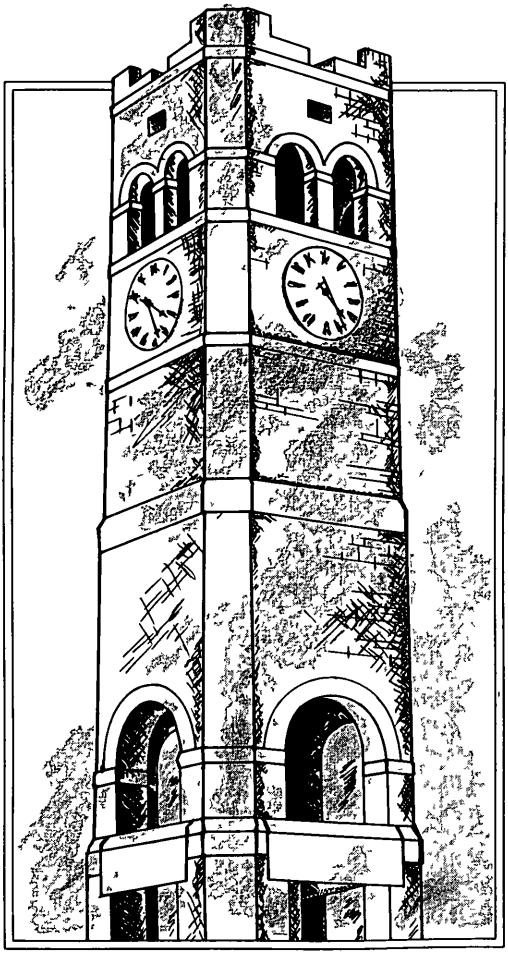
A COMMUNITY OF SCHOLARSHIP



WESTERN CAROLINA UNIVERSITY

THE RECORD

GENERAL CATALOG ISSUE

1991-1992

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, or handicap 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 black students

For information concerning affirmative action policies and procedures, contact the Compliance Office, 460 H F Robinson Administration Building, Western Carolina University, Cullowhee, North Carolina 28723, telephone (704) 227-7147

The *General Catalog Issue* is one of three issues of **The Record** published by Western Carolina University giving full details of academic programs and regulations Others in the series are *Graduate School Issue* and *Summer School Issue*

Copies of the appropriate issues are made available to all students registered at the university, high school principals and guidance counselors, college and university libraries, and to all public and private high schools and institutions of higher learning in North Carolina Additional copies are available for $1 00 each from the Office of Admissions, Western Carolina University, Cullowhee, North Carolina 28723, telephone (704) 227-7317 Twelve thousand copies of this public document were printed at a cost of $13,465, or $1 12 per copy

The Western Carolina University Record

Vol LXVII February 1991 No 3

CONTENTS

Academic Calendar 2

Telephone Numbers 4

The University 5

Student Services 16

Fees and Financial Aid 24

Admission 39

Academic Regulations 44

Degree Programs and Requirements 56

University Requirements and Programs 57

The School of Arts and Sciences 67

The School of Business 89

The School of Education and Psychology 95

The School of Nursing and Health Sciences 105

The School of Technology and Applied Science 112

The Graduate School 122

Course Descriptions 124

The Register 229

Index 256

ACADEMIC CALENDAR*

Fall Semester 1991

August 22, Thursday, 3 00-6 00 p m	Registration in Asheville
August 25, Sunday, 8 00 a.m	Residence halls open for students attending orientation
August 25, Sunday, 12 30 p m	Residence halls open for all students
August 25, Sunday	Orientation for new freshmen and new transfer students in Cullowhee
August 26, Monday, 9·00 a.m -4 00 p m	Registration in Cullowhee for students attending orientation
August 26, Monday, 4 30-6 30 p m	Registration in Asheville continues
August 27-28, Tuesday-Wednesday 9 00 a.m -4 00 p.m	Registration continues in Cullowhee, schedule changes
August 27, Tuesday, 6 00 p.m	Evening classes in Cullowhee and Asheville begin
August 28, Wednesday	Day classes in Cullowhee begin
August 28-30, Wednesday-Friday	Late registration and schedule changes in Cullowhee[1]
August 31- Sept 2, Sat , 5 00 p.m -Mon	Labor Day holiday
September 3, Tuesday, 8 00 a.m	Classes resume
October 12-15, Sat., 5 00 p m -Tues	Fall holiday
October 16, Wednesday, 8 00 a.m	Classes resume
October 18, Friday	Last day to drop a course with a W
October 28, Monday	Last day for students completing programs in May to file degee application in the deans' offices
November 4-15, Monday-Friday	Academic advising for spring semester and early registration in Cullowhee
Nov 27-Dec 1, Wed., 2 00 p m -Sun	Thanksgiving holiday
December 2, Monday, 8 00 a.m	Classes resume
December 10, Tuesday	Last day of classes
December 11, Wednesday	Reading day
December 12-18, Thursday-Wednesday	Final examinations
December 19, Thursday	Christmas holiday begins

Spring Semester 1992

January 9, Thursday, 3 00-6 00 p m	Registration in Asheville
January 12, Sunday	Residence halls open Orientation for new students
January 13, Monday, 4 30-6 30 p.m	Registration in Asheville continues
January 13, Monday, 9 00 a.m -4 00 p.m	Registration in Cullowhee for new, continuing, and readmitted students
January 13, Monday, 6 00 p.m	Evening classes in Cullowhee and Asheville begin
January 14, Tuesday	Day classes in Cullowhee begin
January 14-17, Tuesday-Friday	Late registration and schedule changes in Cullowhee[1]
January 20, Monday	Martin Luther King's Birthday holiday
Feb 29-March 8, Sat , 5 00 p m -Sun	Spring holiday
March 9, Monday, 8 00 a.m	Classes resume
March 11, Wednesday	Last day to drop a course with a W
March 23, Monday	Last day for students completing programs in summer or fall to file degree applications
March 30-April 10, Monday-Friday	Academic advising for summer and fall

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

[1] A late registration fee of $10.00 will be charged for all classes in Cullowhee

	semester and early registration in Cullowhee
April 17-19, Fri , 8 00 a.m -Sunday	Easter holiday
April 20, Monday, 8 00 a.m	Classes resume
May 1, Friday	Last day of classes
May 2-8, Saturday-Friday	Final examinations
May 9, Saturday	Commencement

Summer Term 1992

June 1-August 7	Summer session (ten-week session)
June 1-July 3	First summer session
July 6-August 7	Second summer session
August 7, Friday	Commencement

Fall Semester 1992 (Subject to Change)

August 20, Thursday, 3 00-6 00 p.m	Registration in Asheville
August 23, Sunday, 8 00 a.m	Residence halls open for students orientation
August 23, Sunday, 12 30 p m	Residence halls open for all students Orientation for new freshmen and new transfer students in Cullowhee
August 24, Monday, 9 00 a.m -4 00 p m	Registration in Cullowhee for students attending orientation
August 24, Monday, 4 30-6 30 p.m	Registration in Asheville continues
August 25-26, Tuesday-Wednesday 9 00 a.m -4 00 p m	Registration continues in Cullowhee, schedule changes
August 25, Tuesday, 6 00 p m	Evening classes in Cullowhee and Asheville begin
August 26, Wednesday	Classes in Cullowhee begin
August 26-28, Wednesday-Friday	Late registration and schedule changes in Cullowhee[1]
September 5-7, Saturday 5 00 p m -Monday	Labor Day holiday
September 8, Tuesday, 8 00 a m	Classes resume
October 14, Wednesday	Last day to drop a course with a W
October 17-20, Saturday 5 00 p m -Tuesday	Fall holiday
October 21, Wednesday, 8 00 a.m	Classes resume
October 26, Monday	Last day for students completing programs in May to file degree application in the deans' offices
November 2-13, Monday-Friday	Academic advising for spring semester and early registration in Cullowhee
November 25-29, Wednesday, 2 00 p m -Sunday	Thanksgiving holiday
November 30, Monday, 8 00 a.m	Classes resume
December 8, Tuesday	Last day of classes
December 9, Wednesday	Reading day
December 10-16, Thursday-Wednesday	Final examinations
December 17, Thursday	Christmas holiday begins

Spring Semester 1993

January 7, Thursday, 3 00-6 00 p.m	Registration in Asheville
January 10, Sunday	Residence halls open. Orientation for new students
January 11, Monday, 4 30-6 30 p m	Registration in Asheville continues
January 11, Monday, 9 00 a.m -4 00 p.m	Registration in Cullowhee for new, continuing and readmitted students
January 11, Monday, 6 00 p.m	Evening classes in Cullowhee and Asheville begin

January 12, Tuesday	Day classes in Cullowhee begin
January 12-15, Tuesday-Friday	Late registration and schedule changes in Cullowhee[1]
January 18, Monday	Martin Luther King's Birthday holiday
February 27-March 7, Saturday, 5 00 p.m -Sunday	Spring holiday
March 8, Monday, 8 00 a.m	Classes resume
March 10, Wednesday	Last day to drop a course with a W
March 22, Monday	Deadline for students completing programs in summer or fall to file degree applications in deans' offices
March 29-April 8, Monday-Thursday	Academic advising for summer and fall semester and early registration in Cullowhee
April 9-11, Friday, 8 00 a.m -Sunday	Easter holiday
April 12, Monday, 8 00 a.m	Classes resume
April 30, Friday	Last day of classes
May 3-7, Saturday-Friday	Final examinations
May 8, Saturday	Commencement

TELEPHONE NUMBERS

	Area Code 704
Academic Advising	227-7170
Academic Affairs Office	227-7495
Admissions, Readmissions	227-7317
Book Store	227-7345
Employment, Student	227-7170
Fees	227-7334
Financial Aid, Loans, Scholarships	227-7290
Fraternities, Sororities, Clubs	227-7234
General Student Information	227-7234
Housing	227-7303
International Students	227-7234
Orientation	227-7234
Registrar, Student Records, Transcripts	227-7217
Schools	
School of Arts and Sciences	227-7646
School of Business	227-7401
School of Education and Psychology	227-7311
School of Nursing and Health Sciences	227-7406
School of Technology and Applied Science	227-7272
Graduate School	227-7398
Veterans Affairs	227-7234

THE UNIVERSITY

Western Carolina University is one of the sixteen public senior institutions of The University of North Carolina It is a comprehensive university, authorized to offer programs of study at the baccalaureate, master's, and intermediate levels The university comprises five undergraduate schools—Arts and Sciences, Business, Education and Psychology, Nursing and Health Sciences, and Technology and Applied Science—and a Graduate School Statewide in scope, the university has a special sense of responsibility to the western region of North Carolina

Role and Mission

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

The most important activity at Western Carolina University is student-teacher involvement in learning Students with a wide range of academic abilities and aptitudes may enter the university but those who are graduated are expected to be knowledgeable, competent in critical thinking and communication skills, aware of ethical and aesthetic values, and productive in employment and general life settings

Scholarly service and research are essential to the goals of the university Service is encouraged that extends the benefits of university scholarship to regional, state, national, and international constituencies Research and creative activity are encouraged that provide opportunities for faculty members and students to engage in the exploration and development of knowledge and that support student-teacher interaction.

Principal Functions

The principal function of the university is to provide an academic curriculum appropriate to its role and mission, essentially for the benefit of the people of North Carolina This curriculum primarily is offered on the Cullowhee campus Graduate and undergraduate programs are extended to students through centers in Asheville and in Cherokee Credit and noncredit courses also are sponsored in a variety of locations by the Division of Continuing Education

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

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 325 serves a student body of almost 6,500 in resident-credit and extension classes

The Cullowhee campus is in a 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 Tuckaseigee River basin gives it an unusually attractive setting. There is airline service to Asheville. The university provides a bus service between Sylva and Cullowhee for students. Private taxi service also is available.

The central campus consists of about 400 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 offering golf, skiing, fishing, hunting, hiking, water sports, and other recreational opportunities are located 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. In addition to this institutional accreditation, other special accreditation by appropriate agencies includes:

Accreditation Board for Engineering and Technology, Inc.
American Assembly of Collegiate Schools of Business
American Dietetic Association (Approved Plan V Program)
Committee on Allied Health Education and Accreditation of the American Medical Association in cooperation with the American Medical Record Association, the National Accreditation Agency for Clinical Laboratory Sciences, and the Joint Review Committee on Educational Programs for the EMT-Paramedic
Council for Professional Development of the American Home Economics Association
Council on Social Work Education
National Accreditation Council for Environmental Health Curricula
National Association of Schools of Music
National Council for Accreditation of Teacher Education
National League for Nursing
North Carolina Board of Nursing
North Carolina Department of Public Instruction

The university is a member of appropriate state and national associations and organizations to which its professional programs are related. These include but are not limited to:

Academy of Criminal Justice Sciences
American Association of Colleges for Teacher Education
American Association of Colleges of Nursing
American Association of Higher Education
American Association of State Colleges and Universities
American Council on Education
American Society of Allied Health Professions
Association for Theatre in Higher Education
Association for Continuing Higher Education
Association of Governing Boards of Universities and Colleges
College Entrance Examination Board

Conference of Southern Graduate Schools
Cooperative Education Association
Council of Graduate Schools in the United States
Institute for International Education, Inc
International Council for Small Business
National Association of Student Financial Aid Administrators
National Business Education Association
National University Continuing Education Association
North Carolina Academy of Science
North Carolina Association of Colleges and Universities
North Carolina Bar Association
North Carolina Criminal Justice Education and Training Standards Commission
Southeastern Theatre Conference
Southern Atlantic States Association for Asian and African Studies
Southern Regional Education Board
Southern States Communication Association
Speech Communication Association
United States Institute for Theatre Technology

Academic Program

A varied academic program is offered by the university's six schools Through the Graduate School, the university offers graduate degree programs in numerous major areas leading to the Master of Arts, Master of Science, Master of Business Administration, Master of Health Sciences, Master of Music Education, Master of Industrial Education, Master of Science in Technology, Master of Project Management, Master of Public Affairs, Master of Arts in Education degrees, the Education Specialist degree, and the Certificate of Advanced Study in Counseling 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 School Issue* of **The Record.**

The five undergraduate schools of the university offer programs leading to the Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Science, Bachelor of Science in Business Administration, and Bachelor of Science in Education

The School of Arts and Sciences. Bachelor of Arts with majors in Anthropology, Art, Chemistry, English, French, Geology, German, History, Music, Political Science, Radio and Television, Social Sciences, Sociology, Spanish, and Speech and Theatre Arts The Bachelor of Arts with a major in Economics, offered in collaboration with the School of Business, is on inactive status

Bachelor of Fine Arts with majors in Art and in Theatre

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

The School of Business. Bachelor of Science in Business Administration with majors in Accounting, Business Administration and Law, Computer Information Systems, Economics, Finance, Management, Marketing, and Office Administration

The School of Education and Psychology. Bachelor of Science in Education with majors in Communication Disorders, Elementary Education, General Special Education, Health Education, Learning Disabilities, Mental Retardation, Middle Grades Education, and Physical Education

In collaboration with the School of Arts and Sciences Bachelor of Science in Education with majors in Art, Biology, English, French, German, Mathematics, Music, Science Education, Social Sciences, Spanish, and Speech and Theatre Arts

In collaboration with the School of Business Bachelor of Science in Education with a major in Business

In collaboration with the School of Technology and Applied Science Bachelor of Science in Education with majors in Industrial Arts, and Home Economics.

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

The School of Nursing and Health Sciences. Bachelor of Science with majors in Emergency Medical Care, Environmental Health, Health Services Management and Supervision, Medical Record Administration, Clinical Laboratory Sciences, and Nursing

The School of Technology and Applied Science. Bachelor of Science with majors in Child Development and Family Relations, Clothing, Textiles, and Merchandising, Criminal Justice, Electronic Engineering Technology, Food Service Management, General Home Economics, Industrial Distribution, Industrial Technology, Interior Design, Nutrition and Dietetics, and Manufacturing Engineering Technology

The Academic Calendar

Western Carolina University operates on an academic year of two semesters of 15 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 spring semester and the second summer session

Western Carolina University Programs in Asheville

Western Carolina University offers, in 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 and industrial technology, and criminal justice This program of instruction utilizes the educational facilities and resources of the University of North Carolina at Asheville In so doing, the two universities, working cooperatively with programs of instruction in the evening as well as on Saturday, make maximum use of these facilities while assisting people who are fully employed to secure further academic work The programs provided, intended principally for the residents of Buncombe and surrounding counties, are attended by students who commute from considerable distances throughout the region

All of the course requirements for master's degrees in business administration, project management, elementary education, middle grades education, health sciences, reading, counseling, human resource development, math education, mental retardation, general special education (with concentrations in behavioral disorders, learning disabilities, and mental retardation) public affairs, social science, school administration, and school supervision are offered by the university The Education Specialist degree is offered in selected areas, including options which lead to recommendation for advanced certificates for elementary educators, middle grades educators, principals, superintendents, general supervisors, and curriculum specialists in a number of fields in secondary education. Two-year college programs are available at the master's and Ed S levels

Some of the courses for master's degrees in biology, communication disorders, curriculum and instruction, English, history, home economics with an option for preprofessional practice in dietetics, industrial technology, mathematics, music education, physical education, psychology, and science education are also available WCU programs in Asheville are affiliated with the Asheville Graduate Center

Most of the course requirements for the Bachelor of Science degree in criminal justice and health services management and supervision are offered through the WCU Programs in Asheville Through interinstitutional agreements, a program is available to students in

Asheville leading to the Bachelor of Science in Nursing degree from Western Carolina University Also, through an interinstitutional partnership with Asheville- Buncombe Technical Community College, most of the course requirements for a Bachelor of Science degree in Electronic Engineering Technology, Industrial Technology, and Manufacturing Engineering Technology are offered

In addition to the courses offered by Western Carolina University, the University of North Carolina at Asheville offers supporting general education courses which carry applicable credit for those students pursuing degrees from Western Carolina University

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

Western Carolina University Center in Cherokee

The Western Carolina University Center in Cherokee was established in 1975 in cooperation with the Tribal Government of the Eastern Band of the Cherokee Indians The program at this resident-credit center serves Cherokee and the surrounding communities and is available to all of the people of the region Offices of the center are located in Cherokee, across from the Cherokee High School, and in the administration building at Cullowhee

Hunter Library

The library contains more than 395,000 books and bound periodical volumes, and one million units of microform Approximately 3,000 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 over 140,000 government documents and adds important items monthly Of special interest is the North Carolina Documents Collection which houses publications generated by state government

Hunter Library is also a map depository for the United States Geological Survey and the Defense Mapping Agency The map room contains over 97,000 sheet maps as well as atlases, satellite imagery, and aerial photographs

Local and regional history is served by the Department of Special Collections which includes the University archives and manuscripts and rare books pertaining to the Eastern band of the Cherokee Indians, western North Carolina, southern Appalachia and wilderness conservation, and the behavioral characteristics of spiders

As a service for professional education programs, a curriculum library is maintained that contains state-adopted textbooks for North Carolina and curriculum guides from school systems in North Carolina and other states

Hunter Library shares a computer catalog system with the libraries at Appalachian State University and University of North Carolina in Asheville Faculty, students and staff may borrow materials from those libraries and generally receive them within 72 hours

The library also provides computer access to Infotrac, ERIC, PsychLIT, GPO, and Compact Disclosure DIALOG searches are available as well

Hunter Library provides library materials in UNC-A's Ramsey Library for Western Carolina University courses and programs offered on the Asheville campus

Faculty Center for Teaching Excellence. This center provides services designed to assist all faculty on campus in achieving and maintaining excellence in their teaching Through faculty workshops, seminars, luncheons, and similar activities, the center seeks to foster a

campus climate where teaching is highly valued and excellence in teaching is the norm Services also include a teaching analysis program, a faculty exchange program, and a lending library of professional literature on college teaching

Writing Center. A staff of faculty, graduate assistants, and peer tutors is available to assist students in developing skills for preparing 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 towards self sufficiency In addition to the one-on-one tutorial help, the Center periodically offers mini-courses or workshops tailored to specific problems exhibited by student writers

Mathematics Tutoring Resource Center. A student peer tutoring program, staffed by undergraduate and graduate mathematics students, is available on a drop-in and individual appointment basis Tutoring is offered in all lower division undergraduate mathematics courses and beginning computer science courses Tutoring experience is provided as a practicum for students majoring in mathematics education An extensive library of supplementary materials includes textbooks, audio-visual and computer-assisted instruction materials, and a limited library of current periodicals in mathematics and computer science

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 schools and departments and provide significant assistance to the region in which the university is located.

Center for Improving Mountain Living. The Center for Improving Mountain Living (CIML) is a major technical assistance and service unit of Western Carolina University that extends the resources of the university to the region it serves CIML 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, CIML 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 and civic clubs, and voluntary organizations and other special purpose groups CIML serves as the home for Western North Carolina Tomorrow (WNCT), a regional citizen leadership organization, the regional Small Business and Technology Development Center, an Economic Development Administration University Center; and the Center for PVO/University Collaboration in Development, an association of over 30 universities and private voluntary organizations cooperating in development activities throughout the world. CIML encourages faculty and student collaboration in its programs and comprises five divisions Human Resources, Economic Development, Natural Resources, and WNCT

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

Fine Arts Center. The Fine Arts Center promotes and coordinates those fine arts programs and projects which extend beyond the traditional academic purview Additionally, the center provides resources for maintaining and improving academic programs

Reading Center. In conjunction with academic programs for the preparation of reading teachers and specialists, the Reading Center provides diagnostic and remedial services and reading improvement courses for children, college students, and adults Reading materials,

programs, and equipment are displayed, demonstrated, and evaluated The staff provides consulting services, conducts workshops and conferences, and provides a variety of reading services for public schools in the area The center, which is located in Killian Building on the campus in Cullowhee, also provides extension services through offices at Oteen in Asheville

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

Speech and Hearing Center. The Speech and Hearing Center provides outpatient diagnostic, treatment, and consultative services for persons with known or suspected speech-language and hearing disorders at its facilities on campus and in outreach clinics in Cherokee, Haywood, and Swain counties Students studying speech-language pathology receive clinical experiences in the center All staff and faculty members associated with the center are appropriately certified and licensed in their respective fields

Child Development Center. The Department of Human Environmental Sciences cooperates with the Southwestern Child Development Commission in administering the Child Development Center which is located in Belk Building It provides day care for children age two through age five and serves as a demonstration center for students majoring in child development and related disciplines

Highlands Biological Station The Highlands Biological Station is a regional field station where senior scientists and graduate students conduct research on the environments of the southern Appalachians Located at Highlands, on a high plateau of the Blue Ridge Mountains south of Cullowhee, the station is administered by Western Carolina University An interinstitutional facility of The University of North Carolina, its programs are partially supported by twenty-three southeastern universities The station also administers the Appalachian Environmental Arts Center, a facility which integrates the arts and environmental concerns

Southern Appalachian Research-Resource Management Cooperative. The university is a member of the Southern Appalachian Research-Resource Management Cooperative (SARRMC) Other members are North Carolina State University, Clemson University, University of Georgia, University of Tennessee, Virginia Polytechnic Institute and State University, the National Park Service, the U S Forest Service, the Tennessee Valley Authority, and the U S Fish and Wildlife Services The cooperative was established to provide "coordinated research, extension, and educational support of programs to achieve full benefits of Appalachian forestry wildlands, and their associated resources for their natural, commercial, economic, and recreational utilization " Numerous research opportunities for faculty and students are provided Inquiries should be directed to the program coordinator in the Natural Resources Management Program

Mountain Aquaculture Research Center. The Center was officially established by the Board of Governors of the University of North Carolina in November, 1988, to foster and conduct research and experimental developments to sustain productivity, growth, and the competitive position of the aquaculture industry clustered in southern Appalachia Funded initially with an institutional grant from the North Carolina Biotechnology Center, the program at Western Carolina University strives to involve staff from various segments of the University, to develop collaborative and multidisciplinary investigations with primary and secondary industries allied with the intensive farming of freshwater fish, and to cooperate

with educational institutions and other agencies interested in the wise husbandry of the aquative resources of western North Carolina. The Center will also play a role in the development and enrichment of curriculum related to aquaculture, and in the sourcing, adaptation, and diffusion of appropriate technologies

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

Center for Mathematics and Science Education. The Western Carolina Center for Mathematics and Science Education in the School of Education and Psychology 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 School of Education and Psychology 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 serves both the administrative and academic computing needs of the university The Center is given direction and goals by an Advisory Committee consisting of faculty and administrators

The Computer Center has two Digital Equipment Corporation VAX 11/780 computers and one VAX 8530 These computers operate under the VAX/VMS operating system, supporting batch and interactive computing simultaneously There is a total of 256 terminal ports available The three systems are linked together using Ethernet and DECnet.

Each of the VAX 11/780 systems has 1024 megabytes of disk storage and two tape drives The VAX 8530 system has 2280 megabytes of disk storage and one tape drive Four printers can be switched between the systems Software programming language include Basic, C, Fortran, Pascal, COBOL and MACRO, with DATATRIEVE as a common report retrieval language Applications software is acquired as needed

A variety of generalized programs for the solution of problems in statistics, numerical analysis, and other areas is available through the Center's program library facilities For large research problems and special applications, the computer resources of the Triangle Universities Computation Center (TUCC) and EDUNET are available through the University of North Carolina Educational Computing Services (UNCECS) These services, as well as others (TELENET, TYMENET, BITNET, USENET, etc) are available through an intercampus network called LINCNET WCU is a BITNET and INTERNET node and an active member of CAUSE and EDUCOM

Bureau of Educational Research and Development. The Bureau of Educational Research and Development in the School of Education and Psychology coordinates the professional services of the school to the educational community and responds to requests from the area for professional services in education When appropriate, the Bureau joins with other university agencies in the sponsorship of educational programs and activities

University Media Center The University Media Center, located in the Hunter Library building, provides instructional media resource services to the university The services of the center include circulation of audiovisual materials and equipment, instructional media development and production, and maintenance and consultations for microcomputer, television, and other equipment used in instruction The facilities of the center also include a mediated study area equipped with microcomputers, video playback and audiovisual equipment. The center is open from 8 00 a m to 5 00 p m , Monday through Thursday and from 8 00 a m to 7 00 p m on Friday when classes are in session and until 5 00 p m on weekdays at other times of the year

Career and Academic Planning (CAP) Center. The CAP Center offers a wide range of services to students to help them with their career and academic planning Services included are academic advising for freshmen and undeclared students, career planning and testing, internships and cooperative education, assistance with work-study and regular student employment, special academic and personal support services, including services to handicapped students, 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

Trio Programs. Through federal funding, the university operates Upward Bound, Special Services, and Talent Search programs to assist eligible students in western North Carolina Upward Bound provides tutoring and counseling to economically deprived students in seven high schools and includes a six-week residential program at the university during the summer Special Services provides 150 freshmen and sophomores with tutoring, special academic classes and laboratories, and counseling and advisement that supplement the services of the CAP Center, the departments, and other campus units Talent Search assists approximately 750 young people in seven western counties to enter or reenter secondary or post-secondary institutions through career counseling, financial aid information, and general support services

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, 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 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 January and a summer school bulletin listing the courses and programs offered is available in March of each year

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

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

Elderhostel. This national program for people 60 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, tuition, and extracurricular activities A limited number of local commuter spaces are available in each session.

Speakers Bureau. The Speakers 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 your corporate or community group Arrangements to schedule a speaker should be made through the Division of Continuing Education and Summer School

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 in-house

Vocational/Technical Instructor Project. Instructors in the North Carolina Community College system may earn a bachelor's degree through the Vocational/Technical Instructor Project. Degree requirements may be met by a combination of transfer credit, experiential learning credit, and WCU credit. Courses are offered at locations and times convenient for program participants The Project provides stipends for tuition and fees for qualified vocational/technical instructors

Summer School Programs for Youth. Under the leadership of various schools and departments, a number of summer programs are available for young students The Cullowhee Experience is designed to challenge the gifted and talented The Legislator's School provides leadership training for youth in grades 7-12, and Summer Ventures provides enrichment in the sciences and mathematics A broad variety of physical and recreational programs are offered under the sponsorship of the Department of Health, Physical Education, and Recreation, and the Athletic Department.

Special Summer Events. Each year, the campus hosts a number of special activities enjoyed by students and citizens of western North Carolina The Summer Theatre Program features productions through June and July In addition, visiting artists and students enrich campus life with exhibits and displays in a variety of media

Ramsey Regional Activity Center

The Liston B Ramsey Regional Activity Center located adjacent to E J Whitmire Stadium, is the largest, most versatile facility of its kind in western North Carolina It has a total seating capacity of almost 8,000 people Through a versatile network of movable curtains, it may be used as a large auditorium or small areas with a more intimate atmosphere may be created Its multipurpose design provides excellent facilities for a wide variety of activities, ranging from basketball and other sports to concerts, dramatic and television productions, workshops, conferences, and conventions An ice skating rink, racquetball courts, and auxiliary gym also are available

Other Offices and Services

Research and Sponsored Programs. The university's program to obtain contracts and grants for research and sponsored programs is the responsibility of the Office of Research Administration 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 and to the General Administration of The University of North Carolina and to the appropriate sponsoring agency The staff assists faculty, staff, and students in the preparation of proposals, including budget development.

Institutional Studies and Planning. The Office of Institutional Studies and Planning is responsible for coordinating the activities of the Computer Center, institutional research, and space allocation This office is the primary source of data about the university and develops or coordinates statistical reports requested by other agencies

Development and Special Services. The Office for Development and Special Services is responsible for institutional advancement in several areas, including development of financial resources beyond state appropriations, alumni activities and services, the Cherokee Center, the Mountain Heritage Center, the Fine Arts Center, and the Center for Improving Mountain Living Additionally, the office is engaged in an ongoing assessment of regional needs for special services and in the development of resources and programs to fulfill these needs

Public Information. The Office of Public Information is responsible for the administration of university programs in public information and publications. It is the liaison between university personnel and the news media, including newspapers and radio and television stations, and coordinates the planning and design of all university publications, exhibits, and displays It is responsible for producing or arranging for production of university film, video 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 at Western Carolina University in 1985 as a statewide center to recognize and support outstanding North Carolina public school (K-12) teachers, and to enhance teaching as an art and profession The center is located in a new $8 million facility on N C 107, 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 administrators and faculty

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 nine residence halls are an important part of campus life, offering a variety of experiences that can contribute to intellectual, personal, and social development They 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 The requirement may be waived for students living with parents, legal guardians, grandparents, or brothers and sisters, or who are married Waivers for other reasons are decided by the housing director

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

Each room is furnished with single beds, study desks, chairs, dressers, and closets Students provide their own pillows, bed linens, blankets, towels, lamps, wastebaskets, and ashtrays They also may bring radios, record players, and television sets as long as outside antennas are not required At least one television set connected to a central antenna is available in each hall Cable television is available in public areas Cable television service is also available in each room as an option to the student contracted individually with a commercial cable company serving the campus Other facilities include vending machines, post office boxes, and coin-operated washers and dryers

Students may decorate their rooms according to their own tastes but should see the rooms before deciding on colors and furnishings Decorating guidelines are established by the housing office Prospective students may see the rooms by contacting the housing office

Room Reservations. A student may reserve a room by sending a $75 00 reservation/damage deposit and a signed application/contract card to the housing office This should be done within four weeks after the student is admitted to the university If all rooms are filled, the student will be notified and placed on a waiting list until a vacancy occurs

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

Students may move into the residence halls as early as noon on the day before registration Freshmen and transfer students who need to arrive earlier for orientation programs will be admitted if they have been given approval by the housing office Students who have official university duties also may arrive earlier if the housing office is notified in advance A small fee is charged when students move into the halls before the official opening

Unless the housing office is notified of late arrival, reservations expire at noon on the first day of classes

Residence Hall Contract. Each student residing in a residence hall signs a contract with the university for the regular academic year, or any part of the year remaining when the student moves into the residence hall The contract outlines the responsibilities of the student and the university and is a legally binding agreement. It may be cancelled by the student or the university only under conditions outlined in the contract

Deposit. The $75 00 room reservation deposit serves to reserve a room for each successive semester until graduation or until the student leaves the residence halls It also serves as a damage deposit. The deposit will be refunded after the last term in residence, less an administrative fee and damage charges, if there are any Students should notify the housing office during their last term in residence so that the refund can be processed The refund and penalty schedules are included in the residence hall contract

Summer School Reservations. To reserve rooms in the residence halls for a summer term students pay a $10 00 reservation fee for each session they plan to attend The fee is deducted from total expenses at the time of registration. It is refundable if the student makes a request for refund to the housing office at least two weeks before summer registration.

Housing for Married and Graduate Students. Robertson Hall is available to married and graduate students It consists of 37 efficiency and 5 one-bedroom apartments A limited number of other apartments ordinarily reserved for faculty and staff also may be available

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 and cooking, fireworks, outside antennas, radio transmitters, air conditioners, firearms, ammunition, explosives, water beds, and dart and archery equipment To insure the welfare of residents, certain harmful activities are not permitted, such as 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 housing office and are not to be interpreted as an invasion of privacy Information about investigations or searches is contained in the Student Bill of Rights, Article 6, Section B

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

Off-Campus Housing. Students who plan to live off the 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 the housing office and receive approval in advance Students living off campus are governed by the rules and regulations of the university while 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 sends 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 and University Center staff, a ballroom, several meeting and conference rooms, an art gallery, a restaurant and snack bar, a television lounge, and billiard room Four motel units and an efficiency apartment are available Through functions such as cook-outs, films, dances, concerts, canoe trips, and various other events, the center caters to the needs of the entire university community Many activities are planned and organized by the students themselves through a program committee

Recreation 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

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

Intramurals. The University offers a comprehensive intramural sports program for all students that includes over thirty team and individual sports

Athletics. The university provides a full program of intercollegiate sports Athletic teams play a full schedule in football, baseball, 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 men's and women's tennis The university is a member of the National Collegiate Athletic Association (NCAA) 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 emergency health care are provided by the University Health Service Outpatient medical care as well as inpatient services, usually at no additional charge, are provided to students Policies concerning outpatient services available to university employees are stated in the *Faculty Handbook.*

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

Physician, nurse, and laboratory personnel and outpatient and inpatient facilities are housed in the Graham Infirmary where consultation hours are posted For emergency referrals and health service information, the telephone number is 227-7430

A complete medical record is required of all students entering the university Additional information for updating during the period of actual attendance may be requested. New students are required by North Carolina General Statute 130A-155 1 to have the following current immunizations Diptheria-Pertussis-Tetanus or Tetanus-Diptheria, measles (rubeola), rubella, and polio Evidence of the immunizations should be in the student's records at the time of registration If this evidence is not present, the student will have 30 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 More information is available from the Office for Student Development

Mental Health Service. The Smoky Mountain Mental Health Center is a regional outpatient diagnostic and treatment facility serving the university community The services are available by appointment or on an emergency basis by telephoning 293-9281

Counseling, Testing, Psychological Services Center Counseling Center services include confidential individual and group counseling and therapy, consultation, and outreach programming to aid students with educational, personal, or psychological concerns Testing includes the Graduate Record Examination, National Teacher Examination, Miller Analogies Test, Scholastic Aptitude Test, Law School Admission Test, and the Graduate Management Admission Test

Other Services and Facilities

New Student Orientation. The university sponsors a summer orientation program for all new students, freshmen and transfers Several sessions are held each summer and students may select the one they wish to attend Faculty members, administrators, staff, and student leaders conduct the program to acquaint new students with the academic, cocurricular, and social life of the university Students are given information about the academic community, take advanced placement and screening tests, receive academic advising, and register for courses for the fall semester Upon admission to the university, each student will be mailed pertinent information about participation in the program Short orientation programs for new students are held in January for the spring semester and in June and July for summer school

Teacher Placement Service. Placement services are available to all teacher education graduates and alumni who seek employment in the field of education through the Teacher Placement Office, Killian 228

Veterans Affairs. The associate dean of student development has the responsibility for providing full services to all students eligible for federal veterans benefits

International Student Services. The assistant to the vice-chancellor for student development serves as the international student adviser on immigration matters, advising, programming, and all aspects of university and community life

Books and Supplies. The WCU Bookstore offers students a wide 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 materials for undergraduates are sold by the store Caps and gowns, graduation invitations, and class rings also may be purchased The book rental plan operated through the Book Rental Department of the bookstore is explained in the fees section of this catalog

Meals. The university operates food services for students at four campus locations, Dodson Cafeteria on the lower campus and Brown cafeteria on the upper campus and The Top of the Stairs Restaurant and P G KATZ' Snack Bar located in Hinds University Center These facilities serve all students who participate in a board plan or who wish to purchase meals individually Students who live in the university's residence halls are required to participate in a board plan Choices available are a declining balance standard option, decliningbalance low option, 15-meal per week plan, or 21-meal per week plan. Participation in any of these board plans or in a 10-meal per week plan is optional for commuting students The board plans are described in the fees section of this catalog

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 00 a m until 3 00 p m , Monday through Friday

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

Bus Service. The university provides a free shuttle bus service for students between Cullowhee and Sylva This service is provided primarily for students without automobiles, however, students with automobiles are encouraged to use the service to conserve energy 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 Offices of this bank, First Union National Bank, NCNB, Community Bank & Trust Company, and First Citizens Bank and Trust are located in or near Sylva

Handicapped Student Services. Assistance for handicapped students is available through the office for Student Development, 460 Robinson Administration Building, Dr Bonita Jacobs, 227-7234.

General Regulations and Safety Policies

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

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

While on the campus, students are subject to the rules of the university, whether or not classes are in session Students who exhibit unseemly conduct, destructive behavior, or impinge on the rights of other individuals, as these terms are defined in the *Student Handbook*, are subject to 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 explusions from enrollment and discharges from employment. However, the following minimum penalties shall be imposed for the particular offenses described

III. Trafficking in Illegal Drugs

A For the illegal manufacture, sale or delivery, or possession with intent to manufacture, sell or deliver, of any controlled substance identified in Schedule I, N C General Statutes 90-90, or Schedule II, General Statutes 90-90, (including, but not limited to, heroin, mescaline, lysergic acid diethylamide, opium, cocaine, amphetamine, methaqualine), any student shall be expelled and any faculty member, administrator, or other employee shall be discharged

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

C For second or other subsequent offenses involving the illegal possession of controlled substances, progressively more severe penalities 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

* 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.

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.

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

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

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 1991-92 academic year The university reserves the right to alter any charges without prior notice upon direction from appropriate governing authorities

All applicants for admission must pay an application fee of $15 00 (For Spring 1992 and all subsequent semesters this fee will be $20 00) This fee is charged to cover the cost of processing the application, it is not refundable for any student and is not applicable toward the payment of other fees for students who enroll

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 00 is assessed if a bank declines payment of a student's personal check and the student is at fault.

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

Late Registration. A student who registers and pays fees after the last regular registration date will be charged a late registration fee of $10 00 See the Academic Calendar

Fees Per Semester

I. Full-time Student

	Undergraduate	Graduate
Tuition		
North Carolina student	$ 260 00	$ 260 00
Out-of-state student	2,505 00	2,505 00
Required fees*	278 50	296 50
Book Rental Fee	47 00	**
Room	590 00	590 00
Board (required of residence hall students)		
Declining Balance-Standard Option	525 00	525 00
Declining Balance-Low Option	475 00	475 00
15-meal plan	465 00	465 00
21-meal plan	500 00	500 00
Totals:		
Day Student		
North Carolina rate	$ 585 50	$ 556.50
Out-of-state rate	2,830 50	2,801 50
Residence Hall Boarding Student.		
North Carolina rate		
with Declining Balance-Standard Option	1,700 50	1,671 50
with Declining Balance-Low Option	1,650 50	1,621 50
with 15-meal plan	1,640 50	1,611 50
with 21-meal plan	1,675 50	1,646 50
Out-of-state rate		
with Declining Balance-Standard Option	3,945 50	3,916 50
with Declining Balance-Low Option	3,895 50	3,866 50
with 15-meal plan	3,885 50	3,856 50
with 21-meal plan	3,920 50	3,891 50

* Required fees include Health Services, $67 00, Recreational and Cultural, $51.00; Athletics, $69.50, Athletic Facilities, $16 00, University Center, $58.50; Documents Fee, $2.00 Graduate fees include an additional $18 00

** Textbooks are available to graduate students by purchase only

II. Part-time Student

(Undergraduate, enrolled for 11 hours or less, Graduate, enrolled for 8 hours or less)

Hours Enrolled	Undergraduate		Graduate	
	In-State	Out-of-State	In-State	Out-of-State
1	$ 90 30	$ 651 30	$ 84 15	$ 645 15
2	115 60	676 60	103 30	664 30
3	140 90	701 90	187 45	1,310 45
4	166 20	727 20	206 60	1,329 60
5	191 50	752 50	225 75	1,348 75
6	281 80	1,404 80	309 90	1,993 90
7	307 10	1,430 10	329 05	2,013 05
8	332 40	1,455 40	348 20	2,032 20
9	422 70	2,106 70		
10	448 00	2,132 00		
11	473 30	2,157 30		

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

III. Asheville Student

Fees for all Western Carolina University resident-credit courses taught in Asheville are the same as on the Cullowhee campus All 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)	$15 00*
Late Registration Fee	10 00
Cap, Gown, and Hood	obtained through University Supply Store
CLEP, GRE, NTE, etc	fee set by Educational Testing Service
Cooperative Education Fee (work semesters only)	30 00

Certain courses in some fields require laboratory or materials fees in addition to the costs listed here

*Effective Spring 1992 the application fee is $20 00

Board Plan

University policy requires students who live in a residence hall to purchase a board plan Commuting students' participation in a board plan is optional The following board plans are offered to residence hall students and to commuter students

Declining Balance- Standard Option	$525 00
Declining Balance- Low Option	$475 00

The declining balance meal plan is a dining program wherein students pay an advance deposit at the beginning of each semester from which purchases are deducted throughout the term Students who choose this option are issued an encoded identification card to be used as a debit card for purchases at Brown and Dodson cafeterias, P G KATZ' snack bar, and The Top of the Stairs restaurant. During the semester, additional prepayments in minimum increments of $50 00 may be made by any student with a declining balance account.

21-Meal Standard Plan (3 meals/day, 7 days/week)	$500 00
15-Meal Standard Plan (any 15 meals, Sun -Sat.)	$465 00

Commuting students have two additional options a declining balance minimum prepayment of $50 00 or a 10-meal standard plan ($365) which provides any ten meals, Monday through Sunday

Students who purchase the standard 21, 15, and 10-meal plans may supplement these plans by establishing prepaid declining balance accounts in minimum increments of $50 00

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

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 $47 00 each semester and are entitled to the adopted textbook used in each course for which they are registered All books must be returned to the Book Rental Department at the end of each term This plan does not provide notebooks, workbooks, paperbacks, manuals, or supplemental books and materials, but these are available for purchase at the bookstore Students may buy textbooks at the used book price if they wish, 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

Rental books are to be returned no later than five working days after the last day of final examinations for each term, including the summer school term Students who do not comply with this time limit will be charged a fine of $20 00 if the books are returned within the first two weeks of the next regular school term Thereafter, students will be required to purchase the books at the replacement cost (list price less 20 percent) Grossly mistreated books must be purchased in any case

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

Residence Status for Tuition Purposes

The basis for determining the appropriate tuition charge rests upon whether a student is a resident or a nonresident for tuition purposes Each student must make a statement as to the length of his or her residence in North Carolina, with assessment by the institution of that statement to be conditioned by the following

Residence. To qualify as a resident for tuition purposes, a person must become a legal resident and remain a legal resident for at least twelve months immediately prior to classification Thus, there is a distinction between legal residence and residence for tuition purposes Furthermore, twelve months legal residence means more than simple abode in North Carolina In particular it means maintaining a domicile (permanent home of indefinite duration) as opposed to "maintaining a mere temporary residence or abode incident to enrollment in an institution of higher education " The burden of establishing facts which justify classification of a student as a resident entitled to in-state tuition rates is on the applicant for such classification, who must show his or her entitlement by the preponderance (the greater part) of the residentiary information

Initiative. Being classified a student 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 a 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 residentiary acts accompanied by residentiary 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, (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 18 years of age) usually have the domicile of their parents, but certain special cases are recognized by the residence classification statute in determining residence for tuition purposes

(a) If a minor's parents live apart, the minor's domicile is deemed to be North Carolina for the time period(s) that either parent, as a North Carolina legal resident, may claim and does claim the minor as a tax dependent, even if other law or judicial act assigns the minor's domicile outside North Carolina A minor thus deemed to be a legal resident will not, upon achieving majority before enrolling at an institution of higher education, lose North Carolina legal residence if that person (1) upon becoming 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 next 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 12-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 duration 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

A change of status and tuition rates is made effective only at the beginning of the appropriate term A person who has been a resident and eligible for in-state tuition but who loses legal residence while enrolled may continue to enjoy the in-state tuition rate for a grace period of 12 months from the date on which legal residence was lost. If the grace period ends during an academic term while the person is enrolled at the university, the grace period extends, in addition, to the end of that term

Complete information on regulations concerning tuition differentials and residence status is available on request in the offices of the assistant vice-chancellor for academic affairs, registrar, director of admissions, dean of research and graduate studies, and the vice-chancellor for student development. Applications for rulings and appeals concerning the residence classification of undergraduate students should be directed to the admissions office and for all graduate students to the Graduate School Students may appeal decisions on residency classification to the campus committee on legal residency by communicating with the assistant vice-chancellor for student development

The student who becomes eligible for a change in classification, whether from out-of-state to in-state or the reverse, has the responsibility of immediately informing the appropriate office Failure to give complete and correct information regarding residence constitutes grounds for disciplinary action.

Waiver of Tuition. Legal residents of North Carolina who have attained the age of 65 and who meet applicable admission standards may enroll on a tuition-free basis if space is available, but must pay required fees Further information is available from the registrar

Refund Policies

Academic Year Tuition and Fees During a fall or spring semester, any full-time or part-time student who withdraws from the university on or before the final day of regular registration will be refunded 100 percent of tuition and fees A student who withdraws from the university within the next seven calendar days following the last day of regular registration will be refunded 85 percent of tuition and fees A student who withdraws within the next seven calendar days following the last day to receive an 85 percent refund will be refunded 70 percent of tuition and fees Students who withdraw thereafter will not be entitled to a 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 to reflect 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.

Summer School Tuition and Fees. A student who withdraws from summer school on or before the close of the regular registration day will be refunded 100 percent of tuition and fees A student who withdraws within three days following regular registration or on or before the date of the second class meeting, whichever is later, will be refunded 85 percent of tuition and fees Students who withdraw after this period will not be entitled to refunds

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, except when a student is eligible for full (100%) refund of tuition and fees In the latter case, the room rent refund will be prorated according to the number of days the room was occupied The residence hall room deposit is not refundable in any case

Meal ticket refunds will be made on a weekly prorated basis Refunds will not be made for the last two weeks of a semester or for the last week of a summer session

Exceptions. Exceptions to these policies may be made if a student withdraws from the university for reasons of hardship Prorated refunds of tuition and fees, room rent, and meal charges may be made to the student or the student's family in case of hardship, which is defined as (1) death of the student, (2) death in the student's immediate family, or (3) withdrawal upon recommendation of the director of student health services The prorations and regulations governing refunds in hardship cases are available from the Office for Business Affairs The vice-chancellor for student development must approve, and notify the controller's office, of any refunds or account adjustments for hardship situations. The controller's office will take appropriate action to make final settlement of the student's account Any other exceptions require approval by the chancellor

Financial Aid

The financial aid program is designed to meet the needs of students who otherwise would be unable to attend Western Carolina University Awards are made on the basis of need and academic promise Most awards are renewable, provided that financial need continues and satisfactory academic progress is maintained Applications must be filed annually

Application Procedure Awards are made only after all entrance requirements are met. An application for admission should be completed and filed with the admissions office High school students should plan to take the Scholastic Aptitude Test not later than December of the senior year

Applicants must submit a Financial Aid Form to the College Scholarship Service as soon as possible after January 1 of their senior year and request that a copy be sent to the director of financial aid, Western Carolina University, College Code 5897 The form may be obtained

from the financial aid office or from a high school guidance counselor It should be completed as accurately as possible and should conform with income tax returns to avoid its return for further information and consequent delay

All undergraduate applicants must apply for the Pell Grant Program Application is made by completion of the Financial Aid Form

A Personal Data Application form for financial assistance will be mailed to the applicant upon receipt of the processed Financial Aid Form from the College Scholarship Service The application process is complete when the Personal Data Application, the Financial Aid Form, IRS 1040, and the Student Aid Report (SAR) from the Pell Grant Program, when applicable, have been received in the financial aid office All forms should be received by March 31

Notification of Awards. Notification of awards, beginning with completed applications for aid received prior to March 31, will be made by May 1 and will continue thereafter The processing time for applications is about eight weeks

Types of Aid Three principal 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 in 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

Perkins Loans (NDSL). 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 $4,500 for the completion of the first two years of study toward a baccalaureate degree or a total of $9,000 for an undergraduate student who has already completed two years of undergraduate study (minus amounts borrowed during the first two years) A graduate student may borrow a maximum of $18,000, 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 five percent.

Stafford Loans (Insured or Guaranteed Student Loans - College Foundation, Inc.) These government-subsidized loans are available to students through financial institutions They are insured by a state or private guarantee agency Stafford Loans 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 a year during the freshman or sophomore years, $4,000 a year for the junior or senior years and $7,500 a year if a graduate student Two fees are normally charged to the borrower and are deducted from the loan before the student receives it. A five percent origination fee and a guarantee fee of approximately one percent are deducted at the time the loan is made The interest is paid by the federal government to the lender until the borrower enters repayment. The current interest rate is eight percent The interest rate for first-time borrowers during the first four years of repayment is eight percent and ten percent thereafter Repayment begins six months after the student leaves school or drops below half-time status The minimum annual repayment is $600, and the borrower has up to ten years to repay, depending upon the size of the loan

In North Carolina, College Foundation, Inc , Post Office Box 12100, Raleigh, N C 27605 acts as a central lender for participating financial institutions Applications may be obtained by contacting College Foundation or the Financial Aid Office

Parent Loans for Undergraduate Students (PLUS). These loans provide funds to parents to help meet the cost of education. They may borrow up to $4,000 per year for a combined total of $20,000 for each dependent student However, they cannot borrow any amount that would make the total financial assistance greater than the cost of attendance Interest rates are variable and are calculated annually, based on a federal formula that cannot exceed twelve percent. Repayment begins immediately, with the first installment due within sixty days of receipt of the loan

Supplemental Loans for Students (SLS). These loans provide funds for students to cover their college expenses in addition to those borrowed under the guaranteed student loan program They are available to undergraduate and graduate students who meet the federal eligibility requirements and are enrolled at least half time Eligible students may borrow up to $4,000 per year for a cumulative total of $20,000 Interest rates are variable and are calculated annually, based on a federal formula that cannot exceed twelve percent. There is no federal interest subsidy on SLS or PLUS loans Repayment begins immediately, with the first installment due within sixty days after receipt of the loan, however, payment of principal and interest may be deferred during in-school status Deferred interest will be capitalized to be repaid after graduation.

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, 116 West Jones Street, Suite 2054, Raleigh, N C 27611, telephone (919) 733-2165

North Carolina Four-Year Teaching Fellows Program. Established by the General Assembly, this program is designed to fully subsidize the college cost of up to 400 talented high school seniors Recipients will receive $5,000 per year for each of their four years in college For each year that a Teaching Fellow teaches in a North Carolina public school after graduating from college, one-fourth of the Teaching Fellows award will be forgiven by the state Applications are available through high school guidance offices, high school teacher recruiters, and the North Carolina Teaching Fellows Commission, 117 Glenwood Avenue, Raleigh, N C 27603

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 six 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 (10%) interest from the date of disbursement A completed Financial Aid Form 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 minimal 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 having 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

Grants and Scholarships

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 $250 to $2,300 per academic year depending upon the cost of attendance All undergraduates enrolled for six hours or more are eligible to apply

Minority Presence Grant Program. Under the Board of Governors' General Minority Grant Program, black students may be eligible for special financial assistance if they are residents of North Carolina, enrolled in at least three hours of degree credit coursework, and demonstrate financial need

American Indian Student Legislative Grant Program. Under this Board of Governors' program, North Carolina residents demonstrating need who are American Indians enrolled in a tribe recognized by North Carolina are eligible Grants are awarded in the amount of tuition Application forms are available in the financial aid office

Supplemental Educational Opportunity Grants. This program provides funds through participating educational institutions to students with exceptional financial need who would be unable to enter or remain in an institution of higher education without such assistance

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 Application may be made by paying for a copy of the Financial Aid Form to be submitted by March 1 to the NCSIG Program, code number 0742, Raleigh, N C 27605

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.

Patrons of Quality Scholarships. These $1,000 scholarships are awarded solely on the basis of academic performance Each scholarship is awarded for one year It may be renewed annually up to three times if the student maintains a cumulative QPR of 3 5 or higher and earns at least 30 semester hours of credit per year

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

Army ROTC Scholarships. Four-year scholarships are available to entering freshmen students through their high school guidance counselors Three-year scholarships are available for returning sophomores and two-year scholarships are available to students eligible for advanced placement in ROTC The scholarships are competitive, and cover the cost of most tuition and fees as well as a subsistence allowance of up to $1,000 each year for textbooks, uniforms and other educational expenses for the duration of the award Application forms are available from high school guidance counselors and the Western Carolina University Department of Military Science

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

American Medical Transport Scholarship Fund. This fund is established to strengthen collegiate programs in Emergency Medical Service and to attract qualified young people into

the profession Rising Junior and Senior students in the Emergency Medical Care Program are eligible for this award.

Athletic Grants. Grants are made in accordance with regulations of the National Collegiate Athletic Association For more information, contact the director of athletics

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

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

Bruce Blankenship Scholarship Fund. This scholarship program provides financial support for students pursuing a college education while working 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 Education and Reading

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

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

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

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

The Paul Cabe Delta Sigma Phi Scholarship Fund. The purpose of this fund is to provide financial award for deserving young brothers of Delta Sigma Phi, Delta Omicron Chapter of Western Carolina University

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

Canton Mill United States Plywood-Champion Paper, Inc., Foundation Scholarships. Recipients must be graduates of Haywood County or Enka High School or be a dependent son, daughter, or ward of an active or retired employee of the company Awards are made on the basis of scholarship, need, character, citizenship, leadership, and potential to maintain required academic standards

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

Katherine Causey Award. This award provides financial support for deserving young students who live in rural areas of Alamance, Guilford, or Randolph counties Students who have declared a major in biology or English or a concentration in writing, editing or journalism are eligible for consideration

Wilma Cosper Scholarship. The purpose of this scholarship program is to provide financial support for deserving students who have declared a major in one of the academic programs under the Human Environmental Sciences

The Diane Withrow Coyle Art Fund. This scholarship program, established through the generosity of the family and friends of Diane Withrow Coyle, supports WCU students who pursue drawing as a creative and formal art medium

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

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

Andrea Culpepper Scholarship Fund. This scholarship fund provides financial support for students enrolled in the nursing program Priority will be given to rising seniors who have a grade point average of 3 0 or above

DeSoto Family Scholarship. The purpose of this scholarship program is to support deserving students in the School of Business who are recognized by the faculty as self-starters with high motivation Recipients must demonstrate leadership characteristics and diligent work habits

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

Clint Dodson Biology Scholarship Fund. This scholarship is available to students majoring in biology and is awarded on the basis of academic achievement and potential for a career in the sciences Contact the Department of Biology

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

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

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

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

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

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 students based on the student's potential for contribution to the department's major performance ensembles, the needs of the ensemble and the department, and the student's financial need. An audition is required Student

assistantships also are available for work assignments of a musical nature Contact the Department of Music

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

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

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

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

Vera Turner and Pauline Hoffman Scholarships. Students who intend to prepare for work as counselors or psychologists in the Christian ministry may qualify for these scholarships Selection is based on achievement and general activities in previous schooling and overall social, civic, and academic achievement and potential

Homolka Scholarships. These scholarships provide support for students planning for careers in veterinary medicine Preference is given to international students and renewal depends on satisfactory academic progress

Wanda S. Hutchins Fund. This fund provides financial support for students majoring in social work. Selection of the recipient will be based upon overall ability, past achievement, potential for development, and dedication to the profession.

Marshall Hyde Scholarships. These renewable scholarships are awarded annually Preference is given to undergraduate students from Graham County who have expressed an interest in working for the WCU landscaping program.

Industrial Distribution Scholarships. These scholarships are awarded to students in Industrial Distribution on the basis of academic achievement and performance in the major Renewals depend on satisfactory academic progress

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 School

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

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

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

Alex Lesueur Flute Award. This endowed fund supports awards for outstanding flute students actively involved in the instrumental music program of WCU Contact the Department of Music

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

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

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

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

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

Alice Mathews Scholarship Fund. This endowed scholarship fund was established to honor a former member of the WCU faculty, Dr Alice Mathews The fund provides support for deserving students in the liberal arts with priority consideration given to students with a 4 0 QPR in their major Contact the dean of the School of Arts and Sciences

Theodore Patrick Matus Scholarship Fund. This scholarship fund provides financial support for talented art students Renewals depend upon continued satisfactory academic progress of the recipient.

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

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

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

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

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

Aston Park Scholarship Fund. This scholarship program is established for the purpose of providing financial support to deserving students from western North Carolina who desire to obtain a baccalaureate degree in the School of Nursing and Health Sciences.

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

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

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

Bronce and Betty Ray Scholarships. These $1,000 renewable scholarships for students who live in the 17-county region of western North Carolina are awarded on the basis of academic achievement, participation in various school activities, social and civic contributions, and financial need

Paul A. Reid Scholarships. Grants are available to graduates of Surry County high schools to attend Western Carolina University either as undergraduate or graduate students Applications are available from guidance counselors

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

James A. Rigdon Scholarships. This endowment, which honors the W D Wike family, provides awards to students from western North Carolina, with preference given to residents of Jackson County Selection is based on scholastic attainments and capabilities, character, and qualities of leadership

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

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

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

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

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

Veterans Administration Programs. Most veterans who served on active duty for more than 180 days, any part of which occurred after January 31, 1955, are generally eligible for financial support. Before communicating with the university about these benefits, prospective recipients should make inquiries and complete all requirements at their local Veterans Administration Office

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

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

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

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

Western Alumni Scholarships. Freshmen are eligible for these scholarships which are awarded by the Alumni Association solely on the basis of high school academic performance

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

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

Employment

College 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

Cooperative Education. This program provides placements in cooperating organizations which permit students to finance their education through a combination of work and study Contact the cooperative education office in the CAP Center

Graduate Assistantships. Stipends of $1,000 to $5,000, depending upon the assignment involved, are awarded to qualified graduate students through the Graduate School

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

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

ADMISSION

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

Campus Visit. Prospective students and their parents are welcome on the campus A visit enables them 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 00 a.m and 5 00 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* p 24), 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 admissions office 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 thirty days before the beginning of the semester for which admission is desired. Application deadlines for fall admission vary with a student's status and are listed in the following pages

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

Undergraduate Admission

The university is open to all qualified students without regard to race, sex, color, national origin, religion, age, or handicap and is actively committed to recruiting and enrolling greater numbers of black and other minority students

Freshman Students

Admission to Western Carolina University and placement into courses and programs are based upon a variety of factors including courses taken in high school, rank in class, SAT scores, recommendations from school counselors, principals and/or teachers, 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 Tests)

Entrance Examinations. Freshman applicants must take the Scholastic Aptitude Test (SAT) The achievement test in subject-matter fields is not required. Application forms and information concerning the test fee, dates, and centers may be obtained from the College Board, P O Box 592, Princeton, N J 08541, 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 5897)

Secondary School Preparation. The quality and content of the applicant's high school program are important A good background in English, mathematics, foreign language, social studies, and natural sciences is recommended Students with inadequate preparation in English and mathematics, if admitted, will be required to complete additional work in these areas

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

4 units of English
2 units of algebra
1 unit of geometry or advanced math
3 units of science including
  1 unit of a life or biological science and
  1 unit of a physical science
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 honors admission, regular admission, and provisional admission

Honors Admission. Students who rank in the top 10% of their high school class or who have an 'A' average in a college preparatory curriculum and who have a total SAT score of 1150 or higher are invited to apply for the honors curriculum Other factors considered in the admission decision include advanced placement courses, recommendations, and leadership potential

Honors courses are taught by the honors faculty and students admitted to the program are advised by the director of the honors program The honors program provides students the opportunity to take rigorous courses and to participate in independent projects with honors faculty Prospective honors students are encouraged to apply and compete for academic scholarships

To be considered for the honors curriculum and for competitive scholarships, applications for admission and for competitive scholarships must be completed by February 1

Regular Admission. Students who rank in the top 50% of their class (or who have a 'C' average in a college preparatory curriculum) and whose SAT score is equal to or higher than 350 on each part of the test are normally admitted and placed into the regular freshman course sequence Placement tests in writing skills, mathematics and foreign languages are given during orientation to identify students who may be exempted from introductory courses or who qualify for advanced standing 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.

Application for admission should be completed no later than May 1

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 in the provisional category normally must complete 7-10 semester hours of course work beyond the minimum 128 semester hours required for graduation Therefore, it is to the student's advantage to begin collegiate study in the summer prior to the freshman year

By participating in a five week summer program designed to enhance their chances for academic success in the regular freshman curriculum, students may remove the conditions of admission and be unconditionally admitted for the fall term The summer program includes courses in communication skills and study techniques More than 90 percent of the students who have participated in the summer program in the past removed the conditions of admission and entered the regular freshman curriculum in the fall term The summer program provides an opportunity for students to become better prepared for their collegiate career and to discover their potential for success in college at a reasonable cost. A maximum of 160 spaces are available in the summer program, spaces are offered on a first-come, first-served basis

Minimum Admissions Requirement at the 16 Institutions of The University of North Carolina For the class of 1990 and beyond, the following courses will be 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 at least one unit in a life or biological science (for example, biology), at least one unit in a physical science (for example, physical science, chemistry, physics), and at least 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 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 test results Transfer applications should be submitted by July 1 for fall admission and at least 30 days prior to the beginning of spring or summer terms

Transfer students must have earned an overall grade point average (GPA) of 2 00 (C average) on all work attempted A student on probation at another institution, or one whose grade 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 00 on the first 12

semester hours attempted will be required The conditions for validation will be indicated at the time of admission

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 should be submitted at least one month before 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 transfer credits 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. They 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 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 in one of the categories listed 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 the university's English courses, English 136, English 101F and 102F, 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 be enrolled as special students by completing an application and the nondegree intent form and paying the $20 00 application fee High school students seeking to enroll as special students also must have written recommendations from their high school principals or guidance counselors Persons who plan to meet teacher certification requirements must provide transcripts of all college work attempted

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

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

Persons over Age Sixty-five. Legal residents of North Carolina aged sixty-five and over who qualify for admission may enroll in courses on a tuition-free basis if space is available

Information about admission and registration policies and procedures may be obtained from the registrar

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

Appeals of Admissions Decisions

Admissions decisions may be appealed by presenting a written request for reconsideration to the Committee on Admission, Readmission, and Retention through the Director of Admissions The request should indicate the reasons for reconsideration and any factors the applicant feels were not given adequate consideration in the admissions process. Upon receipt of a written request, the Director of Admissions will present the application, supporting information, and the appeal to the Committee on Admissions, Readmissions, and Retention Applicants will be notified of the committee's decision. Decisions of the committee are usually final When discrepancies and/or further mitigating circumstances exist, appeals may be heard in the office of Academic Affairs

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 Summer School Office, Graduate School, or Office of Admissions, and in the *Summer School Issue* of **The Record,** issued each spring

ACADEMIC REGULATIONS

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

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

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

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

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

Registration

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

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

Credits, Grades, and Quality Points

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

Course Load for Undergraduates The minimum full-time course load during a fall or spring semester is 12 semester hours A normal load is defined as 16 hours The maximum load is 19 hours, provided that no I or F grades were made the previous term With a 3 0 GPA status the previous term, the maximum load is 21 hours Any overload 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 Issue* of **The Record.**

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

Freshman	0-29 hours	Junior	60-89 hours
Sophomore	30-59 hours	Senior	90 or more hours

Grading and Quality Point System*

Grade	Interpretation	Quality Points per Semester Hour	Grade	Interpretation	Quality Points per Semester Hour
A	Excellent	4	S	Satisfactory	--
B	Highly Satisfactory	3	U	Unsatisfactory	--
C	Satisfactory	2	W	Withdrawal	--
D	Poor but passing	1	Y	Audit	--
F	Failure	0	NC	No Credit	--
I	Incomplete	--		—	
IP	In Progress	--			

**See Graduate School Issue for the graduate grading system*

Students must be familiar with the class attendance, withdrawal, and drop-add policies and procedures Instructors will automatically assign grades of W (if passing), F (if failing), or I (Incomplete) if a student ceases to attend class without officially dropping the course or withdrawing from the university

Incomplete. At the instructor's discretion, but only when there is a reasonable prospect that the student can pass the course by making up the work missed, a student may be given an I grade for work not completed, if the incompletion is unavoidable and not caused by the student's negligence The work must be made up and a grade submitted to 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 the case of I grades assigned in general education courses before Fall 1983 and not changed by Fall 1983, the policies stated in the *General Education Manual* shall be applied.

In Progress. In progress grades are assigned only in selected courses which have been approved for IP grading Courses in which IP grades are assigned must be completed by the end of the following regular term or the grade will become an F

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. 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 offically 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. If a student withdraws from a course prior to the expiration of one-half of the term and wishes to receive a W grade, he/she must complete a withdrawal form, obtain the signatures of the course instructor and his/her academic advisor. The completed form must be presented to the registrar for posting.

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, a counseling center counselor, or an official of a court of law. If withdrawal from a course is approved by the course instructor, his/her department head and the student's advisor, the withdrawal form will be submitted to the registrar by the department for posting.

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

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

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

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

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

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

Academic Appeals Procedure

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

If, after appealing to the instructor, department head, and dean, the student is still dissatisfied or suitable action has not been taken, the student may appeal to the Academic Problems Committee This committee hears student grievances arising from academic matters and makes recommendations to the office for Academic Affairs A student who wishes to do so may appeal the vice-chancellor's decision to the chancellor Information about the composition and procedures of the Academic Problems Committee is available in the *Faculty Handbook* or in the office for Academic Affairs

Transcripts Transcripts are furnished, either to the student or mailed, 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 standing, a GPA of 2 00 must be maintained A student who is not in good standing is not eligible for graduation

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 of A, B, C, D, and F

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

Academic Honors

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

The Deans' List. To be on the Deans' List each semester, a student must have a GPA of 3 50 or higher on a regular semester's work of not less than 12 hours, excluding remedial courses, with no grade of D or F

Graduation with Honors. To graduate *summa cum laude*, a student must have earned a minimum GPA of 3 90 on quality hours attempted at Western Carolina University for the degree, to graduate *magna cum laude*, a GPA of 3 70, and to graduate *cum laude*, a GPA of 3 50 In case of transfer hours from other institutions, a student must earn the appropriate GPA in all courses taken at Western Carolina University in order to graduate with honors

To be designated University Scholars, students must have enrolled as freshmen and completed their entire undergraduate careers at Western Carolina University with a GPA of

3 9 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 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 report forms and registration cards

To be eligible for financial aid and participation in some extracurricular activities, full-time students must pass a minimum of 12 semester hours of work applicable to the degree programs they are pursuing during each regular term in which they are enrolled in addition to meeting the university's requirements for minimal progress or retention

Eligibility for continuation in, or readmission to, the university does not guarantee eligibility to continue in all of the programs of study offered Students should refer to the appropriate program sections of this catalog and consult the department head of their proposed majors concerning specific admissions and satisfactory progress requirements for retention in the programs

Students who are in academic difficulty will receive one of the following messages on their grade reports *Academic Warning, Academic Probation,* or *Academic Suspension* These messages are determined by one of the following

Hours Attempted and Hours of Advanced Standing	A student is on **Academic Warning** when GPA is	A student is on **Academic Probation** when GPA is	A student is on **Academic Suspension** when GPA is
0 - 19	1 99 - 1 50	1 49 - 0 51	0 50 or lower
20 - 29	1 99 - 1 60	1 59 - 1 31	1 30 or lower
30 - 59	1 99 - 1 86	1 85 - 1 51	1 50 or lower
60 - 89	1 99 - 1 94	1 93 - 1 76	1 75 or lower
90 - 116	1 99 - 1 97	1 96 - 1 91	1 90 or lower
117 or more	- -	- -	1 99 or lower

A student will be on academic probation if he/she has been on academic warning for two consecutive regular terms A student will be on academic suspension if he/she has been on academic probation for two consecutive regular terms

Academic Warning Students on academic warning may carry no more than 16 semester hours during any regular term They should consult with their academic advisor and take advantage of university support services

Academic Probation Students who are on academic probation must achieve a cumulative GPA of 2 0 or meet the conditions outlined below to be eligible to continue enrollment at Western

1 Attain a 2.3 or better grade point average on a minimum of 12 semester hours during the regular semester or 6 semester hours for summer school
2 Carry no more than 15 semester hours

Failure to meet these or any other stipulated conditions may result in academic suspension

Academic Suspension Students on suspension are no longer enrolled in the university Upon being suspended the first time, students cannot be readmitted before one regular semester has elapsed Upon being suspended the second time, students cannot be readmitted before two regular semesters have elapsed

Students suspended for the third time cannot petition for readmission until two calendar years have elapsed, at which time the students may ask that the two-year rule be applied

The decision to waive a suspension is made by the Admissions, Readmissions and Retention Committee based on the student's previous academic record, summer school record and the student's request for readmission Students desiring a waiver of suspension should submit a written request to Academic Services at least 10 days prior to registration

Decisions of the Admissions, Readmissions and Retention Committee are usually final Further appeal should be made through the office of Academic Affairs

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

Repeat Course Policy for Undergraduates

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

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

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

Academic Re-evaluation Policy

To be eligible to elect an academic re-evaluation, a student must have a cumulative GPA below 2 00 and must have made a GPA of 2 30 or better on 12 or more hours of work for each of two successive semesters, one of which may be summer school At least 18 hours of the work taken in the two semesters must apply to general education requirements or the requirements in the major, if these have not been met already A written request for re-evaluation is required

To be eligible to graduate after re-evaluation, a student must complete at least two semesters in residence No course passed with a D grade prior to these two semesters will count toward the 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 or higher will be counted as earned hours

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

Two-Year Rule Policy

An undergraduate with a GPA below 2 00 who has not attended the university for two or more calendar years and who is eligible for readmission is given the option of having the two-year rule applied or not applied

If the two-year rule is applied, all courses completed before the interruption are treated as if they were transferred from another institution No hours of credit will be allowed for courses

in which D 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 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

Credit and Placement Policies

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

Transfer of Credit

A preliminary evaluation of credits offered in transfer is completed at the time of 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 school in which the student majors 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 No credit will be allowed toward graduation or toward fulfillment of major requirements for a course passed with a D at another institution, but these courses may be used to waive a general education requirement. Credit will not be awarded for courses determined to be below the collegiate level at Western Carolina University

A minimum of 30 semester hours at the junior-senior level applied toward a bachelor's degree must be earned through regular enrollment in Western Carolina University courses, including a minimum of 12 hours in junior-senior courses in the major field

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

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

Regularly enrolled students who desire to take any course at another institution and transfer it must secure the appropriate department head's and dean's approval before enrollment at the other institution Forms are available in the Admissions Office and the departments

Grades made in transferred courses are not considered in computing the GPA at Western Carolina University, but transferred hours are added to earned hours and will affect the student's overall academic standing A student may not expect to have the repeat course

policy applied on the basis of courses completed at other institutions Currently enrolled and former students (those not enrolled for one or more of the immediately preceding semesters, excluding summer terms) who attempt courses at other institutions must earn a cumulative 2 00 GPA and submit official transcripts of all work attempted to the office of admissions in order to be eligible to return to WCU

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

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

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

Transfer of Credit in Military Science Courses. Military science courses taken at another accredited college or university for which there are equivalent courses at Western Carolina University may be transferred for credit not to exceed 16 hours This transfer of credit does not guarantee the admission of the student into the ROTC program Admission will be determined by the head of the Department of Military Science, acting upon university and army regulations

English Proficiency Policy

Students are certified proficient in English as a corollary of the satisfactory completion of the freshman composition courses (ENGL 101 and 102) Students who receive transfer credit for ENGL 102 should take the English Proficiency Examination in their first subsequent semester at the university The examination is also required of students who completed ENGL 102 prior to September, 1975

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

Composition-Condition Marks. A student whose written work in any course fails to meet acceptable standards will be assigned a *composition-condition* (CC) mark by the instructor Any undergraduate who has attempted more than 12 hours at the university and who receives CC marks in two courses during any 12-month period will be required to enroll in ENGL 300 in the first term following notification of receipt of two CC marks and will be assigned an appropriate corrective experience

Placement in Freshman English

Based on their SAT verbal scores, the students will be placed in ENGL 100, 101, or 102 Students with SAT verbal scores of 580 or above will be placed automatically in ENGL 102 and, upon successful completion of the course, will be granted 3 hours of credit in ENGL 101 in addition to the credit earned in ENGL 102 With SAT verbal scores of 700 or above students will be exempted from both ENGL 101 and 102 and granted 6 hours of credit Students with SAT verbal scores below 350 will be placed in ENGL 100 Students will write a diagnostic composition during the first week of classes to determine that their English placement is appropriate

Placement in Mathematics

An algebra skills test is administered to all entering students during the summer orientation sessions and at the beginning of each semester Students who pass the test are eligible to enroll in the college mathematics courses required in their programs Students who do not pass the test are required to pass MATH 100 before enrolling in any course which has MATH 100 as a prerequisite

Placement in Freshman Orientation Courses

The orientation courses are available as electives to all students However, the Admission, Readmission, and Retention Committee may require a student to take one or more of the courses COUN 140 (Study Techniques for College) is a condition of acceptance into the provisional admissions program CAP Center advisers strongly recommend COUN 140 to individual students with academic problems Students who are undecided about a major after the freshman year are advised to take COUN 130 (Career Opportunities and Decisions) COUN 150 (Understanding Self and Interpersonal Relationships) is recommended to students as a means of gaining greater social and personal insight.

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

Modern Foreign Languages. Placement examinations are administered during the summer orientation sessions and at the beginning of each semester, and must be taken by any student desiring to be placed in the second or higher course of a foreign language Any student placed in the second or higher course in French, German, or Spanish who passes that course with a grade of C or better will receive up to 6 credits for the courses bypassed This may include the general education course, 101 Additional information can be obtained from the department or from the CAP Center advisor

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 135 Additional tests may be taken for a maximum of 10 hours of credit.

Algebra. An introductory analysis test is administered during the summer orientation sessions and at the beginning of each semester for freshmen with two or more years of high school algebra For satisfactory performance, a student receives credit for MATH 146

Trigonometry Every student who has had high school trigonometry and plans to take calculus is expected to take the trigonometry examination, administered at the beginning of each semester MATH 145 will be waived as a requirement for students whose performance is satisfactory

Advanced Placement Program Students who earn a grade of 3 or above on the College Board advanced placement courses will be awarded credit based upon the evaluations of the appropriate department heads Currently, credit may be earned in American and European history, art history, biology, chemistry, English, French language and literature, German literature, mathematics, physics, and Spanish language and literature

Assessment Program. Western Carolina University has programs designed to assess student learning and to evaluate the overall college experience Students are expected to participate in these assessments throughout their enrollment at the University

Non-Credit Courses. Credit earned in ENGL100, MATH 100, and EDRD 150 will not count toward the 128 hours required for graduation This policy became effective Fall term, 1987

Credit by Examination

A student may apply to be examined in any general education course and any other course identified by a department head as available for credit by examination. The student must present an approved permission form after the examination has been completed Students making an A or B will receive credit Those making C 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 or higher

The fee for scheduling a course on a credit by examination basis is $15 00 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 Academic Affairs Committee 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

A veteran who has served twelve months or more in continuous active duty in a branch of military service and who presents the registrar a copy of the DD 214 will have entered on the transcript a statement that the number of hours of credit required for graduation has been reduced from 128 to 121 This reduction does not alter major, minor, concentration, or general education requirements for a degree

Service school courses are evaluated by reference to the recommendations of the American Council of Education when credentials are presented Such recommendation, however, is not binding on the university

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 Examinations A final examination is required in every credit course and is scheduled on a designated day at the end of the course No student is exempted

Graduation and Certification

Application for Graduation. To be certified as a candidate for graduation the student obtains an application form from the dean and returns it to the dean The dean sends it and an official transcript to the student's department head In consultation with the student's adviser, the department head determines all requirements remaining to be completed At the appropriate time, the application is brought up to date, signed by the department head, and returned to the dean who certifies it and forwards it to the registrar

Undergraduate students should begin the procedure immediately after 90 hours have been earned Specific deadlines for filing degree application 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 on page 97

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

Military Commissioning Successful completion of the ROTC curriculum and recommendation for commissioning from the professor of Military Science qualifies students upon graduation to be offered commissions as second lieutenants in the United States Army, Army Reserve, or Army National Guard Information about policies and procedures for obtaining commissions is available in the Department of Military Science

DEGREE PROGRAMS AND REQUIREMENTS

Every bachelor's degree program requires the completion of a minimum of 128 semester hours, including (1) a general education component, (2) a major as prescribed by one of the departments, (3) a minor, second major, concentration, or other approved program as specified by the appropriate school and department, and (4) elective courses. 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 (track) consists of a group of prescribed and elective courses (30-64 hours) providing breadth and depth in an academic discipline, in two or more closely related disciplines, or in an interdisciplinary field of study The requirements for a major in one discipline may include supporting courses selected from other disciplines

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

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

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

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

A student may not major and minor in the same field

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

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

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

General Electives. Unless a program has been specifically exempted, each degree plan includes a minimum of 12 hours of general (free) electives These electives are exclusive of (1) hours earned in meeting the requirements of the other components of a degree program, (2) any remedial or developmental work a student may take, and (3) elective hours that may become available to a student through application of the general education waiver policy

Waivers and Substitutions. Waivers and substitutions of courses, other degree requirements, and academic regulations may be made only with adequate cause Exemption from, or substitutions in, requirements established by an academic department must be approved by the department head Schoolwide requirements may be waived or altered only with the approval of the dean of the school Waivers of, and substitutions in, university-wide regulations and requirements must be approved by the office for Academic Affairs All requests must be submitted to the registrar on the waiver and substitutions form

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

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

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

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

Second Bachelor's Degree. Students already graduated from accredited four-year institutions who are admitted to work toward another bachelor's degree must meet the university's regular graduation requirements A minimum of 30 additional semester hours with a 2 0 GPA must be earned by regular enrollment at the university The student must meet the requirements in general education and in the major as specified by the department head and dean

Students enrolled at the university who wish to work toward two bachelor's degrees simultaneously may do so, provided they secure the prior approval of the departments and schools through which the degree programs are offered Approval must be secured not later than the end of the junior year Students must meet the university's regular graduation requirements and complete at least 158 semester hours with a 2 0 GPA, including a minimum of 128 hours as specified for one degree and a minimum of 30 additional hours for the other (or second) degree through regular enrollment at the university The 30 additional hours must be selected so as to meet the requirements in general education, the program requirements component of the degree plan, and 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 128 semester hours under requirements outlined for one of the degree programs
2 A GPA of 2 00 on all work attempted at Western Carolina University and on all courses in the major
3 A minimum of 30 semester hours earned through regular enrollment at Western Carolina University in junior-senior courses, including not less than 12 hours on the junior-senior level in the major
4 Fifty percent of the credits in the major and 40 percent of the credits presented for graduation on the junior-senior level unless the degree program being completed by the student is specifically exempted from the requirement.
5 Compliance with the English Proficiency Policy

*See *Graduate School Issue* for graduate degree requirements

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 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 that it serves to integrate the total undergraduate experience and to promote optimum student achievement in chosen areas of interest The framework within which the requirements are applied provides for extensive individual differences among students and 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 appropriate department heads based on university guidelines

The student's choice of the courses that can be taken to meet the requirements in any category of general education is limited only by the courses approved for each category Where a choice is possible, course selections may not be specified. If a general education course should be specified as a requirement for some other component of a degree program, that course must be taken in addition to the courses taken to meet general education requirements It may not be taken in lieu of, or used to waive, a general education requirement

In cases where there is a provision for the waiver of a general education requirement based upon placement or passing another course, the hours waived become free electives or, in the case of certain approved majors, program and/or major requirements

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

Foundations Areas, 16 hours

1 ***Written Communication, 6 hours***
ENGL 101, 102 Composition I, II, 3 hours per course
2 ***Mathematics, 3 hours***
MATH 101 Mathematical Concepts, 3 hours
(This requirement is waived if a student passes a higher level math course Hours waived become free electives)
3 ***Thinking, Reasoning, and Expressing, 3 hours***
AST 201 (302) Cosmos, 3 hours
BIOL 107 (307) Classical Experiments in Biology, 3 hours
ECON 108 (313) The Perfect Society, 3 hours
HIST 104 (304) Seminar in History, 3 hours

LAW 101 (321) Legal Thought, Reasoning, and Implications, 3 hours
PHIL 201 (300) Logic and its Uses, 3 hours
PHYS 110 (310) Physical Science, 3 hours
PSY 105 (305) Thinking, Reasoning, and Expression, 3 hours
PSOC 105 (308) Current Political and Social Issues, 3 hours
STA 110 (310) Persuasive Thinking, Reasoning, and Expression, 3 hours

4 ***Computer Literacy, 1 hour***

CS 101 Computer Concepts and Issues, 1 hour
(This requirement must be met by the end of the sophomore year unless the student transferred to the university as a junior or senior The requirement is waived if the student passes BIOL 133, CHEM 135H, CS 150, CIS 251, CIS 256, or MET 160 by the end of the sophomore year The requirement may be waived for a junior or senior transfer student who passes BIOL 311, BIOL 242, CHEM 454, GEOG 326, PSC 348, PSC 349, SOC 385, SOC 386, or OA 340 Hours waived become freeelectives 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 2 hours selected from health or physical education and 1 hour of electives
ART 120 Beginning Drawing and Sketching, 1 hour
ART 121 Beginning Painting, 1 hour
ART 123 Off-Loom Fiber Works, 1 hour
ART 124 Beginning Ceramics, 1 hour
ART 125 Introduction to Calligraphy, 1 hour
ART 126 Image Making for Nonartists, 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 114 Introduction to Recorder, 1 hour
MUS 116 Introduction to Dulcimer, 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 117 Wrestling, 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 202 Casting, 1 hour
PE 203 Gun Handling, 1 hour
PE 204 Snow Skiing, 1 hour
PE 205 Modern Dance and Choreography, 1 hour
PE 206 Folk and Square Dancing, 1 hour
PE 207 Fencing, 1 hour
PE 209 Advanced Tennis, 1 hour*
PE 210 Advanced Golf, 1 hour*

PE 214 Tumbling and Rebound Tumbling, 1 hour
PE 215 Gymnastic Apparatus, 1 hour
PE 223 Soccer and Basketball, 1 hour
PE 224 Field Hockey, 1 hour
PE 225 Volleyball and Softball, 1 hour
PE 226 Tag Football, 1 hour
PE 227 Track and Field, 1 hour
PE 228 Adaptive Physical Education, 1 hour
PE 230 Ice Skating, 1 hour
STA 102 Theatre Production Stagecraft, 1 hour
STA 103 Theatre Production Costume, 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

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, FREN, GER, SPAN 204, ASI 108) ENGL 102 is prerequisite to all literature courses

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

2 ***Physical and Biological Sciences, 7 hours***
AST 101 Descriptive Astronomy, 3-4 hours
BIOL 101 Biology in the Contemporary World, 3-4 hours
CHEM 101 Chemistry in Society, 3-4 hours
GEOL 103 Earth and Man, 3-4 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 4-hour course including both lecture and lab All of the other courses may be taken with the lab for 4 hours credit or without the lab for 3 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
ENGL 203 Major American Writers, 3 hours
FREN 101 French Language and Culture or FREN 110*, 3 hours
GER 101 German Language and Culture or GER 110*, 3 hours
SPAN 101 Spanish Language and Culture or SPAN 110*, 3 hours
PHIL 101 Man and Value, 3 hours
b Fine or Performing Arts, 3 hours
ART 104 (308) Art Appreciation, 3 hours
MUS 101 (300) Music Appreciation, 3 hours
STA 104 (304) The Theatre Experience, 3 hours

4 ***Comparative Cultures, 3 hours***
ANTH 120 (320) Comparative Cultural Systems, 3 hours
ART 102 (302) African, Asian, and Western Art, 3 hours
ECON 103 (311) Economics of Comparative Cultures, 3 hours
ENGL 204 Cultures in Contact and Collision, 3 hours
FREN 105 The French-Speaking World, 3 hours
GEOG 103 (303) Cultural Geography, 3 hours
HIST 107 (307) World Cultures in Historical Perspective, 3 hours

PSC 107 (301) Comparative Political Cultures, 3 hours
REL 103 (300) Man and the Sacred, 3 hours
SPAN 105 The Spanish-Speaking World, 3 hours

5 ***The Human Past, 3 hours***
ANTH 110 Origins of Civilization, 3 hours
ENGL 201 Literary Landmarks in Western Culture, 3 hours
ART 103 Social History of Art, 3 hours
FREN 204 A Literary Perspective on French Civilization, 3 hours
GER 204 A Literary Perspective on German Civilization, 3 hours
HIST 105 (305) History of Modern Western Civilization, 3 hours
MUS 102 Music in American Culture, 3 hours
PSC 108 Global Issues in Politics, 3 hours
REL 104 The Biblical World, 3 hours
SPAN 204 A Literary Perspective on Spanish Civilization, 3 hours

* Only 3 of the 6 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.

Programs of Study

The university offers programs leading to bachelor's, master's, and education specialist 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 schools and departments, are described in the sections that follow Programs of interest to graduate students are presented in the *Graduate School Issue* of **The Record.**

Degree Programs

The following table lists alphabetically the university's principal academic programs and indicates the school offering the programs The schools are Arts and Sciences (A&S), Business (BUS), Education and Psychology (E&P), Nursing and Health Sciences (N&HS), and Technology and Applied Science (T&AS)

Undergraduate Major	School	Degree
Accounting	BUS	B S
Anthropology	A&S	B A
	A&S	B S
Art	A&S	B A
	A&S	B F A
	E&P	B S Ed.
Biology	A&S	B S
	E&P	B S Ed.
Business Administration and Law	BUS	B S
Business	E&P	B S Ed.
Chemistry	A&S	B S
	A&S	B A
Child Development and Family Relations	T&AS	B S
Clinical Laboratory Sciences	N&HS	B S
Clothing, Textiles, and Merchandising	T&AS	B S
Communication Disorders	E&P	B S Ed.
Computer Information Systems	BUS	B S
Computer Science	A&S	B S
Criminal Justice	T&AS	B S
Economics	BUS	B S
Electronic Engineering Technology	T&AS	B S
Elementary Education	E&P	B S Ed.
Emergency Medical Care	N&HS	B S
English	A&S	B A
	E&P	B S Ed.
Environmental Health	N&HS	B S
Finance	BUS	B S

Food Service Management	T&AS	B S
French	A&S	B A
	E&P	B S Ed.
General Special Education	E&P	B S Ed.
Geography	A&S	B S
Geography/Planning	A&S	B S
Geology	A&S	B A
	A&S	B S
German	A&S	B A
	E&P	B S Ed.
Health Services Management and Supervision	N&HS	B S
History	A&S	B A
	A&S	B S
Home Economics	E&P	B S Ed.
	T&AS	B S
Industrial Arts	E&P	B S Ed.
Industrial Chemistry	A&S	B S
Interior Design	T&AS	B S
Industrial Distribution	T&AS	B S
Industrial Technology	T&AS	B S
International Business	BUS	B S B A
Learning Disabilities	E&P	B S Ed.
Management	BUS	B S
Manufacturing Engineering Technology	T&AS	B S
Marketing	BUS	B S
Mathematics	A&S	B S
	E&P	B S Ed.
Medical Record Administration	N&HS	B S
Medical Technology (*see* Clinical Laboratory Sciences)	N&HS	B S
Mental Retardation	E&P	B S Ed.
Middle Grades Education	E&P	B S Ed.
Music	A&S	B A
	E&P	B S Ed.
Natural Resources Management	A&S	B S
Nursing	N&HS	B S N
Nutrition and Dietetics	T&AS	B S
Office Administration	BUS	B S
Parks and Recreation Management	E&P	B S
Philosophy	A&S	B A
Physical Education	E&P	B S Ed.
Physics	A&S	B S
Political Science	A&S	B A
	A&S	B S
Psychology	E&P	B S
Radio and Television	A&S	B A
	A&S	B S
Science	E&P	B S Ed.
Social Sciences	A&S	B A
	A&S	B S
	E&P	B S Ed.
Social Work	A&S	B S
Sociology	A&S	B A
	A&S	B S
Spanish	A&S	B A
	E&P	B S Ed.
Speech and Theatre Arts	A&S	B A
	E&P	B S Ed.
Sport Management	E&P	B S
Theatre	A&S	B F A
Therapeutic Recreation	E&P	B S

In addition to the curricula offered by a department or jointly by two departments, the university provides a number of special purpose programs in which students may participate

either as a part of the regular degree programs of their choice or as alternatives to them These opportunities include the following programs

University Honors Program

Students with a 3 0 or higher GPA are invited to participate in the University Honors Program. Freshmen are considered on the basis of SAT scores and high school records. Eligible students may enroll in individual seminars without pursuing the entire program The program consists of general seminars each semester during the freshman and sophomore years which apply toward completion of general education requirements and, during the junior and senior years, general seminars and honors courses, as well as independent study or research, in the major. All courses are taught by members of the honors faculty Students who complete at least 30 hours of honors instruction receive the statement "Graduate of the University Honors Program" on the permanent transcript. Those with at least 12 hours but less than 30 hours of honors instruction receive the designation "Honors Associate" on the permanent transcript. Honors students are encouraged to live in the Walker Living/Learning Center where special activities are scheduled for them and there is exclusive access to computing equipment located in the Center.

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, school, and university levels Responsibility for the administration of, and academic advisement in, the program is assigned to the several departments and schools, depending upon the nature of each program.

Study Abroad

As a part of its activities in international education, the university offers several programs of study in foreign countries Internships in American schools for student practice teachers are arranged on demand in various locations in Latin America, including Colombia, Central America, and the West Indies. A liberal arts program is offered in London, and an archeological program is offered in Yucatan Other programs are announced each year Inquiries about student teaching opportunities should be directed to the director of field experiences and teacher placement in the School of Education and Psychology Inquiries about any other programs should be directed to the director of international instructional programs Information about Study Abroad opportunities through other institutions is available at the CAP Center.

Preprofessional Programs

Students who attend the university to prepare for admission into a professional school are provided with a variety of options about 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 who are interested in programs in

professional fields other than those described should direct their inquiries to the advisement coordinator in the CAP Center or to the head of the appropriate department

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

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

Pre-Law. Law schools typically require a bachelor's degree for admission, but no one curriculum or major is recommended or prescribed for admission Pre-law students are urged to obtain from the Department of Political Science and Public Affairs a copy of the Association of American Law Schools' Statement on Prelegal Education and study its recommendations The catalog of the law school the student plans to attend should be consulted for any specific requirements

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 departmental and pre-law adviser The Law School Admission Test is administered twice each year by the Testing Center and students should take the test late in the junior year or early in the senior year

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

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

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

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

Cooperative Transfer Agreements with Community Colleges

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

Cooperative Program in Agriculture and Life Sciences

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

Agricultural economics, agricultural business management, agronomy, animal science, biological and agricultural engineering, biochemistry, biological sciences, botany, conservation, fisheries and wildlife sciences, food science, horticultural science, medical technology, pest management, poultry science, applied sociology, zoology and selected pre-professional programs For further information, contact the associate dean of the School of Arts and Sciences

Cooperative Program in Forestry

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

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

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

Experiential Programs

Western Carolina University endorses the concept of education as a multidimensional process of learning that incorporates study and practice To that end, its curricula are designed to provide for acquisition of knowledge and understanding of theory combined with opportunities for experience in practical applications in real settings Many of the degree programs include required work in professional situations specific to the positions and career areas for which the students are preparing At the student's option, a variety of other work opportunities deriving from and related to academic study are available through which job experience may be gained. 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

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. Information about eligibility for the program, work opportunities, and requirements for credit is available from the Cooperative Education Office in the Career and Academic Planning (CAP) Center

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

Applied Field Projects. Assignments of one term in duration provide opportunities for students to earn academic credit for approved applied field projects or research programs under faculty supervision in cooperating business, governmental, or educational organizations in which there is a need for a special project, as opposed to an on-going work assignment, to be carried out The assignments involve such activities as research, theory application, and the design and completion of a project pertinent to the operations of the cooperating agency Such courses are offered only on an elective basis and student selection is competitive.

Vocational-Technical Programs

Interdepartmental courses and programs are offered cooperatively by the schools of Business, Education and Psychology, and Technology and Applied Science for students interested in the field of vocational-technical education A bachelor's level program in occupational education for trade and industry is available through the Department of Industrial Education and Technology Multiple certification options are available as a part of, or supplementary to, the bachelor's curricula in business education, home economics, and industrial education. Graduate courses in vocational-technical education also are offered to supplement master's level curricula.

Community-Oriented Regional Education Program

Western Carolina University, working cooperatively with community colleges, provides selected bachelor's level academic programs specifically designed to meet the needs of associate degree graduates in community settings Developed within the general university guidelines for bachelor's programs for two-year college graduates, each program is offered in a location convenient to persons employed in business and industry Further information is available from the Division of Continuing Education

In-Service Programs

Western Carolina University offers a variety of courses and programs on an in-service basis for persons who need to pursue degrees while fully employed The courses and programs, scheduled in Asheville, Cherokee, Cullowhee, and other locations, are primarily designed to meet the needs of in-service students Programs are available in such major areas as business, education, industrial technology, nursing, and health sciences Contact the dean of the appropriate school

Army Reserve Officers' Training Corps

The Army ROTC unit at Western Carolina University is open to qualified men and women. Upon graduation in one of the university's regular degree programs, students successfully completing the program will be commissioned second lieutenants in the United States Army, Army Reserve, or National Guard Students receive financial compensation while enrolled in the advanced course Competitive scholarships are available Further information may be obtained from the Department of Military Science, Western Carolina University

SCHOOL OF ARTS AND SCIENCES

Clifford R Lovin, Dean

J C Alexander, Jr , Associate Dean

The role of the School 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 school 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 school and its sister schools Many departments in the school are becoming more actively involved in teacher preparation

Scholarly productivity through a variety of discipline-related activities is essential to the growth of the school 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 school and university in the broader academic world

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

Program Requirements School-level program requirements for all Bachelor of Arts degree programs include MFL 231-232 or 240

DEPARTMENT OF ART

Robert Godfrey, Head

R Borge, W Buchanan, L Budahl, J Byrd, C Griffin, J Jicha, L Petrovich-Mwaniki, J Smith, J Thompson

Artist in Residence D Nichols

Major in Art, B.F.A. Degree

General education, 41 hours

Program requirements, 3 hours PHIL 310

The major requires 63 hours as follows
131 Drawing I, 3 hours
132 Two-Dimensional Design, 3 hours
136, 137 Art History Survey I, II, 6 hours
141 Drawing II, 3 hours
142 Three-Dimensional Design, 3 hours
416 Contemporary Art History, 3 hours
Art history electives (6 hours) at the junior-senior level Studio electives (12 hours) selected from 233, 234, 241, 251, 270, 350, 352, 354, 372, and 458 (Students in graphic design must take 270 and 372)

Concentration (24 hours) selected from
Studio Courses in no more than two areas, selected from painting/drawing, printmaking, sculpture, ceramics, glass, and photography to include at least 18 hours at the junior-senior level

Graphic Design ART 370, 371, 374, 474, 475 and 483 or 389, and 9 hours selected from photography, graphic design, and illustration at the junior-senior level
General electives (21 hours), including at least 12 hours at the junior-senior level, are required to complete the program

Major in Art, B.A. Degree

General education 41 hours

Program requirements, 6 hours MFL 231-232 or 240
The major requires 36 hours as follows
131 Drawing I, 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

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

Major in Art, B.S.Ed. Degree

General education, 41 hours

Program requirements, 3 hours STA 250

The major requires 51 hours as follows
131 Drawing I, 3 hours
132 Two-Dimensional Design, 3 hours
136, 137 Art History Survey I, II, 6 hours
141 or 142 Drawing II or Three-Dimensional Design, 3 hours
461 Art Education, 3 hours
462 Art Education Philosophy, 3 hours
463 Art Education Materials and Methods, 3 hours
Art history electives 6 hours at the junior-senior level
18 hours art studio 233, 234, 241, 251, 256, 372,
3 hours art studio electives selected from 252, 270, 458

The professional education sequence (26 hours) for secondary and special subject teaching, exclusive of the methods course, and general electives (7 hours) at the junior-senior level are required to complete the program

Minor in Art

The minor requires 21 hours, including 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

Clifford R Lovin, Dean

Minor in American Studies

The minor requires 18 hours in courses designed to provide insight into the interrelationships of art, literature, music, philosophy, history, geography, society, politics, and other facets of American culture Requirements include ASI 301, 493, and 12 hours of guided electives selected from at least two areas Guided electives may include a second seminar in ASI 493
ENGL 203 and HIST 231, 232 are recommended as preparatory courses for the minor

Minor in Cherokee Studies

The minor requires 21 hours, including HIST 445, CHER 131, 132, ANTH 461, 473, and 6 hours of electives selected from CHER 231, 232, ANTH/ART 379, and USI 394

Minor in International Studies

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

Minor in Social Change

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

Minor in Race, Ethnic and Gender Relations

The minor requires 24 hours, including SOC 231, 314, 414, 326 and 12 hours of core electives from SOC 423, 448, 454, ANTH 417, HIST 442, 445, 446, 451, 463, PSC 411, PSY 333, SOCW 402, ANTH 473

DEPARTMENT OF BIOLOGY

Roger H Lumb, Head

R Bruce, F Coyle, L DelForge, F Harrison, F Hinson, J Horton, H Mainwaring, A Moore, J Palmer, D Puttillo, I Pritchard, J Wallace, J West, P Wright

Major in Biology, B.S. Degree

General education, 41 hours

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

The major requires 55-65 hours as follows
130, 131 General Botany and General Zoology, 8 hours
232 General Ecology, 3 hours
242 Genetics and Evolution, 3 hours
311 Physiology, 3 hours
333 Cell and Molecular Biology, 3 hours
498 Senior Thesis I, 2 hours
499 Senior Thesis II, 1 hour
CHEM 136 General Chemistry, 4 hours

Emphasis area (28-38 hours) selected from one of the following
Computer Science/Statistics 37 hours CS 150, 151, 250, 262, MATH 270, 375, 310, PHYS 130, 131, and 8 hours of junior-senior biology electives
Horticulture 38 hours 8 hours selected from BIOL 413, 414, 415, 451, 455, and up to 30 hours in horticulture courses accepted in transfer with the approval of the department head.
Mathematics 30 hours MATH 153, 255, 262, CS 150, 8 hours of math/computer science electives, and 8 hours of junior-senior biology electives
Parks and Recreation Management, 35 hours PRM 150, 250, 350, 370, 440, 460, 483, 484, 495, and 12 hours of junior-senior biology electives

Preprofessional, 28 hours CHEM 241, 242, 271, PHYS 130, 131, and 12 hours of junior-senior biology electives
Environmental Health, 38 hours BIOL 413, 414, CHEM 133, a physics course (additional to courses taken to meet general education requirements), HSEH 230, 310, 320, 330, 440, 460, 470, 483
Business, 34 hours FIN 305, ACCT 161, ECON 231, 232, MGT 300, MKT 301, PHYS 130, 131, and 8 hours of junior-senior biology electives

General electives (12-20 hours), are required to complete the program At least half of the hours selected must be at the junior-senior level Recommended electives include CIS 251 and BIOL 389 with the horticulture emphasis, GEOL 305 with the environmental health emphasis, CIS 251 with the business emphasis

Major in Biology, B.S.Ed. Degree

General education, 41 hours

Program requirements, 11 hours MATH 130, 140, STA 250

The major requires 46 hours as follows
130, 131 General Botany and General Zoology, 8 hours
232 General Ecology, 3 hours
242 Genetics and Evolution, 3 hours
311 Physiology, 3 hours
333 Cell and Molecular Biology, 3 hours
498 Senior Thesis I, 2 hours
CHEM 135, 136 General Chemistry, 8 hours
PHYS 130, 131 Introductory Physics, 8 hours
Biology electives (8 hours) at the junior-senior level

The professional education sequence (28 hours) for secondary and special subject teaching and 2 hours of general electives are required to complete the program At least 3 of the general education hours eligible for waiver through this program must be taken in junior-senior courses

Minor in Biology

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

DEPARTMENT OF CHEMISTRY AND PHYSICS

Glenn Liming, Head

J Bacon, J Bassett, R Berne, D Butcher, P Heckert, T Moody, G Morris, G Pool, F Prochaska, E Vassian, R Woosley

Major in Chemistry, B.A. Degree

General education, 41 hours

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

The major requires 35 hours as follows
135, 136 General Chemistry, 8 hours
241, 242 Organic Chemistry I, II, 6 hours
271 Chemical Techniques, 2 hours
321 Inorganic Chemistry, 3 hours
331 Instrumental Analysis, 3 hours
370 Analytical Spectroscopy and Chromatography, 3 hours

371, 372 Chemical Dynamics and Chemical Synthesis, 4 hours
451 Biophysical Chemistry, 4 hours
495 Seminar, 2 hours

A minor, second major, or other approved program and general electives (30 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, 478

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

Major in Chemistry, B.S. Degree

General education, 41 hours

Program requirements, 21 hours MFL 231 (German recommended), MATH 145, 146, 153, PHYS 230, 231

The major requires 47 hours as follows
135, 136 General Chemistry, 8 hours
241, 242 Organic Chemistry I, II, 6 hours
271 Chemical Techniques, 2 hours
321 Inorganic Chemistry, 3 hours
331 Instrumental Analysis, 3 hours
352 Physical Chemistry I, 3 hours
370 Analytical Spectroscopy and Chromatography, 3 hours
371, 372 Chemical Dynamics and Chemical Synthesis, 4 hours
453 Physical Chemistry II, 3 hours
495 Seminar, 2 hours
MATH 255 Calculus II, 4 hours
Chemistry electives (6 hours) at the junior-senior level exclusive of experiential courses and exclusive of CHEM 330

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

Major in Chemistry, B.S. Degree-Professional Level

All requirements are the same as for the regular Bachelor of Science degree program except that MATH 256, four hours of CHEM 380, and a 3-hour physics elective at the junior-senior level also are required General electives total 8 hours

Major in Industrial Chemistry, B.S. Degree

General education, 41 hours

Program requirements, 22 hours STA 250, MATH 130, 140, PHYS 130, 131, ECON 130

The major requires 60 hours as follows
135, 136 General Chemistry, 8 hours
241, 242 Organic Chemistry I, II, 6 hours
271 Chemical Techniques, 2 hours
311 Industrial Chemistry, 3 hours
321 Inorganic Chemistry, 3 hours
331 Instrumental Analysis, 3 hours
370 Analytical Spectroscopy and Chromatography, 3 hours
371, 372 Chemical Dynamics and Chemical Synthesis, 4 hours
451 Biophysical Chemistry, 4 hours
ACCT 161 Accounting for Non-Business Majors, 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
STA 312 Group Discussion and Conference, 3 hours
STA 315 Organizational and Industrial Communication, 3 hours
ENGL 401 Writing for the Professions, 3 hours

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, 14 hours MATH 145, 146, CHEM 135, 136

The major requires 46 hours as follows
130-131 or 230-231 Introductory Physics or General Physics, 8 hours
302 Electronics, 4 hours
350 Atomic Physics, 4 hours
360 Laboratory Physics, 2 hours
411 Theoretical Physics, 3 hours
495 Seminar in Physics, 1 hour
Physics electives (9 hours) at the junior-senior level exclusive of experiential courses
MATH 153, 255, 256 Calculus I, II, III, 12 hours
MATH 320 Ordinary Differential Equations, 3 hours

General electives (27 hours), including at least 21 hours at the junior-senior level, are required to complete the program Students are urged to plan a program leading to a competency in a second area

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

General education, 41 hours

Program requirements, 8 hours MATH 130, 140.

The major requirement provides three options, including Biology, Chemistry or Geology

Biology, 44 hours
130, 131 General Botany and General Zoology, 8 hours
232 General Ecology, 3 hours
242 Genetics and Evolution, 3 hours
312 Molecular Biology and Physiology, 4 hours
CHEM 135, 136 General Chemistry, 8 hours
GEOL 150 or 155 Introduction to Physical Geology or Introduction to Historical Geology, 4 hours
PHYS 130, 131 Introductory Physics, 8 hours
Biology electives (10 hours) at the junior-senior level

Chemistry, 42 hours
135, 136 General Chemistry, 8 hours
241, 242 Organic Chemistry, I, II, 6 hours
271 Chemical Techniques, 2 hours
321 Inorganic Chemistry, 3 hours
331 Instrumental Analysis, 3 hours
352 Physical Chemistry I, 3 hours
370 Analytical Spectroscopy and Chromatography, 3 hours
371, 372 Chemical Dynamics and Chemical Synthesis, 4 hours
495 Seminar, 2 hours
BIOL 130 or 131 or GEOL 150 or 155 General Botany or General Zoology or Introduction to Physical Geology or Introduction to Historical Geology, 4 hours
PHYS 130, 131 Introductory Physics, 8 hours

Geology, 46 hours
150, 155 Introduction to Physical and Historical Geology, 8 hours
252 Mineralogy, 4 hours
302 Geomorphology, 4 hours
371 Structural Geology, 3 hours
420 Sedimentation, 3 hours
421 Stratigraphy, 3 hours
BIOL 130 or 131 General Botany or General Zoology, 4 hours
CHEM 135, 136 General Chemistry, 8 hours
PHYS 130, 131 Introductory Physics, 8 hours
Geology elective (5 hours) at the junior-senior level

Professional education sequence, 28 hours (for each option)

General electives, 1-5 hours

Minor in Chemistry

The minor requires 21 hours including 135, 136, 241, 242, 271, 370, and 2 hours of junior-senior chemistry electives

Minor in Physics

The minor requires 20 hours, including 130-131 or 230-231 and 12 hours of junior-senior electives

DEPARTMENT OF ENGLISH

J Karl Nicholas, Head

E Addison, J Addison, R Boyer, J Byer, K Byer, A Chambers, N Clark, G Dobbins, R Eberly, E Evans, H Farwell, D Fredricks, D Heinze, W Higgins, N Holtzclaw, M Horton, M Jody, N Joyner, D McKevlin, J Meigs, G Miller, J Moore, T Newkark, J Nicholl, T Nienhuis, M O'Neal, R Parr, B Railsback, R Parramore, D Reed, J Reed, R Sawyer, S Vogt, P Wade

Major in English, B.A. Degree

General education, 41 hours

Program requirements, 6 hours MFL 231-232 or 240

The major requires 39 hours as follows
251 Survey of English Literature I, 3 hours
252 Survey of English Literature II, 3 hours
330 Introduction to Literary Interpretation, 3 hours

Concentration (30 hours) selected from
Literature 12 hours selected from ENGL 420, 431, 440, 441, 451, 460, 470, 3 hours selected from ENGL 311, 312, 412, 415, and 15 hours of junior-senior English courses, 9 of which must be literature
Writing and Editing ENGL 303, 389 or 483, and 497, 15 hours selected from ENGL 305, 306, 307, 308, 309, 312, 400, 401, 405, 493, JOUR/RTV 140, 301, JOUR 303, 304, 393, 403, 420, and 6 hours selected from junior-senior English literature courses
Journalism JOUR/RTV 140, 301, 302, 401, 420, JOUR 389 or 483, 6 hours selected from ENGL 306, 307, 312, JOUR 303, 304, 393, 402, 403, 414, and 6 hours selected from junior-senior English literature courses

To complete the program, a total of 42 hours is required, including a minimum of 18 hours of general electives, a minor, second major, or other approved program, and appropriate credits (21-27 hours) at the junior-senior level

Major in English, B.S.Ed. Degree

General education, 41 hours

Program requirements, 9 hours MFL 231-232 or 240 and STA 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 or 412 or 415 Grammar for Writing or Modern English Structure or Linguistics, 3 hours
330 Introduction to Literary Interpretation, 3 hours
400 or 414 Advanced Composition or Fundamentals of Teaching Composition (recommended), 3 hours
Electives (12 hours) selected from 420, 431, 440, 441, 451, 460, 470
Electives (9 hours) selected from junior-senior English courses

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

Minor in English

The minor requires 18 hours in English above the sophomore level

Minor in Journalism

The minor requires 18 hours, including 12 hours in journalism and 6 hours of electives selected from journalism and/or writing courses

Minor in Writing and Editing

The minor requires 18 hours, including ENGL 303 and 15 hours selected from writing and/or journalism courses

Minor in Communications

See the listing in the Department of Speech and Theatre Arts

Minor in Literature

The minor requires 18 hours of literature courses, exclusive of those approved for general education credit.

DEPARTMENT OF GEOSCIENCES AND ANTHROPOLOGY

Jeffrey W Neff, Head

R Gurevich, A Horstman, B Idleman, P Morris, A Rogers, R Triplette, P White, J Wilcox, S Yurkovich

Major in Geography, B.S. Degree

General education, 41 hours

Program requirements, 8 hours GEOL 150, MATH 170, 171

The major requires 50 hours as follows
150 Environmental Geography, 3 hours
250 Economic Geography, 3 hours
320 Map Interpretation, 3 hours
322 Cartography, 4 hours

324 Remote Sensing, 4 hours
326 Research Methods in 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, 444, and 440

General electives (29 hours), including at least 7 hours at the junior-senior level, are required to complete the program

Major in Geography-Planning, B.S. Degree

General education, 41 hours

Program requirements, 8 hours GEOL 150, MATH 170, 171

The major requires 49 hours as follows
150 Environmental Geography, 3 hours
250 Economic Geography, 3 hours
302 Geomorphology, 4 hours
305 Soils and Hydrology, 4 hours
320 Map Interpretation, 3 hours
322 Cartography, 4 hours
324 Remote Sensing, 4 hours
326 Research Methods in Geography, 3 hours
402 Conservation of Natural Resources, 3 hours
460 Urban and Regional Land Use Planning, 3 hours
462 Urban Geography, 3 hours
464 Industrial Location, 3 hours
Geography electives, 9 hours

General electives (30 hours), including at least 18 hours at the junior-senior level, are required to complete the program A minor in economics, geology, political science, sociology, or other approved discipline may be selected or the student may select from a variety of courses to complete degree requirements

Major in Geology, B.A. Degree

General education, 41 hours

Program requirements, 9 hours MFL 231-232 or 240, MATH 130 or 146

The major requires 48 hours as follows
150, 155 Introduction to Physical and Historical Geology, 8 hours
252 Mineralogy, 4 hours
302 Geomorphology, 4 hours
371 Structural Geology, 3 hours
420 Sedimentation, 3 hours
421 Stratigraphy, 3 hours
CHEM 135, 136 General Chemistry, 8 hours
PHYS 130, 131 Introductory Physics, 8 hours
Geology electives at the junior-senior level, 7 hours

General electives (30 hours), including at least 18 hours at the junior-senior level, are required to complete the program

This program is designed for the liberal arts student who may seek a career in environmental science, planning, or a related area. Students who expect to become professional geologists or who expect to take a graduate degree in geology should complete the requirements for the Bachelor of Science degree program in geology

Major in Geology, B.S. Degree

General education, 41 hours

Program requirements, 17-18 hours CHEM 135, 136, and either MATH 145, 146, and 153, or MATH 170 and 6 additional hours selected from MATH 130, 145, 146

The major requires 49 hours as follows
150, 155 Introduction to Physical and Historical Geology, 8 hours
252 Mineralogy, 4 hours
351 Optical Mineralogy and Petrography, 3 hours
352 Igneous and Metamorphic Petrology, 4 hours
371 Structural Geology, 3 hours
420 Sedimentation, 3 hours
421 Stratigraphy, 3 hours
471 Tectonics, 3 hours
PHYS 130-131 or 230-231 Introductory Physics or General Physics, 8 hours
Geology, math, or science electives, 6 hours
Geology summer field course to be taken at an accredited institution with approval of the department head, 4 hours

General electives (20-21 hours), including at least 12 hours at the junior-senior level, are required to complete the program

Major in Anthropology, B.A. Degree

General education, 41 hours

Program requirements, 6 hours MFL 231-232 or 240

The major requires 36 hours as follows
250 Archeology and Bioanthropology, 3 hours
260 Cultural and Social Anthropology, 3 hours
341 History of Anthropological Theory, 3 hours
419 Comparative Family, 3 hours
Electives (6 hours) selected from 327, 349, 351, 365
Elective (3 hours) selected from 361, 431, 441
Elective (3 hours) selected from 380, 440, 466
Electives (6 hours) selected from 417, 461, 464, 477
Anthropology electives (6 hours) in junior-senior courses

To complete the program, 45 hours are required, including a minor, second major, or other approved program and at least 18 hours of general electives At least 21 hours of the courses taken must be at the junior-senior level

Major in Anthropology, B.S. Degree

All the requirements for the degree are the same as those listed above for the Bachelor of Arts degree, except that a foreign language is not required and electives are increased by 6 hours

Minor in Earth Sciences

The minor requires 23 hours, including GEOL 150, 155, 252, GEOL 150, 300, AST 250

Minor in Geology

The minor requires 21 hours, including 150, 155, 252, and 9 hours of electives above the freshman level

Minor in Geography

The minor requires 21 hours, including 150, 250, and 15 hours of electives above the freshman level

Minor in Geography-Planning

The minor requires 23 hours, including 150, 250, 320, 460, 462, 464, and 5 hours of junior-senior electives

Minor in Anthropology

The minor requires 21 hours, including 250, 260, and 15 hours of junior-senior electives

DEPARTMENT OF HISTORY

Max R Williams, Head

W Anderson, J Bell, T Blethen, D Dorondo, G Graham, E Hulbert, J Lewis, C Lovin, G Schwartz, B Walton, C Wood

Major in History, B.A. Degree

General education, 41 hours

Program requirements, 6 hours MFL 231-232 or 240

The major requires 33 hours including 9 hours selected from 132-133, 231-232, 21 hours of junior-senior history electives to include 3 hours in United States, 3 hours in European, and 3 hours in non-Western history, and 397

To complete the program, a total of 48 hours is required, including a minor, second major, or other approved program and at least 18 hours of general electives At least 27 hours of the courses taken must be at the junior-senior level

Major in History, B.S. Degree

Program requirements, 4 hours MATH 170, 171

All other requirements for the degree, including those in the major, are the same as those listed above for the Bachelor of Arts degree, except that there is no foreign language requirement.

Minor in History

The minor requires 21 hours, including 132-133 or 231-232 and 15 hours of junior-senior history electives

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

Joseph Klerlein, Head

J Baker, A Barbir, C Burrell, R DeVane, M Dolan, A Gilman, S Manickam, R Marshall, L Minor, L Morton, N Norgaard, B Norton, E Prochaska, R Stephens, D Teague, D Wells, H Williford, R Willis, R Wohlman, K Wood

Major in Computer Science, B.S. Degree

General education, 41 hours

Program requirements, 18 hours· MATH 145, 146, PHYS 230, 231, BIOL 130 or 131 or CHEM 135 or GEOL 150 or 155

The major requires 57 hours as follows·
150, 151 Computer Programming I, II, 6 hours

250 Introduction to Computer Systems, 3 hours
251 Introduction to Computer Organization, 3 hours
351 Data Structures and Algorithm Analysis, 3 hours
352 Organization of Programming Language, 3 hours
362 Files and Data Structures, 3 hours
462 Systems Programming, 3 hours
MATH 153, 255, 256 Calculus I, II, III, 12 hours
MATH 254 Matrix Theory, 3 hours
MATH 270 Statistical Methods I, 3 hours
MATH 310 Discrete Structures, 3 hours

Electives (12 hours) selected from CS 300, 303 320, 361, 443, 451, 452, 453, 455, 460, 463, 464, 465, 470, 480, MATH 441

General electives (12 hours), including at least 6 hours at the junior-senior level, are required to complete the program

Major in Mathematics, B.S. Degree

General education, 41 hours

Program requirements, 16 hours CS 150, PHYS 230, 231, BIOL 130 or 131 or CHEM 135 or GEOL 150 or 155

The major requires 33 hours in core courses as follows
153, 255, 256 Calculus I, II, III, 12 hours
262 Introduction to Linear Algebra, 3 hours
310 Discrete Structures, 3 hours
320 Ordinary Differential Equations, 3 hours
323 Advanced Calculus I, 3 hours
361 Introduction to Abstract Algebra, 3 hours
370 Statistical Theory I, 3 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 20 hours of general electives, including a minimum of 15 hours at the junior-senior level, or
(2) a total of 38 hours, including a second major, minor, or other approved program and at least 12 hours of general electives Of the total hours, 33 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, 15 hours CS 150, STA 250, and PHYS 230-231

The major requires 37 hours as follows
153, 255, 256 Calculus I, II, III, 12 hours
262 Introduction to Linear Algebra, 3 hours
270 Statistical Methods I, 3 hours
300 Problem Solving, 2 hours
310 Discrete Structures, 3 hours
323 Advanced Calculus I, 3 hours
361 Introduction to Abstract Algebra, 3 hours
411 Foundations in Geometry, 3 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 general electives (7 hours), including 5 hours at the junior-senior level, are required to complete the program

Minor in Computer Science

The minor requires 20-22 hours, including CS 150,151,310, 351; Math 153 or 140 or 270, and 3 hours of other CS courses numbered 250 or higher

Minor in Mathematics

The minor requires 24 hours, including CS 150, MATH 153, 255, 256, and 8 hours of electives in mathematics courses numbered 254 or higher

DEPARTMENT OF MILITARY SCIENCE

Michael B Mountain, Head

W Carr, T Allison

This program is designed to train quality college students in leadership roles to become commissioned officers filling executive positions in the Army

Students who, as a part of their degree programs, successfully complete the requirements in military science, and upon recommendation of the Professor of Military Science will be commissioned second lieutenants in the United States Army, Army Reserve, or Army National Guard upon graduation.

The objectives of the program are to enhance the academic atmosphere through effective time management, physical and mental enrichment, development of leadership fundamentals, to gain a basic understanding of associated professional knowledge, a strong sense of personal integrity, honor and individual responsibility, and to establish a sound basis for future professional development.

The ROTC program consists of the basic course for freshmen and sophomores and the advanced course for juniors and seniors Members of the Army, Navy, Air Force, Marine Corps, or Coast Guard on active duty, commissioned officers and former commissioned officers of these services, and officers of the Public Health Service, or National Oceanic and Atmospheric Administration are not eligible for enrollment in the basic or advanced courses

Students with two or more years of high school ROTC training are eligible for advanced placement as determined by the professor of Military Science Veterans who have completed one year of active duty and who received an honorable discharge may enter the advanced course Students interested in completing the program in less than four years should consult the head of the department

Information about compensation and scholarships for students enrolled in the advanced course will be found in the section of this catalog on financial aid

The Curriculum The ROTC curriculum consists of 20 hours of military science courses and 3 hours in American Military History (HIST 354) Students simultaneously major in a regular academic discipline to meet degree requirements

The Basic Course offers four military science courses MS 130, MS 131, MS 240, and MS 241 These courses consist of an hour of classroom instruction per week and a one hour laboratory every other week. These classes may be taken as electives and there is no commitment involved.

The Advanced Course consists of four courses which are taken in the junior and senior years A three hour advanced course MS 331, MS 332, MS 430, and MS 431 is required each semester A military leadership laboratory meeting one hour every week is included in the course Students also will enroll in HIST 354 during their junior year and are required to attend advanced camp during the summer between their junior and senior year Academic credit for advanced camp is optional There are several alternate ways to get credit for the basic course

DEPARTMENT OF MODERN FOREIGN LANGUAGES

Patricia A Umfress, Head

T Gamble, P Haberland, R Morgan, N Norris, A Perry, L Sutton

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, 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, German, or Spanish Civilization, I, II, 6 hours
331, 332 Survey of French, German, or Spanish Literature I, II, 6 hours
335, Introduction to French, German, or Spanish Prose and Poetry, 3 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, 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, German, or Spanish Civilization, I, II, 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 331, 332, 335, GERM 331, 332, 335, SPAN 331, 332, 333, 335 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

DEPARTMENT OF MUSIC

Robert Kehrberg, Head

E Adcock, P Basler, M Bauer, M Beaver, J Dooley, B Farlow, M Gaetano, R Holquist, L Pearson, C Smith, E Spell, P Ulrich, M Waters, J West

To major in music, students must pass an applied music audition in piano and in the performance principal area and take a music aptitude examination Students who fail to meet

minimum standards on the music aptitude examination may be required to enroll in MUS 138 and 139 (Ear-Training Laboratory) before enrolling in MUS 152 or 177

Students must pass an audition in applied music or successfully complete MUS 170 before enrolling in individual instruction courses A jury is given at the end of each semester of preparatory work to determine the student's eligibility for individual instruction. Credit earned in preparatory study will not apply toward applied music requirements

By the end of the second semester at the 100 and 200 levels in the applied music principal, each student must pass a qualifying examination in order to enroll in the next sequence (200 or 300 level) applied music courses A prerequisite for taking the qualifying examination a second time is to repeat the appropriate 100 or 200 level course (MUS 1/233, 1/237, 1/243, 1/247, 1/257, 1/263, or 1/267)

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 senior performance examination or recital in the principal applied area for approval of the appropriate faculty committee before a degree will be granted.

Major in Music, B.A. Degree

General education, 41 hours

Program requirements, 6 hours MFL 231-232 or 240

The major requires 41 hours as follows
152, 153 Aural Skills Laboratory, 2 hours
177, 178 Basic Musicianship, 6 hours
252, 253 Aural Skills Lab, 2 hours
277, 278 Theory and Literature, 6 hours
350, 351 Music History, 6 hours
428 or 429 Conducting, 3 hours
Principal performing medium, a minimum of 12 hours and completion of the 300 level of proficiency
Applied music electives excluding ensembles (piano required unless it is the principal), 4 hours, or with music industry option, 0-2 hours
Music industry option must include upper division music elective, 2-4 hours

To complete the program, 40 hours, including a minimum of 23 hours at the junior-senior level, are required One of the following options or concentrations must be completed
Concentration Applied Emphasis, must include 477 or 425 (3 hours), 305 (1 hour), 405 (1 hour), and senior level applied principal (4 hours), 31 elective hours to include 12 hours exclusive of music courses
Music Industry Option ACCT 161, MKT 301, 302, CIS 251, BA 133, LAW 230, MGT 300; MUS 378, 16 hours electives
Minor, second major or approved program, 40 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 54 hours, including a 31-hour core and 23 hours in general or instrumental music as follows
152, 153 Aural Skills Laboratory, 2 hours
168 String Class, 1 hour
177, 178 Basic Musicianship, 6 hours
252, 253 Aural Skills Lab, 2 hours
270 Brass Class, 1 hour
271 or 274 Woodwind Class, 1 hour
272 Percussion Class, 1 hour
277, 278 Theory and Literature, 6 hours
350, 351 Music History, 6 hours

428 or 429 Conducting, 3 hour
470 Orchestration and Arranging, 2 hours

Concentration selected from

General Music 258, 327, 169, 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, 273, 271 or 274, 326, 0-4 hours in piano or piano class, 0-5 hours in 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 5 hours 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, 177, 178, 4 hours of applied music in voice or an instrument, 5 hours in class piano, voice, brass, woodwind, string, and percussion, depending upon the student's area of applied music, 2 hours in ensemble, and 3 hours of electives.

NATURAL RESOURCES MANAGEMENT PROGRAM

Lawrence G Kolenbrander, Program Coordinator

Major in Natural Resources Management, B.S. Degree

General education, 41 hours

Program requirements, 11 hours CHEM 135; MATH 170, 171, MGT 300

The major requires 64 hours, including 43 hours in core courses and a 21-hour concentration
BIOL 130 General Botany, 4 hours
BIOL 131 General Zoology, 4 hours
BIOL 232 General Ecology, 3 hours
GEOG 150 Environmental Geography, 3 hours
GEOG 305 Soils and Hydrology, 4 hours
GEOG 324 Introduction to Remote Sensing, 4 hours
GEOG 402 Conservation of Natural Resources, 3 hours
PRM 460 Management of Natural and Cultural Resources, 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, MGT 306, NRM 350, 352, 450

Water Resources BIOL 413, 414, 435, CHEM 136, 330, NRM 460, and 3 hours of designated junior-senior natural resources management courses

Land Use Planning GEOG 250, 320, 460, 462, 464, and 6 hours at the junior-senior level in economics, management, and geography

General electives (12 hours), including at least 1-2 hours at the junior-senior level, are required to complete the program

ASSOCIATED AREA OF PHILOSOPHY AND RELIGION

Michael Jones, Program Coordinator

J McLachlan, E Szendrei

Major in Philosophy, B.A.

General education, 41 hours

Program requirements, 6 hours MFL 231-232 or 240

The major requires 30 hours Only grades of C 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

A logic requirement must be satisfied by either passing the logic examination or PHIL 232, Introduction to Symbolic Logic To complete the program, a total of 51 hours is required including 12-15 hours in junior-senior philosophy electives and at least 12 hours of general electives 24-27 hours are required 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, PSC 345, 346

**A student who is interested in a major in philosophy should consult the program coordinator about the applicability of a special studies program*

DEPARTMENT OF POLITICAL SCIENCE AND PUBLIC AFFAIRS

Gordon Mercer, Head

W Latimer, C Livingston, C Stevens

Major in Political Science, B.A. Degree

General education, 41 hours

Program requirements, 6 hours MFL 231-232 or 240

The major requires 33 hours as follows
231 American Government and Politics, 3 hours
302 or 303 Problems and Policies of American Government or State and Local Government, 3 hours
315, 316, or 318 European Political Systems, Politics of Developing Areas, or Soviet Political Systems, 3 hours
331 or 332 International Politics or International Organization, 3 hours
(331 is required for the concentration in international relations)
345 or 346 Ancient and Medieval Political Thought or Modern Political Thought, 3 hours
Electives, cooperative education, or internship in the area of the concentration, 6 hours

Concentration (12 hours) selected from
General Political Science Electives at the junior-senior level
Public Administration 304, 6 hours selected from 307, 336, and 421, and 6 hours of junior-senior electives
International Relations 6 hours selected from 332, 333, 334, 335, and 6 hours of junior-senior electives
American Political Institutions 6 hours selected from 305, 306, 407, 409, 449, 494, and 6 hours of junior-senior electives

To complete the program a total of 48 hours is required, including at least 18 hours of general electives and a minor, second major, or other approved program At least 27 hours of the courses selected must be at the junior-senior level

Major in Political Science, B.S. Degree

Program requirements (4 hours) include MATH 170, 171 instead of a foreign language The remainder of the requirements are the same as those stated above in the Bachelor of Arts degree program

Minor in Political Science

The minor requires 21 hours, 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 132, 133 World Civilization, 6 hours
Two of the following four groups ECON 231-232, GEOG 150-250, PSC 231-315, SOC 231-ANTH 260
Advanced electives (21 hours) including at least 6 hours in each of three areas American history, anthropology, economics, foreign history, geography, political science, sociology

To complete the program, a total of 42 hours is required, including a minimum of 18 hours of general electives and a minor, second major, or other approved program At least 30 hours of the courses taken must be at the junior-senior level

Major in Social Sciences, B.S. Degree

All of the requirements for the degree are the same as those listed for the Bachelor of Arts program except that MATH 170 (3 hours) and MATH 171 (1 hour lab) are required, a foreign language is not required, and electives are increased by 2 hours

Major in Social Sciences, B.S.Ed. Degree

General education, 41 hours

Program requirements, 9 hours 6 hours in a foreign language exclusive of courses taken to meet general education requirements, STA 250

The major requires 48 hours as follows
PSY 250 General Psychology, 3 hours
GEOG 102 World Regional Geography, 3 hours
ANTH 260 Cultural and Social Anthropology, 3 hours
HIST 132, 133 World Civilization, 6 hours
HIST 231, American History to 1865, 3 hours
HIST 232, American History since 1865, 3 hours
PSC 231 American Government and Politics, 3 hours
SOC 231 Principles of Sociology, 3 hours
ECON 130 Survey of Economics, 3 hours
Advanced electives (18 hours) in two social sciences selected so that 12 hours are taken in one discipline and 6 hours in another

The professional education sequence (28 hours) for secondary and special subject teaching and general electives (2 hours) are required to complete the program.

DEPARTMENT OF SOCIAL WORK AND SOCIOLOGY

Wilburn Hayden, Head

A Hickey, J Hickey, R Ledford, J Prewitt, H Price, H Ramsey, B Smith, J Syphers

The Department of Social Work is accredited by the Council on Social Work Education. The department's primary objectives are the teaching and graduation of bachelor's degree social workers who are competent to enter professional social work practice as generalists No academic credit is given for prior life or work experience for the field placement requirements Transfer credits are generally given only for work done at another accredited social work program

Students who meet university retention requirements are eligible for admission to the social work program Retention in the program is based upon criteria stated in the Code of Ethics of the National Association of Social Workers The full statement of approved retention policies and procedures is available from the department head

Major in Social Work, B.S. Degree

General education, 41 hours

Program requirements, 4 hours BIOL 134 or equivalent

The major requires 58 hours as follows
151 Introduction to Social Work, 3 hours
251 Social Welfare Policies, Programs, and Services, 3 hours
253 Foundations of Social Work Practice, 4 hours
327 Social Work with Families, 3 hours
362, 364 Social Work Practice I, II, 8 hours
373 Social Welfare Policy Issues and Analysis, 3 hours
402 Person, Environment, Culture, 3 hours
466 Social Work Research and Evaluation, 4 hours
486, 487, 488 Field Experience, 12 hours
496 Field Seminar, 3 hours
SOC 314 or ANTH/SOC 414 Social Inequality or Minority Groups, 3 hours
PSY 320 or CDFR 363 Child and Adolescent Development or Child Development, 3 hours
PSY 325 or CDFR 364 Development. Early Adulthood through Old Age or Survey of Human Development, 3 hours
PSC 231 or 302 or 303 or 304 American Government and Politics or Problems and Policies of American Government or State and Local Government or Public Administration, 3 hours

General electives (25 hours), including at least 3 hours at the junior-senior level, are required to complete the program

Major in Sociology, B.A. Degree

General education, 41 hours

Program requirements, 6 hours MFL 231-232 or 240

The major requires 33 hours as follows
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 general sociology emphasis selected from junior-senior sociology courses

To complete the program, a total of 48 hours is required, including at least 18 hours of general electives and a minor, second major, or other approved program At least 21 hours of the courses taken must be at the junior-senior level

Major in Sociology, B.S. Degree

All the requirements are the same as described above for the Bachelor of Arts degree, except that a foreign language is not required and electives are increased by 6 hours

Minor in Sociology

The minor requires 21 hours, including 231 and 18 hours of junior-senior electives

Minor in Social Change

See requirements under Arts and Sciences Interdisciplinary Programs

Minor in Race, Ethnic and Gender Relations

See requirements under Arts and Sciences Interdisciplinary Programs

DEPARTMENT OF SPEECH AND THEATRE ARTS

Lawrence Hill, Head

J Alexander, S Ayers, R Beam, S Dyer, P Gold, D Loeffler, G Puis, A Wiggins, K Wright

Major in Speech and Theatre Arts, B.A. Degree

General education, 41 hours

Program requirements, 6 hours MFL 231-232 or 240

The major requires 39 hours as follows
250 Introduction to Speech Communication, 3 hours
Concentration (36 hours) selected from
Theatre 132, 140, 232, 240, 300, 301, 350, 400, 401, 330 or 335 or 338, and 5 hours in junior-senior electives
Speech 311, 312, 313 or 314, 315 or 410, 320, 321 or 420, 411, 412 or 413 or 495, RTV 250; and 9 hours in junior-senior electives

To complete the program, a total of 42 hours is required, including a minor, second major, or other approved program and at least 18 hours of general electives At least 18 or 28 of the hours taken must be at the junior-senior level

Major in Theatre, B.F.A. Degree

General education, 41 hours

The major requires an entrance audition or interview and 64 hours as follows
130 Makeup, 1 hour
132 Stagecraft, 4 hours
140 Acting I, 3 hours
232 Concept Creation, 3 hours
245 Acting for the Camera I, 3 hours
250 Introduction to Speech Communication, 3 hours
300, 301 Dramatic Literature and Criticism I, II, 6 hours
350, 351 Directing I, II, 6 hours
400, 401 History of the Theatre I, II, 6 hours
486 Theatre Production, 9 hours (one summer of approved theatre experience)
499 BFA Thesis, 2 hours

Electives (6 hours), selected from 330, 335, 338
Concentration (12 hours) selected from

Acting and Directing 240, 340, 345, 441, 450, 451, RTV 445
Design 330 or 335 or 338, 430, 435, 438, 470

General electives (23 hours), including at least 4 or 7 hours at the junior-senior level, are required to complete the program

Major in Radio and Television, B.A. Degree

General education, 41 hours

Program requirements, 6 hours MFL 231-232 or 240

The major, which is designed for students planning to become managers in the telecommunications field, requires the following 39 hours
STA 250 Introduction to Speech Communication, 3 hours
STA 315 Organizational and Industrial Communication, 3 hours
RTV/JOUR 140 Introduction to Mass Communications, 3 hours
RTV/JOUR 301 Writing for Mass Communications, 3 hours
RTV 250 Fundamentals of Broadcasting, 3 hours
RTV 251 Broadcast Writing, 3 hours
RTV 354 Radio Production I, 3 hours
RTV 355 Television Production I, 3 hours
RTV 457 Radio and Television Programming, 3 hours
RTV 458 Broadcast Sales and Promotion, 3 hours
RTV 459 Broadcast News, 3 hours
RTV 460 Broadcast/Speech Ethics and Responsibilities, 3 hours
Elective (3 hours) selected from STA 311, 312, 313, 314, 483, 495

To meet degree requirements, an additional 42 hours are required, including 18 hours of general electives and a minor, second major, or other approved program The courses taken must include at least 24 hours at the junior-senior level. Students may minor in speech or theatre, but courses taken in these areas in the major may not be counted toward the minor

Major in Radio and Television, B.S. Degree

General education, 41 hours

The major, which is designed for students planning a production career in the telecommunications field, requires the following 39 hours
STA 250 Introduction to Speech Communication, 3 hours
RTV/JOUR 140 Introduction to Mass Communications, 3 hours
RTV 250 Fundamentals of Broadcasting, 3 hours
RTV 251 Broadcast Writing, 3 hours
RTV 253 Comparative Studies in Film and Television, 3 hours
RTV 354 Radio Production I, 3 hours
RTV 355 Television Production I, 3 hours
RTV 454 Radio Production II, 3 hours
RTV 455 Television Production II, 3 hours
RTV 456 Broadcast Operations, 3 hours
RTV 460 Broadcast/Speech Ethics and Responsibilities, 3 hours
Electives (6 hours), including at least 5 hours at the junior-senior level, selected from STA 140, 132, 245, 311, 312, 320, 495, RTV/JOUR 301, RTV 353, 445, 483

To complete the program, a total of 48 hours is required, including at least 12 hours of general electives and a minor, second major, or other approved program The courses taken must include at least 28 hours at the junior-senior level Students may minor in speech or theatre, but courses taken in these areas in the major may not be counted toward the minor

Major in Speech and Theatre Arts, B.S.Ed. Degree

General education, 41 hours

The major requires 47-48 hours, including an 18-hour core and 29-30 hours in either speech or theatre arts to complete an area of teaching certification (earning certification in both areas requires a fifth year of study)

140 Acting I, 3 hours
232 Concept Creation, 3 hours
250 Introduction to Speech Communication, 3 hours
311 Voice and Articulation, 3 hours
320 Oral Interpretation of Literature I, 3 hours
RTV 340 Multi-Media Techniques, 3 hours

A certification area selected from
Theatre Arts (grades K-12) 130, 132, 240, 300, 301, 350, 351, 400, 401, 440
Speech (grades 7-12) 131, 312, 313, 314, 316, 410, 411, 412, 413, 420

The professional education sequence (28 hours) for secondary and special subject teaching and general electives (11-12 hours) are required to complete the program

Minor in Speech

The minor requires 21 hours, including 250, 311, 312 or 313, 320, and 9 hours of speech electives

Minor in Theatre

The minor requires 22 hours, including 132, 140, 232, 350, and 9 hours of theatre electives

Minor in Radio and Television

The minor requires 24 hours, including RTV/JOUR 140, RTV 250, 251, 354, 355, and 9 hours of departmental electives approved by the department head

Minor in Communications

The minor requires 24 hours, including MKT 301, 302, ACCT 161 or ECON 130 or MGT 300, CIS 251, JOUR/RTV 140, 301, PSC 302 or 303, STA 315 or 410 Students whose majors require any of these courses will complete the minor by selecting electives from STA 314, 315, 410, 411, and junior-senior journalism and radio/television courses approved by the adviser

SCHOOL OF BUSINESS

John F McCreary, Dean

The ultimate goal of the School of Business at Western Carolina University is the development of responsible people, and the primary objective is to provide a forum for examining the principles, needs, and issues which encompass the world of business Programs are offered that are designed to develop prospective managers, specialists, service-industry professionals, and entrepreneurs

Western Carolina University's School of Business is among only two hundred institutions in the United States whose excellence in graduate and undergraduate education is recognized through full accreditation by the American Assembly of Collegiate Schools of Business Its quality educational programs are based on

1) recruiting motivated students,

2) providing a faculty dedicated to high standards in teaching, service, and research, and

3) maintaining a curriculum enriched by depth, breadth, and flexibility to meet the changing needs of business

While enjoying the opportunity for interaction with the faculty, students use advanced computer technology to increase decision-making skills Students gain a broad liberal arts foundation and expertise in the functional areas of business Building upon the skills of analytical thinking and effective communication, students develop a sensitivity to human needs, teamwork, ethical and legal issues, and global concerns The school's regional, national, and international ties with business, government, and professional groups are utilized to enhance the placement of graduates

The School of Business intends to provide equal opportunities for all through careful blending of human and financial resources By accentuating growth in the capabilities of people, the school seeks to improve the quality of life for each individual in the region served

Programs of study include Bachelor of Science in Business Administration, Master of Business Administration, and Master of Project Management In cooperation with the School of Education and Psychology, the Bachelor of Science in Education is offered in basic and comprehensive business education All degree programs are provided in Cullowhee Graduate programs are also available in Asheville

Admission to BSBA 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 school 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 School 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

Only those students who have been admitted officially to a program in the School of Business may file an application for graduation for the Bachelor of Science in Business Administration degree

School-level program requirements for the B S.B A degree include MATH 130, ECON 231, 232. General electives taken in each B S B A program must be selected to assure that 40 percent of the total credits (51 hours to include MATH 130 and ECON 231 and 232) are taken outside the School of Business

* Students seeking a Bachelor of Science in Education degree with a major in business education must meet requirements of the School of Education and Psychology for admission to the professional sequence

The Common Body of Knowledge. Each program leading to the Bachelor of Science in Business Administration degree requires completion of the business administration core or common body of knowledge (36 hours) and 21 additional hours in a major field ACCT 251-252 and ECON 231-232 provide an important foundation to courses at the junior-senior level in the School of Business Junior standing (60 hours) is prerequisite for enrollment in all courses numbered 300 and above in the School of Business The required courses in the core are

ACCT 251, 252 Accounting Principles I, II, 6 hours
ECON 235 Statistics, 3 hours
FIN 305 Financial Management, 3 hours
CIS 251 Management Information Systems, 3 hours
LAW 230 Legal Environment of Business, 3 hours
MGT 300 Introduction to Management, 3 hours
MGT 305 Quantitative Business Analysis, 3 hours
MGT 306 Behavioral Science in Organizations, 3 hours
BA 404 Strategic Management, 3 hours
MKT 301 Principles of Marketing, 3 hours
OA 304 Business Communications, 3 hours

Application for graduation may be filed with the dean upon completion of 86 hours but must be filed no later than one month before the final semester of enrollment.

Second Major in Business Administration. The requirements for a second major in business administration are identical with the 36-hour business administration core described above Substitutions may be made only with the approval of the dean of the School of Business

Major in International Business, B.S.B.A. Degree

General Education, 41 hours

Program requirements, 15 hours MATH 130, ECON 231, 232, and one year of modern foreign language from FREN, GERM, or SPAN 231, 232, or 240

The major requires 36 hours in the core courses as specified by the School of Business and the following 24 hours
ECON 309 International Economics, 3 hours
MGT 301 International Management, 3 hours
Two courses chosen from the following
FIN 407 Multinational Business and Finance, 3 hours, LAW 320 Multinational Corporate Law, 3 hours, MKT 407 International Marketing, 3 hours, BA 304 Communication in Multicultural Environments, 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 250 Economic Geography, 3 hours
GEOG 440 Topics in Regional Geography Europe, 3 hours
GEOG 444 Political Geography, 3 hours
*MFL 321 or 322, French, German or Spanish Civilization, 3 hours
HIST 317 History of 20th Century International Relations, 3 hours
HIST 416 Europe, 1914-1955, 3 hours
HIST 441 Western Imperialism, 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
SSC414 Cross-Cultural Communication, 3 hours
SOC 434 Regional and Societal Development, 3 hours

General electives (12) including at least 9 hours at the junior-senior level outside the School of Business are required to complete this program

*The "region-specific" focus of these courses is deemed acceptable because of the strong cultural/historical ties between the European and American socio-economic systems and because of the tremendous importance of the evolving European Community to America's business/trade mission

DEPARTMENT OF ACCOUNTING AND INFORMATION SYSTEMS

C Claude Teagarden, Head

J Beegle, J C Carland, J W Carland, D Coffee, R Crepeau, J Dye, J Gould, L Heinrichs, W Perry, G Williams, D Winiarski

Major in Accounting, B.S.B.A Degree

General education, 41 hours

Program requirements, 9 hours MATH 130, ECON 231, 232

The major requires 36 hours in core courses as specified by the School of Business and the following 21 hours
275, 352, 353 Intermediate Accounting I, II, III, 9 hours
355 Income Tax I, 3 hours
356 Cost Accounting I, 3 hours
453 Advanced Accounting I, 3 hours
454 Auditing I, 3 hours

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

Major in Computer Information Systems, B.S.B.A. Degree

General education, 41 hours

Program requirements, 9 hours MATH 130, ECON 231, 232

The major requires 36 hours in core courses as specified by the School of Business and the following 21 hours
256 Business Computer Programming I, 3 hours
258 Commercial Programming, 3 hours
352 Computer Organization and Programming, 3 hours
355 Advanced Programming, 3 hours
452 Computer Information Systems Analysis, 3 hours
453 Data Base Systems, 3 hours
Computer Information Systems elective, 3 hours

General electives (21 hours), including at least 15 hours at the junior-senior level, are required to complete the program

DEPARTMENT OF ADMINISTRATIVE SERVICES

Retha Kilpatrick, Head

W Haemmel, D Herron, R Higgs, J Hunter, J McCreary, D Newhart, M Nixon, R Noel, C Teagarden

Major in Business Education, B.S.Ed. Degree

General education, 41 hours

Program requirements, 3 hours MATH 130

The major in business education, which includes a disciplinary focus area in economics requires 57 hours as follows
ACCT 251, 252 Accounting Principles I, II, 6 hours
ECON 231, 232 Introductory Micro and Macroeconomics, 6 hours
ECON 235 Statistics, 3 hours
FIN 305 Financial Management, 3 hours
LAW 230 Legal Environment of Business, 3 hours
MGT 300 Introduction to Management, 3 hours
MGT 305 Quantitative Business Analysis, 3 hours
MGT 306 Behavioral Science in Organizations, 3 hours
BA 404 Strategic Management, 3 hours
MKT 301 Principles of Marketing, 3 hours
OA 300 Word Processing II, 3 hours
OA 402 Administrative Management and Policy, 3 hours
OA 304 Business Communications, 3 hours
OA 340 Information Processing Systems, 3 hours
and three upper- level electives in economics, 9 hours

The professional education sequence (27 hours) for secondary and special subject teaching is required to complete the program

Major in Business Administration and Law, B.S.B.A. Degree

General education, 41 hours

Program requirements, 9 hours MATH 130, ECON 231, 232

The major requires 36 hours in core courses as specified by the School of Business and the following 21 hours
302 Contemporary Legal Problems, 3 hours
331 Business Transactions, 3 hours

Electives (15 hours) selected from 303, 315, 393, 403, 405, 410, 415, 420, 440, 483

General electives (21 hours), including at least 9 hours at the junior-senior level, are required to complete the program

Major in Office Administration, B.S.B.A. Degree

General education, 41 hours

Program requirements, 9 hours MATH 130, ECON 231, 232

The major requires 36 hours in core courses as specified by the School of Business and the following 21 hours
300 Word Processing II, 3 hours
393 Topics in Office Administration or approved elective, 3 hours
340 Information Processing Systems, 3 hours
401 Office Systems and Simulations, 3 hours
402 Administrative Management and Policy, 3 hours
403 Business Research and Reports, 3 hours
483 Internship or approved elective, 3 hours

General electives (21 hours), including at least 9 hours at the junior-senior level, are required to complete the program

DEPARTMENT OF ECONOMICS AND FINANCE

William L Boyd, Head

G Allen, P Hays, S Jarrell, R Jones, R McMahan, H Pourian, M Schreiber, A Spencer, A Stack, D Tye, J Wade, H White

Major in Economics, B.S.B.A. Degree

General education, 41 hours

Program requirements, 3 hours MATH 130, ECON 231, 232

The major requires 36 hours in core courses as specified by the School of Business, and a 21-hour concentration selected from one of the following
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; ECON 410

General electives (21 hours), including at least 9 hours at the junior-senior level, are required to complete the program

Major in Finance, B.S.B.A. Degree

General education, 41 hours

Program requirements, 9 hours MATH 130, ECON 231, 232

The major requires 36 hours in core courses as specified by the School of Business and a 21-hour concentration selected from one of the following
Corporate Finance ECON 303, FIN 405, 495, ACCT 301, 9 hours electives selected from FIN 406, 407, 409, 325, 335, ACCT 275, 352, 356, ECON 302
Financial Planning ECON 303, FIN 300, 335, 400, 406, 496, 3 hours electives selected from LAW 403, FIN 302, ACCT 355, 356, FIN 325

General electives (21 hours), including at least 9-12 hours at the junior-senior level, are required to complete the program

Second Major in Economics

The second major, which is open only to nonbusiness majors, requires 33 hours as follows
231 Introductory Microeconomics, 3 hours
232 Introductory Macroeconomics, 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

DEPARTMENT OF MANAGEMENT AND MARKETING

J Adams, S Bonifield, B Dunlap, W Kane, T Kinnear, M Leonard, S Owens, H Smith, K Stephens, R Waddell, F Webster, J Wysocki

Major in Management, B.S.B.A. Degree

General education, 41 hours

Program requirements, 9 hours MATH 130, ECON 231, 232

The major requires 36 hours in core courses as specified by the School of Business and the following 21 hours
304 Personnel Management, 3 hours
400 Organization Theory, 3 hours
402 Production and Operations Management, 3 hours
MKT 405 Marketing Management, 3 hours
Electives (9 hours) selected from 302, 401, 405, 407, and MKT 408

General electives (21 hours), including at least 9 hours at the junior-senior level, are required to complete the program

Major in Marketing, B.S.B.A. Degree

General education, 41 hours

Program requirements, 9 hours MATH 130, ECON 231, 232

The major requires 36 hours in core courses as specified by the School of Business and the following 21 hours
302 Marketing Communications, 3 hours
303 Marketing Research, 3 hours
304 Consumer Behavior, 3 hours
405 Marketing Management, 3 hours
Marketing electives (9 hours) selected from 305, 306, 401, 403, 404, 406, 407, 408, and 409

General electives (21 hours), including at least 9 hours at the junior-senior level, are required to complete the program

SCHOOL OF EDUCATION AND PSYCHOLOGY

Gurney Chambers, Dean

Marilyn E Feldmann, Associate Dean

The School of Education and Psychology 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 school The Bachelor of Science degree is awarded in psychology, sport management, therapeutic recreation, 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

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 The standards of NCATE state that prospective teachers should demonstrate those personal characteristics which will contribute to, rather than detract from, their performance in the classroom The standards further state that the institution has the right and the obligation to consider pertinent personal factors as well as academic achievement as a basis for permitting a student to continue in a teacher education program

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

Admission to the Teacher Education Program. Acceptance and registration in a department do not guarantee admission to the teacher education program in that department A student is not officially in a teacher education program until approved by the head of the department of the student's major and by the Teacher Education Council The applicant's fitness for teaching in the chosen area (a student may be considered suitable in one area and unsuitable in another) is determined on the basis of demonstrated academic ability and other personal characteristics conducive to effective teaching Students with speech defects that will interfere with successful teaching may be required to take corrective therapy

Students are eligible for admission to the teacher education program if they have (1) completed at least 35 hours of general education requirements, (2) earned a C or higher grade in ENGL 101, 102, and also in ENGL 300 if required to take this course, (3) completed at least 45 hours at the time of admission, (4) earned a GPA of 2 50 on hours attempted, (5) achieved

the minimum score on the NTE Core Batteries I and II, and (6) completed a personal interview and received a satisfactory evaluation from the teacher education faculty Students must be, or have been, eligible for admission prior to earning 90 hours of credit Applicants already holding non-teacher education degrees must meet these requirements and must have had a GPA of 2 50 at the time of graduation

Students should apply for admission to the teacher education program no later than the semester in which they are enrolled in EDCI 231, a course that is prerequisite to all other courses in the professional education sequence Students must complete all requirements for admission to the teacher education program by the end of the semester in which they are approved for admission by the Teacher Education Council

Admission to the program is competitive, and the requirements stated above are the minima to be met in order to apply and be considered

Students must have maintained satisfactory conduct and citizenship records which are in keeping with the ethics of the teaching profession A student who is readmitted to the university after dismissal, suspension, or expulsion will not be readmitted to the teacher education program the first term after returning

Application forms are available in the dean's office The student should process the application as indicated on the form and file it in the dean's office two weeks before early registration for the term in which admission is sought or by the date designated each term by the dean

Continuation in the Teacher Education Program. The requirements for continuing in the program are (1) a GPA of at least 2 50 on hours attempted, (2) behavior which adheres to the code of ethics of the profession, and (3) satisfactory participation in the required professional laboratory program that is prerequisite to student teaching A summary of activities and evaluations for each assignment will become a part of the student's professional record

If a student fails any course in the professional education sequence and/or any part of the National Teacher Examintion twice, the student is withdrawn from teacher education.

Course Requirements in the Program. The teacher education program requires a professional education sequence of 9 to 28 hours in courses pertinent to teaching in specific areas and at various levels All courses in the sequence except student teaching and the student teaching seminar must be completed before admission to student teaching The courses in the sequence are determined by the student's major

Communication Disorders, 9 hours EDCI 231, PSY 320, 321
Elementary and Middle Grades, 23 hours EDCI 231, PSY 320, 321, SPED 335, EDEL 490, 495
Special Education, 21 hours EDCI 231, PSY 320, 321, SPED 490, 495
Secondary and Special Subject Teaching, 27-28 hours EDCI 231, SPED 335, PSY 320, 321, EDRD 323; *Methods, 490, 495

*Students majoring in biology, science, social sciences, speech and theatre arts 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

Selective 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 requisites for application are (1) enrollment in the professional education sequence for at

least two semesters, (2) completion of at least 90 hours in a teacher education curriculum, (3) one term in residence, (4) a GPA of 2 50 or above, both at the beginning of the term immediately preceding the student teaching term and at the time of enrollment in student teaching, (5) completion of at least two-thirds of the major, (6) completion of all records designated by the director of field experiences, (7) removal of conditions placed on the student at the time of admission to the teacher education program, and (8) completion of the applicable professional education sequence except for student teaching and the student teaching seminar

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 Certification

To be eligible for teacher certification, a student must (1) complete one of the approved teacher education programs, (2) make a minimum grade of C in student teaching, (3) receive a public school recommendation indicating that a student teaching performance has been successful, (4) complete teacher placement records, (5) complete applications for certification and file them with the dean of the School of Education and Psychology, (6) receive a recommendation from the head of the department of the teaching major, (7) request NTE scores to be sent to WCU, (8) receive a professional recommendation for Class A certification by the dean of the School of Education and Psychology, (9) pay the fee required by the State Board of Education for the issuance of teacher certificates

DEPARTMENT OF ADMINISTRATION, CURRICULUM, AND INSTRUCTION

Donald M Chalker, Head

C Ambrose, L Arney, J Carter, G Chambers, N Clark, W Clauss, L Cloud, G Debnam, M Feldmann, B Fox, J Franson, D Fredricks, R Haynes, D Henshaw, C Hurley, M Herzog, J McFadden, B McPherson, N Miller, S Olson, F Parker, R Puttman, A Rud, C Shea, J Walters, B Ward

Credit for Experiential Learning. The department awards undergraduate credit for experiential learning in accordance with university guidelines A student must present complete documentation of experiences to the department head A committee, one member of which will be from outside the department, considers each case individually to determine if the competencies are adequate for credit to be awarded and how much credit, if any, is to be granted Methods that may be used to determine proficiency include observation, oral and written examinations, presentation of completed work, and other documentation or evidence of quantity and quality of experience A personal interview is highly recommended If approved by the department head and the dean, the committee's recommendations must be filed with the registrar

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

The subject areas in which majors are available are

Secondary Teaching (grades 9-12)		Special Subject Teaching (grades K-12)
Biology	Industrial Arts	Art
Business	Mathematics	French
English	Science (General Sciences)	German
Home Economics	Social Sciences	Music
		Spanish
		Speech
		Theatre Arts

Students seeking or holding a degree other than a Bachelor of Science in Education may be admitted to the teacher education program and earn teacher certification. Consult your adviser or department head

Certification in Teaching English as a Second Language

This certification program is open only to persons who either hold or will qualify for A-level certification in another teaching area upon completion of the program. The program requires 18 hours, including EDCI 405, SSC 414, ENGL 415, 416, EDSE 412, 486. Students who meet the competencies specified by the School of Education and Psychology and the Department of English will be eligible for recommendation for State K-12 certification at the A level.

DEPARTMENT OF ELEMENTARY EDUCATION AND READING

George M. Schuncke, Head

A. Buchanan, B. Capps, J. Clauss, R. Craddock, C. DelForge, S. Dunbar, J. Franson, J. Gentry, L. Laminack, E. Lofquist, R. McCreary, C. Meigs, J. Perlmutter, J. Pilch, T. Warren

Major in Elementary Education, B.S.Ed. Degree

General Education, 41 hours

The major requires 39 hours as follows:
EDEL 303 Literature for Children and Youth, 3 hours
EDEL 312 Elementary School Curriculum and Methods, 3 hours
EDEL 315 Elementary/Middle Grades Communication Skills, 3 hours
EDEL 316 Elementary/Middle Grades Science, 3 hours
EDEL 317 Elementary/Middle Grades Social Studies, 3 hours
EDEL 318 Elementary/Middle Grades Mathematics, 3 hours
EDEL 390 Practicum in Elementary Education I, 1 hour
EDEL 476 Discipline and Classroom Control, 2 hours
EDRD 334 Reading Instruction in the Elementary School, 3 hours
EDRD 474 Practicum in Teaching Reading, 3 hours
PE 360 Skills in Promoting Healthful Living, 3 hours
HIST 341 North Carolina History, 3 hours
MATH 230 Theory of Arithmetic I, 3 hours
MATH 231 Theory of Arithmetic II, 3 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,
3. General electives, 1-4 hours

Major in Middle Grades Education, B.S.Ed. Degree

General education, 41 hours

The major requires 15 hours in core courses as follows:
EDEL 310 Middle Grades Child and Curriculum, 3 hours
EDEL 315 Elementary/Middle Grades Communication Skills, 3 hours
EDEL 390 Practicum I, 1 hour
EDEL 476 Discipline and Classroom Control, 2 hours
EDRD 443 Middle Grades Reading, 4 hours
EDRD 474 Practicum in Teaching Reading, 3 hours

In order to complete the program the following are required:
1. Completion of an approved disciplinary focus area, 24 hours,
2. A concentration of at least 21 hours, including the appropriate 3-hour methods course in mathematics, science, social studies, or language arts. Work done in the disciplinary focus area may be counted toward the concentration.
3. Completion of the professional education sequence for middle grades education, 23 hours
4. General electives, 0-25 hours, including appropriate credits at the junior-senior level

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 Education and Reading

DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

Robert Ray, Head

J Benson, S Brown, J Bryant, J Cone, M Creason, W Davis, C Friesner, L Harmon, S Hodgin, A Johnston, E Kesgen, J Leggett, B Peele, S Persons, A Pilch, K Robinson, C Schrader, 0 Spilker, B Suhre, J Wike

Major in Physical Education, B.S.Ed. Degree

General education, 41 hours

The major requires 36 hours as follows
HEAL 230 High Level Wellness, 2 hours
HEAL 250 First Aid and Safety Education, 2 hours
PE 251 Dance Dynamics, 3 hours
PE 261, 262, 263 Skills Acquisition I, II, III, 3 hours
PE 310 Management of Physical Education and Sport Activities, 2 hours
PE 311 Measurement and Evaluation, 2 hours
PE 312 Foundations of Health and Physical Education, 3 hours
PE 345 Elementary Physical Education, 3 hours
PE 335 Anatomy and Physiology, 4 hours
PE 353 Methods and Teaching Analysis of Team and Individual Sports, 3 hours
PE 423 Kinesiology, 2 hours
PE 424 Methods in Adaptive Physical Education, 2 hours
PE 405 Outdoor Leisure Pursuits, 1 hour
PE 425 Physiology of Exercise, 2 hours
PE 435 Motor Learning, 2 hours
PE102 or passing score on Aquatic Proficiency Test, 0-1 hour

In order to complete the program, the following are required
Disciplinary Focus Area, 24 hours,

All majors are required to pass the departmental aquatic proficiency test or PE102 All majors are encouraged to be active in intramural programs Juniors and seniors must be in good standing as members of the Physical Education Majors Club All majors must be active in a varsity sport or serve as an intramural assistant for at least two full years (one year for transfer students with previous varsity experience), or serve as an assistant in the Adult Fitness or Cardiac Rehabilitation program

The professional education sequence (27 hours) for secondary and special subject teaching

Major in Health Education, B.S.Ed. Degree

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

Major in Therapeutic Recreation, B.S. Degree

General education, 41 hours

Program requirements, 10 hours COUN 430, SOC 354 or 355, BIOL 134

The major requires 62 hours as follows

240 Foundations of Therapeutic Recreation, 3 hours
253 Activity Skills for Special Populations, 2 hours
352 Therapeutic Recreation Processes and Techniques, 3 hours
385 Pre-Internship Seminar, 1 hour
417 Administration of Therapeutic Recreation Services, 3 hours
484 Field Experience in Therapeutic Recreation, 6 hours
485 Field Experience in Therapeutic Recreation, 6 hours
PRM 250 Foundations of Parks and Recreation Management, 3 hours
PRM 270 Theories of Recreation Program Planning and Leadership, 3 hours
PRM 321 Outdoor Education, 3 hours
PRM 461 Management of Parks and Recreation, 3 hours
PE 335 Anatomy and Physiology, 4 hours
PE 424 Methods in Adaptive Physical Education, 2 hours
HSCC 130 Introduction to Health Professions, 3 hours
HSCC 220 Medical Terminology, 3 hours
HEAL 250 First Aid,2 hours
HEAL 305 Current Health Problems, 3 hours
PSY 470 Abnormal Psychology, 3 hours
SPED 405 Introduction to Mental Retardation or SPED 432 The Physically Handicapped Child, 3 hours
Electives (3 hours) selected from TR 360, 470, 481

General electives (15 hours) are required to complete the program

Major in Parks and Recreation Management, B.S. Degree

General education, 41 hours

Program requirements, 10 hours STA 250, MATH 170, 171, CIS 251

The major requires 63 hours as follows
ACCT 251 Accounting Principles I, 3 hours
MGT 300 Introduction to Management, 3 hours
MGT 401 Small Business Management, 3 hours
MKT 301 Principles of Marketing, 3 hours
ENGL 401 Writing for the Professions, 3 hours
PRM 150 Career Opportunities in Parks and Recreation Management, 1 hour
PRM 250 Foundations of Parks and Recreation Management, 3 hours
PRM 255 Special Events Planning and Promotion, 3 hours
PRM 350 Interpretation of Natural and Cultural Resources, 3 hours
PRM 370 Internship Orientation, 1 hour
PRM 383 Internship, 3 hours
PRM 440 Travel and Tourism, 3 hours
PRM 450 Elements of Parks and Recreation Planning, 3 hours
PRM 460 or 461 or 430 Management of Natural and Cultural Resources or Community Recreation Management or Commercial Recreation, 3 hours
PRM 480 Independent Study, 3 hours
PRM 483 Internship, 3 hours
PRM 495 Senior Seminar, 1 hour

Electives (18 hours) in an approved area of specialization

General electives (14 hours) are required to complete the program The general electives and electives in the major in combination must include at least 16 hours at the junior-senior level Students are urged to plan programs that will lead to competency in a second area of specialization.

Major in Sport Management, B.S. Degree

General education, 41 hours

Program requirements, 10 hours BIOL 134, PE 213, STA 250

The major requires 64 hours as follows·

Core courses, 45 hours
SM 260 Introduction to Sport Management, 2 hours
SM 415 Legal Issues for the Sport Practitioner, 2 hours
SM 484, 485 Internship, 12 hours
SM 495 Sport Management Seminar, 1 hour
PE 312 Foundations of Health and Physical Education, 3 hours
PE 313 Psychological Aspects of Sports, 3 hours
PE 335 Anatomy and Physiology, 4 hours
CIS 251 Management Information Systems, 3 hours
ACCT 161 Accounting for Non-Business Major, 3 hours
MGT 300 Introduction to Management, 3 hours
MGT 304 Personnel Management, 3 hours
MGT 306 Behavioral Science in Organizations, 3 hours
MKT 301 Principles of Marketing, 3 hours

Concentration (19 hours) selected from

Exercise Science and Fitness Management CHEM 132, 133, PE 423, 425, ND 330, COUN 430, and one course selected from SM 380, 383, 389

Sporting Goods Management and Sales ACCT 251, MGT 400, MKT 302, 304, 306, LAW 230, one course selected from SM 380, 383, 389

Sports Media RTV/JOUR 140, 301, RTV 251 or JOUR 302, RTV 250 and 354 or 355, MKT 302, and one course selected from SM 380, 383, 389

Recreational Sport Management PRM 270, 330, MGT 400, TR 253, SM 315, 435, and one course selected from PE 261, 262, 263, and one course selected from SM 380, 383, 389

Athletic Administration PE 310, MGT 400, MKT 302, LAW 315, SM 435, one course selected from PE 261, 262, 263, one course selected from PE 410, 411, 418, and one course selected from SM 380, 383, 389

Professional Sport Management MGT 302, MKT 304, 306, 405, LAW 315, SM 435, and one course selected from SM 380, 383, 389

Event and Facility Management and Marketing MGT 302, MKT 304, 306, PE 330, PRM 450, SM 435, and one course selected from SM 380, 383, 389

Athletic Training HSCC 240, 370, ND 330, PE 413, 423, 425, and four hours selected from SM 380, 383, 389

General electives (13 hours), including appropriate credits at the junior-senior level, are required to complete the program

Minor in Coaching

The minor requires 19-20 hours in addition to courses taken as general education HEAL 250, PE 413, 422, 423, two courses selected from PE 410, 411, 418, one course selected from PE 310, 312, and one course selected from PE 261, 262, 263 The minor is not open to physical education majors

Minor in Physical Education

The minor requires 19-20 hours, including HEAL 250, PE 310, 312, 325, 413, one course selected from PE 253, 350, 355, one course selected from PE 410, 411, 418, and 2 hours selected from PE 261, 262, 263

Minor in Therapeutic Recreation

The minor requires 21 hours including TR 240, 352, 417, PRM 250, 321, PE 320, and 3 hours of guided electives

Minor in Health Education

The minor requires 19 hours, including HEAL 230, 305, 311, 312, 410, ND 330, PE 320

DEPARTMENT OF HUMAN SERVICES

A Michael Dougherty, Head

E Bacon, L Bloom, D Bowman, C Carpenter, M Deck, L Grantham, J Kirk, M Malone, J Morrow, R Rigdon, Y Saddler, D Shapiro, M Smith, G Stillion

Major in Special Education, General, B.S.Ed. Degree

General education, 41 hours

Program requirements, 12 hours STA 250, EDRD 473, HEAL 230 or approved substitute, two PE courses (if not taken in general education), PSY 474

The major requires 38 hours as follows
240 The Exceptional Child, 3 hours
310 Evaluation of the Exceptional Child, 3 hours
340 Math and Science for Mildly Handicapped K-12 Students, 3 hours
341 Language Arts for Mildly Handicapped K-12 Students, 3 hours
401 Introduction to Learning Disabilities, 3 hours
405 Introduction to Mental Retardation, 3 hours
416 Professional Communication Skills for Educators, 3 hours
417 Behavioral Management of the Exceptional Child, 3 hours
442 Independent Living Skills for Mildly Handicapped K-12 Students, 2 hours
450 Prescriptive Teaching for Exceptional Youth, 3 hours
EDCD 301 Speech and Language Development, 3 hours

Concentration (6 hours) selected from
Learning Disabilities SPED 487 and related electives
Mental Retardation SPED 486 and related electives

The professional education sequence (22 hours) for special education and general electives (15 hours) are required to complete the program

Major in Learning Disabilities, B.S.Ed. Degree

General education, 41 hours

Program requirements, 9 hours STA 250, HEAL 230 or approved substitute, two PE courses (if not taken in general education), EDRD 473

The major requires 38 hours as follows
SPED 240 The Exceptional Child, 3 hours
SPED 310 Evaluation of the Exceptional Child, 3 hours
SPED 340 Math and Science for Mildly Handicapped K-12 Students, 3 hours
SPED 341 Language Arts for Mildly Handicapped K-12 Students, 3 hours
SPED 401 Introduction to Learning Disabilities, 3 hours
SPED 416 Professional Communication Skills for Educators, 3 hours
SPED 417 Behavioral Management for the Exceptional Child, 3 hours
SPED 442 Independent Living Skills for Mildly Handicapped K-12 Students, 2 hours
SPED 450 Prescriptive Teaching for Exceptional Youth, 3 hours
SPED 487 Practicum in Learning Disabilities, 3 hours
EDCD 301 Speech and Language Development, 3 hours
Related electives, 6 hours

The professional education sequence (22 hours) for special education and general electives (18 hours), including appropriate credits at the junior-senior level, are required to complete the program

Major in Mental Retardation, B.S.Ed. Degree

General education, 41 hours

Program requirements, 9 hours STA 250, HEAL 230 or approved substitute, two PE courses (if not taken in general education), EDRD 473

The major requires 38 hours as follows
SPED 240 The Exceptional Child, 3 hours
SPED 310 Evaluation of the Exceptional Child, 3 hours
SPED 340 Math and Science for Mildly Handicapped K-12 Students, 3 hours
SPED 341 Language Arts for Mildly Handicapped K-12 Students, 3 hours
SPED 405 Introduction to Mental Retardation, 3 hours
SPED 416 Professional Communication Skills for Educators, 3 hours
SPED 417 Behavioral Management of the Exceptional Child, 3 hours
SPED 442 Independent Living Skills for Mildly Handicapped K-12 Students, 2 hours
SPED 450 Prescriptive Teaching for Exceptional Youth, 3 hours
SPED 486 Practicum in Mental Retardation, 3 hours
EDCD 301 Speech and Language Development, 3 hours
Related electives, 6 hours

The professional education sequence (22 hours) for special education and general electives (18 hours), including appropriate credits at the junior-senior level, 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 or the American Speech-Language-Hearing Association require successful completion of a master's degree

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 hour
EDCD 370, 371 Phonetics and Articulation Disorders, 6 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 476 Language Disorders in Children, 3 hours
EDCD 478 or 574 Fluency Disorders or Voice and Organic Disorders of Speech, 3 hours
EDCD 485 Clinical Practicum, 1 hour
EDCD 495 Seminar in School Practice, 3 hours

Disciplinary focus area, 24 hours

The professional education sequence requires EDCI 231, PSY 320, and PSY 321, 9 hours

General electives include 17 hours and provide for the selection of a supervised school-based clinical internship through enrollment in EDCD 490, 6 hours

Minor in Special Education

The minor requires 18 hours, including 6 hours selected from major core courses, 9 hours of special education electives, and 3 hours of related electives Students who desire to earn teacher certification in special education should consult the department head.

DEPARTMENT OF PSYCHOLOGY

Bruce B Henderson, Head

N Betchart, W Chovan, H Herzog, T Huskins, R Kowalski, D McCord, E McDowell, S Minor, M Randolph, J Stillion, J Wakeley, M Wheeler, H White

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
455 History and Systems, 3 hours
Psychology Electives
Developmental, 3 hours selected from 324, 325
Social, 3 hours selected from 310, 313, 412
Experimental, 3 hours selected from 343, 440, 444
Clinical, 3 hours selected from 363, 430, 441, 470, 474
Others, 15 hours excluding 101, 105, 320, 321

To complete the program, a total of 48 hours are 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

Cognitive Psychology 9-12 hours selected from 310, 343, 440, 444, 480, 9-12 hours selected from EDCD 301, 370, 450; ENGL 415, STA 316, STA 410, PHIL 340, PHIL 341, CS 443, CS 480 (the last 4 courses have prerequisites)

Applied/Developmental Psychology 21 hours selected from 312, 324, 325, 327, 333, 360, 363, 412, 426, 441, 460, 474, 482

Minor in Psychology

The minor requires 24 hours including 250, 251 (or equivalent) 252 (or equivalent), and 15 hours of approved psychology electives

Minor in Life Span Development

The minor requires 24 hours, including PSY 324, 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

SCHOOL OF NURSING AND HEALTH SCIENCES

Thomas F Connelly, Jr , Dean

The School of Nursing and Health Sciences is specifically concerned with the preparation of entry level practitioners, with learning as a lifelong process, and with the concept of the health professional as a scientist and humanist

Graduates of the school enter the work force as beginning professionals in the ever-changing and continually expanding field of health maintenance and the delivery of health care, and it is imperative that their learning and professional growth continue beyond baccalaureate education to keep pace with the increasingly complex modalities within the health systems The faculty of the School of Nursing and Health Sciences is dedicated to this concept of lifelong learning

While the education of the health professional must be firmly rooted in the sciences, effective practice requires more than a scientific understanding of disease entities, diagnostic and evaluative techniques, and appropriate preventive and corrective regimens Since health and illness affect human life in all its dimensions (physical, emotional, intellectual, spiritual, interpersonal, and societal), the excellence of practice of the health provider must incorporate the full spectrum of the human experience The faculty is committed to assisting students in developing this humanistic concern for the quality of life

Programs. The school offers undergraduate degrees in clinical laboratory sciences, emergency medical care, environmental health, health services management and supervision, medical record administration, and nursing Cooperative transfer agreements are maintained with a number of institutions that enable students to complete two years of study at those institutions and become eligible to apply for admission to complete a bachelor's degree at Western Carolina University

A Master of Health Science degree is offered in cooperation with the Graduate School

The emergency medical care curriculum combines preparation at the paramedic level with a foundation in health services management which readies the student for entry-level positions in emergency medical supervision, education and patient care Clinical experience is provided in a variety of settings including hospitals and mobile intensive care units Graduates are eligible to write national registry and state certifying examinations

Environmental health is an emerging discipline concerned with the relationship between environment and human health Professionals work with the control of environmental hazards and the maintenance of environmental factors contributing to optimum health, safety, comfort, and well-being The curriculum includes a broadly based background in the essential concepts of water and waste control, shelter environment, air quality control, and environmental health administration needed by students preparing for professional, entry-level positions in public health or industry Field-based clinical experiences in a variety of agencies are taken in the junior and senior years The program is fully accredited by the National Accreditation Council for Environmental Health Curricula

The program in health services management and supervision is intended for certified allied health professionals with associate degrees The program articulates with associate degree programs in allied health exclusive of those specialties for which separate bachelor's programs are offered by the school The curriculum is designed to prepare clinical managers or supervisors for effective application of human resource management principles in health care agencies

Medical record administration deals with the organization and management of health information systems, including planning and directing medical records systems that aid in patient care, medical research and evaluation, and quality assurance The program, which includes clinical practice and management affiliations in hospitals in North and South Carolina, and Tennessee, is accredited by the American Medical Association's Committee on Allied Health Education and Accreditation (CAHEA) in collaboration with the American

Medical Record Association Graduates of the program are eligible to apply to take the national registration examination to become registered record administrators

The clinical laboratory program meets the educational requirements of the Committee on Allied Health Education and Accreditation of the American Medical Association for Medical Technologists and the prerequisites for national certification by the Board of Registry of the American Society of Clinical Pathologists (ASCP) and the National Certification Agency for Medical Laboratory Personnel (NCAMLP) The clinical phase of the program is conducted at affiliated hospitals under faculty supervision.

The nursing program, accredited by the National League for Nursing and approved by the North Carolina Board of Nursing, enrolls (1) persons preparing to begin the practice of professional nursing and (2) registered nurses with hospital diplomas or associate degrees Both groups receive the Bachelor of Science in Nursing degree Those not previously licensed as RNs are qualified, upon graduation and with faculty approval, to sit on the National Council of State Board Licensure Examination for registered nurses Classes are conducted in Cullowhee and Asheville, and the clinical nursing courses are offered at regional health care facilities and agencies throughout western North Carolina

Western Carolina University cooperates with the University of North Carolina at Asheville through an interinstitutional agreement which allows students at the University of North Carolina at Asheville to complete their preprofessional courses at that institution and be eligible to apply for admission to the professional nursing program offered by Western Carolina University that leads to award of the Bachelor of Science in Nursing degree Cooperative transfer agreements between WCU and several central and western North Carolina community colleges facilitate the entry of registered nurse alumnae from those community colleges into the Department of Nursing's Capstone program for RNs seeking the BSN degree

Programs For Adult Learners The school has developed program opportunities for adults who hold associate degrees, who are certified or licensed in the fields of medical laboratory technology, nursing, and in emergency medical care as paramedics to pursue bachelor's degrees in their fields Information may be obtained by contacting the appropriate program director

Second Bachelor's Degrees. The unique structure of the School of Nursing and Health Sciences provides students opportunities to pursue, in accordance with university policy, second degrees in disciplines offered within the school or with others outside the school Typically, such a program requires five academic years and extensive planning Specific information may be obtained from the program directors

Special Expenses. Due to the nature of the clinical experiences required in each of the school'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 reference texts are examples of what might be expected. Each program has different requirements and students should discuss costs with the program head prior to applying for admission to the professional sequence

Admission to the Professional Sequence

Acceptance and registration in any professional course in the School of Nursing and Health Sciences do not guarantee admission to the junior-senior sequence in the major Students are not officially in the professional segment of a program as candidates for a degree until they have received written notification of their admission Applications for admission are normally available from November 1 through February 15 of each year for potential admission in the fall of the next year

Emergency Medical Care. Eligibility for admission requires the completion of a minimum of 60 semester hours including all general education and preprofessional course requirements with a 2 0 GPA Applicants must hold or be eligible for North Carolina EMT certification

Admission to the professional sequence is competitive and applications must be completed and received in the program office by February 15 Application does not assure acceptance Articulating and transfer students holding current paramedic certification should contact the program director about degree requirements and program admission Students admitted to the professional sequence must earn a grade of C 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 in environmental health upon completion of all general education, program, and preprofessional course requirements with a minimum cumulative GPA of 2 0 Applications must be received by February 15, and applicants will be notified of the admissions decision by March 15 Transfer students will be admitted with provisional status for one semester It is strongly recommended that interested students contact the program director as soon in the academic year as possible Applicants also are evaluated on their overall educational records, including achievement in science and non-science courses as well as communication skills Students admitted to the professional sequence will be required to maintain a GPA of 2 0 in each course in the major and in the emphasis area.

Health Services Management and Supervision For students who enroll in this program to earn a first bachelor's degree, admission normally requires completion of 50 hours in preprofessional courses, including all general education requirements with a 2 0 GPA or, for articulating students, in those credits accepted in transfer Students must be credentialed allied health professionals; one year of supervisory experience is preferred Students in nursing, medical technology, medical record administration, emergency medical care, and environmental health are not eligible for admission except as candidates for a second bachelor's degree A 2 0 GPA on each course in the major and in the discipline area is required of admitted students

Medical Record Administration. 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 or above in each professional course in the major to remain in the program

Clinical Laboratory Sciences (formerly Medical Technology). Students may apply for admission when they have completed, or are concurrently completing, all general education and program requirements, and CHEM 241, 242, 271, and BIOL 291, 292 A cumulative GPA of 2 0 is required Applications must be received by February 15 Applicants will be notified in writing of the admissions decision by March 15 Medical laboratory technicians with an associate degree or equivalent may apply for admission Transfer students will have one semester of probationary acceptance

Nursing. Admission to the upper-division nursing major is competitive, and priority is given to the best qualified students to fill the limited number of seats in each class Careful consideration is given to previous academic records, test scores, and adviser recommendations To be eligible to apply for the upper-division nursing major, all students (1) must have a cumulative GPA of 2 25 on all previous college work, and (2)must have completed or must be in the process of completing 60 semester hours of college work, including BIOL 291/292, HSCC 260, and all program requirements Applications from non-RNs must be received with all supporting materials not later than February 15 Notification of the admissions decision will be made during the week of March 15 Late applications will be considered on a space available basis Registered nurses are invited to apply at any time of the year so that transfer credit can be evaluated and advisement about meeting any remaining course requirements may begin without needless delay

Admission to the program is conditional upon maintenance of a minimum cumulative GPA of 2 25 and completion of all prerequisite courses with a grade of C or better Retention in the nursing major thereafter depends upon the student's maintaining a 2 25 GPA overall and a 2 25 in the major, taking and passing all nursing courses in sequence, and demonstrating the ability to perform in the clinical setting within the definitions of safe practice specified in the Department of Nursing Clinical Evaluation Tool

EMERGENCY MEDICAL CARE PROGRAM

Barbara Larson, Program Director
D Trigg, Medical Director

Major in Emergency Medical Care, B.S. Degree

General Education, 41 hours

Program requirements, 21 hours CHEM 132, 133, BIOL 291, 292, HSCC 240, 241

The major requires 59 hours as follows
EMC 340 Fundamentals of Advanced Life Support, 3 hours
EMC 350 Cardiology, 3 hours
EMC 360 Acute Respiratory and Fluid Disorders, 3 hours
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 483 Clinical Practicum II, 4 hours
EMC 484 Clinical Practicum III, 3 hours
EMC 485 MICU Practicum, 3 hours
HSMS 320 Human Resource Management in Health Care Agencies, 3 hours
HSMS 340 Perspectives in Health Care, 3 hours
HSMS 450 Financial Management in Health Care, 3 hours
HSMS 493 Special Problems in Health Care Management, 3 hours
HSCC 330 Legal and Legislative Aspects of Health Care, 3 hours
HSCC 370 Introduction to Pharmacology, 3 hours
PSY 460 Crisis Intervention, 1 hour
ACCT 161 Accounting for the Non-Business Major, 3 hours
MGT 300 Introduction to Management, 3 hours
MGT 306 Behavioral Science in Organizations, 3 hours

General electives (7 hours) are required to complete the program

ENVIRONMENTAL HEALTH PROGRAM

Joe E Beck, Program Director

G Smith

Major in Environmental Health, B.S. Degree

General education, 41 hours

Program requirements, 16 hours MATH 130, MATH 170 or PSY 251, and MATH 145, PHYS 105 (in addition to courses taken to meet general education requirements), and PSY 250 or approved substitute

The major requires 64 hours as follows
Preprofessional courses, 16 hours CHEM 133, 135, 136, BIOL 413, 414
230 Introduction to Environmental Health, 3 hours
310 Water Supply and Waste Water Treatment, 4 hours
320 Shelter Environment, 4 hours
330 Food and Milk Control, 4 hours
386 Field Practicum in Environmental Health, 3 hours

440 Air Quality Control, 4 hours
457 Industrial Hygiene, 3 hours
460 Environmental Health Problems, 1 hour
470 Epidemiology, 3 hours
475 Environmental Program Administration, 3 hours
483 Environmental Health Internship, 3 hours
GEOG(GEOL) 305 Hydrology and Soil Analysis, 4 hours
Designed emphasis area (9 hours) in environmental health, environmental science, industrial safety, or food science

General electives (7 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 11 hours at the junior-senior level

HEALTH SERVICES MANAGEMENT AND SUPERVISION PROGRAM

W Foegelle, Program Director

T Connelly, S Higgins

Major in Health Services Management and Supervision, B.S. Degree

General education, 41 hours

Program requirements, 9 hours ECON 231, ENGL 305, and PSY 251 or MATH 170

The major requires 63-64 hours as follows
HSCC 330 Legal and Legislative Aspects of Health Care, 3 hours
HSMS 320 Human Resource Management in Health Care Agencies, 3 hours
HSMS 330 Health Care Delivery Systems, 3 hours
MSMS 340 Perspectives in Health Care, 3 hours
HSMS 450 Financial Management in Health Care, 3 hours
HSMS 460 Management of Health Resources, 3 hours
HSMS 493 Special Problems in Health Care Management, 3 hours

Discipline area, 30 hours Up to 30 hours of appropriate credit as determined by the School of Nursing and Health Sciences in the allied health specialty will be accepted for certified allied health personnel If 30 hours are not acceptable, the difference may be made up through basic science courses or courses in specified areas of interest.

Concentration selected from
Management 12 hours ACCT 161, MGT 300, 302, 306
Education, 12-13 hours EDEM 405, PSY 321, EDSE 322, EDSE 487 (1-2 hours), EDHE 431

General electives (14-15 hours) are required to complete the program

MEDICAL RECORD ADMINISTRATION PROGRAM

Julia Palmer, Program Director

E Story

Major in Medical Record Administration, B.S.M.R.A. Degree

General education, 41 hours

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

The major requires 56 hours as follows
301 Introduction to Medical Record Administration, 3 hours

303 Planning and Organizing in Medical Record Administration, 2 hours
310 Fundamentals of Medicine for Medical Record Administration, 3 hours
321 Medical Record Practice Lab, 1 hour
401 Regulation of Health Care Facilities, 3 hours
402 Controlling Resources in Medical Record Administration, 2 hours
403 Medical Record Data Collection, 2 hours
404 Medical Record Classification Systems, 4 hours
405 Advanced Classification Systems, 2 hours
406 Topics In Medical Record Administration, 4 hours
483 Management Affiliation, 4 hours
484 Specialty Affiliation, 1 hour
487, 488 Medical Record Directed Practicum I, II, 4 hours
495 Seminar in Medical Records, 3 hours
HSCC 220 Medical Terminology, 3 hours
HSCC 260 Etiology of Infectious Diseases, 3 hours
HSCC 330 Legal and Legislative Aspects of Health Care, 3 hours
MGT 300 Introduction to Management, 3 hours
HSMS 320 Human Resource Management in Health Care Agencies, 3 hours
HSMS 330 Health Care Delivery Systems, 3 hours

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

CLINICAL LABORATORY SCIENCES (FORMERLY MEDICAL TECHNOLOGY)

Daniel Southern, Program Director

N Cook, Clinical Coordinator
Joe P Hurt, Medical Advisor

C Stevens

Major in Clinical Laboratory Sciences, B.S. Degree

General education, 41 hours

Program requirements, 31 hours CHEM 135, 136, 241, 242, 271, 370, BIOL 291, 292, 413, 414

The major requires 55 hours as follows
300 Instrumentation and Blood Collection, 1 hour
301 Analysis of Body Fluids, 2 hours
302 Clinical Microbiology, 4 hours
303 Hematology, 3 hours
304 Immunology, 3 hours
305 Clinical Parasitology, 2 hours
306 Immunohematology, 4 hours
307 Medical Mycology, 2 hours
308 Advanced Hematology, 3 hours
309 Clinical Biochemistry, 3 hours
310 Principles of Clinical Preceptng, 1 hour
406 Laboratory Management, 2 hours
485, 486, 487, 488, 489 Clinical Practicums Urinalysis, 3-5 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

DEPARTMENT OF NURSING

Vivian Deutz, Head

M Carlyle, S Conner, C Geister, J Glasscock, C Hill, J Howe, S Jacques, A Johnson, E Simmons-Rowland, B Smith, C Stephens, R Wilson

Major in Nursing, B.S.N. Degree

General education, 41 hours

Program requirements, 14 hours CHEM 132, 133, MATH 130, PSY 250 or approved substitute

The major requires 65 hours as follows.
340 Basic Nursing Skills, 2 hours
350 Introduction to Nursing Science, 2 hours
353, 355, 466, 467 Nursing Science I, II, III, IV, 15 hours
383, 385, 486, 487 Clinical Practicum I, II, III, IV, 15 hours
460 Nursing Leadership, 2 hours
470 Nursing Research, 2 hours
475 Perspectives of the Profession, 2 hours
480 Independent Study, 2 hours
BIOL 291, 292 Human Anatomy and Physiology, 8 hours
HSCC 260 Etiology of Infectious Diseases, 3 hours
HSCC 370 Introduction to Pharmacology, 2 hours
ND 336 Normal Nutrition, 2 hours
ND 337 Therapeutic Nutrition, 2 hours
PSY 251 Research Methods I: Statistics, 3 hours
CDFR 364 Survey of Human Development, 3 hours

General electives (8 hours), including at least 5-6 hours at the junior-senior level, are required to complete the program

SCHOOL OF TECHNOLOGY AND APPLIED SCIENCE

J Dale Pounds, Dean
Noelle L Kehrberg, Associate Dean

The School of Technology and Applied Science has as its major thrust the recognition and dissemination of useful career-oriented knowledge in a variety of technical and professional fields Its programs are designed to provide practical experiences and applications of principles in the career fields for which it is responsible All undergraduate programs include a carefully integrated sequence of technical and applied science courses, courses in interpersonal relationships and mathematics appropriate to the discipline as well as the broadening general education requirements in English, literature, the humanities, social and natural sciences, and health and physical education

Programs:

The Child Development and Family Relations program is designed to prepare individuals to work with children, families, and older adults in a variety of settings Graduates obtain positions as preschool teachers, child development center directors, child, family or parent specialists or group home directors The major also provides a sound developmental background for graduate studies in psychology, counseling, social work, child development and family therapy

The Clothing/Textiles/Merchandising major provides the knowledge and skills necessary to pursue a professional career as a buyer, manager, fashion coordinator, sales representative or educational consultant. An internship in the fashion industry offers the opportunity for practical application of course theory Graduates have obtained positions as department heads, buyers and district managers in retail and specialty stores, cosmetics and apparel and textile manufacturing industries

The Criminal Justice major produces graduates capable of attending to the complex needs of the criminal justice system and the crime problem Crime is one of the most important issues in our society In order for the criminal justice system to respond appropriately and effectively, we must produce better educated professionals who understand the interrelationship of the law, criminal behavior, the criminal justice system, and the demands of a democratic society Graduates are prepared for professional careers in law enforcement, corrections, probation, parole, juvenile justice and private security as well as advanced degree programs in criminology, criminal justice and law This criminal justice program was the first baccalaureate program to be awarded certification by the North Carolina Education and Training Standards Commission.

Electronics Engineering Technology is a high technology area providing opportunities in the broad field of electronics and electrical technology As recommended by the Institute of Electrical and Electronics Engineers (IEEE) in its guidelines for engineering technology, graduates of this program can solve practical design problems, evaluate problems in industry, and use current information and practices to solve technical difficulties with electronic circuits Upon graduation, employment opportunities are found in product design, product development and implementation, technical operations, or technical sales and services

Food Service Management is a fast growing and dynamic industry The program provides a strong background in food production, quality control and business management. Graduates have pursued careers as restaurant managers, purchasing agents, sales representatives or food and beverage controllers in the hospitality industry

The General Home Economics program is primarily designed to give students some knowledge and skills in Child Development and Family Relations, Clothing/Textiles/ Merchandising, Food Service Management, Nutrition and Dietetics, and Interior Design An internship provides students with an opportunity to utilize information from the various subject matter areas Most students find positions with Extension Agencies

The Home Economics Education program, which is offered in collaboration with the School of Education & Psychology, is designed to prepare individuals to teach in junior high or high school Courses in Child Development and Family Relations, Clothing/Textiles/Merchandising, Food Service Management, and Interior Design are required along with a professional education component. The program culminates with one semester of student teaching Graduates find jobs in the public school system as Home Economics teachers or with Extension Agencies

The Industrial Distribution program is designed to prepare individuals for career positions in engineering sales, sales management, and mid-management with wholesale distributors who purchase, store, sell, distribute, and service a wide variety of industrial products The Industrial Distribution program is one of eight in the United States that is recognized by the Southern Industrial Distribution Association

Industrial Technology deals with the tools and materials used in the production of industrial products and the skills to supervise industrial personnel Graduates are qualified to take supervisory positions in industries ranging from textiles to aerospace A career path may start with working in production areas doing planning, time and motion studies, plant layout, first-line supervision, and later progressing to plant manager, plant engineer or chief executive officer

The Interior Design program emphasizes commercial design, residential interior design and computer aided design and drafting Career opportunities include residential interior design, contract and commercial design, architectural space planning and management, retailing, furniture sales, design consultation, technical drafting and illustration.

Manufacturing Engineering Technology is a high technology area offering challenge and opportunity in automation and computer-aided manufacturing Graduates are employed in process engineering, facilities engineering management, project engineering, production line supervision, engineering services supervision, and quality assurance supervision The Manufacturing Engineering Technology program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology

The Nutrition and Dietetics program is approved by the American Dietetics Association Clinical experience in hospitals and other health-care facilities is an integral part of the program Graduates obtain positions in hospitals, community health agencies, wellness centers, public health departments, nursing homes, Agricultural Extension Services, and in college or university settings

Credit for Experiential Learning. The school awards undergraduate experiential learning credit in accordance with university guidelines for college-level competencies in its areas of instruction regardless of how the competency was achieved. A student must file a request for competency evaluation, using the form available in the dean's office, and provide additional information as requested A portfolio, written examination, written report, letters of recommendation, oral presentation, and other supporting documentation may be required The department head, the student's adviser, and a faculty member with appropriate expertise selected by the department head constitute a committee to evaluate the request Committee recommendations must be approved by the department head and dean and filed with the registrar

Special Expenses Due to the nature of the clinical experiences required in the Nutrition and Dietetics program, students will encounter special expenses beyond those listed in the fees section of this catalog Liability insurance, uniforms, transportation to clinical sites, and special reference texts are examples of what might be expected. Students should discuss current costs with the program coordinator

DEPARTMENT OF CRIMINAL JUSTICE

William V Pelfrey, Head

E Davis, W Hyatt, L Moriarty, C Taylor

Major in Criminal Justice, B.S. Degree

General education, 41 hours

Program requirements, 3 hours PSY 250

The major requires 60 hours as follows
250 The Criminal Justice System, 3 hours
252 The Communication Process in Criminal Justice, 3 hours
311 The Juvenile Justice Process, 3 hours
320 The Law Enforcement Process, 3 hours
330 The Judicial Process, 3 hours
340 The Corrections Process, 3 hours
350 Criminal Justice Theory, 3 hours
352 Criminal Justice Planning, 3 hours
404 Substantive Criminal Law 3 hours
410 Victimology, 3 hours
482 Senior Directed Research, 3 hours
PSC 302 or 303 or 304 or 411 Problems and Policies of American Government or State and Local Government or Public Administration or Civil Rights and Liberties, 3 hours
PSY 310 or PSY 470 Social Psychology or Abnormal Psychology, 3 hours
SOC 350 or 354 Deviant Social Behavior or Social Problems, 3 hours
Criminal Justice upper division electives, 12 hours
Guided electives, 6 hours

General electives (24 hours), including at least 3 hours at the junior-senior level, 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 HUMAN ENVIRONMENTAL SCIENCES (FORMERLY HOME ECONOMICS)

Davia Allen, Head

J Baldwin, B Cosper, J Dowell, H El-Khatib, J Hall, C Hyatt, N Kehrberg, S Skinner, C Weaver

Major in General Home Economics, B.S. Degree

General education, 41 hours

The major requires 61 hours, including 6 hours in core courses (HE 210, 410) and the following
FSM 231 Food Science, 4 hours
FSM 333 Quantity Foods, 3 hours
ND 330 Human Nutritional Needs, 3 hours
CTM 141 Clothing Selection and Construction, 3 hours
CTM 242 Textiles, 3 hours
CTM 343 Tailoring, 3 hours
CDFR 261 Dynamics of Marriage and Family Living, 3 hours
CDFR 364 Human Development, 3 hours
IDSN 153 Introduction to Interior Design, 2 hours

IDSN 253 Space Planning and Color, 4 hours
HE 321 Family Finance, 3 hours
HE 483, 484, 485 Internship, 3 hours each course
CIS 251 Management Information Systems, 3 hours
COUN 430 Individual and Group Counseling, 3 hours
Departmental electives, 6 hours

General electives (26 hours), including a minimum of 21 hours at the junior-senior level, are required to complete the program

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

General education, 41 hours

The major requires 64 hours, including the 6-hour core (HE 210, 410) and the following
261 Dynamics of Marriage and Family Living, 3 hours
361 The Child Development Center Environment, 3 hours
362 Methods for Child Development Centers, 3 hours
363 Child Development, 3 hours
364 Survey of Human Development, 3 hours
463 Infancy, 3 hours
464 Parent Involvement, 2 hours
465 Day Care Management, 3 hours
466 Child Development Methods II, 3 hours
467 Parent Education, 3 hours
468 Families Organization and Function, 3 hours
469 Family Gerontology, 3 hours
483, 484, 485 Internship, 3 hours each course
496 Seminar in Child Development, 1 hour
ND 330 Human Nutritional Needs, 3 hours

Related electives (9 hours) approved by the adviser (Student desiring K-3 certification must be accepted into the professional sequence and complete appropriate courses required for early childhood specialization)

General electives (23 hours), including at least 3 hours at the junior-senior level, are required to complete the program

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

General education, 41 hours

Program requirements, 15 hours MKT 301, 302, 304, ACCT 161, ECON 130

The major requires 54 hours, including the 6-hour core (HE 210, 410) and the following
140 Fashion Analysis, 3 hours
141 Clothing Selection and Construction, 3 hours
242 Textiles, 3 hours
245 Dynamics of the Fashion Industry, 3 hours
246 Fashion Buying and Merchandising, 3 hours
340 Fashion in Retrospect, 3 hours
343 Tailoring, 3 hours
344 Fashion Design Fundamentals, 3 hours
346 Merchandising Apparel for Profit, 3 hours
347 Fashion Promotion, 3 hours
441 Textile and Apparel Economics, 3 hours
443 Cultural Aspects of Clothing, 3 hours
445 Apparel and Home Furnishing Product Analysis, 3 hours
446 Principles and Techniques of Fashion Retailing, 3 hours
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 Nutrition and Dietetics, B.S. Degree

General education, 41 hours

Program requirements, 11 hours CHEM 132, 133, PSY 250

The major requires 60-61 hours, including the 6-hour core (HE 210, 410) and the following
FSM 231 Food Science, 4 hours
FSM 333 Quantity Foods, 3 hours
FSM 430 Food Systems Management I, 3 hours
FSM 432 Food Systems Management II, 3 hours
ND 132 Nutrition for Everyday Living, 3 hours
ND 330 Human Nutritional Needs, 3 hours
ND 334 Nutritional Applications, 3 hours
ND 433 Methods in Human Nutrition and Foods, 3 hours
ND 434 Experimental Methods in Foods, 4 hours
ND 436 Advanced Human Nutrition, 4 hours
ND 437 Diet Therapy, 3 hours
ND 439 Introduction to Professional Practice, 3 hours
BIOL 292 Human Anatomy and Physiology, 4 hours
BIOL 413 or 313 or HSCC 260 Principles of General Microbiology, 2 hours, or Microbiology in Health and Nutrition or Etiology of Infectious Diseases, 3 hours
MATH 170 Applied Statistics or PSY 251 Research Methods I, 3 hours
MGT 300 Introduction to Management, 3 hours
HE 311 Home Economics Curriculum and Materials, 3 hours

General electives (15-16 hours), including at least 7-10 hours at the junior-senior level, are required to complete the program

Major in Food Service Management, B.S. Degree

General education, 41 hours

Program requirements, 6 hours ECON 231, CIS 251

The major requires 55 hours, including the 6-hour core (HE 210, 410) and the following
130 Introduction to the Hospitality Industry, 2 hours
231 Food Science, 4 hours
333 Quantity Foods, 3 hours
430 Food Systems Management I, 3 hours
432 Food Systems Management II, 3 hours
483, 484, 485 Internship, 3 hours each course
ND 330 Human Nutritional Needs, 3 hours
MGT 300 Introduction to Management, 3 hours
MGT 302 Labor-Management Relationships, 3 hours
MGT 304 Personnel Management, 3 hour
MKT 301 Principles of Marketing, 3 hours
ACCT 161 Accounting for Non-Business Majors, 3 hours
HSEH 330 Food and Milk Control, 4 hours
BIOL 313 Microbiology in Health and Nutrition, 3 hours

General electives (26 hours), including at least 8 hours at the junior-senior level, are required to complete the program

Major in Interior Design, B.S. Degree

General education, 41 hours

Program requirements, 12 hours ART 136 or 137, any art course numbered from 233 to 273, ART 131 and CTM 242

The major requires 62 hours, including the 6-hour core (HE 210, 410) and the following
153 Introduction to Interior Design, 2 hours
253 Space Planning and Color, 4 hours
254 Perspective Drawing, 4 hours
351 Lighting Design for Interiors, 3 hours
353 Residential Design, 4 hours
355 History of Interiors and Furnishings I, 3 hours
356 Methods and Materials of Interior Design, 3 hours
357 Contract Design I, 4 hours
358 History of Interiors and Furnishings II, 3 hours
456 Contract Design II, 4 hours
458 Professional Practice in Interior Design, 3 hours
459 Portfolio Review, 1 hour
483 Internship, 3 hours
IET 342 Construction Processes, 3 hours
IET 350 Technical Illustration, 3 hours
IET 351 Architectural Drafting and Design, 3 hours
IET 352 Furniture and Architectural Drafting and Design, 3 hours
MET 410 Computer Drafting, 3 hours

General electives (13 hours) including at least 2 hours at the junior-senior level

Major in Home Economics, B.S.Ed. Degree

General education, 41 hours

Program requirements, 4-5 hours STA 250, HEAL 230 or approved substitute, and two P E courses (if not taken in general education)

The major requires 40 hours, including the 6-hour core (HE 210, 410) and the following
FSM 231 Food Science, 4 hours
FSM 333 Quantity Foods, 3 hours
CTM 141 Clothing Selection and Construction, 3 hours
CTM 242 Textiles, 3 hours
HE 311 Home Economics Curriculum and Materials, 3 hours
HE 321 Family Finance, 3 hours
ND 330 Human Nutritional Needs, 3 hours
IDSN 153 Introduction to Interior Design, 2 hours
IDSN 253 Space Planning and Color, 4 hours
CDFR 261 Dynamics of Marriage and Family Living, 3 hours
CDFR 363 Child Development, 3 hours

The professional education sequence (28 hours) for secondary and special subject teaching and general electives (14-15 hours), including at least 6 hours at the junior-senior level, are required to complete the program Students who desire certification in middle grades occupational exploration should elect COUN 450 For certification in disadvantaged/ handicapped, students should elect SPED 421 and 486

Minor in Child Development and Family Relations

The minor requires 24 hours, including 261, 361, 363, 364, 463, 464, 467, 468

Minor in Clothing and Textiles

The minor requires 21 hours, including 140, 141, 242, 340, 343, 344, 441

Minor in Family Services

The minor requires 20 hours, including CDFR 261, 364, 464, 467, 469, HE 321, ND 330

Minor in Fashion Merchandising

The minor requires 21 hours, including CTM 140, 242, 245, 246, 346, 347, and 441 or 446

Minor in Nutrition and Dietetics

The minor requires 18-22 hours, including FSM 231, ND 330, and 12-16 hours selected from junior-senior level courses in Food Service Management or Nutrition and Dietetics

Minor in Food Service Management

The minor requires 21 hours, including 130, 231, 333, 430, 432, ND 330, and a 3-hour junior-senior elective selected from FSM 389, nutrition and dietetics, management, or food service management

Minor in General Home Economics

The minor requires 20 hours, including 12 hours selected from FSM 231, CTM 242, CDFR 261, HE 321, 359, and 8 hours of electives

Minor in Interior Design

The minor requires 24 hours, including 153, 253, 354, 357, CTM 242, ART 131, 132

DEPARTMENT OF INDUSTRIAL AND ENGINEERING TECHNOLOGY (FORMERLY INDUSTRIAL EDUCATION & TECHNOLOGY)

George DeSain, Head

M Adams, K Ayala, A Ball, J Cook, R Dalley, J Friesner, A Latorre, W Medaris, A Nielsen, J Pounds, B Setzer, J Turner, K Whitley, D Wood

The Department of Industrial and Engineering Technology has developed articulation agreements with many two-year colleges The articulation agreement provides information regarding course work necessary to complete a baccalaureate degree in one of the program areas within the department Further information about the articulation agreements is available from the Department of Industrial and Engineering Technology

Courses at the junior-senior level are offered in industrial technology, manufacturing engineering technology and electronics engineering technology on the Asheville-Buncombe Technical College campus during evenings and Saturdays for two-year college graduates Degree requirements are the same as those for the regular on-campus programs at WCU Further information is available from the Department of Industrial and Engineering Technology

Major in Electronics Engineering Technology, B.S. Degree

General education, 41 hours

Program Requirements, 22 hours MATH 145, 146, 153, 255, PHYS 230, 231

The major requires 55 hours as follows
IET 150 Engineering Graphics, 4 hours
CS 150 Computer Programming I, 3 hours
MET 366 Manufacturing Materials, 3 hours
EET 201 Circuit Analysis I, 4 hours
EET 202 Circuit Analysis II, 4 hours
EET 311 Solid State Devices, 4 hours
EET 312 Analog Integrated Circuits, 4 hours
EET 321 Digital Integrated Circuits I, 4 hours
EET 322 Digital Integrated Circuits II, 4 hours

EET 341 Advanced Circuit Analysis, 3 hours
EET 431 Microprocessor Fundamentals, 4 hours
EET 432 Microprocessor Applications, 4 hours
EET 451 Control Systems, 3 hours
EET 462 Communication Systems, 3 hours
EET 478 Senior Design Project Proposal, 1 hour
EET 479 Senior Design Project, 3 hours

General Electives (10 hours) at the junior-senior level are required to complete the program

Major in Industrial Distribution, B.S. Degree

General education, 41 hours

Program requirements, 16 hours MATH 130, 170, 144, PHYS 130, ECON 231

The major requires 61 hours as follows
IET 140 Furniture Manufacturing, 4 hours
IET 230 Industrial Distribution, 3 hours
IET 260 Metals Technology, 4 hours
IET 335 Industrial Safety, 3 hours
IET 360 Industrial Distribution Organization, 3 hours
IET 361 Machining Processes, 4 hours
IET 370 Electricity, 4 hours
IET 371 Electronics, 4 hours
IET 420 Polymer Technology, 4 hours
IET 423 Fluid Systems, 3 hours
MET 130 Blueprint Reading, 1 hour
MET 160 Industrial Computer Applications, 3 hours
MET 460 Materials Management, 3 hours
MKT 301 Principles of Marketing, 3 hours
MKT 304 Consumer Behavior, 3 hours
MKT 306 Professional Selling, 3 hours
MKT 405 Marketing Management, 3 hours
LAW 230 Legal Environment of Business, 3 hours
ACCT 161 Accounting for the Non-Business Major, 3 hours

General electives (10 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, 13 hours MATH 130, 144, PHYS 130, ECON 231

The major requires 61 hours as follows
IET 140 Furniture Manufacturing, 4 hours
IET 150 Engineering Graphics, 4 hours
IET 260 Metals Technology, 4 hours
IET 335 Industrial Safety, 3 hours
IET 361 Machining Processes, 4 hours
IET 370 Electricity, 4 hours
IET 371 Electronics, 4 hours
IET 420 Polymer Technology, 4 hours
IET 423 Fluid Systems, 3 hours
MATH 170 Applied Statistics, 3 hours
MGT 300 Introduction to Management, 3 hours
MGT 304 Personnel Management, 3 hours
OA 403 Business Research Reports, 3 hours
MET 160 Industrial Computer Applications, 3 hours
MET 363 Methods and Standards, 3 hours
MET 410 Computer Drafting, 3 hours

MET 460 Materials Management, 3 hours
MET 462 Quality Control, 3 hours

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

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

General education, 41 hours

Program requirements, 7-8 hours STA 250, MATH 130, HEAL 230 or approved substitute, and two P E courses (if not taken in general education)

The major requires 48 hours as follows
130 Introduction to Industrial Education and Technology, 1 hour
140 Furniture Manufacturing, 4 hours
150 Engineering Graphics, 4 hours
342 Construction Processes, 4 hours
260 Metals Technology, 4 hours
300 Industrial Ceramics I, 3 hours
313 Graphic Arts, 4 hours
320 Power Technology, 4 hours
335 Industrial Safety, 3 hours
351 or 361 or 371 Architectural Drafting and Design or Machining Processes or Electronics, 3-4 hours
370 Electricity, 4 hours
420 Polymer Technology, 4 hours
432 Shop/Laboratory Organization and Management, 3 hours
Industrial Education elective, 2-3 hours

The professional education sequence (29 hours) for secondary and special subject teaching and general electives (2-3 hours) are required to complete the program Students may complete requirements for certification in middle grades occupational exploration by electing COUN 450 For certification in disadvantaged/handicapped, students should elect SPED 335, 486

Major in Manufacturing Engineering Technology, B.S. Degree

General education, 41 hours

Program requirements, 27 hours MATH 170, 145, 146, 153, PHYS 130, 131; ECON 231, MGT 300

The major, which meets the guidelines for manufacturing engineering technology programs of the Society of Manufacturing Engineers, requires 55 hours as follows
IET 150 Engineering Graphics, 4 hours
IET 260 Metals Technology, 4 hours
IET 335 Industrial Safety, 3 hours
IET 361 Machining Processes, 4 hours
IET 370 Electricity, 4 hours
IET 371 Electronics, 4 hours
IET 420 Polymer Technology, 4 hours
MET 160 Industrial Computer Applications, 3 hours
MET 351 Statics and Dynamics, 3 hours
MET 352 Strength of Materials, 3 hours
MET 363 Methods and Standards, 3 hours
MET 440 Fluid Power, 3 hours
MET 460 Materials Management, 3 hours
MET 462 Quality Control, 3 hours
MET 465 Engineering Economy, 3 hours
MET 478 Senior Project Proposal, 1 hour
MET 479 Senior Project, 3 hours

General electives (5 hours) are required to complete the program

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 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 the non-major

Minor in Industrial Technology

A minor of 16-24 hours may be approved by the industrial technology coordinator to meet the individual needs and interests of non-majors

Certification in Trade and Industrial Education

Trade Preparatory and Introduction to Trades teachers are certified on the basis of occupational experience, trade/technical competencies, and professional education course work The following courses are required. IET 132, 430, 437, EDSE 320, EDEM 405, EDRD 323, PSY 321 Questions regarding certification should be directed to the coordinator of vocational teacher education

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 application, interpretation, and administration of the Federal Occupational Safety and Health Act and other regulations to assist students to develop entry-level expertise that can be applied directly in industry Students who complete HEAL 120 or HSEH 230 or HSEH 457, HSCC 240, IET 335, 336 and 337, or their equivalents, with a minimum GPA of 2 0 will be awarded a certificate in occupational safety by the Department of Industrial and Engineering Technology The certificate is co-sponsored by the North Carolina Industrial Commission. Majors in industrial technology who elect these courses will have completed a degree program that closely parallels a typical bachelor's program in occupational safety and health

THE GRADUATE SCHOOL*

Anthony A Hickey, Dean

Steven P Yurkovich, Acting Associate Dean

The Graduate School at Western Carolina University awarded the first graduate degrees in 1952 Since that time, it has continuously broadened its offerings Programs offered by the Graduate School lead to ten master's degrees with more than 50 options in the different professional and academic areas, and to the Education Specialist degree in school administration, supervision, curriculum and instruction, and elementary education.

Master of Arts: Majors in American History, Art Education, English, Music, Psychology, (Clinical, General, and School), and Studio Art.

Master of Science Majors in Applied Mathematics, Biology, Chemistry, Communication Disorders, Home Economics, and Human Resource Development

Master of Arts in Education: Majors in Curriculum and Instruction, Educational Administration (public school and two-year college), Educational Media (on inactive status, no new students being enrolled), Counseling (school and community agency), Elementary Education and Middle Grades Education, Reading (public school and two-year college), Special Education (communication disorders and 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 Secondary Education and/or Two-Year College Teaching with majors in biology, business, chemistry, English, home economics, mathematics, physical education, and social sciences

Master of Business Administration

Master of Health Sciences

Master of Industrial Education: Industrial Education with options for secondary and two-year college teaching

Master of Science in Technology

Master of Music Education

Master of Project Management

Master of Public Affairs

Education Specialist: Administration, Elementary Education, Middle Grades Education, Supervision, and Curriculum and Instruction with specialties for elementary and secondary school and two-year college personnel

Certificate of Advanced Study The program in School Psychology is on inactive status, and no new students are being enrolled.

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 Departments may have a higher required GPA Departments also require some form of standardized test such as GRE, NTE, or GMAT Please consult the Graduate School issue of **The Record** (catalog) 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

*Complete information will be found in the *Graduate School Issue* of The Record which is available from the office of the dean.

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 in which the student expects to enroll

Some graduate programs require a thesis These are M A in American History (excluding public history and American studies options), M A in Art Education, M A in English, M A in Psychology (all programs), M S in Biology, M S in Chemistry, and the Master of Health Sciences A thesis or approved research topic is required for the M A in Art Education 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 Industrial Education, the Master of Music Education, the Master of Science in Applied Mathematics, the Master of Science in Communication Disorders, and the Master of Science in Home Economics

A reading knowledge of a foreign language is required for the following programs M A in American History, M A in English, M S in Biology, and the M S in Chemistry Candidates for the Master of Science in Chemistry may substitute demonstrated ability in computer programming Other degree programs do not require proficiency in a foreign language

All degrees may be completed with a minimum of 30 to 61 semester hours of graduate study However, applicants may be required to take additional coursework 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

01-99	Noncredit courses which are not applicable to degrees
100-199	Courses for Freshmen
200-299	Courses for Sophomores
300-399	Courses for Juniors
400-499	Courses for Seniors
500-599	Courses for Graduate Students (Selected seniors by permission only)
600 and above	Courses for Graduate Students only
700-799	Specialist degree and post-master's degree courses

Students should not enroll in courses numbered above their class rank without the permission of the department offering the course Undergraduate students may not enroll in graduate-level courses for either undergraduate or graduate credit except under the conditions specified in the graduate catalog In such cases, the student must meet graduate-level requirements to receive credit

All courses approved for general education at the freshman and sophomore levels are numbered in the ranges 101-129 and 201-229 The category of general education to which each course applies may be found on pages 56-59 The applicable category also is indicated by the parenthetical code at the end of each course description

F1	Written Communication	P1b	Contemporary Institutions
F2	Mathematics	P2	Physical and Biological Sciences
F3	Thinking, Reasoning, Expressing	P3a	Humanities
F4	Computer Literacy	P3b	Fine/Performing Arts
F5	Leisure and Fitness	P4	Comparative Cultures
P1a	Human Behavior	P5	The Human Past

The number 389 is reserved for cooperative education courses

Within the sequences 480-499, 580-599, 680-699, and 780-799, the second and third digits of the numbers are assigned to special types of courses

80-82	Independent study and directed readings courses
83-89	Internships, practica, and special applied field projects
90-92	Student teaching
93-94	Special topics courses
95-98	Seminars
699	Thesis

Course Prefixes. The prefixes used to designate courses, except in the case of very short names such as Art, are abbreviations of the names of departments or of fields of study within the departments

Credits and Class Meetings. Unless otherwise indicated at the end of the course description, the number of hours a class meets each week is the same as the credit hour value of the course The credit hour value of each course is indicated in parentheses immediately following its title For example, if 3 hours of credit may be earned the credit is indicated as follows (3) In variable credit courses, the minimum and maximum hours are shown as follows (1-3) Unless repeat credit is specified in the course description, a course may be applied only once toward the hours required for graduation The availability of a course for repeat credit and the maximum hours that may be earned are indicated within the parentheses and immediately

following the credit hour value of the course as follows: (3,R6) In this example, the course carries 3 hours of credit and may be repeated once for a total maximum of 6 hours applicable toward a degree

Prerequisites and Corequisites. A prerequisite (PREQ) is any special requirement, usually one or more background courses or requirements other than class rank, that must be met before enrolling in a course specifying the prerequisite A corequisite (COREQ) is any course which must be taken during the same term as the course that specifies the corequisite

Experiential Courses. The maximum credit in experiential courses that may be applied toward a degree within the minimum 128 hours required in all bachelor's programs is 26 semester hours (20 percent). The maximum credit that may be earned in cooperative education or applied field project courses/internships or in any combination of the two is 15 hours

Credit is awarded in experiential courses on the basis of a minimum of three contact hours per credit hour

Cooperative Education Courses. Students participating in a cooperative education work term are registered for a 389 course in the major department, or the department most closely related to the work experience To be eligible, a student must be at least a sophomore and have a GPA of 2.00 or above Exceptions must be approved by the departmental Co-op/ Placement Advisor. 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

Prefix	Field of Study	Department
ACCT	Accounting	Accounting and Information Systems
ANTH	Anthropology	Geosciences and Anthropology
ART	Art	Art
ASI	Arts and Sciences Interdisciplinary	School of Arts and Sciences
AST	Astronomy	Chemistry and Physics
BA	Business Administration	School of Business
BIOL	Biology	Biology
CDFR	Child Development and Family Relations	Human Environmental Sciences
CHEM	Chemistry	Chemistry and Physics
CHER	Cherokee Languages	Modern Foreign Languages
CHIN	Chinese Languages	Modern Foreign Languages
CIS	Computer Information Systems	Accounting and Information Systems
CJ	Criminal Justice	Criminal Justice
COUN	Freshman Orientation, Counseling	Human Services
CS	Computer Science	Mathematics and Computer Science
CTM	Clothing, Textiles, and Merchandising	Human Environmental Sciences
ECON	Economics	Economics and Finance
EDAD	Educational Administration	Administration, Curriculum, and Instruction
EDCD	Communication Disorders	Human Services
EDCI	Curriculum, Research, and Foundations	Administration, Curriculum, and Instruction
EDEL	Elementary Education	Elementary Education and Reading
EDEM	Educational Media	Administration, Curriculum, and Instruction
EDHE	Higher Education	Administration, Curriculum, and Instruction
EDPY	Education and Psychology Interdisciplinary	School of Education and Psychology
EDRD	Reading	Elementary Education and Reading
EDSE	Secondary Education and Special Subject Teaching	Administration, Curriculum, and Instruction
EDSU	Educational Supervision	Administration, Curriculum, and Instruction
EET	Electronic Engineering	Industrial and Engineering Technology
EMC	Emergency Medical Care	Health Sciences
ENGL	English	English
ESI	Earth Science	Geosciences and Anthropology
FIN	Finance	Economics and Finance
FOR	Forestry	Geosciences and Anthropology
FREN	French	Modern Foreign Languages
FSM	Food Service Management	Human Environmental Sciences
GEOG	Geography	Geosciences and Anthropology
GEOL	Geology	Geosciences and Anthropology
GER	German Languages	Modern Foreign Languages
HE	Home Economics	Human Environmental Sciences
HEAL	Health Education	Health, Physical Education, and Recreation
HIST	History	History
HRD	Human Resource Development	Human Services
HSCC	Health Sciences	Health Sciences
HSEH	Environmental Health	Health Sciences
HSMR	Medical Record Administration	Health Sciences
HSMS	Health Services Management and Supervision	Health Sciences
HSMT	Clinical Laboratory Sciences (formerly Medical Technology)	Health Sciences

Prefix	Field of Study	Department
IDSN	Interior Design	Human Environmental Sciences
IET	Industrial Education, Industrial Technology, Industrial Distribution	Industrial and Engineering Technology
JOUR	Journalism	English
LAT	Latin	Modern Foreign Languages
LAW	Business Law	Administrative Services
MATH	Mathematics	Mathematics and Computer Science
MET	Manufacturing Engineering	Industrial and Engineering Technology
MGT	Management	Management and Marketing
MKT	Marketing	Management and Marketing
MS	Military Science	Military Science
MUS	Music	Music
ND	Nutrition and Dietetics	Human Environmental Sciences
NRM	Natural Resources Management	Natural Resources Management
NSG	Nursing	Nursing
OA	Office Administration, Business Education	Administrative Services
PA	Public Affairs	Political Science and Public Affairs
PE	Physical Education	Health, Physical Education, and Recreation
PHIL	Philosophy	Philosophy and Religion
PHYS	Physics	Chemistry and Physics
PRM	Parks and Recreation	Health, Physical Education, and Recreation
PSC	Political Science	Political Science and Public Affairs
PSY	Psychology, Educational Psychology	Psychology
REL	Religion	Philosophy and Religion
RTV	Radio and Television	Speech and Theatre Arts
SCI	Science Education	Chemistry and Physics
SM	Sport Management	Health, Physical Education, and Recreation
SOC	Sociology	Social Work and Sociology
SOCW	Social Work	Social Work and Sociology
SPAN	Spanish	Modern Foreign Languages
SPED	Special Education, Mental Retardation, Learning Disabilities, Gifted and Talented	Human Services
SSC	Social Sciences	Social Sciences
STA	Speech and Theatre Arts	Speech and Theatre Arts
TR	Therapeutic Recreation	Health, Physical Education, and Recreation
USI	University Studies, Interdisciplinary	Academic Affairs

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

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 changes in financial position, statement analysis 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 page 125

453 Advanced Accounting.(3)
Partnership, sales, consolidations, estates, and trusts PREQ 352

454 Auditing I, II.(3,3)
464 Theory, practice, and procedures in independent audits, standards, professional ethics, and internal control PREQ 453

465 CPA Problems.(3)

466 Income Tax II.(3)

467 Cost Accounting II.(3)

480 Independent Research in Accounting.(3)
PREQ Accounting major, permission of department head

483 Accounting Internship.(3,3,3)
484 Supervised work or research experience in applications of accounting theory S/U
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)
651 Managerial Accounting.(3)
661 Advanced Theory (3)
662 Taxation and Business (3)
682 Research Project.(3,R6)
693 Topics in Accounting (1-3,R6)

Anthropology (ANTH)

110 Origins of Civilization.(3)
The development of civilizations in major world areas from the earliest beginnings to the present.(P5)

120 (320) 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, fossils, humans, and early civilizations

260 Cultural and Social Anthropology.(3)
Survey and comparison of social, political, economic, religious, and artistic achievements to provide understanding of cultural diversity

327 Economy and Society.(3)
Types of economic systems examined and compared, emphasis on preindustrial and industrializing societies PREQ 260

341 History of Anthropological Theory.(3)
Concepts, theories, and schools of thought in historical context, contributions to contemporary anthropology PREQ 250, 260

349 Applied Anthropology.(3)
Examination of problems and solutions in programs of directed social and cultural change, case studies PREQ 260

351 Cultural Ecology.(3)
Relationships between physical environment and culture, nonphysiological means of environmental adaptation PREQ 250, 260, or SOC 231

361 World Prehistory.(3)
Survey of cultural developments in society from the dawn of man to the advent of modern civilization

365 Religion, Magic, Myth.(3)
Nonliterate religious tradition and ritual behavior, life-crisis rituals, secret societies, magic and witchcraft, notions of divinity PREQ 260

379 (ART 379) Cherokee Arts and Crafts.(3)
Present-day Cherokee skills of woodcarving, basketry, pottery making, and other arts and crafts taught by native craftsmen, historical development in relation to other aspects of Cherokee culture and society 1 Lecture, 5 Lab

380 (SOC 380) Ethnographic Research Methods.(3)
Theory and method, techniques of observation, description, interviewing, notetaking, and analyzing data, planning and completing a field study PREQ 260 or SOC 231

389 Cooperative Education in Anthropology. (1 or 3,R15) See page 125

414 (SOC 414) Minority Groups.(3)

417 Southern Appalachian Culture.(3)
Stability and change in the sociocultural institutions of the region. PREQ 260 or SOC 231.

419 Comparative Family.(3)
The family as a social institution in various cultures PREQ 260 or SOC 231.

431 North American Prehistory.(3)
Cultural history of the peoples of prehistoric North America, including Mexico PREQ 250

440 Archeological Field Techniques.(3)
Basics of field work; surveying, photography, excavation, recording, and preservation techniques PREQ Permission of instructor

441 Archeological Problems and Analyses.(3)
Experience in collecting and analyzing relevant archeological data. PREQ Permission of instructor

461 Indians of North America.(3)
Traditional and changing life styles of native North Americans, environmental adaptations, social organizations, religions, and arts PREQ 260

464 Cultures of South Asia.(3)
The cultures of India, Pakistan, Ceylon, Nepal, Afghanistan, and other South Asian countries PREQ 260

466 Folklore.(3)
Major forms, theories, and functions of lore among the world's cultures, collection, classification, and analysis of folklore PREQ 260 or permission of instructor

473 Contemporary Cherokee Culture and Society.(3)
Present-day Cherokee culture and society, effects of tourism and the reservation system on life styles PREQ 260

477 Cultures of Subsaharan Africa.(3)
Ethnographic studies of economic systems, family and political institutions, myths, rituals, religions PREQ 260

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

483 Anthropology Internship.(3,3,3)
484 Application of academic training in an approved agency under faculty supervision
485 Credit toward anthropology major or minor limited to 3 hours S/U grading 9 hours per week per course.

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 (HIST 577) Cultures of Subsaharan Africa (3)
581 Independent Study in Anthropology (1-2,R6)
593 Topics in Anthropology (3,R6)

Art (ART)

102 (302) African, Asian, and Western Art.(3)
Style, symbolic expression, and attitudes towards mankind's relationship to nature in three distinct world cultures (P4)

103 Art in Society.(3)
Examination of recurring visual forms in historic context as expressions of cultural values and aspirations.(P5)

104 (308) Art Appreciation.(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)

121 Beginning Painting.(1)
Development of a composition, sketching the subject, mixing colors, and applying paint, for nonmajors 2 Lab (F5)

123 Off-Loom Fiber Works.(1)
Weaving on frame or hoop warps, fiber constructions, creative stitchery and quilting, for nonmajors 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)

126 Image-Making for Non-Artists.(1)
Experimentation with photograms, photo-montage, collage, transfer rubbings, and other techniques for making images 2 Lab (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 Lab fee charged 6 Studio

132 Two-Dimensional Design.(3)
Foundation course with an emphasis on traditional 2-dimensional techniques Emphasis is placed on use of materials and tools, problem solving, aesthetic theory and criticism. Lab fee charged 6 Studio

136 Art History Survey I, II.(3,3)
137 The visual arts from the prehistoric period through the Renaissance in 136, from the 17th through the 20th centuries in 137

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. Lab fee charged 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 Lab fee charged 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 Lab fee charged 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 Lab fee charged 6 Studio

251 Introductory Ceramics.(3)
Basic principles of ceramics, technical, critical and historical Lab fee charged 6 Studio

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 Lab fee charged PREQ 132 6 Studio

271 Lettering.(3)
Principles of lettering and letter construction, lettering as used and reproduced today, typography in relation to lettering and design 6 Studio

273 Airbrush.(3)
Comprehensive introduction to airbrush rendering, techniques directly applicable to illustration PREQ 131, 132 6 Studio

301 Greek and Roman Art.(3)
Greek, Etruscan, and Roman art and architecture, Aegean art and the problems of classical archeology

303 Medieval Art.(3)
Evolution of art from early Christian through Romanesque to Gothic traced in religious context against the changing social background of the Middle Ages

306 Renaissance Art.(3)
The Renaissance in Italy and northern Europe, major trends and personalities in art and architecture

309 Seventeenth and Eighteenth Century Art.(3)
Major baroque and rococo artists, architects, landscape and urban designers in Europe

312 Nineteenth Century Art.(3)
Major styles of art and architecture in Europe

314 American Painting.(3)
Major artists and trends, the earliest colonial limners to the abstract expressionists in the mid-20th century PREQ 136

316 Development of Modern Painting.(3)
Survey of painting, primarily European, from contributions of the late 19th century post-impressionist generation to the mid-20th century PREQ 137

317 Development of Modern Sculpture.(3)
Academic sculpture in the 19th century, modernist innovations from Rodin to David Smith PREQ 137

318 Development of Modern Architecture.(3)
Late 19th- and 20th-century architecture, materials, styles, and theories of architects and engineers in a changing world PREQ 137

319 History of Design.(3)
Survey of the development of graphic design pre-history through contemporary visual communications, topics include the interrelated areas of typography, photography and illustration as well as current conceptual and art history issues PREQ 136, 137

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. Lab fee charged 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. Lab fee charged PREQ 233 6 Studio

334 Intermediate Printmaking.(3,R6)
Exploration of various printmaking techniques with focus on personal interpretation and perception Lab fee charged 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. Lab fee charged PREQ 241. 6 Studio

350 Fibers.(3,R6)
Exploration of weaving techniques and structural forms in fibers combined with the history of weaving and the critical evaluation of projects Lab fee charged 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 Lab fee charged PREQ 251 6 Studio

352 Jewelry and Metalsmithing.(3,R6)
Basic principles of jewelry and metalsmithing, technical, critical and historical Lab fee charged 6 Studio

354 Introductory Glass I, II.(3,3)
355 Basic techniques of glassblowing, technical, critical and historical Lab fee charged PREQ Permission of instructor for 354, 354 for 355 6 Studio

364 Intermediate Glass.(3,R6)
Materials, techniques and aesthetic issues of contemporary glass blowing and forming with emphasis on personal interpretation and perception PREQ 355 6 Studio

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 an emphasis on contemporary modes of visual communication Readings, research and discussions related to critical thinking and aesthetic theory PREQ 270, 271, 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 Lab fee charged 6 Studio

373 Introductory Illustration.(3)
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 Lab fee charged PREQ 131 6 Studio

374 Typography.(3)
Comprehensive lettering, structural arrangements, typography and scale, phototypesetting, computer generated type and other procedures in type compositions, emphasis on typography in communication by combining theoretical studies with applied problems 6 Studio

379 (ANTH 379) Cherokee Arts and Crafts.(3)

380 Illustration for Interior Design.(3)
Introduction to wet and dry color media and basic graphics techniques for architectural interiors PREQ 131 6 Lab

389 Cooperative Education in Art.(1 or 3,R15) See page 125.

416 Contemporary Art History.(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. Lab fee charged 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 Lab fee charged PREQ 330 6 Studio

443 Advanced Sculpture.(3,R6)
Emphasis on exploration of sculptural materials and critical thinking within a contemporary context Lab fee charged PREQ 342 6 Studio

451 Advanced Ceramics.(3,R6)
Emphasis on personal direction, critiques of current work, reading in history and criticism Lab fee charged PREQ 351 6 Studio

457 Textile Dye Techniques.(3)
Batik, plangi, ikat, and other techniques of applying dye designs PREQ Permission of instructor 6 Studio

458 Hand Papermaking.(3,R6)
Dyeing, painting, molding, casting, forming, and other techniques for handmade paper

460 Computer Graphics Practicum.(3,R6)
Production and experimentation with computer generated imagery and investigation of software programs 6 Studio

461 Art Education.(3)
Studio in 2- and 3-dimensional media suited to needs of elementary and secondary students, understanding child art. Lab fee charged 6 Studio

462 Art Education Philosophy.(3)
The rationale for the visual arts in education, changes and trends in art education. PREQ 461

463 Art Education Materials and Methods.(3)
Materials, equipment, curricula, and techniques for teaching art at all levels PREQ 461

464 Advanced Glass.(3,R6)
Emphasis on personal direction interrelated with regular critiques and the study of contemporary glass PREQ. 364. 6 Studio.

470 Package Design.(3)
Fundamentals of package design and construction through the use of materials, methods, and graphic procedures; emphasis on problem solving through 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. Lab fee charged. PREQ: 372 or permission of instructor. 6 Studio.

473 Intermediate Illustration.(3,R6)
Emphasis on personal interpretation and advanced technical solution to guided projects. PREQ: 141, 373. 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

476 Advanced Photography.(3,R6)
Emphasis on personal interpretation and advanced technical solutions to guided projects. Lab fee charged. 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: Submission of proposal, permission of 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,R7)
Lab fee charged. 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. Lab fee charged. PREQ Permission of instructor. 6 Studio.

495 Art History Seminar.(3,R6)
Detailed study of a limited topic in art history. PREQ Permission of instructor, Junior standing and 9 hours in art history.

Graduate Courses
531 Drawing Problems (3,R6)
532 Design Problems (3,R6)
533 Painting Problems (3,R6)
632 Graduate Design (3,R9)
633 Graduate Painting (3,R9)
634 Graduate Printmaking (3,R9)

534 Printmaking Problems (3,R6)
544 Sculpture Problems.(3,R6)
551 Ceramics Problems (3,R6)
553 Weaving Problems (3,R6)
554 Glass Problems.(3,R6)
554 Glass Problems.(3,R6)
564 Art Education Problems (3,R6)
582 Independent Study in Art History (1-6)
586 Exhibition Practicum (3)
593 Topics in Art.(1-4,R7)
596 Art History Seminar (3)
597 Seminar in Contemporary Art.(3)
631 Graduate Drawing.(3,R9)
644 Graduate Sculpture.(3,R9)
651 Graduate Ceramics (3,R9)
652 Graduate Jewelry (3,R9)
653 Graduate Weaving (3,R9)
654 Graduate Glass (3,R9)
666 Photography Problems (3,R6)
667 Graduate Photography (3,R9)
681 Graduate Problems in Art.(3)
682 Independent Study in Art History (1-6)
696 Graduate Seminar in Art History (3,R6)
697 Seminar in Art Education (3)
699 Thesis (3)

Arts and Sciences Interdisciplinary Courses (ASI)

100 Introduction to American Culture.(3)
Survey of contemporary American culture, basic history, geography, cultural characteristics, and customs PREQ International student or permission of instructor COREQ ENGL 130 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)

293 Special Topics.(1-4,R6)

300 University Forum for Contemporary Issues.(1,R6)
Issues, problems, and developments of current interest presented by faculty and, occasionally, visiting scholars S/NC grading

301 Introduction to American Studies.(3)
The rationale of American studies; emphasis on one period to reveal the interrelationships among the many facets of American culture

393 Special Topics.(3,R12)

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 PREQ 301

Astronomy (AST)

101 Descriptive Astronomy.(3-4)
Characteristics of solar stellar systems examined in terms of the technologies and attitudes of man 3 Lecture, 2 Lab (optional) (P2)

201 (302) Cosmos.(3)
Analysis and evaluation of man's evolving understanding of the universe based on Carl Sagan's Cosmos (F3)

250 General Astronomy.(4)
Solar and stellar astronomy, including distances, masses, and luminosities of stars, recent discoveries PREQ. MATH 140 or 153 3 Lecture, 2 Lab

301 Modern Astronomy.(3)
Techniques of measurement and research. PREQ 250 2 Lecture, 1 Lab

401 Celestial Mechanics.(3)
Orbital mechanics, one- and two-body problems, Hamilton-Jacobi theory PREQ 301, PHYS 231

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/discussion/ demonstration (optional) (P2)

107 (307) Classical Experiments in Biology.(3)
Classical experiments used as the basis for exercises involving analysis of scientific reasoning, the scientific method, and experimental design (F3)

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)
Classification, relationships, structure, and function of major animal groups, lab dissections, experiments in animal physiology 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 Modern Environmental Problems.(3)
The ecological limits of human population growth, food production, industrial development, and attendant problems PREQ 101 or permission of instructor

134 Principles of Biology.(4)
Introduction to cell biology, genetics, and human systems biology 3 Lecture, 2 Lab

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

232 General Ecology.(3) (formerly 332)
Ecosystem and population processes, pathways of energy and materials, interactions between organisms and populations, human role in the biosphere PREQ 130, 131, or permission of instructor 2 Lecture, 3 Lab

242 Genetics and Evolution.(3) (formerly 342)
Processes of inheritance and evolution, experiments with various animals, plants, and bacteria PREQ 130, 131 or permission of instructor 2 Lecture, 3 Lab

251 Natural History of the Southern Appalachians.(4)
Interdisciplinary study of this unique environment, on-site studies, scheduled pack trips PREQ 130 or 131 2 Lecture, 6 Lab

254 Dendrology.(4)
Structure, distribution, identification, and economic uses of major forest trees of the United States, emphasis on regional species 2 Lecture, 6 Lab/field

291 Human Anatomy and Physiology.(4,4)
292 The skeletal, muscular, digestive, circulatory, respiratory, excretory, integrative, and reproductive systems 3 Lecture, 3 Lab

311 Physiology.(3)
Metabolism, photosynthesis, transport, respiration, regulation and defense mechanisms

in plants. Nervous, endocrine, circulatory, skeletal, muscular, respiratory, digestive, and immune systems in animals with particular focus on structural and functional relationships PREQ 130, 131 or permission of instructor 2 Lecture, 3 Lab

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

333 Cell and Molecular Biology.(3)
Viral, prokaryotic, and eukaryotic cell structure, DNA structure and replication, RNA and protein synthesis, control of gene expression Structure and function of specific cell types PREQ 130, 131 or permission of instructor 2 Lecture, 3 Lab

361 (CHEM 361) Principles of Biochemistry.(3)

373 Invertebrate Zoology.(4)
Morphology, physiology, behavior, ecology, and evolution of invertebrates PREQ 131 2 Lecture, 6 Lab

374 Vertebrate Zoology.(4)
Morphology, physiology, behavior, ecology, and evolution of vertebrates PREQ 232, 242 and 311, or permission of instructor 2 Lecture, 6 Lab

389 Cooperative Education in Biology.(1 or 3,R15) See page 125

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)
The growth, development, function, and defense mechanisms of flowering plants PREQ 311 or permission of instructor 3 Lecture, 3 Lab

417 Biochemistry.(3)
The metabolism of carbohydrates, lipids, nucleic acids, and proteins in plant and animal systems PREQ 232, 242, 311 and CHEM 242, 271, or permission of instructor

419 Cell Biology.(4)
Structure and function, techniques for the study of cells PREQ 311 3 Lecture, 3 Lab

421 Comparative Physiology.(4)
Vertebrate and invertebrate systems, nutrition, metabolism, respiration, circulation, excretion, reproduction, humoral and nervous integration PREQ 232,242, 311, or permission of instructor 3 Lecture, 3 Lab

434 Terrestrial Ecology.(4)
Population, ecosystem, community structure, and dynamics, major North American biomes, field and descriptive methods, required weekend field trips PREQ 232, 242, 311 2 Lecture, 6 Lab/field

435 Aquatic Ecology.(4)
Biological, physical, and chemical components and processes in lakes and streams, field studies of local lakes and their biota. PREQ 232 2 Lecture, 6 Lab

443 Evolutionary Processes.(3)
The mechanisms of evolution, emphasis on current research and hypotheses such as group and kin selection, r and K selection, and sympatric speciation PREQ 232, 242, 311

451 Biology of Fungi.(4)
Slime molds and true fungi, life histories, morphology, host-parasite relationship, fine structure, and phylogeny PREQ 130

452 Plant Anatomy.(4)
Plant cells, tissue organization in phylogenetic perspective, botanical microtechniques PREQ 130 3 Lecture, 3 Lab

453 Principles of Systematics.(4)
Identification, characterization, and classification of organisms, use of evidence from many biologic disciplines, plant or animal field studies PREQ 232, 242, 311 3 Lecture, 3 Lab

455 Vascular Plants.(4)
Biology of higher plants, club and small club mosses, quill worts, scouring rushes, ferns, gymnosperms, and angiosperms in living and fossil form PREQ 232, 242, 311 3 Lecture, 3 Lab

457 Biology of Algae.(4)
Life history, structure, reproduction, and phylogeny of the algae PREQ 130 3 Lecture, 3 Lab

467 Biostatistics.(3)
Statistical concepts and methods for biologists, especially students planning research problems 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)
Morphology, physiology, life histories, behavior, ecology, and systematics of arthropods, field emphasis on insects or arachnids PREQ 131 2 Lecture, 6 Lab

471 Animal Behavior.(4)
Mechanisms, development, functional significance, and behavioral evolution from viewpoint of ethology, neurophysiology, and experimental psychology PREQ 131 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 311, 232, 242 3 Lecture, 3 Lab

478 Histology.(4)
Vertebrate microscopic anatomy, emphasis on mammals, study of microscopic slides PREQ 131 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

498 Senior Thesis I.(2)
Directed research conducted in the first semester of the senior year Preliminary oral reports required of all students seeking B S or B S Ed. degrees in Biology

499 Senior Thesis II.(1)
Senior thesis and oral presentation following completion of directed undergraduate research Required of all students seeking B S degree in Biology 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)
521 Comparative Physiology (4)
534 Terrestrial Ecology (4)
535 Aquatic Ecology (4)
543 Evolutionary Processes (3)
551 Biology of Fungi.(4)
552 Plant Anatomy (4)
553 Principles of Systematics (4)
555 Vascular Plants (4)
557 Biology of Algae.(4)
567 Biostatistics (3)
570 Biology of Arthropods (4)
571 Animal Behavior (4)
575 Animal Development.(4)
578 Histology (4)
593 Advanced Studies in Biology (1-6,R12)
611 Biomembranes (3)
612 Biology of Secondary Compounds (3)
613 Molecular Biology (3)
614 Biology of Secondary Compounds Laboratory (2)
622 Virology (3)
632 Biogeography (3)
642 Developmental Genetics (3)
672 Ichthyology (4)
678 Colloquium in Invertebrate Biology (3)
693 Topics in Biology (1-6,R12)
694
699 Thesis Research.(3,R6)

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

304 Business Communications in a Multicultural Environment. (3)
Analysis of the multicultural workforce and its impact on the communicating process Studies of effective leadership styles, protocols and negotiating skills will be examined through case studies, debates and current research

404 Strategic Management.(3)
Capstone course integrating all aspects of the business core curriculum using case method, term projects, and/or computer simulations PREQ All other business core courses

Graduate Courses

500 Accounting for Management Analysis (3)
505 Economics and Public Policy (2-3,R5)
510 Information Systems and Statistical Methods (2,R4)
515 Management, Marketing, and Legal Issues (2,R6)
589 Cooperative Education Experience.(3)

Business Law (LAW)

101 (321) Legal Thought, Reasoning, and Implications.(3)
Analysis, synthesis, and integration of law and the contemporary legal system through the study of the court's thinking, reasoning, and expression (F3)

205 (325) Legal Issues and Institutions.(3)
Social change through the legal environment, legal institutions in various cultures, impact on other social institutions, interpretation and analysis of interrelationships (Plb)

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

302 Contemporary Legal Problems.(3)
Relationship of law to the structure of society, study of prominent court decisions reflecting changes dictated by societal movements, civil litigation

303 Consumer Protection.(3)
General products liability laws, federal and state legislation, consumer credit and reporting

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; exports,

imports, and political and legal risks affecting direct investment, consideration of foreign sovereign immunity from legal process, international litigation and commercial arbitration PREQ Law 230 or permission of instructor

331 Business Transactions.(3)
Law of contracts, commercial paper; security interests in property, The Uniform Commercial Code

389 Cooperative Education in Business Law.(1 or 3, R15) See page 125

393 Topics in Business Law.(1-3, R6)

403 Property and Estates.(3)
Legal aspects of buying and selling real estate, federal and state taxation, estate planning and administration.

405 Rights of the Individual.(3)
Philosophical and historical aspects of individual rights, interpretation of constitutional provisions as applied by courts in public, private, and business situations

410 Witnesses and Evidence.(3)
Persuasion, evidence, and presumptions, introduction and exclusion of evidence, examination, opinions, and competency of witnesses, testimonial and constitutional privileges, pre-trial communications, real, scientific, and hearsay evidence

415 Legal Aspects of Business Management.(3)
Comprehensive study of legal considerations in developing and managing a business

420 CPA Law Review.(3)
Intensive study to prepare for the CPA examination

440 Labor Law.(3)
Legal aspects of industrial relations, arbitration, bargaining, strikes, and labor practices, mediation and conciliation of employment disputes

480 Independent Research in Business Law.(3)
PREQ Business law major, permission of department head

483 Internship in Business Law.(3,3,3)
484 Supervised experience in applications of previously studied
485 theory S/U grading PREQ Junior standing, 2 0 GPA, permission of department head Mimum of 10 hours per week

Graduate Courses
630 International Law (3)
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 Lab fee charged 3 Lecture, 2 Lab (optional) (P2)

132 Introductory Chemistry.(4)
Fundamentals of chemistry for majors in fields requiring no more than one year of chemistry Lab fee charged 3 Lecture, 3 Lab

133 Survey of Organic and Biochemistry.(4)
Survey of the major functional classes of compounds in organic and biochemistry, including structure and nomenclature, chemical and physical properties, and common uses Lab fee charged PREQ 132 or 135 3 Lecture, 3 Lab

135 General Chemistry.(4,4)
136 Basic chemistry for science majors, atomic structure, chemical bonding, stoichiometry, chemical equilibrium, lab introduction to experimentation Lab fee charged PREQ MATH 100 or pass Algebra Skills Test 3 Lecture, 3 Lab

183 Special Projects.(3,3)
184 Intensive short courses or extended projects for special students PREQ One semester of high school chemistry 9 Lab

241 Organic Chemistry I.(3)
Aliphatic and aromatic compounds of carbon, relationships between structure and reactivity PREQ 136

242 Organic Chemistry II.(3)
Continuation of 241, introductory theory of instrumentation and applications of spectral methods in structure determination PREQ 241

271 Chemical Techniques.(2)
Techniques used in the isolation, purification, and identification of the products of single-step chemical syntheses Lab fee charged PREQ or COREQ 241 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 136

330 Aquatic Chemistry.(3) (formerly 431)
Processes in the distribution, consumption, and circulation of water PREQ 136, and permission of instructor 2 Lecture, 3 Lab

331 Instrumental Analysis.(3)
Electroanalytical chemistry, emission methods, refractometry, interferometry, atomic absorption spectrophotometry, polarimetry, thermoanalysis, x-ray methods and process, automatic instrumentation PREQ 370

352 Physical Chemistry I. (3)
Introduction to chemical thermodynamics and kinetics PREQ 242, MATH 140 or 153 (Formerly 452)

361 (BIOL 361) Principles of Biochemistry.(3)
Structures and properties of biomolecules, central principles of metabolism PREQ 242

370 Analytical Spectroscopy and Chromatography.(3)
Introduction to extraction, TLC, CC, GC, HPLC, AES, AAS, UV, visible, and IR methods Lab fee charged PREQ 271 1 Lecture, 6 Lab

371 Chemical Dynamics.(2)
Measurements and data treatment of the dynamics (e g , kinetics, thermodynamics) of chemical systems Lab fee charged PREQ 370 6 Lab

372 Chemical Syntheses.(2)
Multistep synthesis of inorganic and organic compounds Lab fee charged 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 page 125

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, selected topics emphasizing relationships between structure and properties PREQ 370

451 Biophysical Chemistry.(4)
Applications of the principles and techniques of physical chemistry to the study of biochemical systems PREQ 271, MATH 140

453 Physical Chemistry II. (3)
Quantum mechanics, introduction to molecular spectroscopy, applications of thermodynamics PREQ. 352, MATH 255 and PHYS 230

454 Computer Interfacing.(3)
Digital logic, computer design, interfacing with labcratory instruments PREQ Permission of instructor 2 Lecture, 3 Lab

483 Science Internship.(3,3,3)
484 Application of academic training in an approved agency under faculty supervision
485 PREQ Junior standing, 18 hours of chemistry, permission of department head 10 hours per week per course

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

541 Advanced Organic Chemistry (3)
542 Introduction to Organic Polymers (3)
551 Biophysical Chemistry (4)
553 Physical Chemistry II.(3)
554 Computer Interfacing (3)
593 Topics in Chemistry (1-3,R6)
595 Seminar in Chemistry (1,R4)
601 Graduate Survey of Inorganic Chemistry (2)
602 Graduate Survey of Analytical Chemistry (2)
603 Graduate Survey of Organic Chemistry (2)
604 Graduate Survey of Physical Chemistry (2)
691 Topics in Chemical Education (1-3,R9)
692 Topics in Inorganic Chemistry (2,R6)
693 Topics in Analytical Chemistry (2,R6)
694 Topics in Organic Chemistry (2,R6)
695 Topics in Physical Chemistry (2,R6)
699 Thesis (3,R9)

Cherokee (CHER)

131 Elementary Cherokee I.(3)
Audio-lingual practice of basic structures, subjective, objective, and transitive pronominals, present and imperfective verb forms, uses of the distributive infinitives

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 131

231 Intermediate Cherokee I.(3)
Review and continuation of oral and written grammar, selected readings, 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, readings in specialized areas PREQ 231

351 Phonetics and General Linguistics.(3)
Introduction to linguistics, the Cherokee sound system from a phonetic and allophonic view, grammatical categories, morphology, syntax PREQ Permission of instructor

Child Development & Family Relations (CDFR)

261 Dynamics of Marriage and Family Living.(3)
Interpersonal relations, dynamics of love, courtship, marriage, and parenthood

361 The Child Development Center Environment.(3)
The physical, emotional, and social environment suitable for young children, room arrangement, scheduling, space utilization, and teacher-child interaction.

362 Methods for Child Development Centers.(3)
Curricular materials in programs for younger children, techniques for implementation and daily planning PREQ 361, 363 2 Lecture, 3 Lab

363 Child Development.(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

389 Cooperative Education in Child Development. (1 or 3,R15) See page 125

463 Infancy.(3)
Activities and materials that promote infant development during the first 24 months, dynamics of infant-teacher and infant-parent interaction emphasized

464 Parent Involvement.(2)
Methods for involving parents in their child's development at home and in school, includes current parenting programs and historical aspects of parent involvement. PREQ 363 COREQ 361

465 Day Care Management.(3)
Organization and administration of programs in child development and day care centers

466 Child Development Methods II.(3)
Methods, materials and experience in the Child Development Center PREQ 362, 463 COREQ 464 1 Lecture, 6 Lab

467 Parent Education.(3)
Effective child-rearing skills, review of current theories, research, and model parenting programs

468 Families: Organization and Function.(3)
Family organization and function, the family life cycle and areas of adjustment. PREQ 261 or permission of instructor

469 Family Gerontology.(3)
Study of older family members their relationships, development, life adjustments and sources of assistance PREQ 364 or permission of instructor

480 Independent Study. (1-3,R6). PREQ Permission of instructor

483 Internship.(3,3,3)
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

496 Seminar in Child Development.(1)
Consideration of current research, emphasis on personal and career development PREQ 261, 361, 363

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

Chinese (CHIN)

131 Beginning Chinese I, II.(3,3)
132 Elements of understanding, speaking, reading, and writing Chinese, concepts of grammar; lab practice required. 3 Lecture, 1 Lab

Clinical Laboratory Sciences (HSMT) (formerly Medical Technology)

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, blood collection and specimen handling PREQ Admission to Med Tech 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 MT 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, coagulation. PREQ Admission to Med Tech 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 MT. 1 Lecture, 3 Lab

306 Immunohematology.(4)
The study of blood component therapy PREQ 303, 304, Med Tech major 2 Lecture, 4 Lab

307 Medical Mycology.(2)
Superficial and systemic mycological diseases, methods of isolation and identification PREQ Junior standing in MT 1 Lecture, 3 Lab

308 Advanced Hematology.(3)
Hematological states involving classification of anemias, leukemias, enzyme deficiencies, platelet anomalies, and coagulation disorders PREQ 303 2 Lecture, 3 Lab

309 Clinical Biochemistry.(3)
Clinical parameters measuring the biochemical makeup of body fluids, results of lab tests related to disease states PREQ CHEM 361 2 Lecture, 3 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

389 Cooperative Education in Medical Technology.(1 or 3,R12)
PREQ: HSCC 389 See page 125

406 Laboratory Management.(2)
Organization and administration of the clinical laboratory PREQ Med Tech major 1 Lecture, 2 Lab

480 Independent Study.(1-2)
PREQ Permission of instructor

485 Clinical Practicum in Urinalysis.(2)
PREQ 301 6 Clinic

486 Clinical Practicum in Hematology.(3-5)
PREQ 308 9-15 Clinic

487 Clinical Practicum in Blood Banking and Serology.(3-5)
PREQ 306. 9-15 Clinic

488 Clinical Practicum in Microbiology.(3-5)
PREQ 302,305,307 9-15 Clinic

489 Clinical Practicum in Clinical Chemistry. (3-5)
PREQ 309 9-15 Clinic

Clothing, Textiles, and Merchandising (CTM)

140 Fashion Analysis.(3)
The aesthetic, functional and economic aspects of fashion apparel creation and selection.

141 Clothing Selection and Construction.(3)
Principles and techniques, fitting, altering, and constructing commercial patterns 2 Lecture, 3 Lab

242 Textiles.(3)
Construction, properties, recommended uses and care of fibers, yarns, and fabrics, applications to consumer purchasing and use of clothing and household textiles

245 Dynamics of the Fashion Industry.(3)
Comprehensive survey of the scope and operation of the fashion industry

246 Fashion Buying and Merchandising.(3)
Fundamentals for the successful merchandising of fashion goods PREQ 245 or permission of instructor

340 Fashion in Retrospect.(3)
Aesthetic, social, political, and economic influences on the development of apparel, application of design principles to modern fashion PREQ 140 or permission of instructor

343 Tailoring.(3)
Selection of patterns and fabrics, fitting commercial patterns, 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, 141, 242 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 MATH 101 or equivalent, ACCT 161 or 251

347 Fashion Promotion.(3)
Methods of promoting fashion merchandise and their interpresentation of a fashion story PREQ 246 or permission of instructor

389 Cooperative Education. (1 or 3, R15). See page 125

441 Textile and Apparel Economics.(3)
Economic and social aspects of textile and apparel production, distribution, and use PREQ 140, 242, ECON 130

443 Cultural Aspects of Clothing.(3)
Cultural factors influencing clothing habits of individuals and groups as related to their environment

445 Apparel and Home Furnishings Product Analysis.(3)
Value analysis of the compositions of fashion and home furnishing products PREQ: 242, 246 or permission of instructor

446 Principles and Techniques of Fashion Retailing.(3)
Case study approach to the operation and management of fashion business enterprises PREQ: 346, 347 and MKT 302, 304, 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

Graduate Courses
545 Current Topics in Clothing and Textiles (3) 546 Principles and Techniques of Fashion Retailing.(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.

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 270 or permission of instructor

370 Phonetics.(3)
Study of sound feature production, phonetic transcription.

371 Articulation Disorders.(3)
The etiology, diagnosis, and treatment of articulation and phonological disorders PREQ 270 and 370 or permission of instructor

372 Speech Science.(3)
Principles and concepts in speech production and perception, techniques for acoustic analysis PREQ 370 or permission of instructor.

450 Introduction to Audiology.(3)
Fundamentals of audiology, the physics of sound and its measurement, aural anatomy, physiology, etiology, and pathology

471 Anatomy and Physiology of the Speech Mechanism.(3)
Study of the anatomic structures involved in speech and their function in the speech process

476 Language Disorders in Children.(3)
Analysis of childhood language disorders; evaluation and implementation of treatment approaches PREQ 301 or permission of instructor

478 Fluency Disorders.(3)
Theory, diagnosis, and treatment of fluency disorders in children and adults

485 Clinical Practicum in Communication Disorders.(1,R2)
Supervised evaluation and intervention with articulation-disordered clients PREQ: 370 1 Lecture, 2 Clinic

490 Supervised Student Internship.(6)
School-based clinical experience under university supervision, includes preschool placements PREQ Admission to professional sequence, PSY 320, 321, EDCI 231 COREQ EDCD 495

494 Topics in Communication Disorders.(1-3,R6)

495 Seminar in School Practice.(3)
Theory, policy, and procedures related to school-based practice PREQ EDCI 231, EDCD 485, PSY 320, 321

Graduate Courses
572 Aural Rehabilitation (3)
574 Voice and Organic Disorders of Speech (3)
576 Language Disorders in Children (3)
578 Fluency Disorders (3)
594 Topics in Communication Disorders (1-3,R6)
595 Seminar in School Practice. (3)
650 Clinical Audiology (3)
655 Pediatric Audiology (3)
660 Psychology of the Hearing Impaired.(3)
661 Private Practice Design and Operation (3)
672 Language Disorders in Adults (3)
674 Diagnostics (3)
675 Management of Communication Disorders (3)
676 Management of Orofacial Anomalies (3)
678 Augmentative Communication Systems (3)
679 Language Assessment and Intervention.(3)
680 Communication Problems of the Aging.(3)
682 Research in Communication Disorders (3)
683 Internship in Communication Disorders (1-3,R9)
695 Seminar in Articulation.(3)
696 Seminar in Language.(3)
697 Seminar in Fluency (3)
698 Seminar in Voice.(3)
699 Thesis (3,R6)

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 spread sheets, word processors and data base systems

256 Business Computer Programming I.(3)
Application of programming principles in business, flowcharting, coding, documentation, and testing, computer architecture and data representation PREQ 251 or a math course PREQ or COREQ for business majors 251

258 Commercial Programming.(3)
Theory and application of languages typical in commercial installations, including ANS, COBOL, RPG PREQ 251

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, data base managers and graphics systems

352 Computer Organization and Programming.(3)
Organization and architecture of modern computer systems, binary, octal, and hexadecimal representation of instructions and data, machine language, assembler, absolute and relative addressing PREQ 251

355 Advanced Programming.(3)
Advanced debugging techniques, multi-file processing, programming efficiencies, variable length record processing, development and maintenance of large programming systems PREQ 258, 352

389 Cooperative Education in Information Systems.(1 or 3,R15) See page 125

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

452 Computer Information Systems Analysis.(3)
Commercial files and programming systems, system implementation and file protection; economic and behavioral impact of an information system PREQ 251 or 258

453 (CS 453) Data Base Systems.(3)
Data base creation, maintenance, deletion, and updating, complex problem solving in commercial data file systems PREQ 355 or equivalent

462 Operating Systems and Programming.(3)
Modern systems, software, utility programs, packages, and user-prepared routines PREQ· 352 or equivalent.

463 Software Design.(3)
Software on various vendor configurations, writing software for efficiency PREQ 355 or equivalent

464 Data Base Design.(3)
State-of-the-art techniques for large data base systems PREQ 453

465 Data Processing Management.(3)
Management of data processing centers, supervision, security, procurement PREQ Permission of instructor

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
485 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 Data Base Management (3)
682 Research Project.(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, data-base management, and graphics (F4)

141 BASIC Programming.(2)
Introduction to BASIC programming, a structured approach to include graphics, arrays, subroutines and files

150 Computer Programming I.(3)
Algorithm development integrated with a high level language, introduction to top-down design, structured programming, style, and documentation, applications. PREQ MATH 130 or equivalent 2 Lecture, 2 Lab

151 Computer Programming II.(3)
Program style, expression, and documentation, structured programming concepts, top-down design, debugging and testing, especially of large programs PREQ 150 and MATH 130 or 146 or equivalent.

240 Scientific Programming.(3)
Scientific computer programming in FORTRAN Not open to students with credit in CS 300 or 301 FORTRAN language PREQ MATH 146

250 Introduction to Computer Systems.(3)
Computer structure, number representation and arithmetic, machine language, assembly language, addressing techniques, macros PREQ 151

251 Introduction to Computer Organization.(3)
Basic digital logic, architecture, and organization of a modern microcomputer; assembly language, addressing techniques, macros PREQ 250 or permission of instructor

301 High Level Languages.(3,R9)
ADA, C, PROLOG, LISP, or other high-level languages approved by the department head Can be repeated for credit with different languages 301 FORTRAN language not open to students with credit in CS 240 Elective credit for CS majors restricted to 3 hours

303 Digital Logic.(3)
Combinational and sequential logic, Boolean algebra, TTL and MOS logic devices, microprocessors PREQ PHYS 231 2 Lecture, 2 Lab

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

351 Data Structures and Algorithm Analysis.(3)
Primitive data representation, static and dynamic information storage to include arrays, trees, graphs, stacks, and queues, sorting and searching PREQ 151

352 Organization of Programming Languages.(3)
Language processors, data and data control, operations, sequence control, storage management, operating environment, syntax and translation PREQ 250

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 240

362 Files and Data Structures.(3)
File structures, including sequential, direct, and keyed organization, sorting, merging, and searching of information structures PREQ 351

389 Cooperative Education in Computing.(1 or 3,R15) See page 125

393 Topics in Computer Science.(1-3,R6)
PREQ Permission of department head

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)
Algorithm analysis, combinatories, sorting and searching, polynomials, string matching, matrix operations, and numerical analysis PREQ 351

452 Computer Organization. (3)
Digital logic and basic structure of computers, addressing methods, instruction sets, microprogrammed control, I/O organization, arithmetic, memory, peripherals, software, computer communications PREQ 251

453 (CIS 453) Data Base Systems. (3)
PREQ 252 or equivalent.

455 Computer Design.(3)
Arithmetic unit, control unit, memory hierarchy, pipelining, load balancing, parallel computing using various topologies PREQ 251

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)
Computer organization and advanced programming, macro instruction language, linking high level and assembly language, assemblers, linkers, and loaders PREQ 250 or permission of instructor.

463 Software Engineering.(3)
Software development methodologies in very large programming tasks, object oriented design; information hiding, concurrent processing PREQ 250, 362

464 Microcomputer Development.(3)
Software and hardware development and interfacing for dedicated microcomputer applications. PREQ. 251 or PHYS 302 or IET 371 2 Lecture, 2 Lab

465 Data Communications and Networks.(3)
Communications systems components, error-detection and correction, network protocols. PREQ. 303, 351.

470 Operating Systems.(3)
Major components, memory management, processors, devices, data, characteristics and sharing of devices, files organization, spooling PREQ 250, 351 or 462

480 Artificial Intelligence.(3)
Machine intelligence, problem reduction, state space search, game trees, expert systems, resolution principle, introduction to LISP. PREQ 351

493 Topics in Computer Science.(1-6, R6)

Graduate Courses

552 Computer Organization.(3)
555 Computer Design.(3)
560 Compiler Construction II (3)
564 Microcomputer Development.(3)
565 Data Communications and Networks (3)
580 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)

130 Career Opportunities and Decisions.(1)
Educational and vocational decision-making, use of standardized tests to evaluate interests and aptitudes, investigation of WCU's offerings and opportunities

140 Study Techniques for College.(1)
Study techniques and skills; motivation for learning, use of the library, reading improvement laboratory 1 Lecture, 1 Lab

150 Understanding Self and Interpersonal Relations.(1)
Study of one's self, qualities and relationships important to successful personal and interpersonal functioning, participation stressed

430 Individual and Group Counseling.(3)
Principles and techniques of individual and group counseling, communication techniques; 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

605 The Helping Relationship.(3)
610 Marriage and Family Counseling.(3)
615 Multicultural Counseling.(3)
620 Counseling Children.(3)
623 Introduction to Community Agency Counseling (3)
630 Theories of Individual Counseling.(3)
633 Crisis Intervention Counseling.(3)
635 Group Methods in Counseling.(3)
640 Measurement and Appraisal in Counseling (3)
645 Consultation.(3)
650 Career Development.(3)
655 Career Counseling (3)
660 Organization of School Counseling Services (3)
661 Organization of Student Personnel Services (3)
670 Research in Counseling.(3)
680 Independent Study in Counseling (3)
683 Field Experience Student Development.(3)
684 Internship in Counseling.(3,R6)
686 Practicum in Counseling.(3)
693 Problems in Counseling.(3)
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)

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

252 The Communication Process in Criminal Justice.(3)
Interpersonal skills in communication stressing on-the-job skills to improve professional interaction. PREQ 250

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 The Judicial Process.(3)
State and federal court systems, criminal judicial process; 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 Criminal Justice Planning.(3)
Planning as a process of criminal justice decision-making using contemporary methods and techniques. PREQ 252

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 page 125 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 Legal Aspects of Law Enforcement 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 Probation and Parole.(3)
Development, organization, operation, and results of probation and parole systems as substitutes for incarceration

425 Police Tactical Theory.(3)
Theories related to the development of police policy concerning appropriate responses to dangerous and potentially lethal confrontations

430 Criminal Evidence.(3)
Examination of the rules of evidence and courtroom procedures in criminal trials

440 Organized Crime.(3)
Examination of traditional and emerging organized crime groups and their impact on society and the criminal justice field.

454 Comparative Criminal Justice Systems.(3)
Law enforcement and correctional and court subsystems in the Western world today

460 Drug Abuse.(3)
An examination of drugs of abuse and the evolution of drug laws, law enforcement and correctional responses for drug offenders

480 Independent Study in Criminal Justice.(1-3,R6)

482 Senior Directed Research.(3)
Directed research/independent study in criminal justice PREQ 352

483 Internship in Criminal Justice.(3-12,R12)
Supervised applications of academic study in a practical criminal justice setting S/U grading Credit not given for both 389 and 483 PREQ Junior standing, permission of department head 3 hours per credit hour

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)
580 Reading and Research in Education.(3)
595 Seminar in International Understanding (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)
684 Practicum in Curriculum and Instruction,Public School. (1-3)
693 Topics in Education (1,R3)
699 Thesis (4)
700 Philosophy of Education.(1,1)
702 Research Seminar in Curriculum (3)
784 Advanced Practicum in Curriculum and Instruction Public School.(1-3)

Earth Sciences (ESI)

471 Field Studies of Selected Regions .(3,R6)
Interdisciplinary group project on a designed region, a two-week field trip following spring final exams. Cost to be determined. PREQ Junior standing, GEOL 150 or GEOG 150, and permission of instructor

Economics (ECON)

103 (311) Economics of Comparative Cultures.(3)
Analysis of the effects of differing institutions and values in various cultural systems on the level of output or per capita income, including ownership of the means of production, economic activities and incentives, and price-making forces (P4)

104 (312) Contemporary Economic Institutions.(3)
Examination of changes in Western economic institutions, interrelationships of economic, social, and political changes, impact of changes on decision-making, economic policy options, and current issues (P1b)

108 (313) The Perfect Society.(3)
The application of skills in thinking, reasoning, and expressing through the exercise of developing a "Perfect Society "(F3)

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 Economic 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 page 125

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

410 Small Business Consulting Clinic.(3)
Experience in identifying, analyzing, and solving problems of setting up and operating small businesses PREQ FIN 409

480 Independent Research.(3)
PREQ Permission of department head

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.(3,R6)
693 Topics in Economics (3,R6)

Education and Psychology (EDPY)

493 Topics in Education and Psychology.(1-3,R6)

Graduate Courses
591 Topics in Education and Psychology (1,R3)
592 Topics in Education and Psychology (2,R6)
593 Topics in Education and Psychology (3,R6)
691 Topics in Education and Psychology (1,R3)
692 Topics in Education and Psychology (2,R6)
693 Topics in Education and Psychology (3,R6)
793 Topics in Education and Psychology (3,R12)

Educational Administration (EDAD)

Graduate Courses
600 Theory and Foundations of School Administration (3)
610 The Principalship (3)
630 School Finance and Business Management.(3)
640 School Plant Planning and Management.(2)
650 School Personnel Administration.(3)
660 School-Community Relations (2)
680 Problems in School Administration.(1,R3)
681 Independent Study (1)
684 Elementary Principal Internship (1)
685 Secondary Principal Internship (1)
693 Topics in Administration.(1,R3)
695 Seminar in the Principalship (2)
700 The Superintendency (3)
710 (EDHE 710) Administration of Two-Year Colleges (2)
720 The Politics of Educational Decision-Making (3)
783 Internship in School Administration.(2)
795 Seminar in School Administration.(2)

Educational Media (EDEM)

Graduate Courses
503 Teaching Effective Use of the Media Center (3)
505 Audiovisual Education.(3)
510 Children's and Adolescent Literature.(3)
511 Classification and Cataloging of Media (3)
512 Reference and Curricular Materials (3)
520 Preparation of Projected Materials (3)
521 AV Equipment Management and Maintenance.(3)
522 Instructional Photography (3)
530 Radio Broadcasting (3)
531 Instructional Television (3)
580 Individual Study and Research (3)
590 Topics in Media (1,R3)
593 Studies in Media (1,1,1)
594
595
600 Instructional Design.(3)
620 Media Program Organization and Administration.(3)
630 Motion Media Film and Television.(3)
631 Multimedia Production.(3)
686 Practicum in Media Program Management.(3)
696 Seminar in Communication Media (3)

Educational Supervision (EDSU)

Graduate Courses
605 Principles of Supervision (3)
615 Techniques of Supervision (3)
620 School-Based Instructional Leadership (3)
635 Supervision of the Novice Teacher (3)
680 Problems in Supervision (1,R3)
685 Internship in Supervision (2)
693 Topics in Supervision (1,R3)
705 Leadership for Educational Programs (3)
785 Internship in Supervision (2)
795 Seminar in Supervision (2)

Electronic Engineering Technology (EET)

201 Circuit Analysis I.(4)
Introduction to fundamental electrical and electromagnetic theory with laboratory confirmation of mathematical solutions involving DC circuits PREQ MATH 145, 146 COREQ MATH 153 3 Lecture, 2 Lab.

202 Circuit Analysis II.(4)
Continuation of 201 with AC circuits PREQ 201 COREQ MATH 255 3 Lecture, 2 Lab

311 Solid State Devices.(4)
Theory of discrete semiconductor devices and their applications PREQ 201, 202 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

321 Digital Integrated Circuits I.(4)
Study of combinational and sequential digital circuits using integrated circuit techniques. PREQ. 201. 3 Lecture, 2 Lab.

322 Digital Integrated Circuits II.(4)
Continuation of 321 including the study of digital system organization and design. PREQ 321. 3 Lecture, 2 Lab

341 Advanced Circuit Analysis.(3)
Study of linear systems; introduction to digital signal processing PREQ 202, MATH 153 COREQ: MATH 255.

431 Microprocessor Fundamentals.(4)
Study of microprocessor fundamentals including integrated circuit architecture, instruction sets and machine assembly language programming PREQ 321 3 Lecture, 2 Lab

432 Microprocessor Applications.(4)
Continuation of 431 including the study of interfacing of microprocessor and integrated circuits into complex systems PREQ 431 or equivalent. 3 Lecture, 2 Lab

451 Control Systems.(3)
Fundamental principles of control theory and instrumentation with particular applications in manufacturing processes PREQ 312, 321.

462 Communication Systems.(3)
A study of information transmission and modulation systems Includes both analog and digital techniques used in radio and data communications PREQ 312, 321

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

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

390 Practicum I, II.(1-2)
391 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

476 Discipline and Classsroom Control.(2)
Methods, techniques, and theories of classroom control, emphasis on Glasser, Assertive Discipline, T E T , T A , and behavior modification. COREQ 490,495

486 Field Experience in Teaching.(3,R6)
Supervised experience for a second teaching certification or for an initial certification for individuals who are employed as full-time teachers 9 hours per week

490 Supervised Student Teaching.(9)
A full-time internship under university supervision COREQ 495

495 Seminar for Student Teachers.(3)
Theory related to practice during student teaching COREQ 490

Graduate Courses

565 Teaching the Child in Crisis (3)
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)
609 Logo for Teachers (3)
614 Issues and Trends in Early Childhood Education.(3)
616 Issues and Trends in Intermediate Education (3)
618 Curriculum for Middle Grades Education (3)
620 Philosophy and Mission of Middle Grades Education.(3)
622 Teaching-Learning Strategies for the Middle Grades (3)
653 Advanced Children's Literature (3)
664 Kindergarten Administration and Supervision (3)
666 Projects in Educational Computing.(3)
670 Practicum in Elementary Education (1-3)
671 Instructional Leadership in Elementary Schools (3)
675 Workshop in Elementary Education (3)
680 Independent Study (1-3,R6)
695 Seminar in Elementary Education.(3)
701 Seminar in Elementary School Curriculum (3)
714 Programs in Early Childhood Education.(3)
716 Programs for the Intermediate Grades (3)
718 Philosophy and Curriculum for Middle Schools (3)
770 Advanced Practicum (3,R6)
782 Research in Elementary Education.(3)

Emergency Medical Care (EMC)

340 Fundamentals of Advanced Life Support.(3)
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.(3)
Electrocardiography, interpretation and treatment of cardiac arrhythmias, pathophysiology, assessment, and treatment of cardiac emergencies PREQ 340 or permission of instructor.

360 Acute Respiratory and Fluid Disorders.(3)
Pathophysiology; assessment and treatment of respiratory emergencies, fluid and electrolyte balance and imbalance, manifestations of shock, techniques of IV therapy, MAST, EOA, and endotracheal intubation PREQ 340, HSCC 370 2 Lecture, 2 Lab

370 Medical Emergencies.(3)
Assessment and management of central nervous system disorders, diabetic emergencies, exposure to environmental extremes, substance abuse, poisoning, acute abdomen and genito-urinary problems PREQ 340 and HSCC 370 or permission of program director

382 Clinical Practicum I.(1)
Experience to develop patient assessment skills PREQ 340 or permission of program director 4 Lab

389 Cooperative Education in EMC.(1 or 3,R12)
PREQ. HSCC 389. See also page 125.

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

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.(4)
Experience to develop clinical competency in advanced life support assessment and skills PREQ 350, 360, 370, 122 Lab.

484 Clinical Practicum III.(3)
Advanced clinical rotations in a hospital setting PREQ 410, 420, 483, PSY 460 9 Lab

485 MICU Practicum.(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 provided or regulator PREQ EMC major and permission of program director 5 weeks, full time

496 Emergency Medical Care Seminar.(1)
Trends and issues in emergency medical services

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

130 Intensive English I, II, III, IV.(3,3,3,3)
131 Speaking, listening, reading, writing, and grammar for non-native speakers, study of
132 American culture. 130-131 or 132-133 may be scheduled concurrently during a regular
133 semester. PREQ Permission of instructor. 2 Lecture, 2 Lab, 2 Drill

136 Basic English for Non-Native Speakers.(3)
Composition, reading, listening, and speaking for non-native speakers PREQ English placement test

201 Literary Landmarks in Western Culture.(3)
Systematic study of the human attitudes of classicism, romanticism, and realism, their causes, effects, and expression in Western culture as reflected in major literary works (P5)

203 Major American Writers.(3)
Selections from the works of Franklin, Poe, Thoreau, Melville, Hawthorne, Whitman, Dickinson, Twain, Fitzgerald, Frost, Hemingway, Faulkner, and others (P3a)

204 Cultures in Contact and Collision.(3)
Examination of what happens when differing cultures meet or converge as reflected in literature, written and on film, literature as a key to better understanding of cultures differing markedly from our own (P4)

251 Survey of English Literature I.(3)
Major periods of English literature from the beginnings through the 18th Century, emphasizing backgrounds and styles characteristic of each period PREQ 102

252 Survey of English Literature II.(3)
Major periods of English literature from the 19th Century through the present, emphasizing backgrounds and styles characteristic of each period PREQ 102

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 Writing and Editing.(3)
Survey of career opportunities, professional practices, technical devices in fiction and nonfiction, preparation of manuscripts, copyright law (Formerly 270)

305 Technical Writing.(3)
Organizing and writing technical instructions, specifications, definitions, descriptions, written analysis of data, summaries, and processes

306 Nonfiction Writing.(3)
Study and practice of technique and form in nonfiction writing, emphasis on magazine articles, interviews, profiles, reviews, and longer prose pieces, analysis of nonfiction markets and professional practices PREQ 303 or permission of instructor

307 Editing and Publishing Practices.(3)
Survey of customary practices, copy editing, layout, printing and other processes in magazine and book production.

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

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

330 Introduction to Literary Interpretation.(3)
Application of major critical approaches to the study of fiction, poetry, and drama

333 Introduction to Shakespeare.(3)
General survey of Shakespeare's life, times, and most popular plays, not applicable to English major

370 The Short Story.(3)
History and development of the short story in Western literature

389 Cooperative Education: Writing/Editing.(1 or 3,R15)
PREQ. 303 See page 125

400 Advanced Composition.(3)
Principles of rhetoric applied to written composition.

401 Writing for the Professions.(3)
Study and practice of technique and form in writing for business, industry, and the professions, organizing, drafting, and revising writing of all lengths

405 Advanced Creative Writing.(3)
Intensive study and practice of creative writing, emphasis on required individual projects PREQ Satisfactory writing sample and permission of instructor.

412 Modern English Structure.(3)
Application of linguistics to the study of English, comparison of approaches to the study of grammar.

414 Fundamentals of Teaching Composition.(3)
Contrastive analysis of teaching approaches the process, rhetorical, and linguistic/ stylistic approaches.

415 Linguistics.(3)
The world's languages, their sound systems, word systems, and sentence patterns; relationships to culture and the mind PREQ Permission of instructor

416 Teaching English as a Second Language.(3)
Current trends and strategies, measuring proficiency and progress, adapting instructional materials in content areas, aspects of American culture and language that affect language learning PREQ 415 or permission of instructor

420 Chaucer and his Age.(3)
Chaucer's major poetry, emphasis on *Troilus and Criseyde* and *The Canterbury Tales*, selected readings from the works of contemporaries

430 English Literature of the Renaissance.(3)
Representative Tudor and Jacobean prose and nondramatic poetry.

431 Shakespeare and his Age.(3)

440 Milton and his Age.(3)
Milton's major poems, selections from his prose, readings from works of contemporaries

441 The Age of Pope, Swift, and Johnson.(3)
Selections from the works of Pope, Swift, Johnson, and their contemporaries

450 Major British Writers.(3,R9)
Selected works of one or more important authors from a single historic period

451 Nineteenth Century British Writers.(3)
The poetry and fiction of the major Romantic and Victorian authors, including Wordsworth, Coleridge, Keats, Shelley, Tennyson, Browning, Arnold, Dickens

455 The English Novel.(3)
Selected 18th and 19th century novels of such writers as Defoe, Richardson, Fielding, Smollet, Austen, Scott, Dickens, Thackeray, and Hardy

460 American Writers Before 1918.(3)
The most significant American writers from Franklin through the writers prominent before 1918

470 Twentieth Century British and American Writers.(3)
The work of the most prominent novelists, playwrights, and poets from the early 20th century to the present

471 Modern Poetry.(3)

472 Modern Fiction.(3)

473 Modern Drama.(3)

475 The American Novel.(3)
Selected novels of major American writers

477 Literature and Gender.(3)
Study of literature by or about women, the relationship of men and women in literature, feminist issues from a literary perspective PREQ 102 and senior standing

478 Film as Literature.(3,R9)
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

479 Studies in British and American Literature.(3,R6)

480 Studies in English.(1-3,R-6)
Independent study/directed research in English. PREQ 102, permission of instructor and department head.

483 Writing Internship.(3,3,3)
484 Practical experience in a writing-related setting S/U grading PREQ 303 9 hours
485 per week per course

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 ESL.(3,R6)

496 Seminar in Comparative Literature.(3)

497 Senior Seminar in Writing.(3)
Individual writing emphasizing form, slant, and style, study of professional opportunities, portfolio and resume preparation PREQ 303 or permission of instructor

498 Senior Seminar in Literature.(3)
Study of a writer, genre, theme, or period in literature PREQ Junior standing

Graduate Courses
501 Writing for the Professions (3)
505 Advanced Creative Writing.(3)
512 Modern English Structure.(3)
514 Fundamentals of Teaching Composition (3)
515 Linguistics (3)
516 Teaching English as a Second Language.(3)
520 Chaucer and his Age.(3)
530 English Literature of the Renaissance.(3)
531 Shakespeare and his Age.(3)
540 Milton and his Age.(3)
541 The Age of Pope, Swift and Johnson (3)
550 Major British Writers (3)
551 Nineteenth Century British Writers (3)
555 The English Novel.(3)
560 American Writers before 1918 (3)
570 Twentieth Century British and American Writers (3)
571 Modern Poetry (3)
572 Modern Fiction.(3)
573 Modern Drama (3)
575 The American Novel.(3)
577 Literature and Gender (3)
580 Studies in English.(1-3, R6)
589 Cooperative Education Writing & Editing. (3,R6)
593 Topics in Creative Writing (1-3,R6)
594 Special Topics in ESL.(3,R6)
611 Writing Seminar for Teachers (3,R6)
621 English Literature to 1500 Exclusive of Chaucer (3)
631 Shakespeare.(3)
640 English Literature of the Enlightenment.(3)
651 The Major Romantics (3)
661 American Literature of the Romantic Period (3)
662 American Literature since 1855 (3)
691 Topics in English Linguistics (3,R6)
692 Studies in Renaissance Literature.(3)
693 Topics in Literary Criticism.(3,R6)
694 Topics in 17th and 18th Century Literature.(3,R6)
695 Studies in 19th Century British Literature.(3,R6)
696 Topics in American Literature.(3,R6)
697 Topics in Modern British/American Literature.(3,R6)
698 Studies in Rhetoric (1-3, R6)
699 Thesis (3,R6)

Environmental Health (HSEH)

230 Introduction to Environmental Health.(3)
Survey of the concept of community health as related to man's environment and the role of the environmental health specialist.

310 Water Supply and Waste Water Treatment.(4)
Sanitary techniques for collection, disposal, and management of water wastes, source, chemical, and bacteriological quality PREQ Environmental health major 3 Lecture, 2 Lab

312 Solid Waste Management.(2)
Sanitary techniques for management, collection, and disposal of solid wastes PREQ Environmental health major

320 Shelter Environment.(4)
Environmental and health concerns related to shelter, individual and mass units, generalized approach to construction, sanitation, energy control, and other facets PREQ Environmental health major 3 Lecture, 2 Lab

330 Food and Milk Control.(4)
Food-borne disease and regulation programs relative to sanitary inspection and control of food service and processing systems 3 Lecture, 2 Lab

386 Field Practicum in Environmental Health.(3)
Experience in an area studied during the junior year, written report required PREQ Environmental health major 9 weeks, full-time

389 Cooperative Education in Environmental Health.(1 or 3,R12)
PREQ. HSCC 389 See also page 125

430 Medical and Veterinary Entomology.(4)
Vectors responsible for arthropod-borne diseases of medical and veterinary importance PREQ Permission of instructor 2 Lecture, 4 Lab

440 Air Quality Control.(4)
Evaluating and monitoring air quality; effects of pollution control and lab procedures in air quality investigation. PREQ Environmental health major 3 Lecture, 2 Lab

450 Institutional Sanitation.(3)
Institutional sanitation systems, construction and design concepts, monitoring, and operation. PREQ Environmental health major or permission of instructor

455 Recreational Sanitation.(3)
Sanitation problems in recreational facilities, emphasis on swimming pool operation and other outdoor areas PREQ Environmental health major or permission of instructor

457 Industrial Hygiene.(3)
Health aspects of industry relative to the environmental factors of shelter, waste, and air PREQ. Environmental health major or permission of instructor

459 Occupational Health.(3)
Health problems in business and industrial environments, occupational disease and accident prevention PREQ Environmental health major or permission of instructor

460 Environmental Health Problems.(1)
Review of problems, their sources, and effects PREQ Permission of instructor 2 Lecture

470 Principles of Epidemiology.(3)
Principles and applications to investigation, control, and prevention of disease PREQ Environmental health major or permission of instructor

475 Environmental Program Administration.(3)
Intensive study of regulatory program administration, focus on development, implementation, and evaluation of programs in the governmental sector

480 Independent Study in Environmental Health.(1-2,R4)

483 Environmental Health Internship.(3)
Supervised experience in an approved clinical or environmental health facility PREQ Environmental health major or permission of instructor 9 weeks, full-time

Graduate Courses
570 Principles of Epidemiology (3)
575 Environmental Program Administration (3)
655 Hazardous Materials and Waste Management.(3)
675 Loss Control through Industrial Hygiene.(3)

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, 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 also page 125

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

406 Investment Strategies.(3)
Investments for individuals, institutions, and business, securities and securities markets PREQ 305

407 Multinational Business and Finance.(3)
Country risk, financing foreign trade, currencies, foreign exchange markets and controls, rates of exchange, investment and lending 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

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.(3,R6)
693 Topics in Finance.(3,R6)

Food Service Management (FSM)

130 Introduction to the Hospitality Industry.(2)
Survey of management specialties in the industry, emphasis on food systems administration; current trends and problems

231 Food Science.(4)
Scientific principles of food preparation, effect of preparation practices on food quality and nutrient retention, storage and preservation principles 3 Lecture, 3 Lab

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

389 Cooperative Education in FMS. (1 or 3,R15) See page 125

430 Food Systems Management I.(3)
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

432 Food Systems Management II.(3)
Functions of management applied to food service systems, emphasis on planning, marketing, personnel, cost control and computer applications PREQ 430

480 Independent Study in Food Service Management.(1-3,R6)
PREQ Permission of instructor

483 Internship.(3,3,3)
484 Integration of theory and practice in a setting appropriate to the student's career field
485 S/U grading PREQ Permission of instructor. 9 hours per week per course

Graduate Courses
532 Food Systems Management II (3)

Forestry (FOR)

131 Introduction to Forest Resources.(3)
The profession of forestry, its scope and opportunities, forest resource conservation and utilization, field exercises in forestry practices PREQ Preforestry major

French (FREN)

101 French Language and Culture.(3)
Elements of understanding, speaking, reading, and writing French, concepts of grammar; lab practice required.(P3a)

105 The French-Speaking World.(3)
Study of French culture and its relationship to the cultures of countries and regions where French is spoken (P4)

110 Intensive French I.(6)
Developing skills in understanding, speaking, reading, and writing, emphasis on oral aspects, Rassias Method Three hours credit only applicable to general education PREQ Permission of instructor 4 Lecture, 3 Lab, 5 Drill (P3a)

132 Elementary French.(3)
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

204 A Literary Perspective of French Civilization.(3)
Selected French literary masterpieces as a reflection of French civilization PREQ ENGL 102 (P5)

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 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

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)
332 The main literary movements, authors, and works since the 12th century, course division at the 18th century PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head

335 Introduction to French Prose and Poetry.(3)
Introduction to French literary texts, reading and analysis of literary works PREQ 232 or 240

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 page 125

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 (301) World Regional Geography.(3)
Major world regions and global problems, techniques of thinking geographically about human behavior (P1a)

103 (303) 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.

250 Economic Geography.(3)
Principles governing world distribution and production of economic and natural resources

300 Weather and Climate.(4)
Meteorology (temperature, humidity, pressure, precipitation, winds, radiation), global heat budget, CO_2 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 with 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 105 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

389 Cooperative Education in Geography.(1 or 3,R15)
See page 125

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 Remove 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 250 or permission of instructor.

483 Internship in Geography.(3,3,3)
484 Practical application of academic training in an approved agency under faculty super-
485 vision S/U grading PREQ Junior standing 9 hours per week per course

491 Topics in Geography.(1-3,R6)
Presentation and discussion of subjects of current interest PREQ Permission of instructor

493 Special Problems.(1-3,R6)
Directed individual research on selected topics PREQ Permission of instructor

Graduate Courses

502 Conservation of Natural Resources (3)
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,R
593 Special Problems (1-3,R6)
693 Special Problems in Geography (3,R6)

Geology (GEOL)

103 Earth and Man.(3-4)
Physical processes of the earth, their effects on man and his attempts to control and use the earth 3 Lecture, 2 Discussion/demonstration (optional) (P2)

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 Introduction to 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

251 Rocks and Minerals.(2)
Hand specimen examination and description of common rocks and minerals, classification and identification systems, for non-majors PREQ 150 1 Lecture, 2 Lab

252 Mineralogy.(4)
Principles of crystallography, crystal chemistry, and phase relationships, chemical computations, descriptive and determinative mineralogy PREQ CHEM 135 or permission of instructor 2 Lecture, 4 Lab

302 (GEOG 302) Geomorphology.(4)

305 (GEOG 305) Soils and Hydrology.(4)
Soil genesis, properties, and classification, the hydrologic cycle, surface runoff and groundwater, water budgets and water quality, management of soils and water PREQ Permission of instructor 3 Lecture, 2 Lab

331 Introduction to Paleontology.(4)
Distribution, morphology, evolutionary trends, and classification of fossils PREQ 150 or GEOG 150 or permission of instructor 3 Lecture, 2 Lab, field trip

351 Optical Mineralogy and Petrography.(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, thin section analyses PREQ 351 and CHEM 136 3 Lecture, 2 Lab, field work

360 Oceanography.(3)
Chemistry of the oceans, wave action and erosion, geology of ocean basins, currents and climates, marine resources and their management.

361 Environmental Geology.(3)
Changes in the geologic environment caused by man, principles of geologic land-use planning, population statistics and resource consumption PREQ 150 or GEOG 150

371 Structural Geology.(3)
Descriptive structural geology; emphasis on outcrop and regional scale deformational features, use of maps and graphic techniques in structural analysis PREQ 150 2 Lecture, 2 Lab, field trips

389 Cooperative Education in Geology.(1 or 3,R15)
See page 125

420 Sedimentation.(3)
The origin, properties, and classification of sediments and sedimentary rocks PREQ 150 PREQ or COREQ 252 or permission of instructor 2 Lecture, 2 Lab

421 Stratigraphy.(3)
Environments of sedimentary deposition and relationships in time and space PREQ 420 or permission of instructor COREQ 252 2 Lecture, 2 Lab; field trip

441 Economic Mineral Resources.(3)
Formation of and exploration for economic mineral deposits, technologic, economic, and political aspects of exploitation, distribution of production and reserves PREQ 251 or permission of instructor

442 The Geology of Oil and Water.(3)
Origin, migration, and accumulation of fluids in rocks, mapping and evaluating deposits PREQ One geology course. 2 Lecture, 2 Lab

451 X-Ray Diffraction and Analytical Methods.(3)
Theory of diffraction; production and interpretation of powder photographs and diffractometer curves, other chemical and rock preparation techniques PREQ Permission of instructor. 2 Lecture, 2 Lab.

471 Tectonics.(3)
History and development of tectonic concepts, geometry and kinematics of plate mosaic, evolution of modern and ancient orogenic belts PREQ 352, 371, or permission of instructor 2 Lecture, 2 Lab, field trips

491 Topics in Geology.(1-3,R6)
PREQ Junior standing, permission of instructor

493 Special Problems in Geology.(2,R4)
Supervised research, written and oral reports

Graduate Courses

541 Economic Mineral Resources (3)
551 X-Ray Diffraction and Analytical Methods (3)
591 Topics in Geology (1-3,R6)
593 Special Problems in Geology (2,R4)
601 Earth Sciences (3,3)
602
693 Topics in Geology (1-3,R-6)

German (GER)

101 German Language and Culture.(3)
Elements of understanding, speaking, reading and writing German, grammatical concepts, lab practice required (P3a)

110 Intensive German I.(6)
Developing skills in understanding, speaking, reading, and writing, emphasis on oral aspects, Rassias Method Three hours credit only applicable to general education. 4 Lecture, 3 Lab, 5 Drill PREQ Permission of instructor (P3a)

132 Elementary German.(3)
PREQ Placement or permission of department head

204 A Literary Perspective of German Civilization.(3)
Selected German literary masterpieces as a reflection of German civilization PREQ ENGL 102

231 Intermediate German I, II.(3,3)
232 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 PREQ 232 or 240, sophomore standing, selection by faculty 10 Lab

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)
322 Geographical, political, cultural, and historical aspects of Germany, course division at the 19th century PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head.

331 Survey of German Literature I, II.(3,3)
332 Major literary movements, authors, and works since the 12th century, course division at the 19th century PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head.

335 Introduction to German Prose and Poetry.(3)
Introduction to German literary texts, reading and analysis of literary works PREQ 232 or 240

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 page 125

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)

230 High Level Wellness.(2)
The promotion of high-level wellness and health-care

250 First Aid and Safety Education.(2)
Prevention and care of accidents and injuries, including American Red Cross training courses

300 Health Education for Elementary Teachers.(2)
Directing a progressive sequential school health program, screening for problems, healthful school living, health services and instruction, development of a curriculum project.

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 School and Community Health Education.(3)
History, philosophy, and future of school and community health programs, practices and procedures for healthful school living, health services and instruction, development of teaching materials

313 Community Health and Field Experience.(4)
Home and community health requirements, governmental and voluntary community health agencies, practicum 4 Lecture, 1 Lab

350 First Aid Education.(2)
Care of injuries, prevention of accidents, standard first aid and CPR training Not open to students with credit in 250

360 Sexually Transmitted Diseases.(2) (Formerly HEAL 260)
Factual information of sexual anatomy and functioning, concepts of sexually transmitted diseases and A.I D S and how decisions, behaviors and lifestyles may affect our health 2 Lecture

410 Organization of Health Education.(3)
Program planning, fiscal management, vital statistics, and laws pertaining to community health.

412 Seminar.(2)
Current health teaching methods

492 Practicum in Community Health Education.(3)
Directed observation and supervised experience in a public health project under direction of public health officials and faculty 35 hours per week. COREQ 412 and EDSE 490

Health Sciences (HSCC)

130 Introduction to Health Professions.(3)
Survey of health specialties, the health sciences, and the preparation, values, and perspectives of health professionals, roles of members of the health care team

220 Medical Terminology.(3)
The meaning, construction, and use of terms in the medical and health sciences, standard medical abbreviations COREQ for MRA majors HSMR 321

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

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 Permission of instructor

389 Cooperative Education in Health Sciences.(1 or 3,R15)
See page 125

Graduate Course
610 Development, Supervision, and Evaluation of Clinical Education.(3)

Health Services Management and Supervision (HSMS)

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

330 Health Care Delivery Systems.(3)
Structures, components, and functions of the health care system, linkages with the nation's social, economic, and political entities, factors affecting consumer demand.

340 Perspectives in Health Care.(3)
Problems related to factors affecting health care agencies, cost, availability, and distribution of services

450 Financial Management in Health Care.(3)
Selected knowledge and skills related to budgeting and the financial management of clinical departments and service units PREQ 320, 340, or permission of instructor

460 Management of Health Resources.(3)
Concepts of resource management in health care delivery, the supervision process and related skills as applied in various health-related facilities

493 Problems in Health Care Management.(3)
Seminar on current issues, major paper required PREQ HSMS or EMC major

495 Seminar in Health Sciences.(1)
Current literature and research on selected topics PREQ Health Science major or permission of instructor

Graduate Courses
550 Financial Management in Health Care.(3)
560 Management of Health Resources (3)
610 Service Delivery Systems in Health Care (3)
620 Health Regulation and Practice Law (3)
630 Manpower Dynamics in Health Care.(3)
640 Information Systems for Health Care.(3)
650 Quality Assurance Issues and Outcomes (3)
680 Directed Independent Study in Health Science (1-3,R6)
693 Special Problems in Health Care.(3)
694 Seminar in Health Care Management Issues (3)
699 Thesis in Health Science (3)

Higher Education (EDHE)

431 Foundations of Adult Education.(3)
Historical, sociological, psychological, and philosophical foundations of adult education, the nature and characteristics of adult learners, review of research

Graduate Courses
531 Foundations of Adult Education (3)
605 The Two-Year College.(3)
610 Two-Year College Instruction (3)
636 Two-Year College Curriculum Development.(3)
683 Internship Two-Year College Administration I (2)
686 Practicum in Two-Year College Teaching.(2)
693 Topics in Higher Education.(1,R3)
695 Seminar on the Two-Year College.(2)
710 (EDAD 710) Administration of Two-Year Colleges (2)
783 Internship Two-Year College Administration II (2)

History (HIST)

104 (304) Seminar in History.(3)
Thinking, reasoning, and expressing through the use of historical problems and materials (F3)

105 (305) History of Modern Western Civilization.(3)
Western civilization from the Renaissance through the 20th century against the background of classical civilizations and the medieval period (P5)

106 (306) Modern American Institutions.(3)
A consideration of the major American social, economic, and political institutions in the 20th century (P1b)

107 (307) World Cultures in Historical Perspective.(3)
Comparison of Western culture and non-Western cultures, historical developments and their impact on the modern world (P4)

132 World Civilization to Mid-Seventeenth Century.(3)
Social, cultural, economic, and political trends that shaped world civilization, emphasis on the West

133 World Civilization, 1650-1919.(3)

231 American History to 1865.(3)

232 American History since 1865.(3)

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

315 Europe in the Renaissance.(3)
The transition of Europe from medieval to modern times, 1300 to 1500

317 History of Twentieth Century International Relations.(3)
The Paris Peace Conference and aftermath, failure of the League of Nations, the road to World War II, World War II, the Cold War; emergence of the Third World, the Common Market.

322 British History to 1603.(3)
Ancient and Roman Britain, Anglo-Saxon society, the Middle Ages, Reformation and Tudor government and society, emphasis on England but includes Celtic history

323 British History Since 1603.(3)
Constitutional struggles of the 17th century, the age of aristocracy, industrial transformation and 19th century growth and reform, rise of the welfare state

327 Modern Russia.(3)
The pre-revolutionary background and the Soviet period

341 North Carolina History.(3)
Developments contributing to the growth of the state, the emergence of North Carolina since 1900

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

371 Modern China.(3)
Late Imperial China and the Nationalist and Communist revolutions

376 History of Africa to 1800.(3)
Subsaharan Africa from earliest times to 1800, migrations, rise and fall of kingdoms, the European impact.

377 History of Africa, 1800 to Present.(3)
Social, economic, political, and intellectual developments from small state and stateless societies to the nation-states of today PREQ, 376

389 Cooperative Education in History.(1 or 3,R15)
See page 125

397 Junior Seminar.(3)
Historical methods, historiography, and directed research.

411 Western Imperialism, 1800-1919.(3)
Western imperialism in Africa and Asia, World War II and its aftermath, the roots of Third World independence movements

412 Early Modern Europe.(3)
The Reformation, development of the modern state, the 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, 1914-1955.(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)
The 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, 1877-1920.(3)
Growth and conflict of organized industry and labor; agrarian decline and revolt, American imperialism, progressive reform, World War I, postwar crises

436 The United States since 1920.(3)
Roaring Twenties, depression, New Deal, World War II, role as cold-war superpower; domestic developments

442 History of Black America.(3)
Role of the Negro in American history, African background, religious, cultural, economic, and political institutions, trends toward assimilation, black nationalism

443 The American South.(3)
Social structure and economic interests of the Antebellum South, impact of Civil War and Reconstruction, the New South, the 20th century South, emphasis on regional differences and social transition.

445 Cherokee History.(3)
Pre-contact Cherokee society, acculturation, removal, post-removal development of the Cherokee Nation West and the Eastern Band of the Cherokees

446 Southern Appalachian Culture.(3)
History and folkways in the period of geographic isolation, changes in regional culture in an age of improved transportation and communications

451 Women in American History.(3)
The historic role of women, attitudes in various periods, women in American culture, the women's rights and feminist movements

463 History of the Mexican Nation.(3)
Mexico since 1810, 19th-century conflicts, revolution, 1910-1917, progress to the present.

472 Local History and Genealogy.(3)
Role of the family and community in shaping state, regional, and national developments, emphasis on research techniques and local resources Lecture and fieldwork

473 Archives and Museum Management.(3)
The 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)
484 Work experience on historical problems, written assignments required S/U grading
485 9 hours per week per course

493 Topics in History.(3,R12)

495 (SCI 495) Seminar in Science and Society.(2)

Graduate Courses

511 Western Imperialism, 1800-1919 (3)
512 Early Modern Europe.(3)
513 Europe in the Eighteenth Century (3)
514 Europe in the Nineteenth Century (3)
516 Europe, 1914-1955 (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, 1877-1920 (3)
536 The United States since 1920 (3)
542 History of Black America (3)
543 The American South (3)
545 Cherokee History (3)
546 Southern Appalachian Culture (3)
551 Women in American 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)
631 American Historiography (3)
680 Readings in History I, II, III, IV (3,R6 per course)
681
682
683
688 Internship in History (1-3,R3)
693 Problems in American History (3,R9)
695 Seminar in American History and American Studies (3)
699 Thesis (3,R6)

Home Economics (HE)

171 Orientation.(1)
The home economics profession, plan for personal and professional growth, career opportunities S/U grading

210 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 Home Economics Curriculum and Materials.(3)
Programs for consumer, homemaking, and occupational home economics

321 Family Finance.(3)
Management of financial resources in relation to individual and family needs, goals, and values, consumer problems

389 Cooperative Education in Home Economics.(1 or 3,R15)
See page 125

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 210

480 Independent Study in Home Economics.(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 Home Economics.(1-3,R6)

495 Professional Seminar.(1)
The role of professionalism in gainful employment and career advancement. S/U grading

Graduate Courses
514 (IET 514) Career Exploration.(3)
593 Topics in Home Economics (1-3,R6)
601 Professional Issues (3)
602 (IET & OA 602) Vocational Education History and Philosophy (3)
610 (IET 610) Vocational/Technical Evaluation (3)
611 Program Development in Home Economics (3)
620 Contemporary Consumer Issues (3)
652 Computer Applications in Design/Consumer Technology (3)
654 Creative Ergonomics (3)
680 Independent Study in Home Economics (1-3,R6)
681 Research Project.(1-3,R6)
693 Topics in Home Economics (1-3,R6)
699 Thesis (3,R6)

Human Resource Development (HRD)

Graduate Courses
589 Cooperative Education in Human Resource Development.(3)
610 Human Resource Development.(3)
670 Program Evaluation.(3)
683 Field Experience in Human Resource Development.(3)
693 Topics in Human Resource Development.(3,R6)
698 Seminar in Human Resource Development.(3)

Industrial Education and Technology (IET)

130 Introduction to Industrial Education and Technology.(1)
The philosophy, scope, and objectives of industrial education, industry, and related businesses, survey of employment opportunities

132 Introduction to Industrial and Vocational Education.(3)
The philosophy and scope of industrial and vocational education, survey of employment opportunities, methods of instruction in related vocational programs

140 Furniture Manufacturing.(4)
Introduction to wood technology, processing and matching wood for furniture production. Lab fee charged 3 Lecture, 2 Lab

150 Engineering Graphics.(4)
Forms of industrial drawing, orthographic and pictorial projections, sketching, basic drawing board procedures and an introduction to basic computer-aided design Lab fee charged 3 Lecture, 2 Lab

230 Industrial Distribution.(3)
The flow of industrial goods and services through the industrial distributor

260 Metals Technology.(4)
Physical and mechanical properties of ferrous and nonferrous metals, including heat treating, casting, forming, and welding Lab fee charged 3 Lecture, 2 Lab

300 Industrial Ceramics.(3)
The industrial ceramics industry, principles of clay, glaze, and mold production. Lab fee charged 2 Lecture, 3 Lab

303 Leathercraft.(3)
Tools, materials, and processes used in the leather industry through construction of leather articles Lab fee charged 2 Lecture, 3 Lab

307 Stained Glass Glaziery.(3)
Practical applications and fundamentals, including came, copper foil, and epoxy construction. Lab fee charged 1 Lecture, 4 Lab

313 Graphic Arts.(4)
Study of the tools, materials, equipment, and processes in graphic arts industries through design and construction experiences Lab fee charged 3 Lecture, 2 Lab

320 Power Technology.(4)
Forms of energy and prime movers used by men to increase their value and utility, activities with energy converters and power transmission and control components and systems Typically offered in fall semester of years with even numbers Lab fee charged 3 Lecture, 2 Lab

330 Industrial Arts for the Elementary Teacher.(2)
Industrial procedures, tools, materials, and projects suitable for the elementary school Lab fee charged 1 Lecture, 2 Lab

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 2 Lecture, 2 Lab

337 Management of Safety Systems.(3)
Comprehensive, organized management approach for identifying, measuring, and reducing operational errors leading to accidents

338 Fire Control and Compliance Management.(3)
Emergency planning, compliance with standards, recognition of fire hazards, implementation of controls and extinguishing agents and methods

341 Alternate Energy Sources.(3)
Overview of alternate energy sources, active and passive solar energy, wind energy, hydroelectricity, other topics

342 Construction Processes.(3-4)
Principles and processes for producing marketable buildings as these relate to the North Carolina Building Code 3 Lecture, 2 Lab (optional).

350 Technical Drawing and Illustration.(3)
Orthographic and axonometric drawing including multiview, isometric, dimetric, trimetric, cavalier and cabinet obliques, dimensioning, sectioning and assemblies, surface treatments 2 Lecture, 2 Lab

351 Architectural Drafting and Design I.(3)
Designing and drawing a complete set of residential plans, concepts and techniques of house construction, building codes Lab fee charged 2 Lecture, 2 Lab

352 Furniture and Architectural Drafting and Design.(3)
Furniture and architectural design, dimensioning, detailing and illustration. PREQ 350, 351 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 350, 351 or permission of instructor

360 Industrial Distribution Organization.(3)
Survey of organizational structure in manufacturing industries

361 Machining Processes.(4)
Metal removal and fabrication processes Lab fee charged PREQ 260, MATH 130, 144 or 145 3 Lecture, 2 Lab

370 Electricity.(4)
Direct and alternating current sources, circuits, circuit analysis, introduction to electronic functions Lab fee charged PREQ MATH 144 or 145 and PHYS 130 or 230 3 Lecture, 2 Lab

371 Electronics.(4)
Solid state and vacuum tube devices, power supply, amplifier, oscillator, and logic circuits Lab fee charged PREQ 370 3 Lecture, 2 Lab

389 Cooperative Education in Industrial Technology.(1 or 3,R15)
See page 125

400 Recreational Crafts.(3)
Activities for schools, camps, churches, retirement centers, and other recreational programs Lab fee charged 2 Lecture, 3 Lab

409 History and Philosophy of Vocational Education.(3)

420 Polymer Technology.(4)
Industrial fabrication techniques, topics in polymer science and mold construction Lab fee charged 3 Lecture, 2 Lab

422 Advanced Polymer Technology.(3)
Theory and application of molding processes, emphasis on thermoplastic and thermoset injection, topics in polymer science and microprocessing

423 Fluid Systems.(3)
Basic fluid mechanics, hydraulic and pneumatic systems used in industrial manufacturing processes PREQ PHYS 130 2 Lecture, 2 Lab

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

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. EDSE 320 or 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 Lab fee charged PREQ 371 2 Lecture, 2 Lab

480 Problems in Industrial Education.(1-3)
Independent study of problems in industrial, technical, or vocational education, project required PREQ Industrial education major, permission of adviser and instructor

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

Graduate Courses

513 Advanced Graphic Arts (3)
514 (HE 514) Career Exploration (3)
522 Advanced Polymer Technology (3)
532 Shop/Laboratory Organization and Management.(3)
540 Wood Technology (3)
560 Industrial Materials and Processes (3)
570 Advanced Electronics (3)
589 Cooperative Education in Industrial Technology (3,R6)
593 Topics in Industrial Education (1-3,R6)
602 (OA & HE 602) Vocational Education History and Philosophy (3)
610 (HE 610) Vocational/Technical Evaluation.(3)
630 Trends in Industrial Education (3)
632 Administration of Industrial Education (3)
636 Cooperative Vocational Education.(3)
640 Value Analysis (3)
641 Quality Assurance.(3)
650 Program Planning in Vocational/Technical Education.(3)
670 Research Methods in Vocational/Technical Education.(3)
680 Independent Study (3,R6)
688 Internship in History (1-2,R-3)
695 Seminar in Industrial Education (3)
699 Thesis.(3,R6)

Interior Design (IDSN)

153 Introduction to Interior Design.(2)
Elements and principles of design, creative problem solving 1 Lecture, 2 Lab

253 Space Planning and Color.(4)
Interior space planning and color application in three-dimensional spaces PREQ 153 or permission of instructor 2 Lecture, 4 Lab

254 Perspective Drawing.(4)
Two-point perspective drawing, shadow casting and rendering of interior spaces PREQ 253, IET 350 COREQ IET 351 2 Lecture, 4 Lab

351 Lighting Design for Interiors.(3)
Survey of natural and artificial lighting sources, methods of selection and specification, physiological and psychological responses to various lighting applications PREQ IET 351 2 Lecture, 2 Lab

353 Residential Design.(4)
Design of residential spaces using skills and information learned in IDSN 253 Application of materials, lighting and presentation techniques PREQ 254 COREQ 351, 356 2 Lecture, 4 Lab

355 History of Interiors and Furnishings I.(3)
Survey of interiors and furniture from ancient times to the 19th century PREQ ART 136 or ART 137

356 Methods and Materials for Interior Design.(3)
Composition, manufacture, source, application and specification information for interior materials PREQ. IET 351

357 Contract Design I.(4)
Design of office spaces incorporating conventional and systems furniture PREQ 353 2 Lecture, 4 Lab

358 History of Interiors and Furnishings II.(3)
Survey of interiors and furniture from the beginning of the 19th century to the present PREQ 355

389 Cooperative Education in Interior Design.(1 or 3,R15)
See page 125

456 Contract Design II.(4)
Creation of designs for commercial applications 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.(1)
A comprehensive evaluation of completed interior design projects and their organization in students' portfolios PREQ 456 or permission of instructor 2 Lab

480 Independent Study in Interior Design.(1-3, R6)
PREQ Permission of instructor

483 Internship.(3,3,3)
484 Integration of theory and practice in a setting appropriate to the student's career field
485 S/U grading PREQ 357, 358, or permission of instructor 9 hours per week per course

493 Topics in Interior Design. (3,R9)
Examination of current topics and trends in interior design. PREQ Permission of instructor

Journalism (JOUR)

140 (RTV 140) Introduction to Mass Communications.(3)

301 (JOUR/RTV) Writing for Mass Communications.(3)
Elements of news, news values, basic interviewing techniques, writing principles and fundamentals, styles used in journalism, broadcasting, advertising, and public relations PREQ ENGL 102, JOUR/RTV 140, basic typing skills (Formerly JOUR/RTV 240)

302 Reporting II.(3)
News writing, reporting, and gathering, interviewing techniques PREQ ENGL 102, JOUR/RTV 301

303 Advertising and Promotional Copy Writing.(3)
Writing copy for promotional and display purposes PREQ ENGL 102

304 Feature Writing.(3)
Writing of newspaper features, emphasis on story ideas and writing styles PREQ ENGL 102, JOUR/RTV 301

389 Cooperative Education in Journalism.(1 or 3,R15)
See page 125

393 Topics in Journalism.(3,R6)
Study of a selected topic or special area of interest in the practice of journalism, e g , photojournalism, sports writing PREQ ENGL 102, JOUR/RTV 301

401 News Editing I.(3)
Introduction to the editing of news stories, headline writing, news values PREQ ENGL 102, JOUR/RTV 301

402 Newspaper Layout and Design.(3)
Layout and design of front and inside pages, use of photographs, news judgment in page makeup PREQ 401

403 Editorial Writing.(3)
Selection and discussion of editorial topics; writing of newspaper editorials, editorial page policies and practices PREQ ENGL 102, JOUR/RTV 301

414 Newspaper Management.(3)
Business and editorial policies of weekly and daily newspapers, circulation, advertising, and promotional practices PREQ· ENGL 102, JOUR/RTV 140

420 Press Responsibility.(3)
Legal problems facing the press, from libel to closed courtrooms, rights, restrictions, and responsibilities of reporters PREQ ENGL 102, JOUR/RTV 140

483 Writing Internship.(3,3,3)
484 Practical experience in a writing-related setting S/U grading.. 9 hours per week per
485 course.

Latin (LAT)

131 Elementary Latin I, II.(3,3)
132 Basic Latin grammar; reading selections, consideration of Roman culture PREQ 131 for 132.

Management (MGT)

300 Introduction to Management.(3)
Principles, issues, and practices of modern management, the production process in creating goods and services, behavioral concepts pertinent to managerial functions

301 International Management. (3)
Issues in the management of international enterprises; adaptation of managerial functions and skills to the international business environment.

302 Labor-Management Relations.(3)
Critical roles of labor unions, legislative bodies, and governmental regulation, alternative strategies in impasse resolution. PREQ 300

304 Personnel Management.(3)
Recruiting, training, evaluating, and rewarding human resources, developing and implementing effective personnel programs PREQ 300

305 Quantitative Business Analysis.(3)
Models for decision making in production and operations management, linear programming, transportation and assignment, probabilistic models, forecasting, inventory and network analysis, queuing theory, simulation PREQ ECON 235 COREQ 300

306 Behavioral Science in Organizations.(3)
Interaction of individuals, groups, and organizations; learning, motivation, leadership, communication; international implications PREQ 300

389 Cooperative Education in Management (1 or 3, R15)
See page 125

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, technologic, and governmental factors PREQ Permission of instructor.

402 Production and Operations Management.(3)
Management processes for the creation of products and services, analytical techniques and controls PREQ. 305

405 Compensation Management.(3)
Theory from economics and the behavioral sciences, public policy regarding pay, pay surveys, job evaluation, performance appraisal, and incentive plans PREQ 304

407 Interpersonal Behavior.(3)
Awareness and competence in managerial interpersonal relationships, listening behavior, examination of self concept. PREQ 300

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

Graduate Courses

605 Organizational Behavior and Analysis (3)
606 Quantitative Analysis for Business I (3)
607 Strategic Management.(3)
608 Personnel Administration (3)
609 The Collective Bargaining Process (3)
610 Quantitative Analysis for Business II (3)
611 Production and Operations Management.(3)
613 Management of International Operations (3)
614 Managerial Career Development.(3)
670 Project Management Systems (3)
672 Human Resource Management in Projects (3)
674 Project Contract Management.(3)
676 Specialized Project Management Techniques I (3)
677 Specialized Project Management Techniques II.(3)
678 Project Management Organization and Policy (3)
682 Research Project in Management.(3,R6)
693 Topics in Management.(3,R6)

Manufacturing Engineering Technology (MET)

130 Blueprint Reading.(1)
Basics of reading "blueprints" of maps, pictorial, schematic, architectural, and engineering drawings, techniques of fast hand sketching

160 Industrial Computer Applications.(3)
Introduction to industrial computer systems, elementary programming, interactive and batch processing, software analysis for industrial applications

320 Plant Layout and Material Handling.(3)
Problem analyses and design of plant facilities, plant layout, material flow and handling, physical storage systems PREQ IET 150, 361

351 Statics and Dynamics.(3)
Study of forces acting on rigid bodies, at rest and in motion

352 Strength of Materials.(3)
The relationship between externally applied forces and internally induced stresses in structural members PREQ 351 or equivalent. 2 Lecture, 2 Lab

363 Methods and Standards.(3)
Process analysis, principles of motion economy, elemental time data, and production rating schedules PREQ MGT 300, MATH 170

366 Manufacturing Materials.(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)

410 Computer Drafting.(3)
Computer-aided drafting and design (CADD), principles, practices, trends, hardware, software; survey of computer-aided manufacturing and engineering PREQ 130 or equivalent and computer literacy.

440 Fluid Power.(3)
Development, transmission, and use of power through fluid power circuits and controls PREQ PHYS 130 or 230 2 Lecture, 2 Lab

460 Materials Management.(3)
Systematic methods of understanding and controlling all the materials used by a manufacturing organization from purchase to final delivery PREQ 160 and MATH 170

462 Quality Control.(3)
Modern concepts of the quality assurance function of industry to maximize customer satisfaction at optimum product cost. PREQ 160, MATH 170

463 Manufacturing Planning and Cost Estimating.(3)
Correlation of design and manufacturing requirements, planning manufacturing operations for parts and assemblies; time/cost estimates. PREQ 363, 130 or IET 150; IET 361

465 Engineering Economy.(3)
The economics of decision making, including break-even, least cost, and alternatives related to the time value of money. PREQ: ECON 231

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

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

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

305 Marketing Information Systems.(3)
Systemic study of information flows and marketing intelligence PREQ 301, CIS 251

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 page 125

401 Marketing and Social Issues.(3)
Contemporary issues, including social responsibilities and specific marketing practices PREQ 301

403 Advertising Management.(3)
Planning and production of a professional advertising campaign. PREQ 302

404 Retailing Management.(3)
Retailing organization and management, including store location, merchandise management, expense analysis and control, and current issues and trends

405 Marketing Management.(3)
Marketing decision making studied from the manager's viewpoint, emphasis on market analysis, planning, and strategy development PREQ 301.

406 Channels of Distribution.(3)
Theory and concepts in channel management; emphasis on structural, operational, and leadership decisions PREQ 301

407 International Marketing.(3)
Problems, opportunities, and strategies in an international marketing environment, trade concepts and theories, cultural, political, legal, and financial constraints PREQ 301

408 Problems in Marketing Management.(3)
Analysis of cases relevant to the problems encountered by the marketing manager PREQ 405

409 Industrial Marketing.(3)
Market, product design, pricing strategy, logistics, promotion, governmental and institutional markets in the context of the political, economic, technological, and ethical environments PREQ 301

483 Internship in Marketing.(3,3,3)
484 Supervised experience 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 Marketing.(1-3,R6)
PREQ Permission of department head

Graduate Courses

601 Marketing Management.(3)
602 Marketing Research (3)
603 Consumer Behavior (3)
604 Marketing Communications (3)
682 Research Project.(3,R6)
693 Topics in Marketing.(3,R6)

Mathematics (MATH)

100 Elementary Algebra.(3)
Basic algebraic skills including arithmetic, 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 pass Algebra Skills Test

140 Introductory Calculus.(5)
The differential and integral calculus of algebraic functions of one variable PREQ 130

144 Applied Trigonometry.(3)
Topics including right triangles, trigonometric functions, graphing, basic identities, triangle solutions, and complex numbers, emphasis on applications Not open to students with credit in 145 PREQ 130

145 Trigonometry.(3)
Basic trigonometry, functions, identities, graphs, solution of equations and triangles, complex numbers, analytical trigonometry Not open to students with credit in 144 PREQ 130 or pass Math placement exam

146 Algebra and Analytical Geometry.(3)
Topics including binomial theorem, logarithmic and exponential functions, induction, polynomials, series, conic sections, polar coordinates, parametric equations PREQ 130 or placement. PREQ or COREQ 145

153 Calculus I.(4)
Limits, continuity, derivatives, and integrals of algebraic functions with applications PREQ 146

170 Applied Statistics.(3)
Data analysis, descriptive analysis, exploratory data analysis, binomial and normal distributions, point and interval estimates, hypothesis tests, correlation, regression, goodness of fit, analysis of variance, and non-parametric methods PREQ 100 or pass Algebra Skills Test (Formerly MATH 134)

171 Statistics with Minitab.(1)
A laboratory course to provide experience using the minitab statistical package COREQ 170 or permission of instructor 2 Lab

230 Theory of Arithmetic I.(3)
Logic, sets, relations, mathematical systems, counting, numeration systems, and algorithms for whole numbers

231 Theory of Arithmetic II.(3)
Measurement (metric system), number theory integers, rationals, irrationals, and reals PREQ 230

254 Matrix Theory.(3)
Matrices and linear equations Not open to students with credit in 262 PREQ 146, CS 150

255 Calculus II.(4)
Derivatives and integrals of transcendental functions, techniques of integration, indeterminant forms, improper integrals, infinite series PREQ 153

256 Calculus III.(4)
Plane curves, polar coordinates, vectors and solid analytical geometry, vector-valued functions, partial differentiation, multiple integrals PREQ 255

260 Informal Geometry.(3)
Points, lines, planes, constructions, axiomatic structure of geometry and the nature of proof PREQ 231

262 Introduction to Linear Algebra.(3)
Systems of equations, matrices, vector spaces, and linear transformations Not open to students with credit in 254 COREQ 255

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 concentration 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 Discrete Structures.(3)
Enumeration topics including arrangements, selections, generating functions, and recurrence relations; basic concepts of graphs and trees PREQ Junior standing or permission of instructor

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

323 Advanced Calculus I.(3)
Sequences of real numbers, continuous functions, and differentiation 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 problem, and integer programming PREQ 254 or 262, CS 150 COREQ 256

361 Introduction to Abstract Algebra.(3)
Groups, rings, and fields PREQ 262

370 Statistical Theory I.(3)
Elementary probability, discrete and continuous random variables, expectation, moments, sampling distributions, probability distributions PREQ 256

375 Statistical Methods II.(3)
Analysis of variance, regression, and correlation, analysis of categorical data, distribution-free procedures PREQ 270

386 Practicum.(2)
Practical experience under faculty supervision for prospective teachers as teaching aides and as tutors PREQ MATH 255, permission of department head 5 Lab

389 Cooperative Education in Mathematics.(1 or 3,R15)
See page 125

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 3-space, similarity transformations, convexity, and other topics PREQ Junior standing or permission of department head.

423 Advanced Calculus II.(3)
Differentiation including L'Hospital's rule and Taylor's theorem, integration theory, other classical topics PREQ 323

441 Introduction to Numerical Analysis.(3)
Finite differences, interpolation, numerical integration and solutions to ordinary differential equations, linear systems, eigenvalues, eigenvectors, errors PREQ 254 or 262, 256, CS 150, and senior standing (Formerly 340)

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 Statistical Theory II.(3)
Point and interval estimation, hypothesis testing, decision theory, likelihood ratio and sequential testing, correlation and regression PREQ 370

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 (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)
694 Topics in Mathematics Education. (1-6,R6)

Medical Record Administration (HSMR)

301 Introduction to Medical Record Administration.(3)
Orientation to medical institutions, history of medical records, components, development, and use of medical records; functions of medical record departments

303 Planning and Organizing in Medical Record Administration.(2)
Applications of principles of planning and organizing in the management of medical record services PREQ 301, COREQ 321 2 Lecture

310 Fundamentals of Medicine for Medical Record Administration.(3)
Current medical treatment and overall management of the patient, emphasis on etiology and symptoms PREQ BIOL 292 and HSCC 220

321 Medical Record Practice Lab.(1)
Medical record administration computer application and supervised hospital practice COREQ for HSMR Majors 303 2 Lab

389 Cooperative Education in Medical Records.(1 or 3,R12)
PREQ HSCC 389. See also page 125

401 Regulation of Health Care Facilities.(3)
Medical staff organization; accreditation and regulation of general and specialty care facilities PREQ 404

402 Controlling Resources in Medical Record Administration.(2)
Application of principles of controlling in the management of medical record services PREQ 303, COREQ 401

403 Medical Record Data Collection.(2)
Computing, reporting, and displaying health care statistics Principles of applied research for the medical record profession PREQ 404

404 Medical Record Classification Systems.(4)
System of coding, classifying, and retrieving disease and operation data. PREQ 301, 310 3 Lecture, 2 Lab

405 Advanced Classification Systems.(2)
ICD-9-CM Coding for prospective payment, managing other classification systems PREQ 404 2 Lecture

406 Topics in Medical Record Administration.(4)
Various current topics in MRA project in the operation of a medical record department. 3 Lecture, 3 Lab

483 Management Affiliation.(4)
A 5-week, full-time management experience in a primary health-care facility PREQ 402

484 Specialty Affiliation.(1)
A 2-week, full-time management experience in specialty hospitals and other health-care facilities. PREQ 402

487 Medical Record Directed Practicum I, II.(2,2)
488 Supervised experience in a functioning hospital medical record department. S/U grading PREQ 301 for 487, 487 for 488 COREQ 404 with 487, 401 with 488

495 Seminar in Medical Records.(3)
Discussion of problems the student may expect to encounter in administering medical record services PREQ 402

Medical Technology (see Clinical Laboratory Science)

Military Science (MS)

130 Fundamentals of Military Leadership I.(1)
Role of the Army in national defense, Army customs and courtesies, weapons training, marksmanship, mountaineering, drill and ceremonies, leadership fundamentals and styles 1 Lecture, 1 Lab

131 Fundamentals of Military Leadership II.(1)
World change and military implications, basic first aid, leadership application and reaction training, drill and ceremonies, recent Army developments 1 Lecture, 1 Lab

240 Development of Military Leadership I.(1)
Principles of war, leadership, troop leading procedures, training philosophy, customs and traditions of the Army, first aid, weapons training, drill and ceremonies 1 Lecture, 1 Lab

241 Development of Military Leadership II.(1)
Basic military skills, map reading and land navigation, first aid, terrain analysis, leadership assessment training, weapons training, drill and ceremonies 1 Lecture, 1 Lab

331 Advanced Small Unit Operation.(3)
Planning and executing tactical mission, land navigation, weapons and specialized systems, written and oral communication, physical training, leadership reaction training, adventure training, advanced drill and ceremonies PREQ, 130, 131, 240, and 241, or permission of instructor 3 Lecture, 1 Lab

332 Advanced Military Leadership.(3)
Analysis of leader behavior and style, management planning and organization, physical training, branch orientation, adventure training, advanced drill and ceremonies PREQ 130, 131, 240, and 241, or permission of instructor 3 Lecture, 1 Lab

383 Advanced Camp Internship.(4)
Training in and practical application of military leadership, land navigation, military skills proficiency, tactical operations, and weapons systems Full-time, six weeks PREQ 331 or permission of instructor

430 Military Leadership and Unit Operations.(3)
Unit management and leadership, military justice, customs, courtesies, ethics, staff study, developing and executing labs, control of cadet battalion PREQ 331 3 Lecture, 1 Lab

431 Theory and Dynamics of the Military.(3)
Professional development, combined arms team, NATO structure, Warsaw Pact threat, training, personnel, and logistics management, control of cadet battalion, developing and executing labs. PREQ 430 3 Lecture, 1 Lab

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)

114 Introduction to Recorder.(1)
Introduction to playing the recorder 2 Lab (F5)

116 Introduction to Dulcimer.(1)
Introduction to the Appalachian plucked dulcimer 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)

138 Ear Training Laboratory.(1,1)
139 Basic notation reading and aural skills PREQ Permission of department head

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 Musicianship I, II.(3,3)
178 Basic theoretical and analytical skills PREQ Permission of department head for 177, 177 for 178 3 Lecture, 2 Lab

252 Aural Skills Laboratory, III.(1)
Advanced aural perception of rhythmic, melodic, and harmonic devices PREQ 153 2 meetings

253 Aural Skills Laboratory, IV.(1)
Advanced aural perception of rhythmic, melodic, and harmonic devices PREQ 252 2 meetings

277 Theory and Literature I, II.(3,3)
278 Application of theoretical and analytical skills to literature PREQ 178 for 277, 277 for 278 3 meetings.

301 Basic Skills.(2)
Music fundamentals and elementary performance skills 3 meetings

302 Music for Classroom Teachers.(2)
Methods and materials for teaching music in the elementary school PREQ 301 3 meetings

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

326 Instrumental Methods and Materials.(3)
Methods and materials used in instrumental teaching

327 Choral Methods and Materials.(3)
Methods and materials used in developing the school choral program

350 Music History I, II.(3,3)
351 Western music, from Middle Ages through the Baroque in 350, from the Classical Period through the 20th century in 351 PREQ 278 or permission of department head and instructor

378 Survey of the Music Industry.(3)
The retail and wholesale music trade, publishing, royalties, copyright, performance rights, record production, advertising and promotion, labor relations, contracts, artist management

389 Cooperative Education in Music.(1 or 3,R15)
See page 125

403 Marching Band Techniques.(2)
PREQ 326

405 Senior Recital.(1)
Public performance May be scheduled after hearing committee approval PREQ 305

421 Wind Literature.(3)
Literature of wind instruments, emphasis on authentic performance practices PREQ 278

422 Vocal Literature.(3)
Solo vocal literature since the 16th century PREQ 278

423 Choral Literature.(3)
Literature from the Renaissance to the present, emphasis on style and authentic performance practices PREQ 278

424 Keyboard Literature.(3)
Keyboard literature from the Baroque to the present PREQ 278

425 Studies in Contemporary Music.(3)
Styles and issues of 20th-century music PREQ 351

428 Choral Conducting.(3)
Study and application of gesture communication and analysis selected to choral conducting PREQ 253, 278

429 Instrumental Conducting.(3)
Application of techniques and analysis to instrumental conducting PREQ 253, 278

470 Orchestration and Arranging.(2)
Scoring and arranging for instrumental and vocal ensembles PREQ 278

471 Arranging for High School Band and Chorus.(3)
Scoring, transcribing, and editing techniques for instrumental and choral ensembles PREQ. 470

472 Jazz Arranging.(3)
Techniques of instrumental and vocal jazz arranging PREQ 470

477 Contrapuntal Techniques.(3)
Survey of contrapuntal practice from 1500 to the present, focusing on the 16th, 18th, and 20th century techniques PREQ 278

478 Compositional Techniques.(3)
Composing in styles from the tonal period to the present PREQ 477

493 Topics in Music.(1-3,R12)
PREQ Permission of department head

Graduate Courses

501 Music in the Elementary School (2)
503 Marching Band Techniques (2)
505 Workshop in Music Education.(2)
521 Wind Literature.(3)
522 Vocal Literature.(3)
523 Choral Literature.(3)
524 Keyboard Literature.(3)
525 Studies in Contemporary Music (3)
528 Choral Conducting (3)
529 Instrumental Conducting (3)
571 Arranging for High School Band and Chorus (3)
572 Jazz Arranging.(3)
577 Contrapuntal Techniques (3)
578 Compositional Techniques (3)
592 Orff-Schulwerk Level I.(3)
593 Topics in Music (1-3,R12)
595 Seminar in Arts Management.(3)
596 Seminar in the Music Industry (3)
620 Music History Seminar (3)
625 Studies in Music Literature.(3,R6)
630 Music Theory Seminar (3)
631 Form and Analysis (3)
632 Twentieth-Century Analysis (3)
640 Studies in Pedagogy (3,R9)
660 Music in Worship (3)
678 Applied Composition (2,R8)
679 Lecture/Recital (3,R6)
680 Independent Study (1,R6)
681 Readings in Music History (3,R9)
682 Research Project in Music Education (3)
693 Orff-Schulwerk Level II (3)
694 Orff-Schulwerk Level III (3)
695 Music Education Seminar (3)
696 Seminar in Choral Techniques and Materials (2)
697 Seminar in Instrumental Techniques and Materials (3)
698 Seminar for the General Music Class (3)
699 Thesis (3,R6)

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 To take the examination a second time, students must first repeat 1/233, 1/237, 1/243, 1/247, 1/257, 1/263, or 1/267 Details of performance requirements and courses of study are available in the Music Department Student Handbook All students enrolled for two credits must participate in a major ensemble

The major ensembles appropriate to the primary area of performance are as follows band for wind, percussion, and keyboard in the instrumental curriculum for the B S Ed degree, orchestra for strings, Concert Choir or University Chorus for keyboard (in both the B A and General B S Ed degree programs) and voice

Brass	130, 131, 230, 231, 330, 331, 430, 431 (1 each) 132, 133, 232, 233, 332, 333, 432, 433 (2 each)
Percussion	134, 135, 234, 235, 334, 335, 434, 435 (1 each) 136, 137, 236, 237, 336, 337, 436, 437 (2 each)

Piano	140, 141, 240, 241, 340, 341, 440, 441 (1 each) 142, 143, 242, 243, 342, 343, 442, 443 (2 each)
Organ	144, 145, 244, 245, 344, 345, 444, 445 (1 each) 146, 147, 246, 247, 346, 347, 446, 447 (2 each)
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)

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, II.(1,1)
169 Playing stringed instruments, 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

248 Piano Class III, IV.(1,1)
249 Continuation of 148 and 149 2 meetings

258 Voice Class III.(1)
Continuation of 158 and 159, emphasis on diction and pedagogy 2 meetings

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

348 Piano Class V, VI.(1,1)
349 Continuation of 248 and 249 2 meetings

370 Ensemble.(1,R12)
Performance in vocal and instrumental ensembles PREQ 175 or permission of department head

371 University Chorus.(1,R8)
Study and performance of representative choral works, open to any student meeting eligibility requirements 3 meetings PREQ 171 or permission of department head

372 Concert Choir.(1,R8)
Audition required, public performances 4 meetings PREQ 172 or permission of department head

373 Band.(1,R8)
Performance in a wide variety of music in the marching, symphonics, 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,R8,3,R9)
613
675 Ensemble.(1,R6)

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

350 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 340, BIOL 254, or permission of instructor 3 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, BIOL 254; or permission of instructor 2 Lecture, 2 Lab

389 Cooperative Education in NRM.(1 or 3,R15)
See page 125

440 Integrated Resources Management.(4)
Natural Resources Management exercises, project and strategic planning, map and quantitative integration techniques, group dynamics PREQ 340, CS 101, 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

450 Forest Management.(4)
Principles of forest management at stand and forest levels, forest growth, regulation, harvesting, and multiple use management PREQ 340, BIOL 254, 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

470 Land Suitability Classification.(3)
Study and application of land suitability classifications systems PREQ 340, 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

340 Basic Nursing Skills.(2)
Psychomotor nursing skills essential to the care and comfort of patients, scientific principles underlying nursing procedures PREQ Admission to the nursing sequence 1 Lecture, 3 Lab.

350 Introduction to Nursing Science.(2)
The development of the profession and of role concepts PREQ Permission of instructor 1 Lecture, 1 Seminar

353 Nursing Science I.(3)
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 3 Lecture, 1 Seminar

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. 3 Lecture, 1 Seminar

360 Health Care of Women.(2)
Review of women's health care, the functions of women's bodies, and personal responsibility for health

373 Processes and Concepts in Nursing.(3)
Focus on nursing, other processes and concepts, with emphasis on the community PREQ 350 and permission of instructor 2 Lecture, 1 Seminar

376 Health Promotion through the Life Span.(2)
Emphasis on developmental tasks and common health needs To be taught off campus only PREQ. Admission to the nursing sequence

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

385 Clinical Practicum II.(4)
Care of ill individuals and families in acute care and home settings, nursing role in illness emphasized PREQ. 383 COREQ 355 12 Lab

386 Practicum in Health Assessment and Promotion.(6)
Application of concepts and processes to the care of well individuals, emphasis on the nursing role in health maintenance and promotion PREQ 373 and permission of instructor. 18 Lab

389 Cooperative Education in Nursing.(1 or 3,R15)
PREQ 355. See page 125

393 Topics in Nursing.(1-3,R12)
PREQ Permission of instructor

405 Gerontological Nursing.(1-3)
The aging process, health assessment and promotion in the aged, identification of frequent alternations in health and appropriate nursing interventions To be taught off campus only. PREQ Permission of instructor

460 Nursing Leadership.(2)
Leadership theory in the management of clients, peers, and other health-care providers in nursing service settings PREQ 385 or permission of instructor 1 Lecture, 1 Seminar

466 Nursing Science III.(4
The influence of pathophysiology and psychopathology and appropriate nursing strategies for different, more complex client models PREQ 385 COREQ 486 3 Lecture, 1 Seminar

467 Nursing Science IV.(4)
Synthesis of wellness-illness concepts and processes appropriate to nursing, advanced nursing skills and strategies using high-risk client models PREQ 486 COREQ 487 3 Lecture, 1 Seminar

470 Nursing Research.(2)
Research design in the study of nursing problems, interpretation of research emphasized PREQ PSY 251

475 Perspectives of the Nursing Profession.(2)
The impact and implications of current and evolving trends on the future practice of nursing PREQ 466 or permission of instructor 1 Lecture, 1 Seminar

480 Independent Study.(2)
PREQ 470

486 Clinical Practicum III.(4)
Application of nursing strategies to the care of ill individuals and multiproblem families in complex health care agencies. PREQ 385 COREQ 466 12 Lab

487 Clinical Practicum IV.(4)
Application of wellness-illness concepts, nursing processes and skills with individuals, multiproblem families, experience in the managerial role of the nurse PREQ 486 COREQ 467 or permission of instructor 12 Lab

Nutrition and Dietetics (ND)

132 Nutrition for Everyday Living.(3)
Using nutritional information to make sound decisions about food intake

300 Food Facts and Fads.(3)
Effects of food processing and preservation, safety of the food supply, food choices and health

330 Human Nutritional Needs.(3)
Principles of nutrition, needs throughout the life cycle, selection of well-balanced diets for health and well being

334 Nutritional Applications.(3)
Application of nutritional principles to diet planning, nutrient analysis including computer-aided analysis, and nutritional assessment PREQ 330 or permission of instructor 1 Lecture, 4 Lab.

336 Normal Nutrition.(2)
Principles of human nutrition, emphasizing nutrients and factors affecting utilization in the human body PREQ BIOL 292, CHEM 133

337 Therapeutic Nutrition.(2)
Physiological and biochemical abnormalities in disease, principles of nutritional therapy PREQ BIOL 292, CHEM 133

389 Cooperative Education in Nutrition.(1 or 3, R15)
See page 125

431 Food Preservation.(3)
Principles and procedures for food preservation, home methods, principles of home food sanitation and spoilage, food storage techniques PREQ FSM 231 or permission of instructor. 2 Lecture, 2 Lab

433 Methods in Human Nutrition and Foods.(3)
Standard procedures for nutrient analysis, including proximate analysis of foods, determination of individual health and nutrient status, introductory experimental design and methodology PREQ 334, CHEM 133; or permission of instructor 1 Lecture, 6 Lab

434 Experimental Methods of Foods.(4)
Techniques of sensory, physical, and objective evaluation in scientific foods and food products experimentation PREQ FSM 231, CHEM 133 2 Lecture, 4 Lab

436 Advanced Human Nutrition.(4)
Normal nutrition related to biochemical and physiological functioning, interrelationships of nutrients and their effect on body needs PREQ 334, BIOL 292, CHEM 133

437 Diet Therapy.(3)
Mechanisms by which food contributes to maintenance of health, prevention of disease, and correction of nutritional disorders PREQ 436 or CHEM 133, BIOL 292

439 Introduction to Professional Practice.(3)
Introduction to professional ethics, conduct in patient care, utilization of laboratory values, nutritional assessment, and dietary management COREQ 437 2 Lecture, 3 Clinical

480 Independent Study in Nutrition.(1-3,R6)
PREQ Permission of instructor

483 Internship.(3,3,3)
484 Integration of theory and practice in a setting appropriate to the student's career field
485 S/U grading PREQ Permission of instructor 9 hours per week per course

Graduate Courses

531 Food Preservation.(3)
533 Methods in Human Nutrition and Foods (3)
534 Experimental Methods of Foods (4)
536 Advanced Human Nutrition (3)
537 Diet Therapy (3)
538 Clinical Experience in Dietetics (1)
539 Introduction to Professional Practice.(3)
630 Nutrition Throughout the Life Cycle.(3)
635 Nutrition Education (3)
636 Protein, Carbohydrates and Lipids (3)
637 Advanced Diet Therapy (3)
638 Community Nutrition (3)
639 Vitamins and Minerals (3)
681 Practicum in Clinical Dietetics (3,R6)
682 Practicum in Administrative Dietetics (3,R6)
683 Practicum in Community Dietetics (3)
693 Topics in Nutrition and Food Science.(1-3,R9)

Office Administration and Business Education (OA)

231 Keyboarding/Word Processing I.(3)
Keyboard control and technique, business letters, memoranda, manuscripts, and tabulation. Students with two years of high school typewriting are not eligible to enroll in 231

293 Topics in Office Administration.(1-3,R6)

300 Word Processing II.(3)
Word processing skill development and application using electronic typewriters and microcomputers PREQ 231 or equivalent

304 Business Communications.(3)
Application of written, oral, and interpersonal communication theory in business PREQ ENGL 102.

340 Information Processing Systems.(3)
Information processing and interpretation, use of the information processor, computer, and microcomputer; systems design; organizational implications PREQ 231 or equivalent. 2 Lecture, 2 Lab

389 Cooperative Education in Office Administration.(1 or 3,R15)
See page 125

393 Topics in Office Administration.(1-3,R6)

401 Office Systems and Simulations.(3)
Organization, supervision, and related office administration responsibilities, office simulations PREQ 300

402 Administrative Management and Policy.(3)
Systems analysis, leadership and human relations, and control of office operations

403 Business Research and Reports.(3)
Identification of research problems, collecting and analyzing data, presenting findings for decision making

415 Administration of Business Education Programs.(3)
Administration, supervision, and coordination of business and office education programs.

483 Internship in Business and Office Education.(3,3,3)
484 Supervised work experience in applications of previously studied theory S/U grading
485 PREQ Junior standing, 2.0 GPA, permission of department head Minimum of 10 hours per week

Graduate Courses

601 Trends and Issues in Business Education.(3)
602 (IET & HE 602) Vocational Education History and Philosophy (3)
603 Research in Business Education.(3)
605 Managerial Communication.(3)
683 Internship in Vocational Business Education (3)
684 Internship in a Business Firm.(1-3)
693 Topics in Business and Office Education.(1-3,R9)
695 Seminar in Business and Office Education (3)

Parks and Recreation Management (PRM)

150 Career Opportunities in Parks and Recreation.(1)
Exploration of varied career opportunities, career planning advisement, professional values and requirements, exposure to professionals in the field 2 Lab/discussion/demonstration

250 Foundations of Parks and Recreation Management.(3)
Historical and philosophical development, emphasizing natural and cultural resources, current practice settings PREQ 150 or permission of instructor 2 Lecture, 2 Lab

255 Special Events Planning and Promotion.(3)
Approaches and techniques for planning and promoting fairs, festivals, concerts, lectures, benefits, exhibits, campaigns, award ceremonies, and tours PREQ Permission of instructor 2 Lecture, 2 Lab

270 Theories of Recreation Program Planning and Leadership.(3)
Group dynamics and leadership techniques, planning and directing programs in various service settings

321 Outdoor Education.(3)
Theory and principles of outdoor education as an interdisciplinary approach to learning in a recreational or educational setting

350 Interpretation of Natural and Cultural Resources.(3)
Study and practice in techniques of designing, producing, and presenting interpretive materials and programs, evaluation of commercial and self-made resources PREQ Permission of instructor 2 Lecture, 2 Lab

370 Internship Orientation.(1)
Orientation to the internship; readings, agency contract, preparation of personnel records, supervised field work PREQ Permission of instructor 2 Lab/discussion/demonstration.

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 page 125

430 Commercial Recreation.(3)
Survey of specific commercial recreation enterprises, their unique opportunities and socio-economic-political impact PREQ Permission of instructor 2 Lecture, 2 Lab

431 Maintenance of Sites and Facilities.(3)
Principles and practices in planning and organizing maintenance programs in recreational settings 2 Lecture, 2 Lab

433 Outdoor Recreation.(39
The social, economic, and political foundations of outdoor recreation, recreation sites, recreation resource policy PREQ Permission of instructor 2 Lecture, 2 Lab

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

436 Tour Planning and Organization.(3)
Analysis of how to develop itineraries, price, finance, contract, advertise, market, and escort tours PREQ Permission of instructor 2 Lecture, 2 Lab

437 Travel Agency Management.(3)
Current principles, issues, and practices related to the management of contemporary travel agencies PREQ Permission of instructor 2 Lecture, 2 Lab

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

450 Elements of Parks and Recreation Planning.(3)
Elements of site and facility planning and design, methods and techniques, preparation of a site development plan PREQ Permission of instructor 2 Lecture, 2 Lab

460 Management of Natural and Cultural Resources.(3)
Analysis of specific considerations and techniques in recreation resource and visitor management, historical conservation and restoration, management problems PREQ Permission of instructor 2 Lecture, 2 Lab

461 Community Recreation Management.(3)
History, principles, organization, and supervision of community programs, personnel functions, agency coordination PREQ 250 or permission of instructor 2 Lecture, 2 Lab

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

493 Topics in Parks and Recreation Management.(1-3,R6)
PREQ Permission of program coordinator 1 Lecture, 2 Lab

495 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
540 Travel and Tourism (3)
550 Elements of Parks and Recreation Planning.(3)
560 Management of Natural and Cultural Resources (3)
561 Community Recreation Management (3)
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 Man and Value.(3)
Examination of ways in which philosophers have interpreted reality, knowledge, and the nature of values (F3a)

201 (300) Logic and Its Uses.(3)
Principles and problems of reasoning, analysis and evaluation of arguments on philosophical, social, and scientific issues (F3)

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) (formerly 301)
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) (formerly 302)
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) (formerly 303)
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

320 Ethics and the Professional.(3)
Moral aspects of questions encountered by members of professional communities, including medicine, law, business, and engineering

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 Beginning/Advanced Beginning Swimming.(1)
Basic water safety skills, American Red Cross swimming outline 2 meetings (F5)

103 Intermediate/Advanced Swimming and Aquatic Sports.(1)
Swimming strokes and diving, American Red Cross outline, skills, rules, conditioning, and strategy for water polo, basketball, volleyball, and relays 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 Training.(1)
American Red Cross outline for WSI certificate PREQ Current Red Cross Certificate in Emergency Water Safety or Lifesaving Training or Advanced Lifesaving 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)
Lab fee charged. PREQ 103 or equivalent. 1 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)

117 Wrestling.(1)
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)

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. Lab fee charged 2 meetings (F5)

204 Snow Skiing.(1)
Lab fee charged 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 Folk and Square Dancing.(1)
Skills, control, poise required in folk, national, and character 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)

223 Soccer and Basketball.(1)
2 meetings (F5)

224 Field Hockey.(1)
2 meetings (F5)

225 Volleyball and Softball.(1)
2 meetings (F5)

226 Tag Football and Team Handball.(1)
2 meetings (F5)

227 Track and Field.(1)
2 meetings (F5)

228 Adapted Physical Education.(1,R3)
Remedial and therapeutic activities PREQ Approval 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 non-swimming aerobic activity for all ages and fitness levels 2 meetings

Major Courses

130 Lifeguard Training.(1)
American Red Cross outline for lifeguarding certificate PREQ PE 103 or equivalent. 3 Meetings

150 Career Opportunities.(1)
A lecture/discussion series featuring selected professionals from various employment settings in health, physical education, and therapeutic recreation.

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)
262 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 field hockey 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 Psychological Aspects of Sport.(3)
The psychological aspects of sport and coaching methods

314 Organization and Administration of Camping.(3)
The nature of camping, trends, elements of camp design and management.

316 Administration of Recreational Agencies.(2)
Organizational theory, facility, program, and personnel management in private and commercial recreational agencies PREQ Permission of instructor

325 Physical Education Curriculum and Methods.(2)
Class management, teaching methods and program content for grades K-12

330 Aquatic Recreation Management.(3)
Organization, programming, facility design, and maintenance in various aquatic recreational environments Course may lead to Certified Pool Operator certification

335 Anatomy and Physiology.(4)
The study of the structure and function of the human body PREQ: BIOL 134 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 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; approval of instructor 3 hours per credit hour

389 Cooperative Education in PE and Sports.(1 or 3,R15)
See page 125

400 The Elementary Physical Education Curriculum.(3)
Basic beliefs, guidelines for learning, nature of the learner; developing and implementing effective programs

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 4 meetings

411 Coaching Basketball, Track, and Field.(3)
Methods, materials, skills, and strategies for women's and men's basketball and track and field. 4 meetings

413 Athletic Injury Assessment.(3)
A concentrated study on athletic injury assessment and rehabilitation PREQ 213

415 Physical Education for the Mentally Retarded.(2)
Survey of activities and administration of physical education programs for the mentally retarded.

418 Coaching Softball, Volleyball, and Gymnastics.(3)
Methods, materials, skills, and strategies of coaching softball, volleyball, and gymnastics 2 Lecture, 2 Lab.

423 Kinesiology.(2)
Structure and function of the human muscular system as related to sports and activities PREQ 335

424 Methods in Adaptive Physical Education.(2)
Physical injuries, disabilities, illnesses, experience in analysis and application of therapeutic modalities PREQ 423 or permission of instructor

425 Exercise Physiology. (2)
The study of the acute and chronic effects of exercise on the human body PREQ 335 2 Lecture, 1 Lab

435 Motor Learning. (2)
Analysis of the various theories related to motor learning, including equipment, evaluation techniques and application in an educational environment. 3 Lecture

493 Special Topics.(3,R6)
Trends and issues in physical education, sport management, and recreation

Graduate Courses

500 The Elementary Physical Education Curriculum (3)
512 Physical Education for the Mentally Retarded (2)
514 Camp Leadership (2)
621 Research in Health, Physical Education, Recreation, and Dance.(3)
630 Principles of Physical Education (3)
640 Administration of Physical Education.(3)
650 Physiology of Motion (3)
660 Scientific Foundation of Physical Education.(3)
670 Administration of Intramural Programs (2)
694 Special Problems (1-3)
696 Seminar and Practicum in Physical Education (3)

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)

110 (310) Physical Science.(3)
The basic properties of matter studied experimentally to lead to the establishment of the atomic model. 4 Lecture/Lab (F3)

130 Introductory Physics.(4,4)
131 Noncalculus-based treatment of motion, force, energy, heat, electricity, magnetism, light, and modern physics PREQ MATH130, 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.

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

350 Atomic Physics.(4)
Quantum phenomena, potentials, introductory quantum mechanics, one electron and multiple electron atoms, molecules, introduction to solids PREQ 131, MATH 256

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

370 Solid State Physics.(3)
Phenomenological treatment of the properties of crystalline solids, relationships of properties to the function of solids in modern electronic devices PREQ 131 and MATH 256

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 page 125

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

493 Topics in Physics.(2-4)
PREQ 350, 412, 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/Sociology (PSOC)

105 (305) Current Political and Social Issues.(3)
Analysis of selected social problems and proposed solutions in the light of contrasting political perspectives (conservative, liberal, and radical) (F3)

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 governmental institutions and how politics shapes policies

302 Problems and Policies of American Government.(3)
Alternative public policies in selected areas Social welfare, health care, resources, labor, agriculture, civil rights, business, taxation, defense, and education

303 State and Local Government.(3)
Structure and functions of state and local government, processes of policy formation

304 Public Administration.(3)
Administrative theory and practice, implementation of governmental policies, case studies of the administrative process in such areas as business regulation, health care, and law enforcement.

305 Congress.(3)
Congress as an institution, its role in the formulation of national policies, case studies dealing with legislation in the various areas of national policy

306 American Presidency.(3)
The chief executive, his advisers, role playing, and decision making in the executive branch

307 Civil Service Administration.(3)
Policies, methods, and techniques used in civil service systems, problems and procedures in the public sector, local, state, and national

309 The Politics of Budgeting.(3)
Budgetary aspects of national, state, and local governmental 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

349 Simulation and Gaming.(3,R6)
Development, use, and direction of machine and nonmachine games and simulations in the instruction, exposition, and research of political phenomena

389 Cooperative Education in Political Science.(1 or 3,R15)
See page 125

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 examined.

409 National Security Policy.(3)
Substance and processes of strategy and policy making, relationship of power to foreign policy PREQ 231 or permission of instructor

411 Civil Rights and Liberties.(3)
Judicial interpretation of the First Amendment, rights of the accused and racial minorities, right of privacy

421 Political and Organizational Leadership.(3)
The 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

449 Political Socialization.(3)
Social and psychological processes related to the development of political values and ideas

480 Readings in Political Science.(3)
PREQ Departmental approval

483 Internship in Political Science.(3,3,3)
484 Work experience in a governmental or community agency applying academic studies
485 to practice S/U grading PREQ Permission of department head 9 hours per week per course

493 Contemporary Political Systems.(3,R6)
Problems in the structure and functions of selected political systems reflected against their political cultures

494 Seminar: American Political Systems.(3)
Current issues in American government and politics

495 Honors Seminar.(3)
Enrollment by invitation only, preference given to seniors

Graduate Courses
507 American Political Parties (3)
509 National Security Policy (3)
511 Civil Rights and Liberties (3)
521 Political and Organizational Leadership (3)
536 Dynamics of World Order (3)
549 Political Socialization (3)
580 Reading in Political Science (3)
593 Contemporary Political Systems (3,R6)
595 Seminar: The American Political System.(3)
676 Government and Press Relations (3)
693 Topics in Political Science (1-6,R9)

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)

105 (305) Thinking, Reasoning, and Expression.(3)
Practice in problem solving, using mental imagery, applying critical thinking, analyzing the components of reasoning and valuing, and generating and evaluating solutions (F3)

250 General Psychology.(3)
Overview of psychology and the scientific study of behavior, topics in social, abnormal, 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 instuctor; 251.

280 Research in Psychology I. (1-3, R3)
Introductory-level supervised bibliographical or research activity S/U Grading PREQ Permission of instructor

293 Contemporary Issues in Psychology.(1,R3)
A forum for topics of current interest in psychology.

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 EDCI 231, PSY 320, and admission to professional education sequence or permission of the psychology department head, field experience required

324 Development: Conception through Adolescence.(3)
Theories and principles of physical, cognitive, emotional, and social development of human beings from conception through adolescence PREQ 250 or permission of instructor

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

343 Sensation and Perception.(3)
Analysis of the sensory and perceptual systems, review of theories and research on how visual and auditory stimuli are analyzed and interpreted by the brain PREQ 250

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 page 125

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

412 Attitudes and Public Opinion.(3)
Attitude structure and functions, attitude-behavior controversy, attitude change, public opinion and mass communication PREQ 250 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 Physiological Psychology.(3)
Physiological and biochemical bases of behavior; sensation, neurophysiological correlates of learning, memory, sleep, other topics 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)
A 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.

482 Internship in Psychology.(3,3,3,3)
483 Application of theory, methods, and techniques in a cooperating agency under faculty
484 supervision PREQ. 2.0 GPA, 20 hours of psychology, and a course in methods of
485 counseling or permission of instructor 9 hours applicable to major 10 hours per week per course

Graduate Courses

512 Attitudes and Public Opinion (3)
515 Community Psychology (3)
526 Death and Dying.(3)
530 Personality (3)
540 Physiological Psychology (3)
541 Health Psychology (3)
544 Language, Memory, and Cognition (3)
548 Human Neuropsychology (3)
555 Systems and Theories in Psychology (3)
570 Abnormal Psychology (3)
574 The Emotionally Disturbed Child and Adolescent.(3)
610 Advanced Social Psychology (3)
612 Group Dynamics (3)
621 Advanced Educational Psychology (3)
624 Child Development.(3)
625 Adolescent Development.(3)
626 Adulthood and Aging.(3)
651 Advanced Research Methods (3)
652 Advanced Research Proposal Writing (1)
661 Psychological Assessment I (4)
662 Personality Assessment.(3)
663 Assessment and Intervention with Infants (3)
671 Advanced Psychopathology (3)
673 Professional Issues (3)
675 Behavior Modification.(3)
676 Psychotherapy (3)
677 Group Psychotherapy (3)
678 Family Systems (3)
679 Survey of Clinical Psychology (3)
680 Directed Study in Psychology (3,R6)
683 Internship in Psychology (6,6)
684
686 Practicum in Psychology (4)
693 Topics in Psychology (3,R9)
699 Thesis.(3,R6)

Public Affairs (PA)

Graduate Courses

571 Government-Business Relations (3)
572 Public Policy Formulation (3)
670 Public Affairs Administration.(3)
671 Budgetary Processes (3)
672 Governmental Organizations (3)
673 Public Policy Analysis (3)
674 Statistics and Decision Making.(3)
676 Government and Press Relations (3)
685 Internship in Public Affairs (3)

Radio and Television (RTV)

140 (JOUR 140) Introduction to Mass Communications.(3)
Channels of mass communications; television, film, newspapers, magazines, books, recordings, their organization, characteristics, and methods of communication, current trends and problems

250 Fundamentals of Broadcasting.(3)
Historical, cultural, and economic aspects of broadcasting and electronic communications. PREQ 140

251 Broadcast Writing.(3)
Writing commercials, public service announcements, station promotions, and short educational/entertainment features for radio and television PREQ: 250, ENGL 102 2 Lecture, 2 Lab

253 Comparative Studies in Film and Television.(3)
Evaluative study of the relationship between the film and television industries, historical perspectives, techniques and impact, emphasis on the "language" of video PREQ 250 and ENGL 102 or permission of instructor. 3 Lecture, 2 Lab

301 (JOUR 301) Writing for Mass Communications.(3)
Elements of news, news values, basic interviewing techniques, writing principles and fundamentals; styles used in journalism, broadcasting, advertising, and public relations PREQ ENGL 102, RTV/JOUR 140, basic typing skills (Formerly 240)

340 Multi-Media Techniques.(3)
A combination of the study of radio and television production and still photography PREQ Permission of department head 2 Lecture, 1 Lab

353 Film Production.(3)
Basic elements of 16mm motion picture production, emphasis on practical production techniques and animation PREQ 251, 253, or permission of instructor 2 Lecture, 2 Lab

354 Radio Production I.(3)
Practical course in production of radio commercials, public service materials, and news actualities PREQ 251 or permission of instructor 2 Lecture, 2 Lab

355 Television Production I.(3)
Producing and directing various television programs and productions, emphasis on studio operations PREQ 251 or permission of instructor 1 Lecture, 4 Lab

358 Broadcast Announcing.(3)
In-depth skills course in radio and television announcing and "on-camera" appearances, emphasis on development of the broadcast voice PREQ 250 and STA 311 or permission of instructor. 1 Lecture, 4 Lab

445 Directing for the Camera.(3)
The art of directing on-camera performances PREQ 355 and STA 245 or permission of instructor 1 Lecture, 4 Lab

453 Advanced Studies in Film and Television.(3)
Continuation of 253, emphasis on technical analysis and sociological impact. PREQ 253 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, emphasis on field production, editing and related technical/ creative skills PREQ 355 or permission of instructor 1 Lecture, 4 Lab

456 Broadcast Operations.(3)
Principles of management in radio, television, and cable at the local and network levels PREQ 250

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 250

458 Broadcast Sales and Promotion.(3)
Introduction to the skills involved in selling broadcast time and broadcast promotions PREQ 250 2 Lecture, 2 Lab

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 301 or permission of instructor 2 Lecture, 2 Lab

460 Communications Ethics and Responsibilities.(3)
The legal and moral responsibilities of communicators in the speech and broadcast areas PREQ 250 or permission of instructor

Reading (EDRD)

150 Introduction to College Reading.(3)
Reading course to help freshmen become better prepared for reading college-level material Credit earned in this course will not count toward 128 hours required for graduation.

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

280 Speed Reading.(3)
Techniques for improving reading speed, efficiency, vocabulary and study habits, skimming, pacing, eye exercises, comprehension and retention. 2 Lecture, 2 Lab

320 Phonics and Word Analysis.(3)
The basics of phonics and word analysis skills used to teach reading

323 Reading and Communication Skills in Content Areas.(2)
Methods for teaching reading and other communication skills in content areas PREQ Admission to the professional education sequence

334 Reading Instruction in the Elementary School. (3)
Methods and materials for teaching reading in grades K-6, integration of communication skills in the total developmental reading program PREQ Admission to the professional sequence or consent of the instructor

389 Cooperative Education in Reading.(1 or 3,R15)
See page 125

443 Middle Grades Reading.(3)
Methods and materials for teaching reading and other communication skills in the middle grades, emphasis on organization for instruction, word identification and comparison skills, and reading in content materials

453 High School and Adult Reading.(4)
Methods and materials for teaching reading in high school and adult education PREQ 333 or 443 3 Lecture, 2 Lab

474 Practicum in Teaching Reading. (3)
Assessment and remediation of reading problems and strategies for teaching reading PREQ· EDRD 334 or 443 or 453 or consent of the instructor 2 Lecture, 2 Lab

Graduate Courses

503 Reading Conference I, II (2,2)
513
520 Phonics and Word Analysis (3)
533 Reading and Communication Skills (3)
543 Developmental Reading Instruction for the Middle Grades (3)
553 High School and Adult Reading.(4)
573 Reading Diagnosis and Correction (4)
641 Investigations and Research in Teaching Reading.(3)
651 Clinical Procedures in Remedial Reading (4)
660 Reading Programs in Two-Year Colleges (3)
661 Developmental Reading (3)
672 Organization and Supervision of Reading Programs (3)
676 Reading Workshop (3)
700 History and Psychology of Reading Instruction (3)
710 Field Experience in Reading (3)
720 Developing and Evaluating Reading Materials (3)
740 Reading Research Projects (3)
750 Reading Communication and Language Structure.(3)
780 Independent Study in Reading Education (3)
795 Advanced Seminar in Reading.(3)

Religion (REL)

103 (300) Man and the Sacred.(3)
Comparison of selected major world religions, examination of problems, including the

existence and nature of deity, evil, and the meaning of religious experience and language (P4)

104 The Biblical World.(3)
Major facets of the Biblical World—ethical, cultural, literary, and historical—and their impact on the Judeo-Christian tradition.(P5)

380 Independent Study.(1-3,R6)

493 Topics in Religion.(3,R6)

Science Education (SCI)

293 Shop for Science Teachers.(3)
Design, construction, and repair of simple laboratory apparatus and electronic equipment, basic work with wood, metal, glass, and soldering 6 Lab

331 Methods and Materials for Elementary Science.(2)
Integrated lab experiences in micro-teaching, inquiry teaching skills using recent curricular materials PREQ Completion of general education science requirements

341 Methods and Materials for Secondary School Science.(2)
Integrated treatment of methods, materials, curriculum, and innovations in secondary science PREQ Completion of general education science requirements

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

493 Topics in Science Education.(1-3,1-3)
494

495 (HIST 495) Seminar in Science and Society.(2)
The interaction between scientific and technological change and culture, examples from the prehistoric to the present.

Graduate Courses
551 Environmental Science for Teachers (3)
593 Topics in Science Education (1-3,R6)
594
611 Physical and Earth Science for Teachers (3)
621 Biology and Environmental Science for Teachers (3)
695 Seminar in Science Education (3,3)
696

Secondary Education and Special Subject Teaching (EDSE)

Methods and Materials for Secondary Teaching
Methods, materials, curriculum, and trends in teaching in the secondary schools PREQ EDCI 231

310 Business and Office Education.(2)

313 Social Studies.(2)

314 English.(2)

315 Mathematics.(2)

316 Science.(2)

317 Home Economics.(2)

318 Speech.(2)

319 Drama.(2)

320 Industrial Subjects.(3)

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

412 Modern Foreign Languages.(3)
Methods and materials for teaching languages and ESL

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 adviser 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, HEAL 492

495 Student Teaching Seminar.(3)
Theory related to practice during student teaching COREQ 490

Graduate Courses

512 Methods for Foreign Languages and ESL.(3)
586 Internship in a Second Teaching Area (3)
680 Independent Study in the Secondary Curriculum (1,1)
681

Social Sciences (SSC)

414 Cross-Cultural Communications.(3)
Cultural differences affecting communications between Americans and others

Graduate Course

514 Cross-Cultural Communications (3)

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 Policies, Programs, and Services.(3)
Historical development of social welfare policies, policy development and change, understanding the political process, and the relationship to social work values

253 Foundations of Social Work Practice.(4)
Basic knowledge, values, and skills of the profession, emphasis on use of self and the generalist approach. PREQ 151 or permission of department head 3 Lecture, 2 Lab

302 Violence and Abuse.(3)
The dynamics of interpersonal violence and abuse, including child abuse, sexual assault, and domestic violence, their incidence, related policies, treatment issues and services.

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 PREQ Admission to major or permission of instructor

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

362 Social Work Practice I, II.(4,4)
364 Application of knowledge and skill to social work practice, discussion and simulation of functions and task roles, expansion of professional use of self, emphasis on micro-systems in 362 and macrosystems in 364 PREQ 251, 253 and admission to the major for 362, 362 for 364 3 Lecture, 2 Lab

373 Social Welfare Policy: Issues and Analysis.(3)
Current legal, political, economic, and social issues that influence the profession and practice of social work

389 Cooperative Education in Social Work.(1 or 3,R15)
See page 125

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

466 Social Work Research and Evaluation.(4)
Scientific methods of research used in building practice knowledge and evaluating service delivery PREQ 362 or permission of instructor 3 Lecture, 2 Lab

480 Senior Seminar.(2)
COREQ 496

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 Experience.(4,4,4)
487 Full-time supervised placement in selected human service agencies to integrate theory
488 with practice and prepare for professional responsibility Concurrent enrollment required. PREQ. 364 COREQ 496

496 Field Seminar.(3)
Integration of content with field practice COREQ 486, 487, 488

Graduate Course
593 Topics in Social Work.(1-3,R6)

Sociology (SOC)

103 (300) Human Society.(3)
Analysis of human behavior in social and cultural contexts, emphasizing the sociological perspective.(P1a)

105 (PSC/SOC 105/308) Current Political and Social Issues.(3) (F3)

231 Principles of Sociology.(3)
Analysis of human social behavior, basic concepts in current theory and research.

304 Social Change. (3)
Changes in human societies through cultural, economic, social, and political processes, introduction to development, social movements and social conflict

314 Social Inequality.(3)
Social inequalities in wealth, income, prestige, and power; inequalities based on sex, age, and race

326 Gender Roles and Society. (3)
Gender roles will be examined in a sociological context emphasizing the relationship between these roles and the pre-existing sexual stratification system

330 Rural Society.(3)
Application of sociological concepts to rural environments Characteristics of rural population, social structure and social institutions Social change, structure of agriculture and local government structure and processes are considered

342 The Individual in Society.(3)
Individual behavior in social context, social interaction

350 Deviant Social Behavior.(3)
Causes and control of individual and group rebellion or retreat from prescribed social norms

354 Social Problems.(3)
Problems of modern American society such as poverty, social conflict, corporate power and capitalism, alienation, and deviance

355 Criminology.(3)
Nature, extent, and causes of criminal behavior; role of police, courts, and corrections, prevention and control programs

380 (ANTH 380) Ethnographic Research Methods.(3)

385 Methods of Social Research.(3)
The logic of scientific inquiry, techniques of research used in sociology, including sample surveys PREQ 3 hours in sociology

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)
See page 125

391 Sociological Theory.(3)
The development of sociological theory, issues in classical and contemporary social thought.

414 (ANTH 414) Minority Groups.(3)
Relations between dominant and subordinate races and ethnic groups, historical and comparative aspects, Blacks, Chicanos, and Indians

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

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

434 Regional and Societal Development.(3)
Social dimensions of economic growth and development with particular emphasis on Third World countries; alternative definitions of development, problems related to the implementation of change in the context of national, regional and institutional structures

448 Social Movements.(3)
Social movements and collective behavior, mass efforts to promote or resist social change, comparison of riots, reform movements, and revolutions

454 Sociology of Conflict and Conflict Resolution.(3)
Analysis of sociological theories of social conflict, including Marx, Weber, Simmel, Coser, Dahrendorf, and Collins, case studies of conflict and conflict resolution stressing the applications of theory and research

480 Independent Study in Sociology.(1-2,R6)
PREQ Written application, permission of instructor and adviser

483 Internship in Sociology.(3,3,3)
484 Application of theory and knowledge to work experience in a cooperating agency
485 S/U grading Three hours credit applicable to sociology major or minor 9 hours per week per course

494 Topics in Sociology.(3,R6)
PREQ Permission of instructor

Graduate Courses

514 (ANTH 514) Minority Groups (3)
532 Community Organization and Development(3)
534 Regional and Societal Development.(3)
554 Sociology of Conflict and Conflict Resolution (3)
580 Independent Study in Sociology (1-2,R6)
594 Topics in Sociology (3,R6)

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)
PREQ Placement or permission of department head

204 A Literary Perspective of Spanish Civilization.(3)
Selected Hispanic literary masterpieces as a reflection of Hispanic civilization PREQ ENGL 102 (P5)

231 Intermediate Spanish I, II.(3,3)
232 Continuation of oral and written Spanish grammar, readings and discussion on Spanish culture and civilization, readings in more specialized areas, lab practice may be assigned PREQ 132 or equivalent or placement for 231, 231 or equivalent or placement for 232

240 Intensive Spanish II.(6)
Continuation of 110, increasing emphasis on reading and writing skills PREQ Permission of instructor 4 Lecture, 5 Lab, 5 Drill

301 Spanish Composition.(3)
PREQ 232 or equivalent or placement.

302 Conversational Spanish.(3)
Advanced intermediate course emphasizing topical dialogue PREQ 232 or equivalent or placement

303 Applied Spanish Conversation.(3,R6)
Apprenticeship in the intensive language program PREQ 232 or 240, sophomore standing, selection by faculty. 10 Lab

320 Methods of Teaching Foreign Language.(3)
Methods and materials for teaching second languages in grades K-12 PREQ Admission to professional sequence or permission of instructor

321 Spanish Civilization I, II.(3,3)
322 Geographical, political, cultural, and historical aspects of Spain, course division at the 15th century PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head

331 Survey of Spanish Literature I, II.(3,3)
332 The main literary movements, authors, and works in Spain since the 12th century, course division at 15th century. PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head.

333 Survey of Latin American Literature.(3)
Literary movements, authors, and works of Latin America PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head

335 Introduction to Spanish Prose and Poetry.(3)
Introduction to Spanish literary texts, reading and analysis of literary works PREQ 232 or 240

351 Spanish Phonetics and General Linguistics.(3)
Analysis of the Spanish sound system, intensive drill in pronunciation, articulation, intonation, and rhythm, introduction to linguistics PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head

389 Cooperative Education in Spanish.(1 or 3,R15)
PREQ 301, 302 See page 125

393 Special Topics in Spanish. (1-3, R6)
PREQ 232 or 240

431 Studies in Spanish Literature.(3,R6)
Study of an author or authors, a genre, literary movement, school, or literary period of Spain. PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head

432 Studies in Latin American Literature.(3,R6)
Study of an author or authors, a genre, literary movement, school, or literary period of Latin America PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head

451 Advanced Spanish Grammar.(3)
Study of the more difficult grammatical forms and usages of the Spanish language PREQ 232 or 240 PREQ or COREQ. 301 and 302 or permission of department head

452 Advanced Spanish Conversation.(3)
Discussion of selected topics, reports on assigned readings, situational dialogues in practical, everyday Spanish PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head

481 Independent Studies in Spanish.(1-3,R6)
PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head

Special Education (SPED)

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

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

340 Math and Science for Mildly Handicapped K-12 Students.(3)
Math and science curricula for handicapped students, emphasis on assessment, goal development, program planning, implementation, and adaptation PREQ 240

341 Language Arts for Mildly Handicapped K-12 Students.(3)
Curricular in oral language, reading, writing, and spelling, emphasis on assessment, goal development, program planning, implementation, and curricular adaptation PREQ 240

389 Cooperative Education in Special Education.(1 or 3,R15)
See page 125

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

416 Professional Communication Skills for Educators.(3)
Working with parents, teachers, students, and others in a helping consultative relationship, skills for effective participation on interdisciplinary teams PREQ 240

417 Behavioral Management of the Exceptional Child.(3)
Principles and techniques of management in the classroom

420 Reading for the Exceptional Child.(3)
Instructional strategies suited to the needs of the exceptional child, assessment of weaknesses and strengths in reading PREQ 240, 310, 320

432 The Physically Handicapped Child.(3)
Social, psychological, and medical problems of children with physical disabilities

442 Living Skills for Mildly Handicapped K-12 Students.(2)
Career education, including personal-social and daily living skills and study skills PREQ 240

450 Prescriptive Teaching for Exceptional Youth.(3)
Development of Individual Educational Plans (IEPs), formal and informal diagnosis and prescriptions based on a diagnostic prescriptive model

460 The Gifted Child.(3)
Characteristics, problems, and special needs of gifted and talented children and youth

461 Teaching the Gifted Student.(3)
Approaches under common administrative structures and in ideal settings, applications of learning theories

462 The Bright Underachiever.(3)
Problems involving bright-average and highly gifted children with a variety of educational limitations

485 Field Experience in Teaching.(3,R6)
Supervised experience for a second teaching certificate or for an initial certification for individuals who are employed as full-time teachers 9 hours per week

486 Practicum in Mental Retardation.(1-3)
3 hours per credit hour

487 Practicum in Learning Disabilities.(1-3)
3 hours per credit hour.

489 Practicum in the Gifted and Talented.(1-3)
3 hours per credit hour.

490 Supervised Student Teaching.(9)
A full-time teaching experience COREQ 495

495 Special Education Seminar.(3)
Theory related to practice during student teaching COREQ 490

Graduate Courses

501 Introduction to Learning Disabilities (3)
504 Educational Programs for Students with Behavior Disorders (3)
513 Teaching Adolescents with Learning Problems (3)
531 The Physically Handicapped Child (3)
550 The Gifted Child.(3)
551 Teaching the Gifted Child.(3)
552 Special Population in Gifted Education (3)
560 Structure and Function of the Eye.(3)
561 Methods of Teaching the Visually Impaired.(3)
562 Orientation and Mobility for the Visually Impaired.(3)
593 Topics in Special Education.(1-3,R6)
600 Creative Thinking and Problem Solving (3)
603 Administration of Special Education Programs (3)
604 Current Issues in Special Education.(3)
629 Curriculum Moderately/Severely Retarded Child (3)
630 Problems in Teaching the Mentally Retarded (3)
631 Appraisal of Exceptional Children (3)
681 Seminar in Learning Disabilities (3)
682 Research in Special Education (3)
684 Teaching Students with Behavioral Disorders (3)
687 Practicum in Special Education (1-3,R3, 1-3,R3)
688

Speech and Theatre Arts (STA)

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 (304) The Theatre Experience.(3)
Analysis of what theatre is about, what goes on in theatre, and what it means to be a viewer (P3b)

110 (310) Persuasive Thinking, Reasoning, and Expression.(3)
Development of thinking, reasoning, and oral skills through various rhetorical problems and simulations, emphasis on the student's analysis, synthesis, integration, communication, and valuing behaviors (F3)

130 Makeup.(1)
Application of stage makeup

131 Introduction to Theatre.(3)
Survey of theatre, its growth and impact on American culture

132 Stagecraft.(4)
Techniques, materials, methods, set construction and painting, simple lighting 3 Lecture, 2 Lab

140 Acting I.(3)
Basics of acting

232 Concept Creation.(3)
Formulation of concepts for theatrical production, the director-designer relationship, script analysis, aesthetics

240 Acting II.(3)
Stage movement, vocal exercises, scene study PREQ 140

245 Acting for the Camera I.(3)
The art of acting as it relates to the actor and the television/film environment. PREQ 140 or permission of instructor 2 Lecture, 2 Lab

250 Introduction to Speech Communication.(3)
Basic principles of communication skills in interpersonal, small group, and public communication.

270 Communication Arts Workshop I.(1-3,R6)
Practical experience, performance, research in debate, forensics, film, television, radio, or theatre PREQ Permission of instructor 3 Lab per credit hour

300 Dramatic Literature and Criticism I, II.(3,3)
301 Dramatic structure, interpretation, and evaluation of masterpieces, Greek to modern, course division at 1600

311 Voice and Articulation.(3)
Effective speech production, individual practice, standards of good diction, introduction to phonetics

312 Group Discussion and Conference.(3)
Techniques for participation in small groups, roles of group leader and participant, practice in problem-solving deliberation, parliamentary practice

313 Argumentation and Debate.(3)
Analysis, evidence, refutation, reasoning, techniques of delivery, participation in debate required

314 Advanced Public Speaking.(3)
Special problems in speech communications, delivery PREQ 250

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

316 Psychology of Speech.(3)
Psychological principles active in speech communication.

320 Oral Interpretation of Literature I.(3)
Principles of oral interpretation, literary analysis, practice in prose, poetry, drama.

321 Oral Interpretation of Literature II.(3)
Advanced techniques; analysis, practice, individual repertoire

330 Scene Design I.(3)
Theory and techniques of scene design, rendering, perspective PREQ 132, 232

335 Lighting Design I.(3)
Theory and techniques of stage lighting, drafting the light plot, script analysis, the director-designer relationship PREQ 132, 232

338 Costume Design I.(3)
Theory and techniques of costume design, history of costume, rendering PREQ 232

340 Acting III.(3)
Acting theories, characterization. PREQ 240

345 Acting for the Camera II.(3)
PREQ 245 or permission of instructor. 1 Lecture, 4 Lab

350 Directing I.(3)
Basic techniques, student direction of scenes PREQ 132, 140, 232

351 Directing II.(3)
Advanced production problems; student direction of a one-act play PREQ 350

370 Communication Arts Workshop II.(1-3,R6)
Continuation of 270 PREQ Permission of instructor 3 Lab per credit hour

371 Childrens Theatre Tour.(3,R6)
Participation in annual Spring Theatre Tour to elementary schools, minimum of 12 days of touring PREQ Permission of instructor

389 Cooperative Education in STA.(1 or 3,R15)
See page 125

400 History of the Theatre I, II.(3,3)
401 Conditions under which great plays have been produced from Greeks to the present, course division at 1600

410 Theory of Communication.(3)
Analysis of communication models, general semantics, field research

411 Rhetorical Theory and Criticism.(3)
Ancient and modern concepts and theories, application to rhetorical acts

412 History of Public Address I, II.(3,3)
413 Survey of theories and techniques from the Greeks to the present, course division at 19th century.

420 Readers Theatre.(3)
Preparing and presenting a group recital, development of a theme adapting prose, poetry, drama PREQ 320

430 Scene Design II.(3)
Advanced theory and techniques of scene design, technical drawing, models, rendering PREQ 330

435 Lighting Design II.(3)
Advanced problems in stage lighting, nonproscenium lighting special effects PREQ 335.

438 Costume Design II.(3)
Advanced theory and techniques of costume design, production design, rendering PREQ 338.

440 Creative Dramatics.(3)
The use of creative drama in grades K-12, survey of children's literature

441 Acting IV.(3)
Period and style. PREQ: 340 or permission of instructor

450 Directing III.(3)
Problems in directing period plays PREQ 351

451 Directing IV.(3)
Directing a major production. PREQ Permission of theatre faculty

470 Design III.(3)
Set, lighting, or costume design for a major production PREQ Permission of the instructor

483 Internship in Speech and Theatre Arts.(3,R9)
Work experience in a broadcast, communication, or performing arts facility S/U grading PREQ. 2 00 GPA, permission of department head 9 hours per 3-hour course

486 Theatre Production.(3,R12)
Intensive training in performance and/or technical theatre PREQ Permission of instructor or admission to the BFA program. Meetings as arranged.

495 STA Seminar.(3,R15)

499 BFA Thesis.(2)

Graduate Courses
586 Theatre Production.(3) 595 STA Seminar (3)

Sport Management (SM)

260 Introduction to Sport Management. (2)
Survey of career opportunities and competencies

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.

380 Independent Study. (1-3,R3)
A topic in sport management agreed upon by student and instructor PREQ EH 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 Page 125

415 Legal Issues for the Sport Practitioner. (2)
Study of legal issues as they pertain to sport delivery systems, physical education and recreational activity settings Basic legal terminology, risk management, litigation procedures, case law and current issues are analyzed PREQ Senior standing or permission of instructor

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 Senior standing or permission of instructor

495 Sport Management Seminar. (1)
Analysis of management in a specific organization related to the student's internship PREQ Permission of adviser and department head. 2 Seminar

484 Internship in Sport Management. (6,6)
485 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

Therapeutic Recreation (TR)

240 Foundations of Therapeutic Recreation.(3)
The provision of recreation services as a vehicle for human growth and development, emphasis on the needs of the ill, disabled, and disadvantaged.

253 Activity Skills for Special Populations.(2)
Active and passive games and other social events for improving the health and self-image of people with special needs

352 Therapeutic Recreation Processes and Techniques.(3)
Leadership, programming, and client evaluation principles for various treatment settings PREQ 240

360 Therapeutic Recreation Services for the Elderly.(3)
An investigation of therapeutic recreation provision for the elderly through a service continuum model

385 Pre-Internship Seminar.(1)
Overview of NCTRC standards for professional certification, personal communication skills, practicum documentation procedures, internship site selection PREQ TR major, junior standing

389 Cooperative Education in Therapeutic Recreation.(1 or 3,R15)
See page 125

396 Special Topics.(1-3)

417 Administration of Therapeutic Recreation Services.(3)
Organization, function, and management of agencies providing recreation services to special populations PREQ 240

470 Personal Growth Through Outdoor Adventure.(3)
Strategies and techniques for conducting individual and group initiatives, values clarification sessions, and environmental awareness exercises in an outdoor setting Field trips required. PREQ permission of instructor 2 Lecture, 2 Lab

481 Independent Study.(1-3)

484 Field Experience in Therapeutic Recreation.(6,6)
485 Experience designed to integrate theory with practice, observation, field work, andplanning in a setting related to student's area of interest. PREQ Permission of program coordinator, TR major 3 hours per credit hour

Graduate Course
570 Personal Growth Through Outdoor Adventure.(3)

University Studies-Interdisciplinary (USI)

101 Honors Forum.(1)
Interdisciplinary introduction to the academic milieu—scholarly controversy, the ferment of ideas, study and research.

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

THE REGISTER

The University of North Carolina

Sixteen Constituent Institutions

The University of North Carolina is comprised of all the public institutions of higher education in North Carolina that confer degrees at the baccalaureate level or higher The university was authorized by the state constitution in 1776, and it was chartered in 1789 by the General Assembly

The University of North Carolina opened its doors to students at Chapel Hill in 1795 Thereafter, beginning in the latter part of the nineteenth century, the General Assembly of North Carolina has established and supported fifteen other public senior institutions in keeping with Article IX, Section 8, of the Constitution of North Carolina which provides that the "General Assembly shall maintain a public system of higher education, comprising The University of North Carolina and such other institutions of higher education as the General Assembly may deem wise "

By 1969, The University of North Carolina included six constituent institutions, governed by a single board of trustees This multi-campus university had its beginnings in legislation enacted in 1931 that defined The University of North Carolina to include the University of North Carolina at Chapel Hill, North Carolina State University at Raleigh, and the University of North Carolina at Greensboro In the 1960s three additional campuses were added The University of North Carolina at Charlotte, the University of North Carolina at Asheville, and the University of North Carolina at Wilmington

Beginning in 1877, the General Assembly of North Carolina established or acquired ten additional separately governed state-supported senior institutions of higher education They are Appalachian State University, East Carolina University, Elizabeth City State University, Fayetteville State University, North Carolina Agricultural and Technical State University, North Carolina Central University, North Carolina School of the Arts, Pembroke State University, Western Carolina University, and Winston-Salem State University Then, in 1971, the General Assembly redefined The University of North Carolina, and under the terms of that legislation all sixteen public senior institutions became constituent institutions of The University of North Carolina.

The constitutionally authorized Board of Trustees of the six-campus University of North Carolina was designated the Board of Governors and this body is by law The University of North Carolina The Board of Governors consists of thirty-two members elected by the General Assembly, and it is charged with "the general determination, control, supervision, management, and governance of all affairs of the constituent institutions " The chief executive officer of the university is the president.

Each constituent institution of the university has its own faculty and student body The chief administrative officer of each institution is the chancellor, and the chancellors are responsible to the president.

Each constituent institution also has a board of trustees composed of thirteen members eight elected by the Board of Governors, four appointed by the governor, and the elected president of the student body *ex officio* (The School of the Arts has two additional *ex officio* trustees) The principal powers of these institutional boards are exercised under a delegation of authority from the Board of Governors

BOARD OF GOVERNORS

Samuel H Poole, Chairman	Raleigh
W Travis Porter, Vice Chairman	Research Triangle Park
Charles Z Flack, Jr , Secretary	Forest City

Roderick D Adams	Durham
Irwin Belk	Charlotte
Lois G Britt	Kenansville
Philip G Carson*	Asheville
Wayne A Corpening	Winston-Salem
J Earl Danieley	Elon College
Walter R Davis	Kitty Hawk
Charles D. Evans	Manteo
John A Garwood	North Wilkesboro
R Phillip Haire	Sylva
James E Holshouser, Jr	Southern Pines
Wallace N Hyde	Raleigh
Joy J Johnson	Fairmont
Robert L Jones	Raleigh
John R Jordan, Jr	Raleigh
Betty R McCain	Wilson
Reginald F McCoy	Laurinburg
Martha F McNair	Winston-Salem
D Samuel Neill	Hendersonville
Ellen S Newbold	Rose Hill
Maxine H O'Kelley	Burlington
J Aaron Prevost	Hazelwood
Louis T Randolph	Washington
Maceo A Sloan	Durham
Asa T Spaulding, Jr	Durham
Priscilla P Taylor	Greensboro
Joseph E Thomas	New Bern
Gus H Tulloss	Rocky Mount
Harold H Webb	Raleigh
Ruth Dial Woods	Lumberton

*Emeriti

GENERAL ADMINISTRATION

C D Spangler, Jr, B S, M.B A, D H L, LL D	*President*
Raymond H Dawson, B A, M A, Ph D	*Vice President, Academic Affairs*
Judith P Pulley, B A, M A, Ph D	*Interim Vice President, Planning*
Nathan F Simms, Jr, B S, M S, Ph D	*Vice President, Student Services and Special Programs*
L Felix Joyner, A B	*Vice President, Finance*
Jasper D Memory, B S, Ph D	*Vice President, Research and Public Service*
Wyndham Robertson, A.B	*Vice President, Communications*
Jay M Robinson, B S, M A, Ed D	*Vice President, Public Affairs*
David G Martin, B A, LL B	*Secretary of the University*
Richard H Robinson, Jr, A.B, LL B	*Assistant to the President*

WESTERN CAROLINA UNIVERSITY

Western Carolina University was founded in August 1889 as a semipublic school Chartered as Cullowhee High School in 1891, it served the Cullowhee community and boarding students from neighboring counties and other states

For Professor Robert Lee Madison, the institution's founder, the aim of the school was teacher training. In 1893, with the first state appropriation of $1,500, a normal department was established. In 1905, the institution became Cullowhee Normal and Industrial School, a title it held for 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 were climaxed in 1951 by 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

BOARD OF TRUSTEES

Richard A Wood, Jr., Chairman ... Asheville
Orville D Coward, Vice Chairman ... Sylva
Deborah B. Strum, Secretary ... Franklin

Terms Expiring in 1991

Levern H. Allen ... Washington, D C.
Alan Allman ... Penrose
James A Cooper ... Cherokee
Robert L. Edwards ... Mars Hill
Deborah B Strum ... Franklin
Richard A. Wood, Jr. ... Asheville

Terms Expiring in 1993

Charles E Cagle ... Sylva
Orville D. Coward ... Sylva
William F Forsyth ... Murphy
W D McKee, Jr ... Cashiers
Charles Pine ... Asheville
Kenneth F. Wilson ... Waynesville

Ex Officio

T Andrew Lambert ... Winston-Salem

ADMINISTRATIVE OFFICERS

1990-91

Office of the Chancellor

Myron L. Coulter, Ed.D ... *Chancellor*
Judy H Dowell, Ph D. ... *Assistant to the Chancellor*
Charles M Ambrose, Ed D ... *Special Assistant to the Chancellor*

Harry E Ramsey, M S W	*Assistant to the Chancellor, Western Carolina University Programs in Asheville*
Richard L Kucharski, J D	*Legal Counsel*

Office of Institutional Studies and Planning

Kenneth L Wood, M Ed.	*Director*
Cecil C Brooks, M S	*Associate Director, University Reports*
Robert W Anders, M A	*Director, Computer Center*

Office of Intercollegiate Athletic

Bobby N Setzer, M Ed	*Director of Athletics*
Frederick Q Cantler, B S	*Associate Director of Athletics*
Steven F Hodgin, M.Ed. .	*Football Coach*
Betty Jean Peele, M A Ed. .	*Associate Athletic Director for Non-Revenue Sports*
Jackson S Leggett, M Ed. .	*Baseball Coach*
Janet Cone	*Women's Basketball Coach, Assistant Athletic Director for Student Services*
Patricia Ann Howell, M A Ed	*Volleyball Coach, Assistant Sports Information Director*
Jeffrey Fela, B S . .	*Assistant Football Coach*
Alfonso deGraffenreid, M Ed.	*Assistant Football Coach*
William Holthouser, B S	*Assistant Football Coach*
Gregory G Blatt, M S	*Head Basketball Coach*
Keith Walker, B S	*Assistant Basketball Coach*
Michael Hopkins, B S ..	*Assistant Basketball Coach*
Timothy Beckman, B S. .	*Assistant Football Coach*
Johnny D Wike, M A Ed.	*Assistant Football Coach*
Danny Williamson, M A Ed	*Men's and Women's Track and Cross Country Coach*
Greg Duff, M.A ...	*Business and Ticket Manager*
Stephen M White, B A . . .	*Sports Information Director*

Office of Public Information

A Douglas Reed, A.B	*Director*
James W Rowell, B A	*Associate Director*
Cristin M McCarley, M A	*Assistant Director*

Office for Academic Affairs

John H Wakeley, Ph.D	*Vice Chancellor*
Judith M Sullion, Ph D	*Associate Vice Chancellor*
Michael E Malone, Ph D	*Assistant Vice Chancellor*
Patricia B McMillan, M Ed	*Assistant to the Vice Chancellor*

Academic Officers

Gurney E Chambers, Ph D	*Dean, School of Education and Psychology*
Thomas F Connelly, Jr , Ed D	*Dean, School of Nursing and Health Sciences*
Anthony A Hickey, Ph.D	*Dean, Research and Graduate Studies*
Clifford R Lovin, Ph D	*Dean, School of Arts and Sciences*
John F. McCreary, Ed.D.	*Dean, School of Business*
J Dale Pounds, M S C E	*Dean, School of Technology and Applied Science*
Marilyn E Feldmann, Ph.D	*Associate Dean, School of Education and Psychology*
J C Alexander, Jr , Ph D. .	*Associate Dean, School of Arts and Sciences*
Noelle Kehrberg, Ph D .	*Associate Dean, School of Technology and Applied Science*
Steven P Yurkovich, Ph D	*Acting Associate Dean, Research and Graduate Studies*

Office of Academic Services

Drumont I. Bowman, M A .. *Associate Director of Academic Services, Director of Admissions*
Van C Wilson, M P A. ... *Director of Retention Services*
John C. Deupree, M Ed .. .. *Registrar*
Philip M. Cauley, B A .... *Associate Director of Admissions*
Katherine M Hill, M Ed . .....*Project Director and Coordinator, Training Programs*
Marion R. Sparks, B S .... *Assistant Director, Admissions*
J Gregory Johnson, B.A ... . *Assistant Director, Admissions*
Angela Reeves, B.A. ....*Assistant Director, Admissions*
Anita D Howell, B S .... *Assistant Director, Admissions*

Career and Academic Planning Center

Raymond S Ledford, M S W . . .. *Director*
Lawrence Bixby, M Ed . .. .. *Assistant Director*
Susie Ray, M A. . .. . *Director of Cooperative Education and Placement*

Program Administration

William A Clauss, Ph.D..... . ... *Director, Office of Rural Education*
J Ralph Devane, Ed D *Director, Center for Mathematics and Science Education*
Burton B Fox, Ed D .. .... *Director, Caribbean and Latin American ProgramsJ*
Judith Franson, Ph.D. .... *Director, Reading Center*
Diana M Henshaw, Ed.D. ... . *Dean, Continuing Education and Summer School*
Ellerd M Hulbert, Ph D .... *Director, International Programs*
William J. Kirwan, M.S.L S. . ..... *University Librarian*
Robert B McPherson, Ph.D . ....*Director, Center for the Advancement of Teaching*
William C. Martin, M.A. .. .. *Director, University Media Center*
Patricia L. Miller, M.A Ed. . .. .*Coordinator, Evening Programs in Asheville*
Michael D Smith, Ph D .. . *Director, Speech and Hearing Center*
Hoyt Ponder, Ph.D .... *Director, Developmental Evaluation Center*
Benjamin Ward, A.M . .....*Director, Faculty Center for Teaching Excellence*
Malcolm Loughlin..... *Associate Director, Continuing Education and Summer School*

Office for Business Affairs

C Joseph Carter, Ph.D. . . .. *Vice Chancellor*
George W Wooten, M A . .. . *Assistant Vice Chancellor and Controller*
Ronald J Core, Ed D . .. . *Assistant to the Vice Chancellor*
James W Culp, M.B A ... . *Director, Physical Plant*
Raymond R Nicholson, B A. . *Manager, Book and Supply Store*
James R Holland, A.B .. .. *Personnel Officer*
John C McCracken, M A.Ed. .... .. *Director, Auxiliary Services*
Arthur Stephens, B S . ... *Director, Purchasing*
Robert T Edwards, B S.B A. *Internal Auditor*
Margaret Raper . . . . *Manager, Auxiliary Food Services*
Cecil C Ward .. .. *Manager, Cafeteria Services*
Arthur E. McAbee .... *Director, Office of Public Safety*
Robert J Stewart, M A Ed. ..... . *Director, Ramsey Regional Activity Center*

Office for Development and Special Services

James E. Dooley, Ph.D . *Vice Chancellor*
James L Medlin, M B A *Director, University Development*

Thomas Bommer, B S	*Assistant Director, University Development*
A James Manning, M B A	*Director, Alumni Affairs*
Lawrence H Arney, Ed.D	*Director, Western Carolina University Center in Cherokee*

Center for Improving Mountain Living

Robert Gurevich, Ph D	*Director*
Ralph Montee, M A	*Associate Director, International Programs*
Monica Hinton, M P H	*Associate Director, Human Resources*
Thomas E McClure, J D	*Associate Director, Economic Development*
Susan M Smith, Ed D	*Associate Director, Natural Resources*
Edgar P Israel, B S Ed	*Director, Western North Carolina Tomorrow*

Mountain Aquaculture Research Center

G Ian Pritchard, Ph D	*Director*

Mountain Heritage Center

H Tyler Blethen, Ph D	*Director*
Curtis W Wood, Jr, Ph D	*Senior Research Associate*
John A Davidson, Jr, M A	*Curator*
David W Brewin, M A Ed	*Museum Specialist*
Michael Kline, Ph D	*Folklorist*

Office for Student Development

Glenn W Stallion, Ph D	*Vice Chancellor*
W Douglas Davis, Ed D	*Assistant Vice Chancellor*
Bonita Jacobs, Ph D	*Dean, Student Development*
Richard Cameron, M Ed	*Associate Dean, Student Activities*
Jennifer Williams, M S	*Assistant to the Vice Chancellor*
R Randy Rice, M S	*Director, Housing*
W Glenn Hardesty, M A.	*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*

North Carolina Center for the Advancement of Teaching

R Bruce McPherson, Ph D	*Director*
Kay Shapiro, Ed S	*Assistant Director*
Judith E Clauss, Ph D	*Fellow*
Jerome Franson, Ph D	*Fellow*
Shelley L Olson, Ph D	*Fellow*
Anthony G Rud, Jr, Ph D	*Senior Fellow*
Christine M Shea, Ph D	*Fellow*
Daniel D Fredricks, Ph D	*Fellow*
Neill Clark, III, Ph D	*Fellow*

FACULTY
1990-91

***Myron L. Coulter, Ed.D.**
Chancellor; Professor of Education, B S , Indiana State Teachers College, 1951, M S , Ed D , Indiana University, 1956, 1959; D H L , College of Idaho, 1982 Date of appointment, 1984

***John H. Wakeley, Ph.D.**
Vice-Chancellor for Academic Affairs, Professor of Psychology A.B , College of Wooster, 1954; M S , North Carolina State University at Raleigh, 1958, Ph D , Michigan State University, 1961 Date of appointment, 1987

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

***Maynard Francis Adams, Ed.D.**
Professor of Industrial and Engineering Technology B.S , M A , Ed D , North Carolina State University at Raleigh, 1961, 1962, 1971 Date of appointment, 1965

***Eva Jacqueline Adcock, Ph.D.**
Associate Professor of Music B A , University of California, Berkeley, 1946, M M Ed., Ph D , Florida State University, 1968, 1970 Date of appointment, 1970

****Elizabeth H. Addison, Ph.D.**
Instructor of English B A , Transylvania College, 1968, M A , University of Tennessee, 1975, Ph D , Duke University, 1985 Date of appointment, 1990

***James Clyde Addison, Ph.D.**
Associate 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.**
Associate Dean, School of Arts and Sciences, Associate Professor of Speech and Theatre Arts A.B , B D , Duke University, 1956, 1959, M A , Ph.D , Ohio University, 1970, 1973 Date of appointment, 1972

***Davia 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.

Grace C. Allen, M.B.A.
Assistant Professor of Finance B.S , Agnes Scott College, 1978, M.B A., Appalachian State University, 1985 Date of appointment, 1991

Thomas J. Allison, B.S.
Captain, U S Army, Assistant Professor of Military Science B S , Western Carolina University, 1981 Date of appointment, 1990

Charles M. Ambrose, Ed.D.
Special Assistant to the Chancellor; Assistant Professor of Administration, Curriculum, and Instruction B A , Furman University, 1983, M A , University of Louisville, 1986, Ed D , University of Georgia, 1989 Date of appointment, 1990

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

***Lawrence Hinkle Arney, Ed.D.**
Director, Western Carolina University Center in Cherokee, Associate Professor of Higher Education. B S , Western Carolina University, 1951, M Ed., University of North Carolina at Chapel Hill, 1953, Ed D , University of Florida, 1969 Date of appointment, 1970

Kenneth J. Ayala, M.S.E.E.
Associate Professor of Industrial and Engineering Technology B S , Virginia Military Institute, 1961, M S E E , Georgia Institute of Technology, 1967 Date of appointment, 1990.

Stephen Michael Ayers, Ph.D.
Assistant Professor of Speech and Theatre Arts B A , Maryville College, 1975, M A , University of Houston at Clear Lake, 1981, Ph D , University of Colorado, 1988 Date of appointment, 1985

***Ellen Hedrick Bacon, Ph.D.**
Assistant Professor of Special Education B A , Eckerd College, 1966, M A , Columbia University Teachers College, 1967, Ph.D , University of North Carolina at Chapel Hill, 1977 Date of appointment, 1984

***John Roger Bacon, Ph.D.**
Associate Professor of Chemistry. B S , Kansas State University, 1964, M S , Ph D , University of Iowa, 1967, 1968 Date of appointment, 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 appointment, 1971

* *Member of the Graduate Faculty*
** *On leave*
** *Part time appointment*

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

***Aaron Kermit Ball, Ed.D.**
Associate Professor of Industrial and Engineering Technology B S , M A , Appalachian State University, 1975, 1977, Ed.D , Virginia Polytechnic Institute and State University, 1984 Date of appointment, 1977

Abdulkader O. Barbir, Ph.D.
Assistant Professor of Computer Science B S , M S , Ph D , Louisiana State University, 1982, 1983, 1989 Date of appointment, 1989

Paul Basler, D.M.A.
Assistant Professor of Music B.M , Florida State University, 1985, M A , M M , D.M A , State University of New York at Stony Brook, 1987, 1989 Date of appointment, 1989

***Joseph Yarnell Bassett, Jr., Ph.D.**
Professor of Chemistry B S , Ph.D , University of North Carolina at Chapel Hill, 1951, 1958 Date of appointment, 1964 Retiring, 1991

Mary Kay Bauer, D.M.A.
Assistant 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 Speech and Theatre Arts B A , M A , Indiana University, 1966, 1969, Ph D , University of Georgia, 1984 Date of appointment, 1971

***Maxie Eugene Beaver, Ed.D.**
Associate Professor of Music B A , Wake Forest University, 1964, M A T , University of North Carolina at Chapel Hill, 1964, Ed D , University of North Carolina at Greensboro, 1973 Date of appointment, 1973

***Joe Eugene Beck, A.M.**
Program Director, Environmental Health, Associate Professor of Health Sciences B S , Murray State University, 1970, A M , University of Illinois at Urbana, 1977 Date of appointment, 1980

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

***John Luther Bell, Jr., Ph.D.**
Professor of History B A , Wake Forest University, 1959, M A , Ph D , University of North Carolina at Chapel Hill, 1961, 1970 Date of appointment, 1963

June Peterson Benson, M.A.Ed.
Associate Professor of Health, Physical Education, and Recreation B S , University of North Carolina at Greensboro, 1959, M A Ed , Western Carolina University, 1963 Date of appointment, 1960

***Richard Conor Berne, Ed.D.**
Professor of Science Education B S Ed., Georgia Southern College, 1960, M Ed., Ed D , University of Virginia, 1967, 1970 Date of appointment, 1969

Nancy S. Betchart, Ph.D.
Assistant Professor of Psychology B A , The Colorado College, 1975 M S , Ph D , University of Rochester, 1979, 1981 Date of appointment, 1986

***Harold Tyler Blethen 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.
Assistant Professor of Human Services B A , Indiana University of Pennsylvania, 1980, M A , Ed.D , West Virginia University, 1986, 1989 Date of appointment, 1989.

Scott D. Bonifield, M.B.A.
Assistant Professor of Marketing B.B A , M B A , Ohio University, 1982, 1985 Date of appointment, 1990

Richard A. Borge, M.F.A.
Assistant Professor of Art. B A , Concordia College, 1987, M F A University of Arizona, 1990 Date of appointment, 1990

Drumont Irvin Bowman, M.A.
Associate Director of Academic Services and Director of Admissions, Instructor of Education B S , M A , Virginia Polytechnic Institute, 1969, 1973 Date of appointment, 1982

William L. Boyd, Ph.D.
Professor of Accounting and Acting Head, Department of Economics and Finance B A , University of South Florida, 1968, M B A , Texas Christian University, 1969, Ph D , Texas A&M University, 1978 Date of appointment, 1990

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

Susan Clare Brown, Ph.D.
Assistant Professor of Health, Physical Education, and Recreation B S , Florida State University, 1976, M.S , Eastern Illinois University, 1983, Ph D., Ohio State University, 1988 Date of appointment, 1988

Wesley Brown, B.S.
Captain, U S Army, Assistant Professor of Military Science B S , South Carolina State University, 1978 Date of appointment, 1985

***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.**
Associate Professor of Health, Physical Education, and Recreation B A , M Ed., Ed S , University of Georgia, 1962, 1964, 1971, Ed D , George Peabody College for Teachers, 1976 Date of appointment, 1969

Alice Buchanan, M.A.Ed.
Instructor of Elementary Education and Reading B S Ed , M A Ed , Western Carolina University, 1973, 1990 Date of appointment, 1990

***William Chester Buchanan, M.F.A.**
Assistant Professor of Art. B A , Eastern Kentucky University, 1962; M A , Ball State University, 1969, M F A., University of Alabama, 1976 Date of appointment, 1970

***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 appointment, 1972

Charles Candler Burrell, M.S.
Associate Professor of Mathematics B S , Western Carolina University, 1962, M S , Auburn University, 1964 Date of appointment, 1966

David J. Butcher, Ph.D.
Assistant Professor of Chemistry B S , University of Vermont, 1982, Ph.D , University of Connecticut, 1990 Date of appointment, 1990

***James Edwin Byer, Ph.D.**
Associate Professor of English B S , University of Chicago, 1963, M A , Ph.D , Duke University, 1964, 1971 Date of appointment, 1968

****Kathryn Stripling Byer, M.F.A.**
Instructor of English B A , Wesleyan College, 1966, M F A , University of North Carolina at Greensboro, 1968 Date of appointment, 1990

***Joan Falconer Byrd, M.F.A.**
Associate Professor of Art B A., Agnes Scott College, 1961; M S , M F A , University of Wisconsin, 1963, 1967 Date of appointment, 1968

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

****Mary Ann Campbell, R.N.**
Instructor of Emergency Medical Care R.N , Ryerson Polytechnical Institute, 1978, E.M C., Asheville-Buncombe Tech, 1982 Date of appointment, 1989

***Barbara Hortense Capps, Ed.D.**
Associate Professor of Elementary Education B S Ed., Florida State University, 1954, M A Ed , Western Carolina University, 1961, Ed D , Indiana University, 1973 Date of appointment, 1968

***James Wesley Carland, Jr., Ph.D.**
Associate Professor of Accounting B A , University of North Carolina at Asheville, 1968, M.B A , Western Carolina University, 1977, Ph D , University of Georgia, 1982 Date of appointment, 1982

***JoAnn Crook Carland, Ph.D.**
Associate 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 appointment, 1983

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

***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

Wilbert M. Carr, Jr., M.B.A.
Captain, U S Army; Assistant Professor of Military Science, B S , Mississippi State University, 1971, M.B A , Delta State University, 1986 Date of appointment, 1987

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

Charles Joseph Carter, Ph.D.
Vice-Chancellor for Business Affairs, Instructor of Education A.B , Wofford College, 1960; M A , Ph.D , Florida State University, 1967, 1971 Date of appointment, 1977

Donald M. Chalker, Ed.D.
Associate Professor and Head, Department of Administration, Curriculum, and Instruction. B.S., M A , Kent State University, 1957, 1962, Ed.D , Wayne State University, 1981 Date of appointment, 1989

Ann Alsop Chambers, Ed.S.
Instructor for English B S , Ed S , George Peabody College for Teachers, 1956, 1967, M Ed., University of Missouri, 1962 Date of appointment, 1983

***Gurney Ernest Chambers, Ph.D.**
Dean, School of Education and Psychology, Professor of Education. B S , Western Carolina University, 1961, M A , Ph D , George Peabody College for Teachers, 1963, 1967 Date of appointment, 1967

***William Lee Chovan, Ph.D.**
Professor of Psychology B S , Ohio University, 1956, M S , Akron University, 1957, Ph D., Case Western Reserve University, 1969. Date of appointment, 1969

****Judith Enz Clauss, Ph.D.**
Assistant Professor of Elementary Education. B A , M Ed , Ph.D , University of Arizona, 1971, 1978, 1981 Date of appointment, 1985

***William August Clauss, Ph.D.**
Director, Office of Rural Education, Associate Professor of Education B S E , Ohio University, 1962, M Ed , Miami University, 1967, Ph.D , University of Miami, 1970 Date of appointment, 1985

***Lewis Edward Cloud, Ed.D.**
Professor of Education B S Ed , Defiance College, 1957, M Ed , Miami University, 1960, Ed D , Ball State University, 1969 Date of appointment, 1969

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

Edward Stanton Cohen, M.Ln.
Head Reference Librarian, Associate Professor B S , University of Pennsylvania, 1952, M Ln , Emory University, 1967 Date of appointment, 1971

***Thomas Francis Connelly, Jr., Ed.D.**
Dean, School of Nursing and Health Sciences, Associate Professor of Health Sciences B.A , Hampden-Sydney College, 1965, M H A., Duke University, 1967, Ed.D , University of Kentucky, 1977 Date of appointment, 1979

****Susan Shelton Conner, M.S.**
Instructor of Nursing B S , Mars Hill College, 1980, M S , Clemson University, 1989 Date of appointment, 1989.

***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

Norma Brake Cook, M.T.
Assistant Professor of Health Sciences B S , Marshall University, 1947, M T , Medical College of Virginia, 1949, M A , Presbyterian School of Christian Education, 1954 Date of appointment, 1976

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

***Frederick Alexander Coyle, Ph.D.**
Professor of Biology. B A , The College of Wooster, 1964, A M , Ph D , Harvard University, 1966, 1970 Date of appointment, 1969

***Richard Scott Craddock, Ed.D.**
Professor of Elementary Education. A.B , University of North Carolina at Chapel Hill, 1955, M Ed , Ed D , Duke University, 1963, 1969 Date of appointment, 1971

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

Raymond G. Crepeau, M.B.A.
Assistant Professor of Computer Information Systems B A , Providence College, 1963, M B A , Auburn University at Montgomery, 1977 Date of appointment, 1986

John Kevin Creech, M.S.L.S.
Reference Librarian, Assistant Professor B A , M S L S , University of North Carolina at Chapel Hill, 1983, 1987 Date of appointment, 1988

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.

***William Douglas Davis, Ed.D.**
Assistant Vice-Chancellor for Student Development; Associate Professor of Education. B.S , Western Carolina University, 1949, M A , Ed.D , Columbia University, 1950, 1963 Date of appointment, 1966.

****Gail K. Debnam, B.A.**
Instructor of Education B.A., Meredith College, 1975. Date of appointment, 1989

Vivian Lundy Deitz, M.N.
Associate Professor and Head, Department of Nursing B.S.N , M N , University of Florida, 1964, 1972 Date of appointment, 1974

***Clarence Joe DelForge, Jr., Ed.D.**
Associate Professor of Elementary Education. B S Ed., M S , Kansas State Teachers College, 1960, 1962; Ed D , North Texas State University, 1970. Date of appointment, 1970

Linda J. DelForge, M.A.T.
Associate Professor of Biology B S Ed., Western Carolina University, 1965; M A T , Harvard University, 1966 Date of appointment, 1966

Mary Diane Deck, Ph.D.
Assistant Professor of 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

Rebecca Dewees Dennis, B.S.N.
Nursing and Health Sciences Continuing Education Director; Assistant Professor of Health Sciences B S.N., University of North Carolina at Chapel Hill, 1974 Date of appointment, 1982

George W. DeSain, Ed.D.
Professor and Head, Department of Industrial and Engineering Technology A A S , Alfred State College, 1960, B S , Rochester Institute of Technology, 1966, M S , Western Michigan University, 1970, Ed D , Utah State University, 1982 Date of appointment, 1989.

***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

****Gerri Lynn Dobbins, M.A.**
Lecturer of English B A , M A , Western Carolina University, 1986, 1989 Date of appointment, 1989

***James Michael Dolan, Ph.D.**
Associate Professor of Mathematics B A , Christian Brothers College, 1959; M A , Ph D , University of Tennessee, 1962, 1967 Date of appointment, 1973

***James Edward Dooley, Ph.D.**
Vice-Chancellor for Development and Special Services, Professor of Music B.M , University of Chattanooga, 1952, M M E , North Texas State University, 1955, Ph D , Florida State University, 1963 Date of appointment, 1969

David Dorondo, D.Phil.
Assistant Professor of History. B.A , Armstrong State College, 1980, M A , University of South Carolina, 1984, D Phil , University of Oxford, 1988 Date of appointment, 1987.

Lorna Bitgood Dorr, M.L.S.
Assistant Professor, Hunter Library B.A , Alfred University, 1963; M L S , University of South Carolina, 1985 Date of appointment, 1986

***Arthur Michael Dougherty, Ph.D.**
Professor of Education and Head, Department of Human Services B A , M A , University of Notre Dame, 1968, 1971, M A T , Oakland University, 1970, Ph D , Indiana State University, 1974 Date of appointment, 1976

***Judy Holcombe Dowell, Ph.D.**
Assistant to the Chancellor, Professor of Human Environmental Sciences. B S , M S , Ph D , Florida State University, 1966, 1967, 1970. Date of appointment, 1975

****Sonja Dunbar, M.S.Ed.**
Instructor of Reading B S Ed , University of Wisconsin-Stevens Point, 1964; M S Ed., University of Wisconsin-Oshkosh, 1970 Date of appointment, 1989

***Bobbye J. Dunlap, D.B.A**
Professor of Management. B S B A , M A , Appalachian State University, 1972, 1973, D B A , Louisiana Technical University, 1978 Date of appointment, 1987

Janet Lynn Dye, M.A.S.
Assistant Professor of Accounting A.B , M A S , University of Illinois at Urbana, 1976, 1978 Date of appointment, 1980

Samuel C. Dyer, M.A.
Assistant Professor of Speech and Theatre Arts B S.B A , Central Missouri State University, 1985, M A , Eastern New Mexico University, 1986 Date of appointment, 1990

Ralph Stephens Eberly, Ph.D.
Associate Professor of English B A , University of Texas, 1966, M A , Ph D , University of Michigan, 1967, 1970 Date of appointment, 1970

Gillian D. Ellern, M.L.I.S.
Assistant Professor, Hunter Library B S , Wesleyan College, 1985, M L.I S , Louisiana State University, 1986 Date of appointment, 1990

Hazem El-Khatib, M.F.A.
Assistant Professor of Human Environmental Sciences B F A , The Lebanese University, 1985, M F A., University of North Texas, 1989 Date of appointment, 1989

Elizabeth Evans, Ph.D.
Professor of English. A.B University of North Carolina at Greensboro, 1957, M A , Ph.D , University of North Carolina at Chapel Hill, 1960, 1970 Date of appointment, 1990

***Betsy Clifford Farlow, Ph.D.**
Associate Professor of Music B A , Guilford College, 1953, S.M M , Union Theological Seminary, 1956, Ph D , University of North Carolina at Chapel Hill, 1969 Date of appointment, 1968

***Harold Frederick Farwell, Jr., Ph.D.**
Associate Professor of English A B , M A , University of Chicago, 1960, 1961, Ph D , University of Wisconsin, 1970 Date of appointment, 1970

***Marilyn E. Feldmann, Ph.D.**
Associate Dean, School of Education and Psychology, Assistant Professor of Administration, Curriculum, and Instruction B S Ed , Illinois State University, 1971, M S Ed , Northern Illinois University, 1975, Ph D , Illinois State University, 1980 Date of appointment, 1987

***Walter Edward Foegelle, Ed.D.**
Program Director, Health Services Management and Supervision, Associate Professor of Health Sciences B S , Texas Wesleyan College, 1970, M S , Southwest Texas State University, 1977, Ed D , Indiana University, 1984 Date of appointment, 1986

****Burton B. Fox, Ed.D.**
Director of Caribbean and Latin American Programs, Professor of International Education. B A , San Diego State University, 1962, M A , Ed D , University of Alabama, 1967, 1969 Date of appointment, 1970

Leo French, B.S.
Major, U S Army, Assistant Professor of Military Science B S , University of Alabama, 1970 Date of appointment, 1986

Christine Bergner Friesner, M.Ed.
Associate Professor of Health, Physical Education, and Recreation B S , Texas Christian University, 1961, M Ed , University of North Carolina at Chapel Hill, 1962 Date of appointment, 1962

Jerry Leigh Friesner, M.Ed.
Assistant Professor of Industrial and Engineering Technology B S , M Ed., University of Missouri, 1957, 1958 Date of appointment, 1962

Mario A. Gaetano, D.M.A.
Assistant Professor of Music. B M E , State University of New York, 1977, M M , East Carolina University, 1978, D.M A , Memphis State University, 1986 Date of appointment, 1979

Thomas Clark Gamble, Ph.D.
Assistant Professor of French. B A , M A , Ph.D , University of Georgia, 1965, 1968, 1972 Date of appointment, 1970

****Carolyn Stoll Geister, M.N.Ed.**
Instructor of Nursing B S.N , Wayne State University, 1962, M N Ed , University of Pittsburgh, 1965 Date of appointment, 1990

***John Richard Gentry, Ph.D.**
Professor of Education. B A , University of North Carolina at Chapel Hill, 1971, M Ed., Ph D , University of Virginia, 1974, 1977 Date of appointment, 1977

***Albert Franklin Gilman III, Ph.D.**
Professor of Mathematics B S , Northwestern University, 1952, M A , University of Montana, 1958, M A , Ph D , Indiana University, 1962, 1963. Date of appointment, 1969

JoAnn Dillingham Glasscock, M.N.
Assistant Professor of Nursing B S.N , University of Tennessee, 1956, M N , University of California at Los Angeles, 1971. Date of appointment, 1985

***Robert Godfrey, M.F.A.**
Professor and Head, Department of Art B F A , Philadelphia College of Art, 1966, M F A , Indiana University, 1969 Date of appointment, 1985

Paul Milton Gold, M.A.
Instructor of Speech and Theatre Arts B A, M A., University of North Carolina at Chapel Hill, 1976, 1983 Date of appointment, 1988

John D. Gould, M.B.A.
Distinguished Visiting Professor of Accounting. B A, Brown University, 1952, M B A, University of Michigan, 1957. Date of appointment, 1990.

Gael N. Graham, Ph.D.
Assistant Professor of History B A, University of California, Santa Cruz, 1980; M A, Ph D, University of Michigan, 1985, 1990 Date of appointment, 1990

***Larry Bertram Grantham, Jr., Ph.D.**
Associate Professor, Human Services B A, M Ed, Mississippi College, 1960, 1969, M R E, Southwestern Baptist Theological Seminary, 1963, Ph D, University of Southern Mississippi, 1972 Date of appointment, 1978

***Cathryn Griffin, M.F.A.**
Assistant Professor of Art. B F A, Massachusetts College of Art, 1978, M F A, Yale University, 1980 Date of appointment, 1985

Paul Mallory Haberland, Ph.D.
Professor of German. B A, Haverford College, 1957, M A, Ph.D, Johns Hopkins University, 1960, 1969 Date of appointment, 1974

William Gordon Haemmel, J.D.
Professor of Business Law B S, M A, New York University, 1949, 1950, J D, University of Houston, 1953 Date of appointment, 1971

William F. Hafner, M.S.L.S.
Assistant Professor, Hunter Library B A, Ohio State University, 1970, A.M, University of Illinois, 1971, M S L S, Case Western Reserve University, 1974 Date of appointment, 1989

***Jane Smith Hall, Ph.D.**
Assistant Professor of Human Environmental Sciences. B S, Western Carolina University, 1967, M S, Ph D, University of Tennessee, 1968, 1983 Date of appointment, 1983

Larry C. Harmon, M.A.
Instructor of Parks and Recreation Management. B S, Michigan State University, 1974, M A, Northern Arizona University, 1984 Date of appointment, 1987

***Frederick Williams Harrison, Ph.D.**
Professor of Biology B S, M S, Ph D, University of South Carolina, 1960, 1962, 1969 Date of appointment, 1977

***Wilburn Hayden, Jr., M.S.W.**
Associate Professor and Head, Department of Social Work and Sociology. B.A, St Andrews Presbyterian College, 1971, M S W, University of North Carolina at Chapel Hill, 1973 Date of appointment, 1983

Richard Morrill Haynes, Ph.D.
Director of Field Experiences and Teacher Placement, Assistant Professor of Administration, Curriculum and Instruction. B S, Florida Southern College, 1967; M.S., Rollins College, 1970, Ph.D, Duke University, 1978 Date of appointment, 1988.

***Patrick Allen Hays, Ph.D.**
Associate Professor of Finance. B.S C E, University of Arkansas, 1965, M.B.A, California Western University, 1970, Ph D, University of North Carolina at Chapel Hill, 1977. Date of appointment, 1985.

Paul Heckert, Ph.D.
Associate Professor of Physics B.A, Frostburg State College, 1974, M S, Ph D., University of New Mexico, Albuquerque, 1977, 1983 Date of appointment, 1988

Denise Heinze, Ph.D.
Assistant Professor of English. A.B Albion College, 1978, M A., North Carolina Central University, 1984, Ph.D, Duke University. Date of appointment, 1990

Lynn Ruth Heinrich, M.S.
Assistant Professor of Accounting and Computer Information Systems B S, M S, University of Illinois, 1976, 1979 Date of appointment, 1989

***Bruce Barrie Henderson, Ph.D.**
Professor and Head, Department of Psychology B A, M A, Bucknell University, 1972, 1975, Ph.D, University of Minnesota, 1978. Date of appointment, 1978

Diana M. Henshaw, Ed.D.
Dean of Continuing Education and Summer School, Associate Professor of Administration, Curriculum and Instruction B S, East Carolina University, 1960, M Ed, Ed D, North Carolina State University, 1977, 1980 Date of appointment, 1986

Daniel J. Herron, J.D.
Associate Professor of Administrative Services B A, Miami University, 1975, J D, Case Western Reserve University, 1978 Date of appointment, 1990

***Harold A. Herzog, Jr., Ph.D.**
Associate Professor of Psychology B A, The American University of Beirut, 1968, M A, Ph D, University of Tennessee, 1974, 1979 Date of appointment, 1987.

Mary Jean R. Herzog, Ed.D.
Assistant Professor of Administration, Curriculum, and Instruction B S , State University of New York at Brockport, 1972, M S , Ed D , University of Tennessee, 1974, 1988 Date of appointment, 1989

***Anthony Andrew Hickey, Ph.D.**
Dean of Research and Graduate Studies, Professor of Sociology B S , M S , Ph D , Cornell University, 1971, 1973, 1975 Date of appointment, 1985

Jo Ann Hickey, M.A.
Assistant Professor of Sociology B A , Cornell University, 1974, B I S , M A , George Mason University, 1981, 1983 Date of appointment, 1989

***Scott Easterby Higgins, Ed.D.**
Associate Professor of Health Sciences B S , Florida Technological University, 1971, M S , Indiana University, 1974, Ed D , University of South Carolina, 1985 Date of appointment, 1981

Roger C. Higgs, M.B.A.
Assistant Professor of Administrative Services B S , M B A , University of Utah, 1971, 1974 Date of appointment, 1990

***William Reynolds Higgins, Ph.D.**
Associate Professor of English B S , Troy State University, 1957, M A , Ph D , Tulane University, 1959, 1973 Date of appointment, 1964

Carol J. Hill, M.S.
Associate Professor of Nursing B S.N , University of North Dakota, 1962, M S , University of Minnesota, 1974 Date of appointment, 1989

Lawrence J. Hill, Ph.D.
Associate Professor and Head, Department of Speech and Theatre Arts B S , M A , Eastern Michigan University, 1964, 1968, Ph D , University of Minnesota, 1979 Date of appointment, 1989

***Fred Donald Hinson, Ph.D.**
Director of General Education, Associate Professor of Biology B A , Catawba College, 1960, M S , University of Arkansas, 1963, Ph.D , Virginia Polytechnic Institute and State University, 1970 Date of appointment, 1966

***Robert Alvin Holquist, D.M.A.**
Associate Professor of Music B.M E , M S , Wisconsin State University, 1967, 1971, D.M A , University of Iowa, 1977 Date of appointment, 1979

Nell Whitmire Holtzclaw, M.A.
Assistant Professor of English A B , Winthrop College, 1953, M A Ed , Western Carolina University, 1960, M A , University of South Carolina, 1966. Date of appointment, 1961

***Arden William Horstman, Ph.D.**
Associate Professor of Geology B A , Lawrence University, 1952, M S , University of Cincinnati, 1954, Ph D , University of Colorado, 1966 Date of appointment, 1966

***James Heathman Horton, Ph.D.**
Professor of Biology A.B , M A , Ph D , University of North Carolina at Chapel Hill, 1952, 1958, 1961 Date of appointment, 1961

****Mary Jane Horton, M.A.**
Lecturer in English. B S , East Carolina University, 1954, M A , University of North Carolina at Chapel Hill, 1971 Date of appointment, 1988.

Jeanne Howe, Ph.D.
Coordinator of Capstone Program, Associate Professor of Nursing. B S.N , University of Iowa, 1962, M N Ed , M S , University of Pittsburgh, 1966, 1967, Ph D , Florida State University, 1972 Date of appointment, 1989

***Ellerd Miner Hulbert, Ph.D.**
Director of International Development, Professor of History B A , Trinity College, 1953, M A , Yale University, 1957, Ph D , University of Chicago, 1970. Date of appointment, 1970

Jennie Lou Hunter, Ed.S.
Associate Professor of Office Administration. B S , Mars Hill College, 1964, M A , Western Carolina University, 1966, Ed S , Mississippi State University, 1970 Date of appointment, 1972

J. Casey Hurley, Ph.D.
Assistant Professor of Administration, Curriculum, and Instruction B.A , St. Norbert College, 1973, M.S , Ph D ,University of Wisconsin-Madison, 1978, 1989 Date of appointment, 1989.

***Taylor L. Huskins, M.A.**
Associate Professor of Psychology B S , Western Carolina University, 1944, M A , University of North Carolina at Chapel Hill, 1950 Date of appointment, 1956 Retiring, 1991

****Claudia Paice Hyatt, A.B.**
Instructor of Home Economics A.B , Western Kentucky State College, 1963 Date of appointment, 1985

William Douglas Hyatt, L.L.M.
Associate Professor, Department of Criminal Justice. A.B., Western Kentucky University, 1963, J D , University of Cincinnati, 1965, L L.M , Georgetown University, 1971 Date of appointment, 1982

Bruce Donald Idleman, M.S.
Assistant Professor of Earth Science B S , M S , State University of New York, 1977, 1981 Date of appointment, 1985

Sharon Lee Jacques, M.S.
Assistant Professor of Nursing B S.N , Indiana University, 1965, M S , University of Colorado, 1974 Date of appointment, 1974

Stephen Brooks Jarrell, Ph.D.
Associate Professor of Economics B S , University of Alabama, 1971, M S , Ph D , Purdue University, 1972, 1978 Date of appointment, 1988

***Jon Charles Jicha, M.F.A.**
Associate Professor of Art. B F A , M F A , Kent State University, 1972, 1976 Date of appointment, 1984

Marilyn M. Jody, Ph.D.
Professor of English. A.B , University of Kentucky, 1953, Ph.D , Indiana University, 1969 Date of appointment, 1967

Ann Putnam Johnson, Ed.D.
Assistant Professor of Nursing B S N , Western Carolina University, 1982, M S.N , Ed D , University of Tennessee, 1983, 1989 Date of appointment, 1988

****Annette Jacobs Johnston, M.S.**
Instructor of Health, Physical Education, and Recreation. B A , M S., University of North Carolina at Chapel Hill, 1980, 1982 Date of appointment, 1985

***Michael Paul Jones, Ph.D.**
Coordinator, Associated Area of Philosophy and Religion, Associate Professor of Philosophy B S , Purdue University, 1962, Ph D , University of Texas at Austin, 1973 Date of appointment, 1974

Royal Maurice Jones, Ph.D.
Professor of Economics B S , Clemson University, 1960, M S , Ph D , University of Maryland, 1962, 1967 Date of appointment, 1971

***Nancy Carol Joyner, Ph.D.**
Professor of English. A.B , Meredith College, 1958, M A., Columbia University, 1959, Ph.D , University of North Carolina at Chapel Hill, 1966 Date of appointment, 1970

***William Duncan Kane, Jr., Ph.D.**
Associate Professor of Management. B A , Louisiana Technical University, 1971, M S , University of Southern California, 1973, Ph D , Cornell University, 1976 Date of appointment, 1976

***Noelle Link Kehrberg, Ph.D.**
Associate Dean, School of Technology and Applied Science, Professor of Human Environmental Sciences B S , University of Minnesota, 1972, M S , Ph D , Virginia Polytechnic Institute and State University, 1974, 1977 Date of appointment, 1978

***Robert W. Kehrberg, D.A.**
Associate Professor and Head, Department of Music B.M , M A , University of Iowa, 1967, 1973, D A , University of Northern Colorado, 1983 Date of appointment, 1987

***Edward John Kesgen, Ph.D.**
Associate Professor of Therapeutic Recreation. B A , Seton Hall University, 1967, M Ed., Springfield College, 1974, Ph D , Texas A&M University, 1982 Date of appointment, 1982

***Retha Hoover Kilpatrick, Ed.D.**
Professor and Head, Department of Administrative Services B S , M S , Kansas State College, Pittsburg, 1957, 1960, Ed D, University of Georgia, 1974 Date of appointment, 1964

***Terry Lee Kinnear, D.B.A.**
Associate Professor of Management. B.B A , M B A , Cleveland State University, 1973, 1975, D.B A , Kent State University, 1981 Date of appointment, 1979.

James J. Kirk, Ed.D.
Assistant Professor of Human Services B A , Olivet Nazarene University, 1967, M S , Illinois State University, 1973, Ed D , Northern Illinois University, 1986 Date of appointment, 1987

William Joseph Kirwan, M.S.L.S.
University Librarian, Professor B A , St Bonaventure University, 1959, M S L S , Drexel Institute of Technology, 1961 Date of appointment, 1977

***Joseph Ballard Klerlein, Ph.D.**
Professor and Head, Department of Mathematics and Computer Science B S , Furman University, 1970, Ph D , Vanderbilt University, 1975 Date of appointment, 1974

Lawrence Gene Kolenbrander, Ph.D.
Assistant Professor and Coordinator of Natural Resources Management Program B S , Grand Valley State College, 1973, M S , Ph D , Colorado State University, 1975, 1981 Date of appointment, 1985

Nancy M. Kolenbrander, M.A.L.S.
Assistant Documents Librarian, Assistant Professor, Hunter Library B A , Grand Valley State College, 1967, M A L S , University of Michigan, 1967 Date of appointment, 1987

Rebecca Stroud Kornegay, M.S.L.S.
Assistant Professor, Hunter Library B A , M S L S , University of North Carolina at Chapel Hill, 1975, 1977 Date of appointment, 1984

Robin M. Kowalski, Ph.D.
Assistant Professor of Psychology B.A., Furman University, 1985, M A , Wake Forest University, 1987, Ph D , University of North Carolina at Greensboro, 1990 Date of appointment, 1990

Barbara Kruse, M.S.N.
Assistant Professor of Nursing B S , University of Florida, 1969, M S , Nova University, 1976; M S.N , Barry University, 1988 Date of appointment, 1990

***Lester Lee Laminack, Ed.D.**
Associate Professor of Elementary Education. B S Ed., M S Ed , Jacksonville State University, 1977, 1978, Ed.D , Auburn University, 1983 Date of appointment, 1984

Barbara Keelor Larson, M.S.
Director, Emergency Medical Care Program, Assistant Professor of Health Sciences B A , Western Reserve University, 1962, M S , Northeastern University, 1984 Date of appointment, 1983

***William Robert Latimer, M.A.**
Associate Professor of Political Science A.B , Siena College, 1953, M A , University of Wisconsin, 1955 Date of appointment, 1964

Andrew Anthony LaTorre, M.A.
Assistant Professor of Industrial and Engineering Technology. B S , State University of New York at Oswego, 1975, M A , New York University, 1977 Date of appointment, 1983

Raymond Samuel Ledford, M.S.W
Director, Career and Academic Planning Center, Associate Professor of Social Work B S , Western Carolina University, 1961, M S W , University of North Carolina at Chapel Hill, 1967 Date of appointment, 1969

Jackson Scott Leggett, M.Ed.
Head Baseball Coach, Instructor of Physical Education B S Ed., University of Maine, 1976, M Ed , University of Vermont, 1980 Date of appointment, 1982

***Myron Jack Leonard, Ph.D.**
Professor of Marketing B S , The Ohio State University, 1961, M A , Ph D , University of Georgia, 1965, 1972 Date of appointment, 1969

***James Allen Lewis, Ph.D.**
Coordinator of Social Science Program, Creighton Sossomon Professor of History B A , The Ohio State University, 1964, M A , Northern Illinois University, 1968, Ph D , Duke University, 1975. Date of appointment, 1972

***Franklin Glenn Liming, Jr., Ph.D.**
Associate Professor of Physics and Head, Department of Chemistry and Physics A.B , Harvard University, 1961, M A , Ph D , Duke University, 1967, 1968 Date of appointment, 1984

***Cecil Donald Livingston, Ph.D.**
Associate Professor of Political Science B A , M A , University of South Carolina, 1972, 1974, Ph D , University of Mississippi, 1984 Date of appointment, 1984

***Donald Lee Loeffler, Ph.D.**
Professor of Speech and Theatre Arts B.S , University of Dayton, 1952, M A , Columbia University, 1953, Ph D , Bowling Green State University, 1969 Date of appointment, 1969

***Eleanor White Lofquist, Ed.S.**
Associate Professor of Elementary Education and Reading A B , University of North Carolina at Chapel Hill, 1952, M A , Ed S , Western Carolina University, 1968, 1972 Date of appointment, 1972

Malcolm J. Loughlin, M.A.Ed.
Associate Director, Continuing Education and Summer School Certificate in Education, The University of Wales School of Education, 1969, M A Ed., Western Carolina University, 1979 Date of appointment, 1986

***Clifford Ramsey Lovin, Ph.D.**
Dean, School of Arts and Sciences, Professor of History A B , Davidson College, 1957, M A , Ph D , University of North Carolina at Chapel Hill, 1962, 1965 Date of appointment, 1966

***Roger Hillery Lumb, Ph.D.**
H F Robinson Professor and Head, Department of Biology A B , Alfred University, 1962, M S , Ph D , University of South Carolina, 1965, 1967 Date of appointment, 1967

David M. McCord, Ph.D.
Assistant Professor of Psychology B A, Duke University, 1972; M A, Western Carolina University, 1979; Ph D, University of Alabma, 1984 Date of appointment, 1989

***John Franklynn McCreary, Ed.D.**
Dean, School of Business, Professor of Business Education. A.B, Lenoir-Rhyne College, 1962, M.B E, University of North Carolina at Greensboro, 1965, Ed D., University of Tennessee, 1968 Date of appointment, 1977

****Ruth Abernathy McCreary, M.A.Ed.**
Instructor of Elementary Education and Reading A.B, Lenior-Rhyne College, 1961; M A Ed, Western Carolina University, 1979 Date of appointment, 1986

*****Eugene Early McDowell III, Ph.D.**
Professor of Psychology B A, Ph D, University of North Carolina at Chapel Hill, 1961, 1966, M A, DePauw University, 1963 Date of appointment, 1969

***John William McFadden, Jr., Ed.D.**
Associate Professor of Education B A, Jersey City State College, 1960, M A, Columbia University, 1963, Ed D, University of Florida, 1971 Date of appointment, 1969

***Dennis Joseph McKevlin, Ph.D.**
Associate Professor of English A.B, M A, Catholic University of America, 1945, 1946, M A, University of Vermont, 1961, Ph D, University of New Mexico, 1973 Date of appointment, 1964

James M. McLachlan, Ph.D.
Assistant Professor of Philosophy and Religion B A, Brigham Young University, 1980, M A, Indiana University, 1981, Ph D, University of Toronto, 1989 Date of appointment, 1989.

Ralph Stephen McMahan, Ph.D.
Associate Professor of Economics B S, New York University, 1961, M B A, City College, City University of New York, 1964, Ph D, University of Arkansas, 1974 Date of appointment, 1970

Robert Bruce McPherson, Ph.D.
Director, North Carolina Center for the Advancement of Teaching, Professor of Education. B A, M Ed., University of Rochester, 1955, 1964, Ph D, University of Chicago, 1970 Date of appointment, 1986

***Henry Richard Mainwaring, Ph.D.**
Associate Professor of Biology B Sc, Ph D, University College of Wales at Aberystwyth, 1963, 1966 Date of appointment, 1969

Michael E. Malone, Ph.D.
Assistant Vice Chancellor of Academic Affairs; Assistant Professor of Human Services. B A, The University of Montevallo, 1969, M A, Ph.D, University of Alabama, 1972, 1976 Date of appointment, 1989

***Shanmugasadasivam Manickam, Ph.D.**
Professor of Mathematics B Sc, M Sc, University of Madras, 1960, 1962, Ph D, University of Toronto, 1968 Date of appointment, 1969

***James Ronald Marshall, M.S.**
Assistant Professor of Mathematics B S, Appalachian State University, 1957, M Ed., University of North Carolina at Chapel Hill, 1960; M S, University of Illinois, 1971 Date of appointment, 1968

William Winston Medaris, M.S.
Associate Professor of Industrial and Engineering Technology B S, United States Naval Academy, 1960, B S E E, United States Naval Postgraduate School, 1967, M S, University of Southern Mississippi, 1976 Date of appointment, 1980

****Carolyn Beardsley Meigs, M.A.Ed.**
Instructor of Elementary Education. B A Ed, University of Florida, 1962, M A Ed, Western Carolina University, 1982 Date of appointment, 1982

***Joseph Avery Meigs, Ph.D.**
Associate Professor of English B A, M A, Ph D, University of Florida, 1964, 1967, 1970. Date of appointment, 1970

***Gordon Edison Mercer, Ph.D.**
Professor and Head, Department of Political Science and Public Affairs B A, Wake Forest University, 1962, M A, University of North Carolina at Chapel Hill, 1965, Ph D, University of Florida, 1971 Date of appointment, 1980

Gayle Houston Miller, Ph.D.
Assistant Professor of English. B A, University of Maine, 1976, M A, Ph D, University of Georgia, 1981, 1988 Date of appointment, 1989

***Lee Hammack Minor, Ph.D.**
Associate Professor of Mathematics B A, Hendrix College, 1965, M A, Ph.D, Vanderbilt University, 1967, 1971 Date of appointment, 1968

***Scott Wayne Minor, Ph.D.**
Professor of Psychology B S, M S, Ph D, Virginia Commonwealth University, 1970, 1973, 1977 Date of appointment, 1978

Ted Carroll Moody, M.S.
Associate Professor of Physics A.B., Kenyon College, 1958, M.S., Purdue University, 1964 Date of appointment, 1966

***Allen Murdoch Moore, Ph.D.**
Associate Professor of Biology A.B , Cornell University, 1961, Ph D , University of Texas at Austin, 1968 Date of appointment, 1969

John Wayne Moore, M.S.
Instructor of English. B A , Western Kentucky University, 1969, M S , Northwestern University, 1970 Date of appointment, 1988

Ronald Key Morgan, Ph.D.
Assistant Professor of German B.S , M A , Memphis State University, 1964, 1968, Ph D , University of Tennessee, 1980 Date of appointment, 1968

Laura Jean Moriarty, Ph.D.
Assistant Professor of Criminal Justice B S , M S., Louisiana State University, 1984, 1985, Ph D , Sam Houston University, 1988 Date of appointment, 1988

***Gene Franklin Morris, Ph.D.**
Associate Professor of Chemistry B S , Iowa State University, 1955, Ph D , Kansas State University, 1961 Date of appointment, 1969

***Patrick George Morris, Ph.D.**
Associate Professor of Anthropology B A , M A , Indiana University, 1959, 1961; Ph D , University of California, Berkeley, 1969 Date of appointment, 1972

***James Mack Morrow, Jr., Ph.D.**
Professor of Education B S , M Ed , Ph D , University of North Carolina at Chapel Hill, 1956, 1969, 1970 Date of appointment, 1972

Elmer Lawrence Morton, Jr., Ph.D.
Professor of Computer Science B Ch E , Georgia Institute of Technology, 1956, M Ch.Ed , Ph D , Louisiana State University, 1960, 1965 Date of appointment, 1970

Michael B. Mountain, M.S.
Lieutenant Colonel, U S Army, Professor of Military Science B S , Purdue University, 1969, M S , Campbell University, 1986. Date of appointment, 1989

****Nyaga Mwaniki, Ph.D.**
Assistant Professor of Anthropology B A , Indiana University of Pennsylvania, 1977, Ph D , Indiana University, Bloomington, 1986 Date of appointment, 1990

***Jeffrey Wayne Neff, Ph.D.**
Associate Professor of Geography and Head, Department of Geosciences and Anthropology, B S , Austin Peay State University, 1967, M S , Ph D , University of Tennessee, 1969, 1975 Date of appointment, 1973

Donna Neal Newhart, Ph.D.
Assistant Professor of Administrative Services B.S., Brescia College, 1976, M S , Indiana University, 1979, Ph.D , Georgia State University, 1988 Date of appointment, 1989.

Terrye A. Newkirk, M.A.
Instructor of English B A , University of Tennessee, 1982, M A , Vanderbilt University, 1984 Date of appointment, 1989.

***James Karl Nicholas, Ph.D.**
Professor and Head, Department of English. B A., University of Mississippi, 1961, M A., Old Dominion University, 1968, Ph D , University of Southern California, 1971 Date of appointment, 1971.

***James Robert Nicholl, Ph.D.**
Professor of English B A., Ph.D , University of Texas at Austin, 1961, 1970 Date of appointment, 1970

Matthew Nicholl, M.M.
Assistant Professor of Music B.M , M.M , University of North Texas, 1978, 1982 Date of appointment, 1990

David Michael Nichols, M.F.A.
Artist in Residence in Art. B S , University of Wisconsin, River Falls, 1972, M F A , University of Minnesota, 1975 Date of appointment, 1975

****Arnold Monsted Nielsen, Ed.D.**
Professor of Industrial and Engineering Technology A.B , M A , California State University at Chico, 1958, 1960; Ed.D , University of Northern Colorado, 1970 Date of appointment, 1970

Terry Randall Nienhuis, Ph.D.
Assistant Professor of English B A , Western Michigan University, 1967, M A , Ph D , University of Michigan, 1968, 1974 Date of appointment, 1972

Mary Anne Fritz Nixon, J.D.
Assistant 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.
Assistant Professor of Administrative Services 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.**
Assistant 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.
Assistant Professor of Spanish. B.A, University of Maryland, 1971; M A, Middlebury College, 1972 Ph D., Indiana University, 1978 Date of appointment, 1989

***Baxter Norton, M.A.**
Assistant Professor of Mathematics A.B, University of North Carolina at Chapel Hill, 1957, M A, Appalachian State University, 1962, M A, Louisiana State University, 1965 Date of appointment, 1965

****Mary Anne O'Neal, M.A.Ed.**
Lecturer of English, B A, Mars Hill College, 1984, M A.Ed., Western Carolina University, 1988 Date of appointment, 1988

Anita Katarina Oser, M.A.
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 Date of appointment, 1973

Stephen Dennis Owens, Ph.D.
Assistant Professor of Management B.A, M B A, Lamar University, 1963, 1970, Ph D, North Texas State University, 1981 Date of appointment, 1981

****Jacqueline M. Palmer, A.M.**
Instructor of Biology B S, M S, Western Carolina University, 1982, 1984, A M, Harvard University, 1988 Date of appointment, 1990

Julia R. Palmer, M.B.A.
Program Director, Medical Record Administration, Assistant Professor of Health Sciences B S M R A, M.B A, Western Carolina University, 1980, 1988 Date of appointment, 1984

****Franklin Parker, Ed.D.**
Distinguished Visiting Professor of Education B A, Berea College, 1949, M S, University of Illinois, Urbana, 1950, Ed D, George Peabody College for Teachers, 1956 Date of appointment, 1989

Robert Lee Parr, M.A.
Assistant Professor of English A.B, Duke University, 1953, M A, University of North Carolina at Chapel Hill, 1954 Date of appointment, 1958

****Roger Kent Parramore, M.A.**
Lecturer of English. B.A, M A, Western Carolina University, 1987, 1989 Date of appointment, 1989.

Lillian Esther Pearson, D.M.
Assistant Professor of Music. B.M, D.M, Florida State University, 1967, 1975, M.M., University of Illinois, 1969. Date of appointment, 1988

Betty Jean Peele, M.A.Ed.
Assistant Director of Athletics for Women's Sports; Associate Professor of Health, Physical Education, and Recreation B S, M A Ed, East Carolina University, 1960, 1962 Date of appointment, 1963

William V. Pelfrey, Ph.D.
Professor and Head, Department of Criminal Justice B A, Auburn University, 1969, M S., University of Alabama at Birmingham, 1975, Ph D, Florida State University, 1978. Date of appointment, 1990

***Jane Clarkson Perlmutter, Ed.D.**
Assistant Professor of Elementary Education and Reading B A, University of Georgia, 1967; M Ed, Armstrong State College, 1976, Ed D., University of Georgia, 1986 Date of appointment, 1988.

Alice W. Perry, M.A.
Instructor of Spanish B A, Duke University, 1969, M A, University of Maryland, 1972 Date of appointment, 1990

William G. Perry, Jr., Ph.D.
Associate Professor of Accounting and Information Systems B A, University of South Florida, 1969, M A, Ph D, University of North Dakota, 1973, 1974 Date of appointment, 1987.

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

Lois Petrovich-Mwaniki, Ph.D.
Assistant 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

***Arthur Henry Pilch, Ed.D.**
Professor of Health, Physical Education, and Recreation. B S, M.S, Springfield College, 1955, 1958, Ed.D, University of Arkansas, 1970 Date of appointment, 1970

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

Gregory G. Pitts, M.S.
Instructor of Speech and Theatre Arts B A , M S , Auburn University, 1982, 1983 Date of appointment, 1990

***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, School of Technology and Applied Science, Professor of Industrial and Engineering Technology B S C E , M S C E , Purdue University, 1964, 1966. Date of appointment, 1977

***Heydar Pourian, Ph.D.**
Associate Professor of Finance B A , National University of Iran, 1972, M A , University of Wisconsin at Oshkosh, 1974, Ph D , University of Wisconsin at Milwaukee, 1980 Date of appointment, 1984

Joyce Prewitt, M.A.
Associate Professor of Social Work B A , M A , Indiana University, 1961, 1963 Date of appointment, 1988

***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, Math-Science Resource Center, Instructor of Chemistry B S , University of California, Berkeley, 1973, Ph D , University of Virginia, 1978 Date of appointment, 1980

***Frank Thomas Prochaska, Ph.D.**
Associate 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 E. Railsback, Ph.D.
Assistant Professor of English A.A , Ventura College, 1980, B A , California Polytechnic State University, 1982, M A , Ph.D , Ohio University, 1985, 1990. Date of appointment, 1990

Harry Eugene Ramsey, M.S.W.
Assistant to the Chancellor, Western Carolina University Programs in Asheville, Associate Professor of Social Work B S Ed., Western Carolina University, 1959, M S W , Florida State University, 1961 Date of appointment, 1964

***Mildred Kay Randolph, Ph.D.**
Assistant Professor of Psychology B S , College of Charleston, 1980, M A , Ph D , University of South Carolina, 1985, 1987 Date of appointment, 1988

***Robert Glenn Ray, Ed.D.**
Professor and Head, Department of Health, Physical Education, and Recreation. B S Ed , Western Carolina University, 1957, M Ed., University of North Carolina at Chapel Hill, 1961, Ed D., University of Georgia, 1971 Date of appointment, 1962

Alfred Douglas Reed, A.B.
Director of Public Information, Associate Professor of Journalism A.B , Erskine College, 1949. Date of appointment, 1966

****Jean Marie Reed, M.A.**
Lecturer of English. B A , Virginia Polytechnic Institute and State University, 1974, M A , Radford University, 1986 Date of appointment, 1988

Linda K. Reida, M.Ed.
Assistant Professor, Hunter Library B A , University of Iowa, 1963, M S L S , Catholic University of America, 1969, M.Ed , University of Utah, 1978 Date of appointment, 1989

***Robert Mitchell Rigdon, Ed.D.**
Professor of Education A B , Abilene Christian College, 1953, M A Ed., Western Carolina University, 1963, Ed D , University of Georgia, 1968 Date of appointment, 1967

Keith A. Robinson, Ph.D.
Assistant Professor of Health, Physical Education, and Recreation B S Ed , M A Ed., Western Carolina University, 1982, 1983, Ph D , Florida State University, 1987 Date of appointment, 1990

***Anne Frazer Rogers, Ph.D.**
Director of Honors Program, Associate Professor of Anthropology B A , Southern Illinois University, 1972, M A., Ph.D , University of Georgia, 1978, 1982 Date of appointment, 1980

Yvonne Noland Saddler, Ed.S.
Assistant Professor of Education. B S Ed., M Ed., Ed S., University of Georgia, 1969, 1971, 1972 Date of appointment, 1972

****Robert Eugene Sawyer, M.A.Ed.**
Lecturer of English B.A , Stetson University, 1979, M A Ed., Western Carolina University, 1987 Date of appointment, 1988

***Charles Willard Schrader, Ed.D.**
Professor of Health, Physical Education, and Recreation. A.B , Elon College, 1954; M Ed , University of North Carolina at Chapel Hill, 1960, Ed D , Auburn University, 1968 Date of appointment, 1968

***Max Moise Schreiber, Ph.D.**
Associate Professor of Economics B A , M A , Ph.D , University of South Carolina, 1971, 1975, 1978. Date of appointment, 1977

***George Monmonier Schuncke, Ph.D.**
Professor and Head, Department of Elementary Education and Reading B A , LaSalle College, 1965; M A , San Francisco State College, 1970; Ph D , Stanford University, 1974. Date of appointment, 1984

***Gerald Schwartz, Ph.D.**
Professor of History. B A , Mexico City College, 1960, Ph D , Washington State University, 1969. Date of appointment, 1969

Bobby Neil Setzer, M.A.Ed.
Director of Athletics and Associate Professor of Industrial and Engineering Technology B S Ed , M A Ed , Western Carolina University, 1956, 1961 Date of appointment, 1957

***David Allen Shapiro, Ph.D.**
Associate Professor of Education. M S , University of Vermont, 1977, Ph.D , Indiana University, 1984 Date of appointment, 1984

Elizabeth Simmons-Rowland, M.S.
Assistant Professor of Nursing B S.M , Northeastern University, 1977, M S , Boston University, 1980. Date of appointment, 1989

***Sandra Darlene Skinner, M.B.A.**
Assistant Professor of Human Environmental Sciences B S Ed , Framingham State College, 1971, M S , The Ohio State University, 1975, M B A , Bowling Green State University, 1980 Date of appointment, 1983

Betty Jane Smith, M.S.W.
Associate Professor of Social Work B A , Belmont College, 1958, M S W , University of North Carolina at Chapel Hill, 1962 Date of appointment, 1974

Brenda Simpson Smith, M.S.N.
Assistant Professor of Nursing B S N , Lenoir-Rhyne College, 1973, M S.N , University of Tennessee, 1986. Date of appointment, 1988

Charles Temple Smith, D.M.
Associate Professor of Music B A , Louisiana College, 1951, M.M , North Texas State University, 1955, D.M , Florida State University, 1970. Date of appointment, 1970

Gary C. Smith, Ph.D.
Associate Professor of Environmental Health B S , Clarion State College, 1964, M S , Ohio University, 1967, Ph D , University of Georgia, 1971. Date of appointment, 1989.

Hanson Hoyt Smith, M.B.A.
Assistant Professor of Management B S B A , M.B.A , Western Carolina University, 1973, 1975 Date of appointment, 1975

***James Eldridge Smith, M.F.A.**
Professor of Art. B S , East Carolina University, 1963, M F A , Virginia Commonwealth University, 1966 Date of appointment, 1966

***Michael Douglas Smith, Ph.D.**
Director, Speech and Hearing Center, Professor of Special Education B A , University of Southwestern Louisiana, 1967, M A , Texas Tech University, 1969, M.Phil , Ph.D , University of Kansas, 1974, 1975 Date of appointment, 1981

****Sandra Lanier Smith, M.S.N.**
Assistant Professor of Nursing B S N , University of North Carolina at Charlotte, 1982, M S N , East Carolina University, 1985 Date of appointment, 1989

Daniel Keith Southern, M.S.
Program Director, Clinical Laboratory Science; Associate Professor of Health Sciences B S , Alderson-Broaddus College, 1967; M S , West Virginia University, 1973 Date of appointment, 1976

Eldred Spell, Ph.D.
Assistant Professor of Music B M , Furman University, 1975, M M , East Carolina University, 1977, Ph D , Michigan State University, 1990 Date of appointment, 1990

***Austin Harvey Spencer, Ph.D.**
Professor of Economics and Finance. B A , Oberlin College, 1961, M A , Ph D , Indiana University, 1962, 1972 Date of appointment, 1980

***Otto Hugh Spilker, P.E.D.**
Professor of Health, Physical Education, and Recreation. B S , M S , Washington University, 1950, 1955, P E D , Indiana University, 1961 Date of appointment, 1962

Alicia M. Stack, M.B.A.
Assistant Professor of Administrative Services B.A , University of Delaware, 1985, M B A , University of North Carolina at Chapel Hill, 1989 Date of appointment, 1990

Carol Crane Stephens, M.S.
Assistant Professor of Nursing B S.N , M S , The Ohio State University, 1971, 1973 Date of appointment, 1983

***Keith Thomas Stephens, Ph.D.**
Professor of Marketing B S , Brigham Young University, 1949, M S , Ph D , New York University, 1953, 1972 Date of appointment, 1977

***Richard L. Stephens, Ph.D.**
Assistant Professor of Mathematics. B S , M Ed., Auburn University, 1978, 1979, M S , Washington State University, 1981, M A , Ph D , University of South Florida, 1985, 1986 Date of appointment, 1986.

***Charles Joseph Stevens, Ph.D.**
Associate Professor of Political Science A.B , Ursinus College, 1964, M A , Ph D , Duke University, 1967, 1969. Date of appointment, 1969.

Christine Dorresteyn Stevens, Ed.D.
Assistant Professor of Clinical Laboratory Sciences, A.B , Clark University, 1965, M A , Duke University, 1968, Ed D , University of Tennessee, 1989 Date of appointment, 1988

Glenn Wayne Stillion, Ph.D.
Vice-Chancellor for Student Development, Associate Professor of Education. B A , M A , University of New Mexico, 1960, 1961, Ph D , Florida State University, 1968 Date of appointment, 1973

***Judith Morton Stillion, Ph.D.**
Associate Vice-Chancellor for Academic Affairs; Professor of Psychology B S , University of Southern Maine, 1959, M A , University of New Mexico, 1961, Ph D., University of Alabama, 1972 Date of appointment, 1973

Elaine P. Story, B.S.M.R.A.
Instructor of Medical Record Administration. B S.M R A , Western Carolina University, 1980 Date of appointment, 1989

Betty Westmoreland Suhre, M.A.Ed.
Associate Professor of Health, Physical Education, and Recreation B S Ed , M A Ed , Western Carolina University, 1962, 1965 Date of appointment, 1965

***Lewis Franklyn Sutton, Ph.D.**
Professor of French. A B , M A , Ph D , University of North Carolina at Chapel Hill, 1958, 1962, 1966 Date of appointment, 1969

Betsy Sue Swarthout, M.L.S.
Reference Librarian and Assistant Professor, Hunter Library B A., M L S , Florida State University, 1981, 1982. Date of appointment, 1988

James E. Syphers, M.S.W.
Assistant Professor of Social Work B A , University of New Hampshire, 1956, M S W , University of Pittsburgh, 1965 Date of appointment, 1987

Eric V. Szendrei, Ph.D.
Assistant Professor of Philosophy and Religion. B.A , Southern Illinois University, 1980, Ph.D., Emory University, 1988 Date of appointment, 1987

****Charles Richard Taylor, M.Ed.**
Professor of Criminal Justice. B S Ed , Northern Illinois University, 1957, M Ed., University of Illinois, 1960 Date of appointment, 1977

***C. Claude Teagarden, J.D.**
Associate Professor and Head, Department of Accounting and Information Systems B S , J D , University of Illinois, 1956, 1958, M.B A , Rollins College, 1964 Date of appointment, 1982

***David Boyce Teague, Ph.D.**
Associate Professor of Mathematics B S E E , M S , Ph D , North Carolina State University at Raleigh, 1959, 1961, 1965 Date of appointment, 1968

James P.W. Thompson, Ph.D.
Assistant Professor of Art. B A , Williams College, 1968, M A , Institute of Fine Arts, 1972, Ph.D., University of North Carolina at Chapel Hill, 1985. Date of appointment, 1989

David C. Trigg, M.D.
Assistant Professor of Health Sciences B S , Spring Hill College, 1971, M D , University of Alabama, 1974 Date of appointment, 1985.

***Ralph R. Triplette, Jr., Ph.D.**
Assistant Professor of Geography A.B , Davidson College, 1960, M A , University of Kentucky, 1963, Ph D , University of North Carolina at Chapel Hill, 1974 Date of appointment, 1970

James David Turner, Ed.D.
Associate Professor of Industrial and Engineering Technology B S , Western Carolina University, 1969, M A Ed , East Carolina University, 1973 Ed D , Clemson University, 1989. Date of appointment, 1986

***Duncan Rene Tye, Ph.D.**
Associate Professor of Economics B A , University of Georgia, 1967, Ph.D , Tulane University, 1974 Date of appointment, 1977

P. Bradley Ulrich, D.M.A.
Assistant Professor of Music B M , Florida State University, 1984, M.M , D.M A , University of Illinois, 1986, 1989 Date of appointment, 1989

Patricia Ann Umfress, Ph.D.
Associate Professor and Head, Department of Modern Foreign Languages B A , Mississippi State University, 1963; M A., Ph D , University of Georgia, 1966, 1972 Date of appointment, 1969

***Edwin George Vassian, Ph.D.**
Professor of Chemistry B S , University of Pennsylvania, 1952, M S , Georgia Institute of Technology, 1956, Ph D , University of Missouri, 1967 Date of appointment, 1966

****Susan H. Vogt, M.A.Ed.**
Lecturer of English B S , Florida State University, 1968, M A Ed., Western Carolina University, 1989 Date of appointment, 1989

John Alexander Wade III, Ph.D.
Assistant Professor of Economics B A , Washington and Lee University, 1973, M S , Ph D , Purdue University, 1974, 1982 Date of appointment, 1977

Robert H. Waddell, Ed.D.
Associate Professor of Marketing B A , Michigan State University, 1962, M.B A , Ed D , Florida Atlantic University, 1970, 1976 Date of appointment, 1990

***Philip Tyree Wade, Ph.D.**
Professor of English A B , Guilford College, 1957, M A , University of Arkansas, 1958, Ph D , University of North Carolina at Chapel Hill, 1966 Date of appointment, 1969

***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

****Barbara Jean Walls, Ed.S.**
Instructor of History B A , University of North Carolina at Charlotte, 1981, M A Ed , Ed S , Western Carolina University, 1986, 1987 Date of appointment, 1990

***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.
Director, Faculty Center for Teaching Excellence, Instructor of Education B A , Rockford College, 1974, A.M., University of Illinois, 1974. Date of appointment, 1981

***Thomas Samuel Warren, Ph.D.**
Associate Professor of Elementary Education. A.B., Berkshire Christian College, 1952; M A , Ph D , Florida State University, 1958, 1972. Date of appointment, 1972

****Michael V. Waters, B.M.**
Lecturer of Music B M , Catholic University of America, 1989. Date of appointment, 1989.

Crystal Dawn Weaver, Ph.D.
Associate Professor of Human Environmental Sciences. B S., Morehead State University, 1979, M S , Ph D , The University of Tennessee, 1980, 1984 Date of appointment, 1989

***Francis Marion Webster, Jr., Ph.D.**
Associate Professor of Management. B S , University of Missouri, 1952, M S., Carnegie-Mellon University, 1958, Ph.D , Michigan State University, 1978 Date of appointment, 1982

***Dan Bascom Wells, M.S.**
Associate Professor of Mathematics. B S Ed., Western Carolina University, 1953; M S., University of Kentucky, 1958 Date of appointment, 1958

***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; Assistant Professor of Music B A , University of South Florida, 1976, M M E , Ph D , Florida State University, 1982, 1985 Date of appointment, 1985

***Mary S. Wheeler, Ph.D.**
Assistant Professor of Psychology B A , Smith College, 1963, M Ed , Ph D , Georgia State University, 1974, 1979 Date of appointment, 1989

Harry Ruff White, Ph.D.
Professor of Economics B.S , Berea College, 1956, Ph D , University of Kentucky, 1966 Date of appointment, 1968

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

***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.

Kurt E. Whitley, M.S.I.E.
Assistant Professor of Industrial and Engineering Technology. B S.M E, M S I E, Clemson University, 1982, 1990 Date of appointment, 1990

Alfred W. Wiggins, M.F.A.
Assistant Professor of Speech and Theatre Arts B A, Shaw University, 1974, M F A, University of California at San Diego, 1984 Date of appointment, 1986

Johnny Daniel Wike, M.A.Ed.
Assistant Football Coach, Instructor of Physical Education. B S, M A Ed, East Carolina University, 1960, 1963 Date of appointment, 1984

Harold J. Williford, Ed.D.
Assistant Professor of Mathematics A B Pfeiffer College, 1966, M Ed, Ed D, University of Georgia, 1967, 1970 Date of appointment, 1990

***John Thomas Wilcox, Ph.D.**
Associate Professor of Geology B A, DePauw University, 1959, M A., Ph D, Columbia University, 1962, 1964 Date of appointment, 1969

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

***Max Ray Williams, Ph.D.**
Professor and Head, Department of History, A.B, Duke University, 1955, M A, Ph D, University of North Carolina at Chapel Hill, 1959, 1965 Date of appointment, 1958

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

Roanna Wilson, M.S.N.
Assistant Professor of Nursing B S, Western Carolina University, 1980, M S.N, University of North Carolina at Greensboro, 1983 Date of appointment, 1990

Deanne Smith Winiarski, M.B.A.
Assistant Professor of Accounting B S, University of North Carolina at Chapel Hill, 1966, B S B A, M.B A, Western Carolina University, 1977, 1978 Date of appointment, 1981

****Richard Arthur Wohlman, M.S.**
Instructor of Mathematics B S, U S Air Force Academy, 1974; M S, University of Tennessee Space Institute, 1988 Date of appointment, 1988

***Curtis William Wood, Jr., Ph.D.**
Senior Research Associate, Mountain Heritage Center; Professor of History B A, Wake Forest University, 1963, M A., Ph D, University of North Carolina at Chapel Hill, 1967, 1971 Date of appointment, 1969

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

Kenneth L. Wood, M.B.A.
Director of Institutional Studies and Planning, Instructor of Mathematics B S, M Ed, Louisiana State University, 1959, 1965, M B A, Western Carolina University, 1984 Date of appointment, 1976

***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

***Clarence Paul Wright, Ph.D.**
Associate Professor of Biology B S, Lenoir-Rhyne College, 1962, M A, Ph D, University of Utah, 1965, 1968 Date of appointment, 1968

***Kathleen Sandquist Wright, Ph.D.**
Associate Professor, Speech and Theatre Arts B A, Texas Lutheran College, 1969, M A, Ph D, Bowling Green State University, 1971, 1974 Date of appointment, 1973

Jay Wysocki, Ph.D.
Assistant Professor of Management and Marketing B S, Pennsylvania State University, 1980, M S, Ph D, University of Utah, 1986, 1987 Date of appointment, 1987

Mary Morris Youmans, M.Ln.
Head Serials Librarian, Associate Professor, Hunter Library. B S, Georgia Southern College, 1949, M Ln, Emory University, 1950 Date of appointment, 1967

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

ADJUNCT FACULTY

William L. Aldis, M.D.
Adjunct Professor of Health, Physical Education, and Recreation. Medical Staff, Sylva Medical Center and C.J. Harris Hospital Date of appointment, 1985

Thomas J. Bacon, Ph.D.
Adjunct Assistant Professor of Health Sciences. Executive Director, Mountain Area Health Education Center Date of appointment, 1982

Robert Hart Baker, D.M.A.
Adjunct Professor of Music Resident Conductor and Music Director at the Asheville Symphony Orchestra. Date of appointment, 1981

Lewis R. Beam, Jr., M.D.
Adjunct Associate Professor of Health Sciences Retired pediatrician Date of appointment, 1989

William Allen Broadway, M.P.H.
Adjunct Assistant Professor of Health Sciences Public Health Consultant. Date of appointment, 1983

Margaret C. Cook, M.S.N.
Adjunct Instructor of Nursing Vice President of Nursing Service St. Joseph's Hospital Date of appointment, 1986

Harold K. Cordell, Ph.D.
Adjunct Professor of Earth Sciences Principal Recreation Economist and Project Leader, Forest Recreation Research Work Unit, Southeastern Forest Experiment Station Date of appointment, 1981

Nagui Rizk El-Bayadi, M.D.
Adjunct Professor of Health, Physical Education and Recreation Staff Surgeon, C J Harris Hospital Date of appointment, 1979

Helen Louise Farrell, M.S.N.
Adjunct Assistant Professor of Nursing Personal Health Services Director Buncombe County Health Department. Date of appointment, 1981

John Edwin Fobes, M.A.
Adjunct Professor of Political Science President, Castalia Associates. Date of appointment, 1982

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

Roy Gallinger, M.D.
Adjunct Professor of Health, Physical Education, and Recreation Medical Staff, Sylva Medical Center Date of appointment, 1990

Hettie Garland, M.P.H.
Adjunct Assistant Professor of Nursing Director of Nursing Education and Family Nurse Practitioner Program, Mountain Area Health Education Center Date of appointment, 1980.

Earl A. Haddock, M.D.
Adjunct Professor of Health, Physical Education, and Recreation Cardiologist. Date of appointment, 1990.

Selma Jean Harris, M.S.
Adjunct Instructor of Nursing Nursing Administrator, retired. Date of appointment, 1983.

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.

Jean L. Hill, M.N.
Adjunct Assistant Professor of Nursing Continuing Nursing Education Coordinator, Mountain Area Mental Health Education Center Date of appointment, 1980.

Olson Huff, M.D.
Adjunct Professor of Special Education Pediatrician, Thoms Rehabilitation Hospital Date of appointment, 1988

Joseph Hurt, M.D.
Adjunct Associate Professor of Health Sciences Director of Pathology, C J Harris Hospital Date of appointment, 1985.

Alise Ogden Irwin, M.S.
Adjunct Assistant Professor of Nursing Nursing administrator, retired Date of appointment, 1981

Annette J. Johnston, M.S.
Adjunct Instructor of Health, Physical Education, and Recreation Activity Director, Appalachian Hall Date of appointment, 1990

Donald D. Jones, Ed.D.
Adjunct Professor of Education Retired Director, Western Regional Education Center (Region 8) Date of appointment, 1982

James K. Lynch, M.N.
Adjunct Instructor of Nursing Vice-President of Nursing, Haywood County Hospital Date of appointment, 1982

Robert Harold MacPherson, Ph.D.
Adjunct Associate Professor of Special Education Chief of Audiology and Speech Pathology Services, Veterans Administration Medical Center Date of appointment, 1982

Nina L. Marable, Ph.D.
Adjunct Associate Professor of Human Environmental Sciences Owner/Manager, Townhouse Restaurant. Date of appointment, 1987.

Dennis F. Moore, Phcy.D.
Adjunct Assistant Professor of Nursing Director of Pharmacy Services, Appalachian Hall Date of appointment, 1981

William J. Noell, Jr., M.D.
Adjunct Professor of Health, Physical Education, and Recreation. Surgeon Date of appointment, 1990

Kathryn Noland, M.S.
Adjunct Instructor of Human Environmental Sciences Owner, Noland Interiors, Inc Date of appointment, 1985

Randy Provost, M.D.
Adjunct Professor of Health, Physical Education, and Recreation Medical staff, Sylva Medical Center Date of appointment, 1990

Norma Lou Robinson, M.S.
Adjunct Assistant Professor of Special Education Speech Pathologist, Veterans Administration Medical Center Date of appointment, 1982

Jane A. Stephens, Ph.D.
Adjunct Assistant Professor of Psychology Director, Pupil Personnel Services, Buncombe County Schools Date of appointment, 1982

Wayne Swank, Ph.D.
Adjunct Professor of Biology Research Scientist, Coweeta Hydrologic Laboratory, U S Forest Service Date of appointment, 1981

Robert C. Vodak, M.F.
Adjunct Assistant Professor of Earth Sciences Consultant. Date of appointment, 1983

Olin R. Wood, Ed.D.
Adjunct Professor of Education. Vice-President, Instructional Services, Asheville-Buncombe Technical Community College Date of appointment, 1982

EMERITI

Raymond Melvin Ainsley, Ed D	*Professor of Education*
J Harold Anderson, Ed.D.	*Professor of Education*
Silas Stuart Anderson, Ph D.	*Professor of Psychology*
Jack Wesley Barnett, M A.	*Professor of Accounting*
Ben Haskew Battle, Ed D	*Professor of Education*
Roger Roland Bisson, M A.	*Professor of French*
Harold Hench Bixler, Ph D	*Professor of Education and Psychology*
Taft Benjamin Botner, Ed.D	*Professor of Education*
Lilian Barker Buchanan, M S	*Professor, Librarian*
Alvin Guy Burchfiel, Ed D	*Professor of Education*
John Judson Chapman, Ph D	*Professor of Geology*
Quinn H Constantz, Ed.D	*Professor of Health, Physical Education, and Recreation*
Wilma Baker Cosper, Ed D	*Professor of Home Economics*
Roy Leonard Cox, Ed D	*Professor of Education*
Clinton F Dodson, M S.	*Professor of Biology*
James Gerald Eller, Ph.D	*Professor of Biology*
Paul S Flynn, Ed D	*Professor of Education*
Nora C Graves, Ph D	*Professor of English*
Jim Tudder Hamilton	*Professor of Health, Physical Education, and Recreation*
Helen Marion Hartshorn, Ed.D	*Professor of Health, Physical Education, and Recreation*
George Dewitt Herring, Ph D.	*Professor of English*
Julian Hirt, M A Ed	*Professor of Physics*
Annie K Hoyle, M.A	*Professor of Education*
Theodore L Huguelet, Ph.D.	*Professor of English*
James W. Hunter, D.B.A	*Professor of Computer Information Systems*
Samuel Aaron Hyatt, Ph D	*Professor of Higher Education*
Elizabeth C James, M S	*Professor of Science Education*
Isaac Perry Kelly, Ed D	*Professor of Art*
Jay I Kneedler, M Litt	*Professor of Management*
Rodney Lycurgus Leftwich, Ed D.	Professor *of Industrial Education and Technology*
Henry Victor Lofquist, Jr , M.A.	*Professor of Music*
Virgie Mahaffey McIntyre, C A S	*Professor of Elementary Education*
Mary Hunter Magunnis, M P H	*Professor of Health, Physical Education, and Recreation*
Frank Juan S. Maturo, M A.	*Professor of Spanish*
Maurice Brush Morrill, Ed D	*Professor of Education*
Arnold Monsted Nielsen, Ed D	*Professor of Industrial Education and Technology*
Harriet Parker	*Retired Associate*
William E Paulk, Jr , M A	*Professor of English*
Yvonne Phillips, Ph D.	*Professor of Geography*
Marian Wrightman Renfro, M Ed	*Professor of Education*
Richard McKinley Renfro, Ed D	*Professor of Music*
Jerry A Rice, Jr , Ed.D	*Professor of Education*
Pauline C Rice, Ed D.	*Professor of Office Administration*
MacDaniel Robinson, M A.	*Professor of Health, Physical Education, and Recreation*
Jane Bolton Schulz, Ed D	*Professor of Education*
Patsy Malcolm Scott, M S	*Professor of Marketing*
William Ewing Scott, LL M	*Professor of Business Law*
Daniel Creighton Sossomon, Ph.D	*Professor of History*
Agnes Stout, Ph D	*Professor of English*
Reuben Joseph Swanson, Ph D	*Professor of Religion*
John Pelham Thomas, Ph.D	*Professor of Mathematics*
Robert Richard Trevarthen, Jr , M M	*Professor of Music*
William Newton Turner, Ph D	*Professor of Geography and Geology*
Edgar F .vom Lehn, Ph D	*Professor of Music*
Eugene William Vosecky, Ed.D	*Professor of Accounting*
Francile Keith Waters, M A Ed	*Professor of Home Economics*
Mary Smallwood Wayte, Ph D	*Professor of Education*
Martha B White, M A	*Professor of Nursing*
Samuel Edwin White, Ed.S.	*Professor of Industrial Education and Technology*
Bert Lloyd Wiley, M A	*Professor of Music*
Minor Paul Wilson, M A Ed	*Professor of Education*
Hubert Youmans, Ph D	*Professor of Chemistry*
Lillian Bird Zachary, Ed D	*Professor of Elementary Education*

INDEX

Absences, class, 54
Academic advisers, 57
Academic affairs, office for, 232
Academic appeals, 46
Academic calendar, 2-4, 8
Academic credit and placement policies, 50-54
Academic difficulty, 48
Academic honors, 47
Academic probation, 48
Academic programs, 7, 60-61, extension, 13-14, graduate, 122-123, summer, 13, undergraduate, 67-121
Academic record policy, 47
Academic re-evaluation policy, 49
Academic regulations, 44-55
Academic retention and suspension, 48-50
Academic scholarships *See* Financial aid
Academic services, office of, 233
Academic standing, 47
Academic warning and suspension, 48-49
Academic year, 8
Accounting, courses in, 128-129, degree program in, 91
Accounting and information systems, department of, 91
Accreditation of the university, 6
Adjunct faculty, 253-254
Administration, curriculum, and instruction, department of, 97
Administrative officers of the university, 231-234
Administrative services, department of, 91
Admission, undergraduate policies and procedures, 39-43, fee, 24, medical records, 18, to B S B A programs, 89, to degree programs in music, 81, to degree program in social work, 85, to graduate programs, 122, to teacher education program, 95, to professional sequences in health sciences and nursing, 105, to student teaching, 96
Advanced placement, 52
Advisement office, 13
Advising, 13, 19, 57
Affirmative action statement, inside cover
Agriculture *See* Pre-professional curricula
Aid, financial *See* Financial aid
Algebra, skills test, 52, placement credit, 52
American studies, minor in, 68
Anthropology, courses in, 129-130, degree programs in, 76, minor in, 77
Appalachian Environmental Arts Center, 11
Appeals procedures, student, 43
Applications, for admission, 38, for financial aid, 29, for graduate programs, 122, for graduation, 55, for housing, 16
Applied field projects, 66
Applied math *See* Mathematics
Army Reserve Officers' Training Corps, 66
Art, courses in, 131-136, degree programs in, 67-68, department of, 67, minor in, 68
Arts and sciences, school of *See* Schools
Arts and sciences, interdisciplinary courses in, 136, interdisciplinary minors in, 68
Asheville, programs in, 8
Assistantships, 38
Associated area of philosophy and religion, 83
Astronomy, courses in, 136
Athletics, 18
Attendance policies, 54
Auditing courses, 45
Audiovisual education *See* Educational media
Bachelor's degrees, 56, general education requirements for, 57-61, general requirements for, 57-58
Bank services, 20
Biology, courses in, 137-140, degree programs in, 69-70, department of, 69, minor in, 70
Boarding plan, 25, refunds, 29
Board of Governors *See* University of North Carolina
Board of Trustees *See* Western Carolina University
Book store, 19
Book rental plan, 26
Bureau of Educational Research and Development, 12
Bus service, 20
Business, school of *See* Schools
Business administration, admission to programs in, 89, core for, 90, courses in, 140, degree programs in, 92, second major in, 90
Business affairs, office for, 233
Business economics *See* Economics
Business education, courses, 199, degree programs in, 91-92
Business administration and law, degree program in, 92
Business, international, degree in,
Business law, courses in, 140-141
Cafeterias, 25 *See also* Meal plans
Calendar, academic, 2-4
Campus safety and security, 23
CAP Center *See* Career and Academic Planning Center
Career and Academic Planning Center, 13
Career planning and placement, 13
Catalog policies, 44
Center for Mathematics and Science Education, 12
Center for Environmental and Energy Education, 12
Center for Improving Mountain Living, 10
Center for the Advancement of Teaching, 15
Certificates of advanced study *See* Graduate School

Certification, for graduation, 55, in teacher education, 97, in nursing and health sciences, 105-107, in occupational safety, 121
CEU *See* Continuing education unit
Chancellor, office of, 231
Change-of-major procedure, 57
Chemistry, advanced placement in, 52, courses in, 141-143, degree programs in, 70-73, minor in, 73
Chemistry and physics, department of, 70
Cherokee, WCU Center at, 9
Cherokee language, courses in, 143
Cherokee studies, minor in, 69
Child development and family relations, courses in, 143-144; degree program in, 115, minor in, 117
Child Development Center, 11
Chinese *See* Modern foreign languages
CIML *See* Center for Improving Mountain Living
Class attendance policies, 54
Class meetings, 124
Classification, undergraduate, 45
CLEP *See* College Level Examination Program
Clinical Laboratory Sciences, degree in, 110; courses in 145-146
Clothing, textiles, and merchandising, courses in, 146-147, degree program in, 115, minor in, 117
Coaching, minor in, 101
College Entrance Examination Board Advanced Placement Program, 52
College Level Examination Program, 53
Commencement *See* Graduation
Communications, minor in, 88 *See also* Journalism, Radio and television, Writing and editing
Communication disorders, courses in, 147-148, degree program in, 103, *See also* Special education, Speech and Hearing Center
Community colleges, transfer from, 41, 51, 64
Community Oriented Regional Education Program, 66
Community service *See* Home economics
Composition conditions, 51
Computer Center, 12
Computer information systems, courses in, 148-149, degree program in,91
Computer science, courses in, 149-151, degree program in, 77, minor in, 79
Concentrations, defined, 56
Conferences, 13
Continuing education, division of, 13-14
Continuing education unit, 13
Continuing professional education, 13
Contracts, resident hall *See* Housing
Contracts and grants, 14
Cooperative education program, 38, 65, requirements for, 125, fee, 25
Cooperative transfer agreements, 51, 64
Corequisites, 125
Counseling courses and programs *See* Guidance and counseling
Counseling services, 19
Course load, 44
Courses, descriptions of, 124-228, in general education, 58-61, numbering and level of, 124, prefixes for, 126-127, prerequisites and corequisites for, 125, repeat enrollment in, 49, withdrawal from, 46
Credit and placement policies, 50-54
Credit hour value of courses, 44, 124
Criminal justice, courses in, 152-153, degree program in, 114, department of, 114, minor in, 114
Curriculum and instruction, courses in, 153-154
Computer information systems, courses in, 148-149, degree programs in, 91
Computer science, courses in, 149-151, degree programs in, 77-78
Data processing *See* Computer Center
Deans' list, 47
Degree candidacy, 55
Degree programs *See* Academic programs
Degree requirements, 56
Dentistry *See* Preprofessional curricula
Development and special services, office for, 14, 233
Developmental Evaluation Center, 11
Dietetics *See* Nutrition and dietetics
Difficulty, academic *See* Academic warning
Disciplinary focus area, 56, 95
Documents fee, 24
Dormitories *See* Housing
Dramatics *See* Speech and theatre arts
Drop-add *See* Schedule changes, Withdrawal
Dropping out of school *See* Withdrawal
Drug Policy, 21-23
Early childhood education *See* Elementary education
Early registration, 39
Earth sciences, course in, 154
Economics, courses in, 154-156, degree programs in, 93, minor in, 93, second major in, 93
Economics and finance, department of, 93
Editing *See* Writing and editing
Education, certification in, 97, degree programs in, 98
Educational administration, courses in, 156
Educational media, courses in, 156-153
Educational research and development, bureau of, 12
Educational supervision, courses in, 156
Education and psychology, school of *See* Schools
Education and psychology, interdisciplinary courses in, 156

Education specialist degree *See* Graduate School
Elderhostel, 13
Electronic engineering technology, courses in, 156-157, degree programs in, 118
Elementary education, courses in, 157-158, degree programs in, 98
Elementary education and reading, department of, 98
Emergency medical care, courses in, 159-160, degree program in, 108, professional education sequence in, 106
Emeriti, 255
Employment *See* Financial aid, placement services
Engineering *See* Preprofessional curricula
Engineering technology program, 118
English, composition conditions in, 51, courses in, 160-163, degree programs in, 73-74, department of, 73, minor in, 74, placement in, 51, proficiency examination policy, 51, as a second language, 98
Entrance requirements *See* Admissions
Environmental and energy education, center for, 12
Environmental Arts Center, 11
Environmental health, courses in, 163-164, degree program in, 108, professional sequence in, 107
Equal opportunity policy, inside front cover
Examinations, advanced placement, 52, credit by, 53, English proficiency, 51, entrance, 40, final, 54, make-up of, 54, music, 81
Exceptional children. *See* Special education
Expenses *See* Fees and expenses
Experiential learning, credit for, 53, 97,113
Experiential programs and courses, 64
Experimental psychology *See* Psychology
Extension *See* Continuing education
Extension students, admission of, 42
Faculty, 235-252
Faculty advisers *See* Advising
Faculty Center for Teaching Excellence, 9
Faculty senate, 6
Family relations *See* Child development and family relations
Family services, minor in, 117
Fashion merchandising, minor in, 118
Fees and expenses, 24, refunds, 28
Fellowships *See* Financial aid
Field trips, 54
Final examinations *See* Examinations, Academic calendar
Finance, courses in, 164-165, degree program, 93
Financial aid, 29
Fine Arts Center, 10
Food service management, courses in, 166, degree program in, 116, minor in, 116
Food services, 19, cost of, 24-25, refunds, 28
Foreign languages *See* Modern foreign languages
Foreign students *See* International students
Forestry, 65, course in, 166
Former students, readmission of, 42
Foundation courses, general education, 58-61
French *See* Modern foreign languages
Freshmen, admission requirements, 39-41, advanced placement, 52, English placement, 51, orientation courses, 52, orientation program, 19, residence hall living requirements, 17, standing, 45
Functions of the University, 5
General Administration *See* University of North Carolina
General education requirements, 58
General science *See* Science education
General special education *See* Special education
Geography, courses in, 168-169, degree programs in, 74, minors in, 76
Geology, courses in, 169-171, degree programs in, 75, minor in, 76
Geosciences and Anthropology, Department of, 74
German *See* Modern foreign languages
Gifted children, summer school for, 14
Good academic standing, 47
Governance, university, 6
Government. *See* Political Science
Government, student. *See* Student Government Association
Governors, board of *See* University of North Carolina
Grade average *See* Quality Point Ratio
Grade changes, 46
Grading system, 45
Graduate school, admissions, 122-123, assistantships, 38, degree programs, 122
Graduation, application for, 55, attendance at, 55, general requirements for, 55, honors, 47
Graphic design, concentration in, 68
Grants *See* Contracts and grants, Financial aid
Guidance and counseling, courses in, 151-152
Handicapped student services, 20
Health, physical education, and recreation, department of, 99
Health education, courses in, 172-173, degree program in, 99, minor in, 101
Health, environmental *See* Environmental health
Health insurance, 18
Health sciences, certification and licensure in, 105-106, courses in, 173-174, programs in, 108-110 *See also* Nursing, Health education
Health services, 18-19, fee for, 24
Health services management/supervision, courses in, 174, degree program in, 109, professional sequence in, 107
Higher education, courses in, 174

Highlands Biological Station, 11
Hinds University Center, 18
History, courses in, 174-177, degree programs in, 77, department of, 77, minor in, 77
Home economics, courses in, 178, degree programs in, 114, majors in, 117, minors in, 118
Honors, academic, 47
Honors program, 63, pre-university, 41
Horticulture, concentration in, 69
Hours attempted, 48
Housing, 16-17; assistants, 38, contracts, 16, costs, 24, off-campus, 17, refunds, 28, regulations, 17, reservations, 16, married, 17
Human Environmental Sciences, department of, 114
Human Resource Development, courses in, 178
Human services, department of, 102
Hunter Library, 9
Improving mountain living, center for, 10
Immunizations, 18
Incomplete grade, 45
Industrial chemistry, degree program in, 71
Industrial distribution, degree program in, 119, minor in, 121
Industrial education and technology, courses in, 178-181; degree programs in, 118-121, department of, 118, minors in, 121
Infirmary *See* Health services
Information systems *See* Computer information systems
In-progress grade, 45
In-state fee, 24
In-service programs, 66
Institutional studies and planning, office of, 14, 232
Intercollegiate athletics, 17, office of, 232
Interior design, courses in, 181-182, degree program in, 116, minor in, 118
Intermediate grades education *See* Elementary education
International business, major in, 90
International programs, 63
International relations, concentration in, 83
International students, 19, admission of, 42
International studies, minor in, 69
Internship program, 65, 124
Intramural program, 18
Job placement services *See* Placement services
Journalism, concentration in, 73, courses in, 182-183, minor in, 74
Land use planning, concentration in, 82, degree program in, 75, minor in, 77
Late registration, 24, 44, fee for, 24
Latin, courses in, 183
Laundry services, 20
Law *See* Business law, Pre-professional curricula
Law enforcement, campus *See also* Criminal justice
Learning disabilities, degree program in, 102
Library, Hunter, 9
Library science. *See* Educational media
Licensure in nursing and health sciences, 105-106
Life-span development, minor in, 104
Literature, concentration in, 73
Listener's Program, 13
Load *See* Course load
Loans *See* Financial aid
Location, university, 5
Mail service, 19
Majors, 56, changes or declaration of, 57, defined, 55
Management and marketing, courses in, 183-184, degree programs in, 94, department of, 94
Management of natural resources *See* Natural resources management
Manufacturing engineering technology, courses in, 184-185, degree program in, 120
Marketing, courses in, 185-186
Master's degrees *See* Graduate School
Mathematics, courses in, 186-189, degree programs in, 77-78, department of, 77, minor in, 79, placement in, 52, tutoring in, 10
Mathematics and science education, center for, 12
Meal plans, 19, refunds, 29
Media Center, 12
Media programs *See* Educational media, Journalism, Radio and television
Medical record administration, courses in, 189-190, degree program in, 109, professional sequence in, 107
Medical records for admisssion, 18
Medical services *See* Health services
Medical studies *See* Preprofessional curricula
Medical technology, *See* Clinical Laboratory Sciences
Mental health service, 19
Mental retardation, degree program in, 103
Middle grades education, 98
Military science, commissioning, 55, courses in, 190-191, curriculum in, 79, department of, 79, scholarships, 32, transfer credit in, 51
Military service, academic credit for, 54
Minority students, financial aid for, 32
Minors, defined, 56
Modern foreign languages, advanced placement in, 52, courses in, 144, 166, 171, 220; degree programs in, 80, department of, 80, minors in, 80
Motor vehicle regulations, 23
Mountain Aquaculture Research Center, 11
Mountain Heritage Center, 10

Music, admission and retention in, 80, courses in, 191-195, degree programs in, 80-82, department of, 80, grants and scholarships in *See* Financial Aid, minor in, 82,
Natural resources management, courses in, 195-196, degree programs in, 82
News *See* Public information
North Carolina Center for the Advancement of Teaching, 15
Numbering of courses, 124
Nursing, courses in, 196-197, degree program in, 111, department of, 111, professional sequence in, 107
Nursing and health sciences, school of *See* Schools
Nutrition and dietetics, courses in, 198-199, degree program in, 116, minor in, 118
Occupational education, programs in, 121
Occupational safety, certificate in, 121
Office for Rural Education, 12
Office administration, courses in, 199, degree program in, 92
Operations research *See* Mathematics
Optometry *See* Preprofessional programs
Orientation, courses, 52, for new students, 19
Out-of-state tuition, 24, 26-28
Overloads, 44
Paramedical education *See* Emergency medical care
Parks and recreation management, courses in, 200-201, degree program in, 100
Part-time student, course fees for, 25, defined, 44
Part-time work for students, 38
Pass-fail grading *See* Satisfactory-unsatisfactory grading
Perspectives courses, general education, 60-61
Pharmacy *See* Preprofessional curricula
Philosophy, courses in, 201-202, minor in, 83
Philosophy and religion, associated area of, 83
Physical education, courses in, 202-206, degree program in, 99, minor in, 101
Physics, courses in, 207-208, degree program in, 72, minor in, 73
Placement policies, academic, 50-52
Placement services, 13
Police science *See* Criminal justice
Political science, courses in, 208-210, degree programs in, 83, minor in, 84
Political science and public affairs, department of, 83
Postal service, 19
Practice teaching *See* Student teaching
Prefixes, departmental and course, 124, 126-127
Preprofessional curricula, 63-64
Prerequisites, 125
Pre-University honors program, 41
Probation, Academic *See* academic warning
Principal functions of the university, 5
Probation, academic *See* Academic warning
Professional sequence, in health sciences, 106-107, in nursing, 107
Proficiency examinations, in English, 51, in music, 81
Programs, academic *See* Academic programs
Progress reports, 45
Provisional admissions program, 40
Psychology, courses in, 210-213, degree program in, 104, department of, 104, minor in, 104
Public affairs, courses in, 213
Public administration, concentration in, 83
Public information, office of, 15, 232
Quality points, 45
Quality point ratio, 45, for graduation, 58, for honors, 47
Race, Ethnic and Gender relations, minor in, 69
Radio, television, film, courses in, 213-214, degree programs in, 87, minor in, 88
Ramsey Regional Activity Center, 14
Reading, certification in, 99, courses in, 215
Reading Center, 10
Readmission of former students, 42, 49
Recreation, campus facilities for, 18
Recreation management *See* Parks and recreation management, Therapeutic recreation
Re-evaluation policy, academic, 49
Refund policies, 28-29
Regional activity center, Ramsey, 14
Registration, dates, 2-4, early, 39, 44, for new students, 19, 39, late, 24, 44
Regulations, academic, 44-55, housing, 17, student, 20-23, traffic, 23
Religion, courses in, 215-216
Repeat course policy, 49
Research administration, office of, 14
Research and service centers, 10-13
Research and sponsored programs, 14
Reserve Officer's Training Corps *See* Military Science
Residence halls *See* Housing
Residence requirements, for freshmen on campus, 16, for graduation, 58, for tuition purposes, 26
Residence status for tuition, 26-28
Resort management. *See* Parks and recreation management, Food service management
Resource management *See* Natural resource management, Parks and recreation management, Planning
Retardation *See* Special education
Retention, academic, 48, Nursing and health science programs, 106-107, in social work program, 85, in teacher education, 96
Role and mission of the university, 5
Room reservations *See* Housing

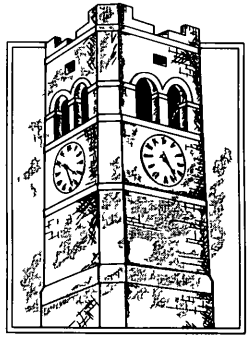
ROTC *See* Military science
Rural education, office of, 12
Safety and security regulations, 20
Satisfactory-unsatisfactory grading, 45
Schedule changes, 45
Scholarships *See* Financial aid
Scholastic status check, 44
Schools, 7-8, Arts and Sciences, 67-88, Business, 89-94, Education and Psychology, 95-104, Graduate, 122-123, Nursing and Health Sciences, 105-111, Technology and Applied Science, 112-121
Science education, center for, 12, courses in, 216, degree program in, 72
Second bachelor's degree, 57
Second majors, 56
Secondary and special subject teaching, courses in, 216-217, programs for teachers, 97
Secretarial courses and programs *See* Office administration
Semester hours, defined, 44; for graduation, 58
Senate, faculty, 6
Service centers, 10-12
Service courses *See* Physical education
Service school credits, 54
Shuttle bus service, 6
Social Change, minor in, 69
Social sciences, courses in, 217, degree programs in, 84
Social work and sociology, department of, 85, courses in, 217-219, degree program in, 85-86
Sociology, courses in, 219-220, degree programs in, 85, minor in, 86
Southern Appalachian Research-Resource Management Cooperative, 11
Spanish *See* Modern foreign languages
Speakers Bureau, 13
Special education, courses in, 222-223, degree programs in, 102-103, minor in, 103 *See also* Communication disorders
Special Services program, 14
Special students, admission of, 42
Special studies programs, 63
Special subject teaching, programs in, 97,
Specialist degrees *See* Graduate School
Speech and hearing *See* Communication disorders
Speech and Hearing Center, 11
Speech and theatre arts, courses in, 223-226, degree programs in, 86-88, department of, 86, minors in, 88
Sports, 18
Sport management, degree program in, 100, courses in 226-227
Statistics, concentration in, 69
Student academic record policy, 47
Student academic appeals procedure, 46
Student activities and services, 17
Student aid *See* Financial aid
Student development, office for, 234
Student Government Association, 17
Student housing *See* Housing
Student placement services *See* Placement services
Student regulations, 20-23 *See also* Academic regulations
Student teaching, admission to, 96
Studio art *See* Art
Study abroad, 63
Substitutions, academic, 57
S-U grading, 45
Summer events, 14
Summer orientation program, 19, 39
Summer school, 13, admissions, 43, dates, 4-5, early registration for, 43; refunds, 29, room reservations for, 17, program for youth, 14
Supervision *See* Educational supervision
Suspension, academic, 48
Talent Search, 13
Teacher education, certification in, 97, degrees in, 97, program in, 95-97, student teaching, 96
Teacher placement service, 19
Technical programs, transfer from, 51
Technology and applied science, school of *See* Schools
Telephone numbers, 4
Television. *See* Radio and television
Testing Center, 19
Tests *See* Examinations
Textbooks *See* Book rental plan
Textiles *See* Clothing and Textiles
Theatre *See* Speech and theatre arts
Therapeutic recreation, courses in, 227-228, degree program in, 99, minor in, 101
Tracks *See* majors
Trade and industrial education, programs in, 121
Traffic regulations, 23
Transcripts, 47
Transfer of credit, 50
Transfer students, admission of, 41
Transient students, admission of, 42
Trio programs, 13
Trustees, board of *See* Western Carolina University
Tuition, 24, out-of-state, 24, refunds, 28, for residents aged 65, 28
Tutoring services, 13
Two-Year rule, 49
Undeclared students, 57
Undergraduate course loads, 44
University Book Store, 19
University Center, A K Hinds, 18
University Food Service, 19
University Honors Program, 63
University Media Center, 12
University of North Carolina, 229
University requirements for bachelor's degrees, 57-58
University Health Service, 18
University scholars, 47

University studies courses, 228
Upward Bound, 13
Validation of transfer credit, 50-51
Vehicle registration, 23
Veterans Administration Programs, 37
Veterans, assistance programs for, 19, academic credit for, 54, services for, 19
Veterinary medicine *See* Preprofessional curricula
Vocational education *See* Occupational education programs
Vocational/technical instructor project, 14
Waivers and substitutions, 57
Warning, academic, 48
Water resources, concentration in, 82
Western Carolina University, administration of, 231-234, Board of Trustees of, 231, faculty of, 235-252, history of, 229
Western Carolina University Center in Cherokee, 9
Western Carolina University Programs in Asheville, 8
Withdrawal, 46
Work-study program, 38
Writing and editing, concentration in, 73, minor in, 74
Writing Center, 10

WESTERN CAROLINA UNIVERSITY

CULLOWHEE, NORTH CAROLINA 28723

NON PROFIT ORG
U S POSTAGE
PAID
CULLOWHEE, N C
PERMIT NO 1



A COMMUNITY OF SCHOLARSHIP