</td>
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<td>695</td>
<td>Seminar in Industrial and Engineering Technology (1-3, R3)</td>
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<td>699</td>
<td>Thesis (3, R6)</td>
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<td>999</td>
<td>Continuing Research (2, R24)</td>
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</tbody>
</table>

**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 EET 301. 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 IET 152 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 nineteenth century

357 Contract Design I (4)
Fundamentals of interior planning with emphasis on commercial/institution environments, design methodology, floor plans, spatial concepts, elevations, 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

451 Kitchen and Bath Design I (3)
A focus beyond the elementary level on building construction related to kitchen design industry standards, design and layout, and presenting, selling, and installation  PREQ or COREQ  353 or permission of instructor  2 Lecture, 2 Lab

452 Kitchen and Bath Design II (3)
A focus beyond the elementary level on building construction related to bath design industry standards, design and layout, and presenting, selling, and installation  PREQ or COREQ  353 or permission of instructor  2 Lecture, 2 Lab

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  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 managing in modern organizations  COREQ HM 430 for HM majors

301 International Management (3)
Managerial functions and skills applied to the international business environment  PREQ  300
302 Labor-Management Relations (3)
Critical roles of labor unions, legislative bodies and government regulations, negotiation of collective bargaining agreements and dispute resolution  PREQ 300

304 Human Resource Management (3)
Staffing, training, evaluating, and rewarding employees, developing and implementing effective personnel programs  PREQ 300

305 Quantitative Business Analysis (3)
Models for decision-making in operations management, including forecasting, network analysis, queuing theory, and simulation  Problem-solving, total quality management and statistical process control are also introduced  PREQ ECON 235  COREQ 300

306 Behavioral Science in Organizations (3)
Examination of individual and collective human behavior in organizations  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 300 or 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)
Design of compensation systems based on economic, behavioral science, and public policy models  PREQ 304

407 Interpersonal Behavior (3)
Managerial interpersonal relationships, listening behavior, self-awareness  PREQ 300

480 Independent Research (3)
Supervised, student initiated research project  PREQ Permission of department head

483 Internship in Management (3, 3, 3)
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)
606 Quantitative Analysis for Business I (3)
607 Strategic Management (3)
608 Human Resource Administration (3)
609 The Collective Bargaining Process (3)
611 Production and Operations Management (3)
613 Management of International Operations (3)
614 Managerial Career Development (3)
682 Research Project in Management (3, R6)
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

493 Special Topics (1-3, R6)
PREQ Permission of instructor

Graduate Courses
536 Engineering Economic Analysis (3)
641 Quality Assurance (3)
642 Automated Manufacturing Systems (3)
648 Manufacturing Research and 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

389 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 (Non-marketing majors only)

406 Channels of Distribution (3)
Theory and concepts in channel management, emphasis on structural, operational, and leadership decisions. PREQ 301
International Marketing (3)
Problems, opportunities, and strategies in an international marketing environment, trade concepts and theories, cultural, political, legal, and financial constraints  PREQ 301

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

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

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

Topics in Marketing (1-3, R6)
PREQ Permission of department head

Graduate Courses
601 Marketing Management (3) 604 Marketing Communications (3)
602 Marketing Research (3) 682 Research Project in Marketing (3, R6)
603 Consumer Behavior (3) 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 consent of the director of mathematics 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 Credit not available for both MATH 144 and MATH 145  PREQ 130

145 Trigonometry (3)
Basic trigonometry, functions, identities, graphs, solution of equations and triangles, complex numbers, analytical trigonometry Credit not available for both MATH 144 and MATH 145  PREQ 130 or consent of the director of mathematics 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 consent of the director of mathematics placement
153 Calculus I (4)
Limits, continuity, derivatives, and integrals of algebraic and trigonometric functions
with applications  PREQ 145 and 146, or consent of the director of mathematics
placement

170 Applied Statistics (3)
Descriptive statistics, exploratory data analysis, probability distributions, correlation,
regression, estimation, and hypothesis testing  PREQ 100 or consent of the director of
mathematics placement

230 Theory of Arithmetic I (3)
Logic, sets, relations, mathematical systems, counting, numeration systems, and algo-
rithms 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  Credit not available for both MATH 254 and MATH 262
PREQ 146, CS 150

255 Calculus II (4)
Derivatives and integrals of transcendental functions, techniques of integration, inde-
terminant 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  Credit not
available for both MATH 254 and MATH 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, 1)
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)
Graph theory planarity, eulerian, hamiltonian, colorings, and trees  Enumeration
permutations, combinations, binomial distribution, generating functions, recurrence
relations, and inclusion-exclusion  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 multiple-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 **Probability and Statistics I** (3)
Elementary probability, discrete and continuous random variables, expectation, moments, sampling distributions, probability distributions, estimation, and hypothesis testing  PREQ 255

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, and 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, quaternions, 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 Probability and Statistics II (3)
Point and interval estimation, hypothesis testing, decision theory, likelihood ratio and sequential testing, correlation and regression  PREQ 370

495 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)
508 Survey of Analysis (3)
509 Mathematics for Secondary Teachers (3)
512 Modern Geometry (3)
523 Advanced Calculus II (3)
541 Introduction to Numerical Analysis (3)
561 Abstract Algebra (3)
562 Linear Algebra (3)
570 Statistical Theory II (3)
589 Cooperative Education in Mathematics (3, R6)
593 Topics in Mathematics (1-6, R6)
601 Modern Mathematics for Teachers I (3)
602 Modern Mathematics for Teachers II (3)
603 Modern Mathematics for Teachers III (3)
610 Computers in Education (3)
620 Algebra (3)
622 Analysis I (3)
623 Analysis II (3)
624 Complex Analysis (3)
630 Mathematical Modeling (3)
632 Methods of Applied Mathematics (3)
634 Partial Differential Equations and Boundary Value Problems (3)
640 Numerical Analysis (3)
646 Numerical Linear Algebra (3)
661 Applied Algebra (3)
670 Advanced Statistical Theory (3)
672 Advanced Statistical Methods (3)
694 Topics in Mathematics Education (1-6 R6)
699 Thesis (3, R6)
999 Continuing Research (2, R24)

Middle Grades Education (EDMG)
621 Curriculum for Middle Grades Education (3)
622 Teaching-Learning Strategies for the Middle Grades (3)
623 Teaching Writing in the Middle Grades (3)
680 Research in the Middle Grades Proposal (1-3)
681 Research for the Middle Grades Project (1-3)
682 Trends and Issues in Middle Grades Education (3)
683 The Professional Portfolio (2)

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  (P5)

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)
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 GenEdP3b 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)
Western music from Middle Ages through the Baroque in 350, from the Classical Period through the twentieth-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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>208</td>
<td>Cooperative Education in Music (1 or 3, R15)</td>
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<td>208</td>
<td>See Cooperative Education Program</td>
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<td>403</td>
<td>Marching Band Techniques (2)</td>
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<td>PREQ 326</td>
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<td>405</td>
<td>Senior Recital (1)</td>
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<td></td>
<td>Public performance May be scheduled after hearing committee approval</td>
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<td>PREQ 305</td>
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<tr>
<td>420</td>
<td>Studies in Music Literature (3, R9)</td>
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<td>PREQ 351 or approval of instructor</td>
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<td>425</td>
<td>Twentieth-Century Music (3)</td>
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<td></td>
<td>Historical and theoretical issues in twentieth-century music</td>
<td></td>
<td>PREQ 351 or approval of instructor</td>
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<td>428</td>
<td>Choral Conducting (3)</td>
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<td></td>
<td>Study and application of gesture communication and analysis selected to choral conducting</td>
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<td>PREQ 252, 278</td>
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<tr>
<td>429</td>
<td>Instrumental Conducting (3)</td>
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<td></td>
<td>Application of techniques and analysis to instrumental conducting</td>
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<td>PREQ 252, 278</td>
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<td>470</td>
<td>Orchestration and Arranging (2)</td>
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<td>Scoring and arranging for instrumental and vocal ensembles</td>
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<td>PREQ 278</td>
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<tr>
<td>489</td>
<td>Internship (3, 6, 9, R9)</td>
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<tr>
<td></td>
<td>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</td>
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<td>PREQ 378, BA 133, CIS 251, permission of department head</td>
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<tr>
<td>493</td>
<td>Topics in Music (1-3, R12)</td>
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<td></td>
<td>Issues in music performance, education, or the music business</td>
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<td>PREQ Permission of department head</td>
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<tr>
<td>497</td>
<td>Seminar in Piano Pedagogy (1, R4)</td>
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<td>Approval of instructor 2 Lab</td>
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<td>498</td>
<td>Seminar in Accompanying (1, R4)</td>
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<td>Approval of instructor 2 Lab</td>
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**Graduate Courses**

<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>503</td>
<td>Marching Band Techniques (2)</td>
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<tr>
<td>504</td>
<td>Topics in Music (1-3, R9)</td>
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<tr>
<td>520</td>
<td>Studies in Music Literature (3, R9)</td>
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<td>525</td>
<td>Twentieth-Century Music (3)</td>
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<td>592</td>
<td>Off-Schulwerk Level I (3)</td>
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<tr>
<td>593</td>
<td>Topics in Music (1-3, R12)</td>
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<td>597</td>
<td>Seminar in Piano Pedagogy (1, R4)</td>
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<td>598</td>
<td>Seminar in Accompanying (1, R4)</td>
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<tr>
<td>601</td>
<td>Writing About Music (1)</td>
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<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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<td>613</td>
<td>Applied Music (3, R9)</td>
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<td>614</td>
<td>Applied Conducting (1, R4)</td>
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<td>615</td>
<td>Applied Composition (2, R8)</td>
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<td>621</td>
<td>History of Musical Theory (3)</td>
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<td>622</td>
<td>Influences of Folk Traditions on Western Art Music (3)</td>
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<tr>
<td>640</td>
<td>Seminar in Music Pedagogy (3, R6)</td>
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<tr>
<td>650</td>
<td>Advanced Flute Repair (2, R8)</td>
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<tr>
<td>679</td>
<td>Lecture/Recital (3, R6)</td>
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<tr>
<td>680</td>
<td>Independent Study (1, R6)</td>
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<tr>
<td>693</td>
<td>Off-Schulwerk Level II (3)</td>
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<td>694</td>
<td>Orff-Schulwerk Level III (3)</td>
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<td>695</td>
<td>Music Education Seminar (3)</td>
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<tr>
<td>699</td>
<td>Thesis (3)</td>
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</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>instrument</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>130, 131, 230, 231, 330, 331, 430, 431 (1 each)</td>
</tr>
<tr>
<td></td>
<td>132, 133, 232, 233, 332, 333, 432, 433 (2 each)</td>
</tr>
</tbody>
</table>
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)  
Harpsichord  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)  
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)  
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
594 Topics in Music (1-3, R9)
611 Applied Music (1, R4)
612 Applied Music (2, R8)
613 Applied Music (3, R9)
675 Ensemble (1, R6)
696 Seminar in Choral Techniques and Materials (3)
999 Continuing Research (2, R24)

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)
Concepts of health care introduced, influences of pathophysiology and psychopathology and appropriate nursing strategies for selected client models PREQ 383 COREQ 385

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
PREQ Permission of instructor

460 Nursing Leadership and Management (2)
Leadership theory in the management of clients, peers, and other healthcare 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 childbearing 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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>231</td>
<td>Food Science (4)</td>
<td>Scientific principles of food preparation, effect of preparation practices on food quality and nutrient retention, storage and preservation principles 3 Lecture, 3 Lab</td>
</tr>
<tr>
<td>300</td>
<td>Food Facts and Fads (3)</td>
<td>Effects of food processing and preservation, safety of the food supply, food choices and health</td>
</tr>
<tr>
<td>330</td>
<td>Human Nutritional Needs (3)</td>
<td>Principles of nutrition, needs throughout the life cycle, selection of well-balanced diets for health and well-being</td>
</tr>
<tr>
<td>334</td>
<td>Nutritional Applications (3)</td>
<td>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</td>
</tr>
<tr>
<td>336</td>
<td>Normal Nutrition (2)</td>
<td>Principles of human nutrition, emphasizing nutrients and factors affecting utilization in the human body PREQ BIOL 292, CHEM 133</td>
</tr>
<tr>
<td>337</td>
<td>Therapeutic Nutrition (2)</td>
<td>Physiological and biochemical abnormalities in disease, principles of nutritional therapy PREQ BIOL 292, CHEM 133</td>
</tr>
<tr>
<td>389</td>
<td>Cooperative Education in Nutrition (1 or 3, R15)</td>
<td>See Cooperative Education Program</td>
</tr>
<tr>
<td>431</td>
<td>Food Preservation (3)</td>
<td>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</td>
</tr>
<tr>
<td>433</td>
<td>Research Methods in Nutrition (3)</td>
<td>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</td>
</tr>
<tr>
<td>434</td>
<td>Experimental Methods of Foods (3)</td>
<td>Advanced food science principles and techniques of sensory and objective evaluation of foods PREQ 231, CHEM 133 2 Lecture, 4 Lab</td>
</tr>
<tr>
<td>436</td>
<td>Advanced Human Nutrition (4)</td>
<td>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</td>
</tr>
<tr>
<td>437</td>
<td>Diet Therapy (4)</td>
<td>Mechanisms by which food contributes to maintenance of health, prevention of disease, and correction of nutritional disorders PREQ 436 COREQ 439</td>
</tr>
<tr>
<td>439</td>
<td>Introduction to Professional Practice (3)</td>
<td>Introduction to professional ethics, conduct in patient care, utilization of laboratory values, nutritional assessment, and dietary management COREQ 437 2 Lecture, 3 Clinical</td>
</tr>
<tr>
<td>480</td>
<td>Independent Study in Nutrition (1-3, R6)</td>
<td>PREQ Permission of instructor</td>
</tr>
<tr>
<td>483</td>
<td>Internship (3, 3, 3)</td>
<td>Integration of theory and practice in a setting appropriate to the student’s career field</td>
</tr>
<tr>
<td>485</td>
<td>S/U grading</td>
<td>PREQ Permission of instructor 9 hours per week per course</td>
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### Graduate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>531</td>
<td>Food Preservation</td>
<td>(3)</td>
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<tr>
<td>533</td>
<td>Research Methods in Nutrition</td>
<td>(3)</td>
</tr>
<tr>
<td>534</td>
<td>Experimental Methods of Foods</td>
<td>(3)</td>
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<tr>
<td>536</td>
<td>Advanced Human Nutrition</td>
<td>(4)</td>
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<tr>
<td>537</td>
<td>Diet Therapy</td>
<td>(4)</td>
</tr>
<tr>
<td>538</td>
<td>Clinical Experience in Dietetics</td>
<td>(1)</td>
</tr>
<tr>
<td>539</td>
<td>Introduction to Professional Practice</td>
<td>(3)</td>
</tr>
<tr>
<td>540</td>
<td>Nutrition Throughout the Life Cycle</td>
<td>(3)</td>
</tr>
<tr>
<td>541</td>
<td>Protein, Carbohydrates, and Lipids</td>
<td>(3)</td>
</tr>
<tr>
<td>542</td>
<td>Advanced Diet Therapy</td>
<td>(3)</td>
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<tr>
<td>543</td>
<td>Community Nutrition</td>
<td>(3)</td>
</tr>
<tr>
<td>544</td>
<td>Vitamins and Minerals</td>
<td>(3)</td>
</tr>
<tr>
<td>545</td>
<td>Practicum in Clinical Dietetics</td>
<td>(3, R6)</td>
</tr>
<tr>
<td>546</td>
<td>Practicum in Administrative Dietetics</td>
<td>(3, R6)</td>
</tr>
<tr>
<td>547</td>
<td>Practicum in Community Dietetics</td>
<td>(3)</td>
</tr>
<tr>
<td>548</td>
<td>Topics in Nutrition and Food Science</td>
<td>(1-3, R9)</td>
</tr>
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### Office Administration and Business Education (OA)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>293</td>
<td>Topics in Office Administration</td>
<td>(1-3, R6)</td>
</tr>
<tr>
<td>300</td>
<td>Word Processing</td>
<td>(3)</td>
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<tr>
<td></td>
<td>Word processing skill development and application using electronic typewriters and microcomputers PREQ Keyboarding skill</td>
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<tr>
<td>304</td>
<td>Business Communications</td>
<td>(3)</td>
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<tr>
<td></td>
<td>Application of written, oral, and interpersonal communication theory in business PREQ ENGL 102</td>
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<tr>
<td>310</td>
<td>Methods and Materials for Business Education</td>
<td>(2)</td>
</tr>
<tr>
<td>340</td>
<td>Information Processing Systems</td>
<td>(3)</td>
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<tr>
<td></td>
<td>Information processing and interpretation, use of the information processor, computer, and microcomputer, systems design, organizational implications PREQ 300 or equivalent 2 Lecture, 2 Lab</td>
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<tr>
<td>389</td>
<td>Cooperative Education in Office Administration</td>
<td>(1 or 3, R15)</td>
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<tr>
<td></td>
<td>See Cooperative Education Program</td>
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<tr>
<td>393</td>
<td>Topics in Office Administration</td>
<td>(1-3, R6)</td>
</tr>
<tr>
<td>401</td>
<td>Office Systems and Simulations</td>
<td>(3)</td>
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<tr>
<td></td>
<td>Organization, supervision, and related office administration responsibilities, office simulations PREQ 300</td>
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<tr>
<td>402</td>
<td>Administrative Management and Policy</td>
<td>(3)</td>
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<tr>
<td></td>
<td>Systems analysis, leadership and human relations, and control of office operations</td>
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<tr>
<td>403</td>
<td>Business Research and Reports</td>
<td>(3)</td>
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<td></td>
<td>Identification of research problems, collecting and analyzing data, presenting findings for decision-making</td>
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<tr>
<td>415</td>
<td>Administration of Business Education Programs</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td>Administration, supervision, and coordination of business and office education programs</td>
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</tr>
<tr>
<td>483</td>
<td>Internship in Business and Office Education</td>
<td>(3, 3, 3)</td>
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<tr>
<td>484</td>
<td>Supervised work experience in applications of previously studied theory S/U grading</td>
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<tr>
<td>485</td>
<td>PREQ Junior standing, 2.0 GPA, permission of department head Minimum of 10 hours per week</td>
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### Graduate Courses

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>601</td>
<td>Trends and Issues in Business Education</td>
<td>(3)</td>
</tr>
<tr>
<td>602</td>
<td>Vocational Education History and Philosophy</td>
<td>(3)</td>
</tr>
<tr>
<td>603</td>
<td>Research in Business Education</td>
<td>(3)</td>
</tr>
<tr>
<td>605</td>
<td>Managerial Communication</td>
<td>(3)</td>
</tr>
<tr>
<td>631</td>
<td>Nutrition Education</td>
<td>(3)</td>
</tr>
<tr>
<td>632</td>
<td>Internship in Vocational Business Education</td>
<td>(3)</td>
</tr>
<tr>
<td>634</td>
<td>Internship in a Business Firm</td>
<td>(1-3)</td>
</tr>
<tr>
<td>635</td>
<td>Topics in Business and Office Education</td>
<td>(1-3, R9)</td>
</tr>
<tr>
<td>636</td>
<td>Seminar in Business and Office Education</td>
<td>(3)</td>
</tr>
</tbody>
</table>
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-
tration  Includes entre/intrapreneurship, planning processes, marketing, fiscal strate-
gies, human services, evaluation, and research  PREQ 250 or permission of instructor

480 Independent Study (1-3, R6)
PREQ Permission of program coordinator

483 Internship in Parks and Recreation Management (3, 3, 3)
484 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)
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-Lifeguards (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,  
263 individual activities stunts/tumbling, tennis, and golf skills in 262, team activities volleyball, soccer, and basketball skills in 263  3 meetings  

265 Sports Officiating I, II (2,2)  
266 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, faculty, 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 Behavior (3)
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) 655 Methods and Analysis in Physical Education
and Sport Instruction (3)
621 Research in Health and Human 665 Exercise Testing and Prescription (3)
Performance (3) 675 Issues in Intramurals and Athletics (3)
625 Motor Learning (3)
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 Physiology 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 Experimental Professional Activities  
684 I and II (2, 2)  
693 Topics in Physical Therapy (1)  
783 Experimental Professional Activities  
784 III and IV (5, 5)

Physics (PHYS)

105 Contemporary Physics (4)  
Basic ideas in mechanics, heat, light, sound, electricity and magnetism, atomic and nuclear physics, applications in today's society  
3 Lecture, 2 Lab (P2)

130 Introductory Physics (4, 4)  
131 Noncalculus-based treatment of motion, force, energy, heat, electricity, magnetism, light, and modern physics  
PREQ MATH 130, 130 for 131  
3 Lecture, 2 Lab

230 General Physics (4, 4)  
231 Calculus-based study of mechanics, thermodynamics, electricity and magnetism, optics, and modern physics  
PREQ MATH 153 for 230, 230 for 231  
3 Lecture, 3 Lab

302 Electronics (4)  
Circuit theory, discrete devices, amplifiers, operational amplifiers, integrated circuits, and digital techniques  
PREQ 131 and a course in differential and integral calculus  
3 Lecture, 3 Lab

310 Modern Physics (3)  
Special relativity, quantum physics, the wave nature of matter, atomic and nuclear structure, and elementary particles  
PREQ 131 or 231, MATH 140 or 153

320 Mathematical Methods of Physics (3)  
Complex numbers and functions, series, Fourier series, cylindrical and spherical polar coordinate systems, ordinary and partial differential equations  
PREQ 131 or 231, MATH 255

322 Optics (4)  
Geometrical and physical optics, introduction to quantum optics  
PREQ 131, MATH 255  
3 Lecture, 3 Lab

325 Thermodynamics (3)  
Classical theory of heat, first and second laws of thermodynamics, enthalpy, entropy, introductory kinetic theory, and statistical thermodynamics  
PREQ 131, MATH 256

330 (GEOL 330) Geophysics (4)  
The physics of the Earth  
Topics include theory and applications of gravity, magnetics, electricity, and seismicity to environmental and tectonic problem-solving in geology  
Field-oriented lab problems and applications  
PREQ 130 or 230  
3 Lecture, 3 Lab
335 **Astrophysics (3)**
Introduction to the basic principles of astrophysics, stellar structure, stellar evolution, galactic astronomy  PREQ  231 or 131, MATH 256

360 **Laboratory Physics (2)**
Intermediate experiments in modern physics  PREQ  131 or 231

380 **Research in Physics (2, R8)**
Physics research projects for individual students  PREQ  Permission of instructor

389 **Cooperative Education in Physics (1 or 3, R15)**
See Cooperative Education Program

410 **Classical Mechanics (3)**
Topics in analytical mechanics using vector operators and differential equations  
PREQ  320 or MATH 256

420 **Nuclear Physics (3)**
Nuclear decay, models, reactions, fission, fusion, lab techniques of instrumentation, gamma spectra, particle techniques  PREQ  131 or 231 and a course in differential and integral calculus  2 Lecture, 3 Lab

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 Schrodinger equation, one-dimensional potentials, linear harmonic oscillator, apherically 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 advisors, 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)
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
Seminar: American Political Systems (3)  
Current issues in American government and politics

Graduate Courses
- 507 American Political Parties (3)
- 521 Political and Organizational Leadership (3)
- 536 Dynamics of World Order (3)
- 580 Reading in Political Science (3)
- 593 Contemporary Political Systems (3, R6)
- 595 Seminar: The American Political System (3)
- 602 Topics in Political Science (1-6, R9)

Project Management (PM)

Graduate Courses
- 500 Tools for Financial Management (2)
- 505 Introductory Statistics and Microeconomics (2)
- 515 Legal and Ethical Issues (2)
- 650 Project Management Systems (6)
- 652 Project Plan Development (6)
- 654 Project Plan Analysis and Approval (6)
- 656 Project Implementation Policies and Procedures (6)
- 658 Project Implementation Monitoring and Production (6)
- 660 Project Completion and Professional Evolution (6)

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, admission to teacher education program Field experience required.

322 Adolescent Development: Problems and Achievements (3)
Problems and achievements will cover theories and principles of adolescent development and problems specific to adolescence PREQ EDCI 231 and admission to professional education sequence or permission of the psychology department head, field experience required for education majors Twenty two hours per semester of supervision field.

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.

389 Cooperative Education in Psychology (1 or 3, R15)
See Cooperative Education Program.

393 Topics in Psychology (3, R9)
PREQ 250 or permission of instructor.

410 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.

426 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.

430 Personality (3)
Assumptions, constructs, and theories of personality, related empirical findings PREQ 250 or permission of instructor.

440 Biological Psychology (3)
Physiological, genetic, and evolutionary bases of behavior PREQ 250 or permission of instructor.
441 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

444 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

448 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

455 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

460 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

470 Abnormal Psychology (3)
Theories of psychopathology, etiology, dynamics, symptomatology, diagnosis, and treatment  PREQ 250 or permission of instructor

474 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

480 Research in Psychology (1-6, R6)
Supervised research experiences for advanced students S/U grading  PREQ 250, 251, 252, permission of instructor

483 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)
662 Personality Assessment (3)
526 Death and Dying (3)
663 Assessment and Intervention with Infants (3)
530 Personality (3)
664 Psychological Assessment II (3)
540 Biological Psychology (3)
671 Advanced Psychopathology (3)
541 Health Psychology (3)
672 Psychotherapy I Theories (3)
544 Language, Memory, and Cognition (3)
673 Professional Issues (3)
548 Human Neuropsychology (3)
675 Behavioral Interventions (3)
555 Systems and Theories in Psychology (3)
676 Psychotherapy II Techniques (3)
570 Abnormal Psychology (3)
677 Group Psychotherapy (3)
574 The Emotionally Disturbed Child and Adolescent (3)
678 Family Systems (3)
610 Advanced Social Psychology (3)
679 Survey of Clinical Psychology (3)
621 Advanced Educational Psychology (3)
680 Directed Study in Psychology (3, R6)
624 Child Development (3)
683 Internship in Psychology (6, 6)
625 Adolescent Development (3)
684
626 Adulthood and Aging (3)
686 Practicum in Psychology (4)
650 Advanced General Psychology (3)
693 Topics in Psychology (3, R9)
651 Advanced Research Methods (3)
697 Seminar Behavioral/Emotional Evaluation of Children and Adolescents (3)
652 Advanced Research Proposal Writing (2)
698 Rorschach Seminar (3)
661 Psychological Assessment I (4)
699 Thesis (3, R6)
999 Continuing Research (2, R24)
## Public Affairs (PA)

### Graduate Courses
- 571 Government-Business Relations (3)
- 572 Public Policy Formulation (3)
- 570 Public Affairs Administration (3)
- 571 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)
- 670 Public Affairs Administration (3)
- 671 Budgetary Processes (3)
- 672 Governmental Organizations (3)
- 685 Internship in Public Affairs (3)

## Reading (EDRD)

### Reading
- **250 College Reading and Vocabulary (3)**
  - Extending skills for college and recreational reading emphasis on vocabulary and comprehension

### Speed Reading
- **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

### Reading and Communication Skills in Content Areas
- **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

### Reading Instruction in the Elementary School
- **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

### Cooperative Education in Reading
- **389 Cooperative Education in Reading (1 or 3, R15)**
  - See Cooperative Education Program

### Middle Grades Reading
- **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

### High School and Adult Reading
- **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

### Practicum in Teaching Reading
- **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

### Recreational Therapy (RTH)

### Psychomotor Activity Skills
- **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, fieldwork, 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)

451 Environmental Science for Teachers (3)
   Materials and techniques for interdisciplinary projects

493 Topics in Science Education (1-3, 1-3)

593 Graduate Courses
   551 Environmental Science for Teachers (3)
   593 Topics in Science Education (1-3, R6)
   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
   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

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 PREQ BIOL 134 (4 hours including lab) or permission of instructor

335 Social Work Research and Evaluation (3)
  Scientific methods of research used in building practice knowledge and evaluating
  service delivery PREQ 151, MATH 170

354 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 PREQ 334

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 253

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)
484 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 (12)
  Full-time supervised placement in selected human service agencies to integrate theory with practice and prepare for professional responsibility  PREQ 364  COREQ 496 S/U Grading
496 Field Practicum Seminar (4)
  Integration of content with field practice  COREQ 486

Graduate Courses
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
235 Social Problems (3)
  Problems of modern American society such as poverty, social conflict, corporate power and capitalism, alienation, and deviance
240 Social Change (3)
  Changes in human societies through cultural, economic, social, and political processes, introduction to development and social movements  PREQ 231 or permission of instructor
245 Social Inequality (3)
  Social inequalities in wealth, income, prestige, and power, inequalities based on race, sex, and age  PREQ 231 or permission of instructor
248 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
250 Deviant Social Behavior (3)
  Causes and control of individual and group rebellion or retreat from prescribed social norms
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
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 and 245, or permission of instructor
342 The Individual in Society (3)
  Individual behavior in social context, social interaction  PREQ 231 or permission of instructor
355 Criminology (3)
  Nature, extent, and causes of criminal behavior, role of police, courts, and corrections, prevention and control programs  PREQ 231 and 250, or permission of instructor
360 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

371 Society and the Environment (3)
Analysis of the interaction between society and the physical environment, including population, pollution, resource depletion, and the effects on and responses of different social groups PREQ 231 or permission of instructor

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 and 326, or permission of instructor

418 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 and 326, or permission of instructor

420 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 and 326, 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 and 240, 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 and 240, 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 and 240, or permission of instructor

480 Independent Study in Sociology (1-3, 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 Societies of Conflict and Conflict Resolution (3)
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

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)
Advanced course emphasizing writing skills PREQ 232 or equivalent, or placement, or permission of department head

302 Conversational Spanish (3)
Advanced course emphasizing topical dialogue PREQ 232 or equivalent, or placement, or permission of department head

303 Applied Spanish Conversation (3, R6)
Apprenticeship in the intensive language program Does not count toward major, minor,
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>310</td>
<td>Introduction to Spanish Prose and Poetry (3)</td>
<td>Introduction to Spanish literary texts, reading and analysis of literary works.</td>
</tr>
<tr>
<td>320</td>
<td>Methods of Teaching Foreign Language (3)</td>
<td>Methods and materials for teaching second languages in grades K-12.</td>
</tr>
<tr>
<td>321</td>
<td>Spanish Civilization (3)</td>
<td>Geographical, political, cultural, and historical aspects of Spain.</td>
</tr>
<tr>
<td>322</td>
<td>Spanish-American Civilization (3)</td>
<td>Geographical, political, cultural, and historical aspects of Latin America.</td>
</tr>
<tr>
<td>330</td>
<td>Masterpieces of Spanish Peninsular Literature (3)</td>
<td>The literary periods and movements, authors, and selected representative works of Spain.</td>
</tr>
<tr>
<td>333</td>
<td>Masterpieces of Spanish-American Literature (3)</td>
<td>The literary periods and movements, authors, and selected representative works of Spanish America.</td>
</tr>
<tr>
<td>351</td>
<td>Spanish Phonetics and General Linguistics (3)</td>
<td>Analysis of the Spanish sound system, intensive drill in pronunciation, articulation, intonation, and rhythm, introduction to linguistics.</td>
</tr>
<tr>
<td>389</td>
<td>Cooperative Education in Spanish (1 or 3, R15)</td>
<td>PREQ 301, 302. See Cooperative Education Program.</td>
</tr>
<tr>
<td>393</td>
<td>Special Topics in Spanish (1-3, R6)</td>
<td>PREQ 232 or 240.</td>
</tr>
<tr>
<td>431</td>
<td>Studies in Spanish Peninsular Literature (3, R6)</td>
<td>Study of an author or authors, a genre, literary movement, school, or literary period of Spain.</td>
</tr>
<tr>
<td>432</td>
<td>Studies in Spanish-American Literature (3, R6)</td>
<td>Study of an author or authors, a genre, literary movement, school, or literary period of Latin America.</td>
</tr>
<tr>
<td>451</td>
<td>Advanced Spanish Grammar (3)</td>
<td>In-depth study of the structures and usage of the Spanish language.</td>
</tr>
<tr>
<td>452</td>
<td>Advanced Spanish Conversation (3)</td>
<td>Discussion of selected topics, reports on assigned readings, situational dialogues in practical, everyday Spanish.</td>
</tr>
<tr>
<td>481</td>
<td>Independent Studies in Spanish (1-3, R6)</td>
<td>PREQ 301 and 302, or permission of department head.</td>
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</tbody>
</table>
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
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<tbody>
<tr>
<td>413</td>
<td>Teaching Adolescents with Learning Problems (3)</td>
<td>Survey and evaluation of curricular models, diagnosis, developing instructional strategies, establishing goals and objectives PREQ 312, admission to professional-education sequence, senior status</td>
</tr>
<tr>
<td>417</td>
<td>Managing Classrooms for Exceptional Children (3)</td>
<td>Principles and techniques of classroom and behavior management PREQ 240 and admission to the teacher education program</td>
</tr>
<tr>
<td>432</td>
<td>The Physically Handicapped Child (3)</td>
<td>Social, psychological, and medical problems of children with physical disabilities</td>
</tr>
<tr>
<td>450</td>
<td>Individual Educational Plans for Students with Disabilities (3)</td>
<td>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</td>
</tr>
<tr>
<td>470</td>
<td>(BK, EDEL) Early Childhood Curriculum (3)</td>
<td>Materials, environments, and interactions for two to five year olds in all curricular areas, including thinking and social problem-solving for typical and atypical children 2 Lecture, 3 Lab PREQ 366</td>
</tr>
<tr>
<td>484</td>
<td>Practicum in Special Education (1-3)</td>
<td>Three hours per credit hour PREQ Written application, permission of instructor and advisor</td>
</tr>
<tr>
<td>485</td>
<td>Field Experience in Teaching (3, R6)</td>
<td>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</td>
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<tr>
<td>486</td>
<td>Practicum in Mental Retardation (1-3)</td>
<td>3 hours per credit hour PREQ Written application, permission of instructor and adviser</td>
</tr>
<tr>
<td>487</td>
<td>Practicum in Learning Disabilities (1-3)</td>
<td>3 hours per credit hour PREQ Written application, permission of instructor and advisor</td>
</tr>
<tr>
<td>490</td>
<td>Supervised Student Teaching (9)</td>
<td>A full-time teaching experience COREQ 495</td>
</tr>
<tr>
<td>491</td>
<td>(BK, EDEL) Internship (4, R8)</td>
<td>Observing, planning, teaching, and evaluating young children in typical and atypical settings COREQ BK 496</td>
</tr>
<tr>
<td>495</td>
<td>Special Education Seminar (3)</td>
<td>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</td>
</tr>
<tr>
<td>496</td>
<td>(BK, EDEL) Internship Seminar (1, R2)</td>
<td>The interrelationships of theory and practice in the context of experience COREQ BK 491</td>
</tr>
<tr>
<td>501</td>
<td>Introduction to Learning Disabilities (3)</td>
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<tr>
<td>502</td>
<td>Current Issues in Special Education (3)</td>
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<tr>
<td>504</td>
<td>Educational Programs for Students with Behavioral Disorders (3)</td>
<td></td>
</tr>
<tr>
<td>505</td>
<td>Teaching Students with Learning Disabilities (3)</td>
<td></td>
</tr>
</tbody>
</table>
Educational Programs for Students with Mental Retardation (3)  
Seminars in Learning Disabilities (3)  
Research in Special Education (3)  
Teaching Students with Behavioral Disorders (3)  
Practicum in Special Education (1-3, R3, each course)  
The Physically Handicapped Child (3)  
Topics in Special Education (1-3, R6)  

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 260, junior standing

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 sixteen constituent institutions of the multi-campus state university.

The University of North Carolina, chartered by the N.C. General Assembly in 1789, was the first public university in the United States to open its doors and the only one to graduate students in the eighteenth-century. The first class was admitted in Chapel Hill in 1795. For the next 136 years, the only campus of the University of North Carolina was at Chapel Hill.

In 1877, the North Carolina 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 North Carolina General Assembly redefined the University of North Carolina to include three state-supported institutions: the campus at Chapel Hill (now the University of North Carolina at Chapel Hill), North Carolina State College (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 North Carolina 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 sixteen-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 thirty-two voting members of the Board of Governors are elected by the North Carolina 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 emeritus. The president of the UNC Association of Student Governments, or that student’s designee, is also a non-voting member.

Each of the sixteen constituent institutions is headed by a chancellor, who is chosen by the Board of Governors on the president’s nomination and is responsible to the president. Each institution has a board of trustees, consisting of eight members elected by the Board of Governors, four appointed by the governor, and the president of the student body, who serves ex officio. (The North Carolina School of the Arts has two additional ex officio members.) Each board of trustees holds extensive powers over academic and other operations of its institution on delegation from the Board of Governors.

BOARD OF GOVERNORS

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William T Brown
C Clifford Cameron
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Cary C Owen
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Earl N Phillips Jr
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Benjamin S Ruffin
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G Irvin Aldridge
Lois G Britt
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H Frank Granger
Helen Rhyne Marvin
Timothy Keith Moore
Maxine H O'Kelley
D Wayne Peterson
Jim W Phillips Jr
J Craig Souza
Robert F Warwick
James Bradley Wilson
(Vacancy)

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Samuel H Poole

Ex Officio
Terry Eaton

OFFICERS OF THE UNIVERSITY OF NORTH CAROLINA

Molly Corbett Broad, B A , M A
Roy Carroll, B A , M A , Ph D
Judith Pulley, B A , M A , Ph D
William O McCoy, B S , M S
Gary T Barnes, B A , M S , Ph D
Charles R Coble, A A , A B , M A T , Ed D
Clifton B Metcalf, B A

President
Vice President, Academic Affairs
Vice President, Planning
Vice President, Finance
Vice President, Program Assessment and Public Service
Vice President, University School Program
Interim Vice President, Public Affairs
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 twenty 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.
### ADMINISTRATIVE OFFICERS

**1997-98**

**Office of the Chancellor**

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chancellor</td>
<td>John W Bardo, Ph D</td>
</tr>
<tr>
<td>Assistant to the Chancellor</td>
<td>Judy H Dowell, Ph D</td>
</tr>
<tr>
<td>Assistant to the Chancellor, Western Carolina University Programs in Asheville</td>
<td>Richard L Kucharski, J D</td>
</tr>
<tr>
<td>Legal Counsel</td>
<td>Robert W Anders, M A</td>
</tr>
<tr>
<td>Assistant to the Chancellor, Western Carolina University Programs in Asheville</td>
<td>Noelle Kehrberg, Ph D</td>
</tr>
<tr>
<td>Assistant to the Chancellor, Western Carolina University Programs in Asheville</td>
<td>Robert Edwards, B S B A</td>
</tr>
</tbody>
</table>

**Office of Intercollegiate Athletics**

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Director of Athletics</td>
<td>Larry L Travis, M S</td>
</tr>
<tr>
<td>Associate Athletics Director/Compliance Coordinator</td>
<td>Frederick Q Cantler, B S</td>
</tr>
<tr>
<td>Associate Athletics Director/Senior</td>
<td>Marcia D Girton, M S &amp; M A</td>
</tr>
<tr>
<td>Head Football Coach</td>
<td>William R Bleil, M A Ed</td>
</tr>
<tr>
<td>Assistant Football Coach</td>
<td>Kurt J Beathard, B A</td>
</tr>
<tr>
<td>Assistant Football Coach</td>
<td>Maurice L Waugh, M S</td>
</tr>
<tr>
<td>Assistant Football Coach</td>
<td>Steven C Ryan, M A Ed</td>
</tr>
<tr>
<td>Assistant Football Coach</td>
<td>Richard J O'Brien, M A</td>
</tr>
<tr>
<td>Assistant Football Coach</td>
<td>Michael Gunthrop, B S</td>
</tr>
<tr>
<td>Assistant Football Coach</td>
<td>Thomas D Woods, B S</td>
</tr>
<tr>
<td>Assistant Football Coach</td>
<td>Terrence E Root Jr, B S</td>
</tr>
<tr>
<td>Assistant Football Coach</td>
<td>Rodney W Hennon, M A Ed</td>
</tr>
<tr>
<td>Associate Baseball Coach</td>
<td>Michael Wayne Tidick, M A Ed</td>
</tr>
<tr>
<td>Women Administrator</td>
<td>Maria L Fantanarosa</td>
</tr>
<tr>
<td>Assistant Women's Basketball Coach</td>
<td>Monica Jill Dunn, B S</td>
</tr>
<tr>
<td>Assistant Women's Basketball Coach</td>
<td>Vickie L Henson, B A</td>
</tr>
<tr>
<td>Men's Assistant Basketball Coach</td>
<td>Orlando J Early B S</td>
</tr>
<tr>
<td>Assistant Men's Basketball Coach</td>
<td>Allen D Williams, B A</td>
</tr>
<tr>
<td>Men's Head Basketball Coach</td>
<td>Phillip D Hopkins, M Ed</td>
</tr>
<tr>
<td>Men's &amp; Women's Golf Coach</td>
<td>Johnny D Wyke, M A Ed</td>
</tr>
<tr>
<td>Men's and Women's Track and Cross Country Coach</td>
<td>Danny Williamson, M A Ed</td>
</tr>
<tr>
<td>Head Women's Volleyball Coach</td>
<td>Carolyn Michelle Hansen, M S</td>
</tr>
<tr>
<td>Strength and Conditioning Coordinator</td>
<td>Robert W Phillips, M S</td>
</tr>
<tr>
<td>Business and Ticket Manager</td>
<td>Greg Duff, M A</td>
</tr>
<tr>
<td>Associate Director of Athletics, Sports Information Director</td>
<td>Stephen M White, B A</td>
</tr>
<tr>
<td>Women's Tennis Coach/Director of Academic Support Services</td>
<td>Fred J Weinman, III, M B A</td>
</tr>
<tr>
<td>Head Athletics Trainer</td>
<td>Mary T Ochoa, M Ed</td>
</tr>
<tr>
<td>Assistant Athletic Trainer</td>
<td>C Robert Dingle, M S</td>
</tr>
</tbody>
</table>

**Waynesville**

**Raeford**
Doyle Craig Wells, B S
Cheryl K Plemmons, B S B A
Brian Moore, B S

Office of Public Information
James W Rowell, B A
William J Studenc Jr., B A

Office for University Advancement
Lon Paye Bovender, M B A
Carla Cody, B S B A
Thomas Connelly Jr., Ed D
A James Manning, M B A
Martin A Ramsey, B S B A
Miriame N Stuart, M S

Advancement and External Affairs
Claire Eldridge, Ed D

Office for Academic Affairs
Richard J Collings, Ph D
Fred D Hinson, Ph D
Frank T Prochaska, Ph D
Sharon Kimble, M A Ed

Academic Officers
J C Alexander Jr., Ph D
Mary F Norton, Ph D
J Dale Pounds, M S C E
Ann P Johnson, Ed D
Ronald E Shiffler, Ph D
Lynn R Heinrichs, Ed D
Gurney E Chambers, Ph D
Marilyn E Feldmann, Ph D
A Michael Dougherty, Ph D

Steven P Yurkovich, Ph D
J Casey Hurley, Ph D
Brian E Railsback, Ph D
Robert Gurevich, Ph D

Academic Development
Fred Hinson, Ph D
Benjamin Franklin Ward, A M
William Christian Martin, III, M A Ed
Bob Orr, B S

Information and Communications Specialist I
Administrative Assistant
Athletics Equipment Manager

Director, Annual Giving
Director, Alumni Affairs
Director, Corporate and Major Gifts
Director, Planned and Major Gifts
Coordinator, Advancement Research

VC

Director, International Programs and Services

Director, General Education Program
Director, Myron L. Coulter Faculty Center for Excellence in Teaching and Learning
Associate Director, Faculty Center
Associate Director, Faculty Center
Vacant

Allan R Steinberg, B A

Director, Economic Development Administration, University Technical Assistance Center

Director, Western Regional Service Center, Small Business Technology Development Center

Vacant

Vickey Wade, M A Ed

Director, Local Government Training Program

Margaret Adams, Ph D

Director, Human Resource Development Program

John W Williams, M I L R

Director, Non-profit and Leadership Programs

James E Dooley, Ph D

Director, Western North Carolina Tomorrow

Mountain Heritage Center

H Tyler Blethen III, Ph D

Director

Suzanne Hill McDowell, M A

Curator

Office for Student Development

Robert Caruso, Ph D

Vice Chancellor

Bonita Jacobs, Ph D

Assistant Vice Chancellor

William K Haggard, Ed D

Dean, Student Development

Linda C Riouff

Assistant Dean, Student Development

Richard Cameron, M Ed

Director, Student Services

Brian K Bridges, M P A

Assistant to the Vice Chancellor

R Randy Rice, M S

Assistant Vice Chancellor and Director of Housing

Thomas W Grant, M S

Director, Financial Aid

Timothy C Jacobs, M Ed

Director, University Center

Donald O'Neal, M D

Director, University Health Services

John R Ritchie, Ph D

Director, Counseling Center

Carla Cosio, M A

Coordinator, Wellness Program

Carolina Colloquy for University Teaching

Elizabeth Bowser, Ed D

Executive Director

North Carolina Center for the Advancement of Teaching

Mary Jo Utley, Ed D

Director

Kay S Shapiro, Ed S

Associate Director

George N Lipscomb, M S

Associate Director for Business

Judith E Clauss, Ph D

Chair of Faculty and Director of Seminars and Programs

Patricia A Cook

Center Fellow

Randolph S Fournier, Ph D

Center Fellow

Jerome D Franson, Ph D

Senior Fellow

Ted S Henson, M Ed

Center Fellow

Donna Glee Williams, Ph D

Center Fellow

Henry D Wong, Ph D

Center Fellow

Gracia W Slater, M B A

Director of Development

J Gregory Johnson, M A Ed

Assistant Director

Christin M McCarley, M A

Public Information Coordinator
FACULTY
1998-99

*John W. Bardo, Ph.D.
Chancellor, Professor of Sociology  B A ,
University of Cincinnati, 1970, M A , Ph D ,
The Ohio University, 1971, 1973  Date of
appointment, 1995

Richard J. Collings, Ph.D.
Vice Chancellor for Academic Affairs, Pro-
fessor of Political Science  B A , University
of Louisville, 1968, M A , Ph D , Tulane
University, 1972, 1977  Date of appoint-
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Millicent H. Abel, Ph.D.
Assistant Professor of Psychology  B A ,
Indiana University Southeast, 1979, M A ,
Ph D , University of Louisville, 1982, 1988
Date of appointment, 1992

*John Russell Adams, Ph.D.
Professor of Management  B S , University
of New Hampshire, 1959, M S , Florida
State University, 1969, Ph D , Syracuse Uni-
versity, 1974  Date of appointment, 1980

Mary F Adams, Ph.D.
Assistant Professor of English  B A , Smith
College, 1984, M F A , University of Iowa,
1989, Ph D , University of Houston, 1995
Date of appointment, 1995

Elizabeth H. Addison, Ph.D.
Assistant Professor and Director of Fresh-
man English  B A , Transylvania College,
1968, M A , University of Tennessee, 1975,
Ph D , Duke University, 1985  Date of ap-
pointment, 1990

*James Clyde Addison, Ph.D.
Professor of English  B A , M A , Clemson
University, 1969, 1975, Ph D , University of
Tennessee, 1980  Date of appointment, 1979

Joseph Culbreth Alexander Jr., Ph.D.
Acting Dean, College of Arts and Sciences,
Professor of Communication  A B , B D ,
Duke University, 1956, 1959, M A , Ph D ,
Ohio University, 1970, 1973  Date of ap-
pointment, 1972

*Dava Massey Allen, Ph.D.
Associate Professor and Head, Department
of Human Environmental Sciences  B S Ed ,
Western Carolina University, 1966,
M S H E , University of North Carolina at
Greensboro, 1969, Ph D , University of South
Carolina, 1973  Date of appointment, 1979

*Member of the Graduate Faculty

Grace C. Allen, Ph.D.
Associate Professor of Finance  B S , Agnes
Scott College, 1978, M B A , Appalachian
State University, 1985, Ph D , University of
South Carolina, 1991  Date of appointment,
1991

*William Louis Anderson, Ph.D.
Professor of History  B A , M A , Ph D ,
University of Alabama, 1963, 1966, 1974
Date of appointment, 1969

Cynthia Ann Atterholt, Ph.D.
Assistant Professor of Chemistry  B S , Kent
State University, 1977, M B A , Winthrop
University, 1987, Ph D , University of Cali-
fornia, Davis, 1996  Date of appointment,
1996

Kenneth J. Ayala, M.S.E.E.
Associate Professor of Industrial and Engi-
eering Technology  B S , Virginia Mili-
tary Institute, 1961, M S E E , Georgia Insti-
tute of Technology, 1967  Date of ap-
pointment, 1990.

Stephen Michael Ayers, Ph.D.
Associate Professor of Theatre Arts  B A ,
Maryville College, 1975, M A , University of
Houston at Clear Lake, 1981, Ph D , Univer-
sity of Colorado, 1988  Date of appoin-
tment, 1985

*John Roger Bacon, Ph.D.
Professor and Head of Chemistry  B S ,
Kansas State University, 1964, M S , Ph D ,
University of Iowa, 1967, 1968  Date of ap-
pointment, 1972

John Martin Baker, Ph.D.
Associate Professor of Mathematics  B S ,
Mississippi State University, 1964, M A ,
University of Kansas, 1966, Ph D , Florida
State University, 1969  Date of appoint-
tment, 1971

Joyce Anne Baldwin, M.S.H.E.
Assistant Professor of Human Environmental
Sciences  B S H E , M S H E , Univer-
sity of North Carolina at Greensboro, 1967,
1970  Date of appointment, 1970

*Aaron Kermit Ball, Ed.D.
Associate Professor of Industrial and Engi-
eering Technology  B S , M A , Appala-
chian State University, 1975, 1977, Ed D ,
Virginia Polytechnic Institute and State Uni-
versity, 1984  Date of appointment, 1977

Debashis Banerjee, Ph.D.
Assistant Professor of Accounting and In-
formation Systems  B S , St Xavier’s Col-
lege, 1968, M S , Patna University, India,
1971, M B A , Ph D , University of Arkans-
as, 1987, 1992  Date of appointment, 1996

*On leave

Part-time appointment
Julia Ann Barnes, Ph.D.
Assistant Professor of Mathematics and Computer Science B S, University of Central Florida, 1990, Ph D, University of Chapel Hill, 1996 Date of appointment, 1996

Peter C. Bates, Ph.D.
Assistant Professor of Natural Resources Management B S, University of Montana, 1977, M S, Montana State University, 1981, Ph D, University of Minnesota, 1990 Date of appointment, 1993

Mary Kay Bauer, D.M.A.
Associate Professor of Music B M, Catholic University, 1980, M M, Northwestern University, 1983, D M A, University of Minnesota, 1989 Date of appointment, 1988

Richard Squires Beam, Ph.D.
Associate Professor of Theatre Arts B A, M A, Indiana University, 1966, 1969, Ph D, University of Georgia, 1984 Date of appointment, 1971

*John Alan Beegle, Ph.D.
Department Head and Professor of Accounting B B A, M B A, University of Miami, 1959, 1960, Ph D, St Louis University, 1967 Date of appointment, 1972

Barbara Halliwill Bell, Ph.D.
Assistant Professor of Elementary and Middle Grades Education Director of the Reading Center B S, Northeast Missouri State University, 1971, M Ed, Ed S, Ph D, University of Missouri, 1981, 1982, 1995 Date of appointment, 1992

John A. Bernard, Ph.D.
Assistant Professor of Psychology A A, Central Piedmont Community College, 1972, B A, M A, University of Chapel Hill, 1973, 1975, Ph D, North Carolina State University, 1992 Date of appointment, 1996

*Harold Tyler Biethen III, Ph.D.
Director, Mountain Heritage Center, Professor of History A B, Bowdoin College, 1967, M A, Ph D, University of North Carolina at Chapel Hill, 1969, 1972 Date of appointment, 1972

*Lisa A. Bloom, Ed.D.

Mary B. Boat, Ph.D.
Assistant Professor of Special Education/ Human Services B A, Ph D, University of Minnesota, 1990, 1995 Date of appointment, 1996

*Richard Lewis Boyer, M.F.A.
Associate Professor of English B A, Denison University, 1965, M F A, University of Iowa, 1968 Date of appointment, 1988

Monica Lynne Bradshaw, Ph.D.
Assistant Professor of Communication Disorders/Human Services B S, McNeese State University, 1989, M S, Louisiana State University, 1992, Ph D, Louisiana State University, 1995 Date of appointment, 1996

*Paul F. Brandt, Ph.D.
Assistant Professor of Chemistry and Physics B S, Southwest State University, 1984, Ph D, University of Colorado, 1990 Date of appointment, 1992

William D. Brotherton, Ph.D.
Associate Professor of Counseling/Human Services B S, Missouri Southern State College, 1977, M Ed, C A S, Western Carolina University, 1984, 1985, Ph D, Florida State University, 1989 Date of appointment, 1993

Susan Brown-Strauss, M.F.A.

*Susani Clare Brown, Ph.D.
Associate Professor of Sport Management B S, Florida State University, 1976, M S, Eastern Illinois University, 1983, Ph D, The Ohio State University, 1988 Date of appointment, 1988

*Richard Conrad Bruce, Ph.D.
Director, Highlands Biological Station, Professor of Biology B S, Tufts University, 1958, M A, Ph D, Duke University, 1961, 1968 Date of appointment, 1963

*James Garlin Bryant Jr., Ed.D.

Robert E. Buckner, B.S.Ed.
Instructor of Music B S Ed, Western Carolina University, 1967 Date of appointment, 1991
Lee Palmer Budahl, Ph.D.
Associate Professor of Art B.S., M.A.,
University of Wisconsin, 1955, 1967, M.A.,
San Francisco State College, 1959, Ph.D.,
University of Maryland, 1972 Date of ap-
pointment, 1972

Jeannette Renee Bull, M.H.S.
Assistant Professor of Physical Therapy
B.S., Georgia State University, 1984, M.H.S.,
University of Indianapolis, 1997 Date of ap-
pointment, 1997

Debra Burke, J.D.
Professor of Business Law B.A., M.P.A.,
J.D., University of Texas, 1977, 1982, 1982
Date of appointment, 1992

James W. Busbin, Ph.D.
Professor of Marketing B.B.A., M.S.,
University of Alabama, 1972, 1975, Ph.D.,
University of Tennessee, 1981 Date of ap-
pointment, 1991

*David J. Butcher, Ph.D.
Associate Professor of Chemistry B.S.,
University of Vermont, 1982, Ph.D., Un-
iversity of Connecticut, 1990 Date of ap-
pointment, 1990

*James Edwin Byer, Ph.D.
Head and Associate Professor of English
B.S., University of Chicago, 1963, M.A.,
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pointment, 1968

Kathryn Stripling Byer, M.F.A.
Poet-in-Residence, Department of English
B.A., Wesleyan College, 1966, M.F.A., UNC-
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*Joan Falconer Byrd, M.F.A.
Professor of Art B.A., Agnes Scott College,
1961, M.S., M.F.A., University of Wiscon-
sin, 1963, 1967 Date of appointment, 1968

Richard Raymond Cameron, M.Ed.
Director of Student Services, Instructor B.S.,
State University of New York at Cortland,
1965, M.Ed., Pennsylvania State University,
1966 Date of appointment, 1971

*James Wesley Carland Jr., Ph.D.
Professor of Accounting B.A., University
of North Carolina at Asheville, 1968, M.B.A.,
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University of Georgia, 1982 Date of ap-
pointment, 1982

*JoAnn Crook Carland, Ph.D.
Professor of Computer Information Systems
A.B., Meredith College, 1969, M.A.Ed.,
Western Carolina University, 1978, Ph.D.,
University of Georgia, 1981 Date of ap-
pointment, 1983

Mable Searcy Carlyle, M.N.
Associate Professor of Nursing B.S.N.,
Western Carolina University, 1973, M.N.,
Emory University, 1976 Date of ap-
pointment, 1976

Peter Shannon Parreno Carmichael, Ph.D.
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Ph.D., Pennsylvania State University, 1992,
1996 Date of appointment, 1997

*Calvin Dale Carpenter, Ed.D.
Professor of Special Education B.S.Ed.,
Albany State College, 1974, M.Ed., Valdosta
State College, 1975, Ed.D., Auburn University,
1979 Date of appointment, 1979

Timothy V. Carstens, M.L.S.
Assistant Professor, Hunter Library A.B.,
Colby College, 1982, M.L.S., Rutgers Univer-
sity, 1984 Date of appointment, 1990

Charles Joseph Carter, Ph.D.
Vice Chancellor for Business Affairs, In-
structor of Education B.A., Wofford Col-
lege, 1960, M.A., Ph.D., Florida State Univer-
sity, 1967, 1971 Date of appointment, 1977

Cindy A. Cavanaugh, Ed.D.
Assistant Professor of Health and Human
Performance B.S., Western Illinois Univer-
sity, 1976, M.A., Utah State University, 1984,
Ed.D., University of Georgia, 1994 Date of ap-
pointment, 1994

Marilyn S. Chamberlin, Ph.D.
Assistant Professor of Sociology B.A., M.S.,
Ph.D., Purdue University, 1986, 1990, 1994
Date of appointment, 1995

*Gurney Ernest Chambers, Ph.D.
Dean, College of Education and Allied Pro-
fessions, Professor of Education B.S., West-
ern Carolina University, 1961, M.A., Ph.D.,
Georgia Peabody College for Teachers, 1963,
1967 Date of appointment, 1967

Daman Lester Clapper, Ph.D.
Assistant Professor of Accounting and In-
fomation Systems B.A., Purdue University,
1985, Ph.D., Georgia State University, 1991 Date of appointment, 1996

*William August Clauss, Ph.D.
Director, Office for Rural Education, Asso-
ciate Professor of Education B.S.E., Ohio
University, 1962, M.Ed., Miami University,
1967, Ph.D., University of Miami, 1970
Date of appointment, 1985
*David B. Claxton, Ed.D.
Professor and Head, Health and Human Performance, B.S.P.E., M.S.Ed., Baylor University, 1974, 1975, Ed.D., Arizona State University, 1985 Date of appointment, 1993

Carl David Coffee, D.B.A.
Associate Professor of Accounting, B.B.A., Eastern Kentucky University, 1969, M.S., B.B.A., University of Kentucky, 1971, 1983 Date of appointment, 1988

Carol S. Conkell, Ph.D.
Assistant Professor of Health and Human Performance, Certification, Institute of Children’s Literature, Connecticut, 1980, B.A., University of Montana, 1976, M.S., Ph.D., Florida State University, 1990, 1993 Date of appointment, 1996

*Thomas Francis Connelly Jr., Ed.D.

*Jerry Lee Cook, Ed.D.
Professor of Industrial and Engineering Technology, B.S., Western Carolina University, 1969, M.S., Ed.D., University of Tennessee, 1971, 1978 Date of appointment, 1975

*Barbara Anne Cosper, Ph.D.
Associate Professor of Health Sciences, B.S., M.S., University of Alabama, 1967, 1969, Ph.D., Kansas State University, 1972 Date of appointment, 1977

James Thomas Costa, III, Ph.D.
Assistant Professor of Biology, B.S., SUNY College at Cortland, 1985, M.S., Ph.D., University of Georgia, 1988, 1992 Date of appointment, 1996

**Myron L. Coulter, Ed.D.

Mark Richard Couture, Ph.D.
Assistant Professor of Spanish, B.A., M.A., Michigan State University, 1986, 1988, Ph.D., Duke University, 1995 Date of appointment, 1996

*Frederick Alexander Coyle, Ph.D.

Michael David Creason, M.A.Ed.
Intramurals Director, Assistant Professor of Physical Education, B.S.Ed., M.A.Ed., Western Carolina University, 1972, 1974 Date of appointment, 1974

Patricia A. Cutspec, Ph.D.
Assistant Professor of Communication and Theatre Arts, B.A., Grove City College, 1982, M.A., University of Hartford, 1984, Ph.D., Purdue University, 1988 Date of appointment, 1994

Robert Lewis Dalley, M.S.
Associate Professor of Industrial and Engineering Technology, B.S., M.S., Bemidji State University, 1969, 1975 Date of appointment, 1977

*Ellis Duane Davis, Ph.D.
Professor of Criminal Justice, B.A., West Georgia College, 1969, M.Ed., University of Georgia, 1973, Ph.D., University of Southern Mississippi, 1980 Date of appointment, 1984

*Mary Diane Deck, Ph.D.
Associate Professor of Counseling/Human Services, B.A., Appalachian State University, 1971, M.Ed., University of North Carolina at Chapel Hill, 1974, M.A.Ed., Western Carolina University, 1982, Ph.D., University of Virginia, 1986 Date of appointment, 1990

George W DeSain, Ed.D.

Timothy D. DeSchriver, Ed.D.

*James Ralph DeVane, Ed.D.
Director, Center for Mathematics and Science Education, Associate Professor of Mathematics, B.S., Troy State University, 1960, M.A., University of Mississippi, 1965, Ed.D., University of Georgia, 1971 Date of appointment, 1971
*James Michael Dolan, Ph.D.
Associate Professor of Mathematics BA, Christian Brothers College, 1959, MA, Ph D, University of Tennessee, 1962, 1967
Date of appointment, 1973

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Mary Anne Fritz Nixon, J.D.  
Associate Professor of Business Law  
A.B.,Lenoir-Rhyne College, 1967; J.D., North Carolina Central University, 1983  
Date of appointment, 1984

*Rita Kay Thomas Noel, Ph.D.*  
Associate Professor of Business and Office Administration  
B.S., California State University, 1962; M.S., Southern Illinois University, 1986; Ph.D., University of Tennessee, 1988  
Date of appointment, 1988

*Nicholas John Norgaard, Ph.D.*  
Associate Professor of Mathematics  
B.S., M.S., University of Wisconsin at Platteville, 1965, 1969; M.S., Ph.D., University of Georgia, 1972, 1975  
Date of appointment, 1973

Nancy Ann Norris, Ph.D.  
Associate Professor of Spanish  
B.A., University of Maryland, 1971; M.A., Middlebury College, 1972; Ph.D., Indiana University, 1978  
Date of appointment, 1989

*Mary F. Norton, Ph.D.*  
Acting Associate Dean, College of Arts and Sciences and Assistant Professor of English  
B.A., M.A., University of Wyoming, 1980, 1982; Ph.D., University of Kentucky, 1990  
Date of appointment, 1992

*Billy T. Ogletree, Ph.D.*  
Head and Assistant Professor, Department of Human Services  
B.S., University of Southern Mississippi, 1979; M.A., Memphis
State University, 1981, Ph D , Florida State University, 1988 Date of appointment, 1992

Nonso Okereafoezeke, Ph.D.
Assistant Professor of Criminal Justice

Thomas Oren, Ph.D.
Assistant Professor of Special Education/Human Services
B A , St Cloud State University, 1970, M A , Eastern Kentucky University, 1975, Ph D , The Pennsylvania State University, 1996 Date of appointment, 1997

Anita Katharina Oser, Ph.D.
Reference and Map Librarian, Associate Professor, Hunter Library
A B , University of Miami, 1958, M A , Florida State University, 1959, M A , Florida Atlantic University, 1972, Ph D , Florida State University, 1994 Date of appointment, 1973

John W. Owens, Ph.D.
Assistant Professor of Communication and Theatre Arts

*Stephen Dennis Owens, Ph D.
Associate Professor of Management

*James W. Pearce, Ph.D
Associate Professor of Management
B S , North Carolina State University, 1970, J D , University of South Carolina Law School, 1973, Ph D , Georgia State University, 1992 Date of appointment, 1991

Lillian Esther Pearson, D.M.
Associate Professor of Music

*William L. Peebles, Ph.D.
Assistant Professor of Music

Kevin L. Pennington, Ph.D.
Assistant Professor of Administration, Curriculum, and Instruction

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Susan Culbreth Persons, M.A.Ed.
Assistant Professor of Health and Human Performance
B S , High Point College, 1965, M A Ed , Western Carolina University, 1970 Date of appointment, 1970

Virgina L. Peterson, Ph.D.
Assistant Professor of Geology
B A , Grand Valley State College, 1980, M S , Ph D , University of Massachusetts, 1984, 1992 Date of appointment, 1994

*Louis Petrovich-Mwaniki, Ph.D.
Associate Professor of Art
B F A , Carnegie-Mellon University, 1971, M Ed , Indiana University of Pennsylvania, 1980, Ph D , Purdue University, 1987 Date of appointment, 1990

L. Scott Philyaw, Ph.D.
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Maurice L. Phipps, Ph.D.
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M S , Mankato State University, 1984, Ph D , University of Minnesota, 1986 Date of appointment, 1992

Judith T. Pilch, M.Ed.
Associate Director of Rural Education, Instructor of Elementary Education and Reading
B S , Springfield College, 1955, M Ed , University of Arkansas, 1970 Date of appointment, 1986

*Jack Daniel Pittillo, Ph.D.
Professor of Biology
A B , Berea College, 1961, M S , University of Kentucky, 1963, Ph D , University of Georgia, 1966 Date of appointment, 1966

*Robert Beasley Pittman, Ph.D.
Professor of Education
A B , M A Ph D , University of North Carolina at Chapel Hill,
1969, 1974, 1975  Date of appointment, 1975

*Gary Lee Pool, Ph.D.
Professor of Chemistry  B S , South Dakota State University, 1964, Ph D , University of Wyoming, 1968  Date of appointment, 1970

*John Dale Pounds, M.S.C.E.
Dean, College of Applied Sciences, Professor of Industrial and Engineering Technology  B S C E , M S C E , Purdue University, 1964, 1966  Date of appointment, 1977

*Homer Edward Price, Jr., Ph.D.
Associate Professor of Sociology  B A , Rice University, 1965, M A , Ph D , University of California, Berkeley, 1967, 1973  Date of appointment, 1971

Eleanor Steinback Prochaska, Ph.D.
Director of Math-Science Resource Center, Instructor of Mathematics  B S , University of California, Berkeley, 1973, Ph D , University of Virginia, 1978  Date of appointment, 1980

*Frank Thomas Prochaska, Ph.D.
Interim Associate Vice Chancellor for Academic Affairs, Professor of Chemistry  B A , Hunter College of the City University of New York, 1971, Ph D , University of California, Berkeley, 1977  Date of appointment, 1978

Brian William Raichle, Ph.D.
Assistant Professor of Chemistry and Physics  B S , West Chester University of Pennsylvania, 1989, Ph D , North Carolina State University, 1997  Date of appointment, 1997

Brian E. Railsback, Ph.D.
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*Mickey Mildred Kay Randolph, Ph.D.
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Lisen C. Roberts, Ph D.
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*Anne Frazer Rogers, Ph.D.
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Thomas J. Rosbach, Ph.D.

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Sabine Jos Rundle, Ph.D.
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Sandra M. Saunders, Ph.D.
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Max Moise Schreiber, Ph.D.
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*Gerald Schwartz, Ph.D.
Professor of History  B A , Mexico City College, 1960, Ph D , Washington State University, 1969  Date of appointment, 1969

Mary S. Schwartz, M.A.
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Valerie L Schwiebert, Ph.D.
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Date of appointment, 1995

*David Allen Shapiro, Ph.D.
Professor of Communication Disorders/Human Services
MS, University of Vermont, 1977, Ph D, Indiana University, 1984
Date of appointment, 1984

Ronald E. Shiffler, Ph.D.
Dean, College of Business, Professor of Management
BS, University of North Carolina at Greensboro, 1970, MS, Bucknell University, 1972, M A S, Ph D, University of Florida, 1974, 1980
Date of appointment, 1996

Elizabeth Simmons-Rowland, M S
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BSN, Northeastern University, 1977, MS, Boston University, 1980
Date of appointment, 1989

John William Slater, Ph.D.
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BA, DePauw University, 1960, MA, Ph.D, University of North Carolina at Chapel Hill, 1971, 1994
Date of appointment, 1994

Donald N. Smith Jr, Ph.D.
Assistant Professor of English
BA, Ph D, University of North Carolina at Chapel Hill, 1962, 1974
Date of appointment, 1993

*Gary C. Smith, Ph.D
Associate Professor of Health Sciences
BS, Clarion State College, 1964, MS, Ohio University, 1967, Ph.D, University of Georgia, 1971
Date of appointment, 1989.

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AA, American River College, 1971, BA, California State University-Sacramento, 1975, BSN, MSN, California State University-Fresno, 1989, 1997
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Penelope Sue Smith, Ed.D.
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Professor of Art
BS, East Carolina University, 1961, MA, Washington State University, 1968
Date of appointment, 1996

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Date of appointment, 1990

*Joseph S. Sportsman, Ph.D.
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BS, B A, University of North Carolina at Greensboro, 1975, 1980, Ph D, University of Illinois, 1987
Date of appointment, 1992

Kathy A. Starr, Ph.D.
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BS, Florida State University, 1973, MSB, Western Carolina University, 1986, MSA, Ph D, Albany Medical College, 1990, 1992
Date of appointment, 1996

Kathleen L. Stauffer, MSN-GNP.
Visiting Assistant Professor of Nursing
BSN, Western Carolina University, 1993, MSN-GNP, UNC-Greensboro, 1996
Date of appointment, 1996

Roger Stelk, M.S L.LS
Assistant Professor/Director of Public Services of Hunter Library
Date of appointment, 1997

Carol Crane Stephens, D S N.
Associate Professor of Nursing
BSN, The Ohio State University, 1971, 1973, DSN, University of Alabama, Birmingham, 1994
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*Richard L. Stephens, Ph.D.
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*Charles J. Stevens, Ph.D
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Assistant Professor of Health and Human Performance A A , Rochester Community College, 1970, B S , M S , Mankato State University, 1972, 1989, Ph D , University of Minnesota, 1994  Date of appointment, 1993

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Patricia Ann Umfress, Ph.D.
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Kurt G. Vandervoort, Ph.D.
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*John H. Wakeley, Ph.D.
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*James William Wallace Jr., Ph.D.
Professor of Biology  B S, M S, Miami University, 1962, 1964, Ph D, University of Texas at Austin, 1967  Date of appointment, 1967

Charles K. Walls, Ph.D.
Assistant Professor in Mathematics and Computer Sciences  B S, North Carolina State University, 1984, M S, Ph D, Clemson University, 1990, 1994  Date of appointment, 1995

*Joe Daniel Walters, Ed.D.
Associate Professor of Education  B S, Mississippi State University, 1960, M S, Baylor University, 1966, Ed D, University of Florida, 1970  Date of appointment, 1973

*Brian George Joseph Walton, Ph D.
Associate Professor of History  A B, M A, Cambridge University, 1964, 1968, M A, Ph D, Vanderbilt University, 1965, 1968  Date of appointment, 1967

Benjamin Franklin Ward, A.M.
Associate Director, Institute for College and University Teaching, Director, Myron L Coulter Faculty Center for Excellence in Teaching and Learning, Instructor of Education  B A, Rockford College, 1974, A M, University of Illinois, 1974  Date of appointment, 1981

Beverley J Ward, M S.S W.
Assistant Professor of Social Work  B A, University of South Carolina, 1958, M S S W, University of Tennessee, 1973  Date of appointment, 1993

Mary Louise Warner, D.A.
Assistant Professor of English  B A, Mount Mary College, 1975, M A, Creighton University, 1985, D A, University of Michigan, 1992  Date of appointment, 1996

*Jerry Lee West, Ph D.
Professor of Biology  B S, Appalachian State University, 1962, M S, Ph D, North Carolina State University at Raleigh, 1965, 1968  Date of appointment, 1967

*John Thomas West, Ph.D.
Band Director, Associate Professor of Music  B A, University of South Florida, 1976, M M E, Ph D, Florida State University, 1982, 1985  Date of appointment, 1985

David L. Westling, Ed.D.

Seungoog Weun, Ph.D.
Assistant Professor of Business Administration, Law and Marketing  B A, Hankuk University of Foreign Studies, Korea, 1986, M B A, University of Missouri-Columbia, 1990, Ph D, University of Alabama, 1997  Date of appointment, 1997

*Betsy S. Whitley, M.L.S.

*Hedy Judith White, Ph D.
Professor of Psychology  B A, Skidmore College, 1963, M A, California State University, 1978, Ph D, Claremont Graduate School, 1982  Date of appointment, 1983

Katherine L. White, Ph.D.
Head and Professor, Department of Physical Therapy  B A, Ph D, Emory University, 1958, 1981, M P H, University of North Carolina at Chapel Hill, 1967  Date of appointment, 1995

Paul Gary White, Ph.D
Associate Professor of Geography  B A, M A, Fresno State University, 1968, 1969, Ph D, University of Denver, 1973  Date of appointment, 1974

*Gary A. Williams, D.B.A.
Associate Professor of Computer Information Systems  B B A, M B E, North Texas State University, 1968, 1969, D B A, Texas Tech University, 1974  Date of appointment, 1990

*Harold J. Williford, Ed.D.

Ralph Houston Willis, M.A.
Associate Professor of Mathematics  B S, M A, Middle Tennessee State University,
1964, 1966 Date of appointment, 1968

Karl D. Wilmath, Ph.D.
Assistant Professor of Modern Foreign Languages B A , Southeast Missouri State University, 1965, M A , Ph D , University of Kansas, Lawrence, 1967, 1979 Date of appointment, 1995

Rick W. Wilson, Ph.D.
Assistant Professor of Physical Therapy B S , University of Maryland, 1977, M S , University of Alabama, 1980, Ph D , University of Virginia, 1995 Date of appointment, 1996

LeVon E. Wilson, J.D.
Head of Business Administration and Law, Associate Professor of Business Law B S B A , Western Carolina University, 1976, J D , North Carolina Central University, 1979 Date of appointment, 1991

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Assistant Professor of Hunter Library B A , Bloomfield College, 1963, M L I S , Louisiana State University, 1986 Date of appointment, 1996

*Kenneth A. Wink, Ph.D.
Assistant Professor of Political Science and Public Affairs B A , Northeast Louisiana University, 1984, M A , Baylor University, 1987, Ph D , Louisiana State University, 1992 Date of appointment, 1992

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Instructor of Health and Human Performance B S , M Ed , Western Carolina University, 1975, 1984 Date of appointment, 1995

*Curtis William Wood Jr., Ph.D.
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Donald Charles Wood, M.I.E.
Associate Professor of Industrial and Engineering Technology B S , M I E , Western Carolina University, 1971, 1973 Date of appointment, 1974

*Royce Stanley Woosley, Ph D.
Professor of Chemistry B S , Western Kentucky State College, 1956, M S , University of Connecticut, 1959, Ph D , Ohio University, 1967 Date of appointment, 1966

Christine M. Wright, Ph.D.
Assistant Professor of Management B S B A , Duquesne University, 1988, M B A , Quinnipiac College, 1992, Ph D , Kent State University, 1997 Date of appointment, 1997

Clarence Paul Wright, Ph.D.
Acting Department Head and Associate Professor of Biology B S , Lenior-Rhyne College, 1962, M A , Ph D , University of Utah, 1965, 1968 Date of appointment, 1968

Kathleen Sandquist Wright, Ph.D.
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Steven T. Yen, Ph.D.
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Jane W. Young, Ph.D.
Assistant Professor of Health and Human Performance B S , University of Kentucky, 1959, M S , Ph D , Clemson University, 1992, 1996 Date of appointment, 1997

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Assistant Professor of Geology B S , College of William and Mary, 1987, M S , University of Maine, 1990, Ph D , Duke University, 1995 Date of appointment, 1997

*Steven Peter Yurkovitch, Ph.D.
Acting Dean of Research and Graduate Studies and Professor of Geology B S , University of Dayton, 1966, Sc M , Ph D , Brown University, 1968, 1972 Date of appointment, 1971

Junlin Zhao, Ph.D
Assistant Professor of Human Environmental Sciences B A , Beijing Second Foreign Language Institute, 1979, M A , Indiana University of Pennsylvania, 1988, Ph D , Virginia Polytechnic Institute, 1994 Date of appointment, 1992
PART-TIME FACULTY

Department of Accountancy
Carlos Benavente

Department of Administration, Curriculum, and Instruction
Joseph Barwick
Jo Edith Burchfiel
Charles Byrd
Cynthia Calloway
Don Chalker
Anta Churm
Gail Debnam
Betty Kirwan
Roger Metcalf
Vernon O'Dell
Pam Preston

Department of Anthropology/Sociology
Jane L Brown

Department of Art
Brenda Coates
Kevin Kirkpatrick
George Rector

Department of Biology
Kathlyn S Johnson
Trevor Rundle

Department of Business Administration and Law
Teresa David
Jayne Hunter
Bryan Lindsey
Carolyn Rauch

Department of Chemistry/Physics
Louis R Alexander
Elizabeth R Barnhart
Karen L Butler
Laura K Decker
Franklin Glenn Liming
Edwin G Vassian

Department of Communication/Theatre Arts
Suzon Hawley
Jim Manning

Department of Criminal Justice
Malcolm Abel
Laura Burke Leatherwood

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Cecil Brooks
Jill Cavighia
Derek Prickett

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Jeanette Hedrick
Janice Holt
Ruth Abernethy McCreary
Miles McGinty
Carolyn Beardsley Meigs
Will Verrone

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Carol A Childs
Katherine Cipriano
Gerri Lynn Dobbins
Dawn Gilchrist Young
Luann D Ham
Linda Kinney
Margaret Deveavours Kiser
Mary Schwartz
Mary Whitmire

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Brian Bennett
Jonathan L Burr
Anita Osier
Chester Pankowski
Mary Tipton

Department of Health and Human Performance
James M Brown
Jarrett Foster
Jay Guffey
MaryAnn Ingram
Annette L Jacobs
Mary Ochoa
Debby Singleton
Otto Spilker
John Willson

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Nilofer Couture
Jim Delong
Sally J Feltner
Craig Harris
James Jarvis
Candy Rutledge
Donna Taylor
Susan Van Tassel
Nancy Lee Williams
Department of History
Jane L Brown
Cletus Fortwendle
Richard Starnes

Department of Human Environmental Sciences
Kim Duckett
Cathy Litty
Marna Holland

Department of Human Services
Bob Andersen
Sherry Baldwin
Deborah Barker
Beth Baxley
Kim Carpenter
Ben Coulter
Joan Ferrara
Janaye Houghton
Marissa Ray
Debbie Taylor
Pat Wishon

Department of Mathematics and Computer Science
Larry A Gratton

Department of Music
Cathy Arps
Jean Barry
Mike Nicholl
Eliot Wadopian
Michael V Waters

Department of Nursing
Jane Burns
Kristine Gillet
Joanne Gregory
Judy Mallory
Rita Moss
Patricia Oocumma
Dan Radulescu

Department of Philosophy/Religion
William G Weinhauser

Department of Physical Therapy
Fred Ireland

Department of Political Science and Public Affairs
Stewart F LaMotte Jr
John G Roberts

Department of Psychology
John Childress
William Chovan
Michelle Mazzucco
Barbara Routhieaux
Dan Synder

Department of Social Work
Raymond Samuel Ledford
ADJUNCT FACULTY

Lacy H. Thornburg, J.D.
Adjunct Professor of Political Science and Criminal Justice Former Attorney General of North Carolina Date of appointment, 1993

Louis R. Alexander, Ph.D.
Adjunct Associate Professor in Chemistry and Physics Research Chemist, Centers for Disease Control Date of appointment, 1991

Elizabeth R. Barnhardt, Ph.D.
Adjunct Associate Professor in Chemistry and Physics Research Chemist, Centers for Disease Control Date of appointment, 1991

Barbara Bell, M.A.Ed.
Adjunct Assistant Professor of Nursing Date of appointment, 1993

Richard E. Blalock, Ph.D.
Adjunct Assistant Professor of Psychology Supervisor, Psychological Services, Buncombe County Schools Date of appointment, 1994

Michael Carrozza, MPH
Adjunct Instructor of Nursing Associate Director of Nursing Education, Mountain Area Health Education Center Date of appointment, 1997

Jonathan A. Coddington, Ph.D.
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Margaret E. Cook, M.S.N.
Adjunct Assistant Professor of Nursing Executive Director, WNC Health Network Date of appointment, 1986

Gerald Doering, Ph.D.
Adjunct Associate Professor in Administration, Curriculum, and Instruction Coordinator of Curriculum and Testing, K-12, Cherokee Central School Date of appointment, 1994

Helen Louise Farrell, M.S.N.
Adjunct Assistant Professor of Nursing Date of appointment, 1981

Lisa Frendenberg, Ph.D.
Adjunct Associate Professor of Psychology Associate Professor of Psychology, University of North Carolina at Asheville Date of appointment, 1982

Kendall A. Gilligan, MD
Adjunct Professor of Health Sciences Emergency Medicine, Harms Regional Hospital Date of appointment, 1996

Hettie Garland, Ed.D.
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Kathryn Greeley, M.S.
Adjunct Instructor of Human Environmental Sciences Owner, Noland Interiors, Inc Date of appointment, 1985

Lou Hammond, MSN
Adjunct Assistant Professor of Nursing Vice President, Operations and Nurse Executive, Mission Hospital Date of appointment, 1997

Robert P. Higgins, Ph.D.
Adjunct Professor of Biology Curator, Department of Invertebrate Zoology, National Museum of Natural History, Smithsonian Institution Date of appointment, 1989.

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James K. Lynch, M.N.
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Adjunct Research Professor of Psychology
Distinguished Visiting Professor at WCU
Date of appointment, 1991

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Faculty member, Southwestern Community College
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Olin R. Wood, Ed.D.
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Date of appointment, 1982
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maynard F Adams, Ed D</td>
<td>Professor of Industrial and Engineering Technology</td>
</tr>
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<td>J Harold Anderson, Ed D</td>
<td>Professor of Education</td>
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