ELIZABETH CITY STATE UNIVERSITY

catalog

UNDERGRADUATE
2016-2017

ELIZABETH CITY
STATE UNIVERSITY

SACS ACCREDITATION STATEMENT

Elizabeth City State University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097) to award degrees at the baccalaureate and master's levels.

NON-DISCRIMINATION STATEMENT

Elizabeth City State University is committed to equality of educational opportunity and does not discriminate against applicants, students, or employees based on race, color, national origin, religion, gender, age, or disability.

Elizabeth City State University supports the protection afforded to all members of its community by all applicable state and federal laws — including, but not limited to, Title VI and Title VII of the Civil Rights Act of 1964, as amended by the Civil Rights Act of 1991 (CRA), the Americans with Disabilities Act of 1990 (ADA) as amended; Section 504 of the Rehabilitation Act of 1973; the Equal Pay Act of 1963; the Discrimination in Employment Act of 1967 (ADEA); Executive Order 11246; Title IX of the Education Amendments of 1972; Sections 799A and 845 of the Public Health Service Act; the Family Educational Rights and Privacy Act of 1974 (FERPA) — Part of PL 93-308; and the Family and Medical Leave Act of 1993 (FMLA).

ACCREDITATIONS AND MEMBERSHIPS

Elizabeth City State University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award degrees at the Baccalaureate and master's level accredits Elizabeth City State University (ECSU). Contact the Commission on Colleges at 1866 Southern Lane, Decatur GA 30033-4097 or call 404-679-4501 for questions about the accreditation of Elizabeth City State University.

The following academic programs are accredited:

- The Department of Business and Economics is accredited by The Association to Advance Collegiate Schools of Business (AACSB)
- The Laboratory School is accredited by the National Association for the Education of Young Children (NAEYC)
- The Social Work program is accredited by the Council on Social Work Education (CSWE)
- The Teacher Education Program is approved by the North Carolina State Board of Education and accredited by the National Council for the Accreditation of Teachers (NCATE)
- The Engineering Technology Program is accredited by the Engineering Technology Accreditation Commission (ETAC) of Accreditation Board for Engineering & Technology (ABET) Inc.
- The Music program is accredited by the National Association of Schools of Music (NASM)

The university as a whole or through components of it has current membership in various professional learned organizations. Memberships are held in the following:

Academy of Criminal Justice Sciences	American Association of Colleges for Teacher Education
American Association of Higher Education	American Association of State Colleges and Universities
American Counseling Association	American Council on Education
American College of Sports and Medicine	American Library Association
American Political Science Association	American Psychological Association
American Red Cross	American Society of Criminology
Association on Higher Education and Disability	American Society for Public Administration
Association for Supervision and Curriculum Development	Association for Institutional Research
Association of Unmanned Vehicle Systems	Association of University and College Counseling Center Directors
Association to Advance Collegiate Schools of Business	Association of Technology, Management and Applied Engineering
Aviation Accreditation Board International	
Carolinas Association of Collegiate Registrar and Admissions Officers	Central Intercollegiate Athletic Association
Conference of Southern Graduate Schools	Council of Graduate Schools
Council for the Accreditation of Teacher Education (CAEP)	Council of Historically Black Graduate Schools

Council for Opportunity in Education	Council on Social Work Education
Council on Undergraduate Research	HBCU Library Alliance
National Association of African American Honors Programs	National Academic Advising Association
National Association of Colleges & Employers	National Association of Colleges & Employers
National Association of College and University Attorneys	
National Association of Student Financial Aid Administrators	National Association of College & University Food Services
National Business Aviation Association	National Collegiate Athletic Association
National Collegiate Honors Council Association	National Association for Kinesiology for Higher Education
National Association for Sport and Physical Education	National Association of Schools of Music
National Council of University Research Administrators	North Carolina Association of Colleges & Employers
North American Association of Summer Sessions	North Carolina Association of Institutional Research
North Carolina Association of Colleges for Teacher Education	North Carolina Association on Higher Education and Disability
North Carolina Association of Summer Sessions	North Carolina Conference of Graduate Schools
North Carolina Honors Association	North Carolina Library Association
North Carolina Preservation Consortium Archives	Second Nature-American College & University President's Climate Commitment
Southern Association of Libraries	Southern Business Administration Association
Southern Regional Honors Association	University Aviation Association

NOTE TO STUDENTS

The publisher of this catalog has attempted to present information which, at the time of preparation for publication, most accurately describes the course offerings, faculty listings, policies, procedures, regulations and requirements of the university. However, it does not establish contractual relationships. The university reserves the right to make changes in both curricula and relationships without prior notice. Students should consult academic advisors for current information.

Copies of the general catalog are made available to all students registered at the university, high school guidance counselors, and college university libraries. This catalog is also available on ECSU's Website at: www.ecsu.edu/registrar

MESSAGE FROM THE CHANCELLOR

WELCOME TO ELIZABETH CITY STATE UNIVERSITY!

Since 1891, Elizabeth City State University has proudly served students from around the country, across the state, and most notably from northeastern North Carolina. As the university celebrates its 125th Anniversary in 2016, ECSU's commitment to providing access to an intellectually stimulating, high-quality, affordable education in an ideal campus setting will continue to serve as its hallmark.

Consistently, ECSU has earned top rankings in college guides and national publications. Our latest rankings – #1 in Washington Monthly's Best Baccalaureate Colleges (2015) and #2 in U.S. News and World Report's (2016) Top Public Schools (Regional Colleges in the South) – are noteworthy accomplishments. Moreover, our recent recognition on the list of the 2016 Military Friendly® Schools brings deserved attention to ECSU's keen focus on distinctive approaches to providing college access to a broad community of learners.

With 28 undergraduate degree offerings and four graduate degree programs, flexible study options and research opportunities are limitless. Students' participation in honor societies, creative endeavors, musical ensembles, CIAA sports, clubs, and student life activities all enhance their personal growth and leadership development. New technology-enhanced learning initiatives also give ECSU students a competitive advantage in the 21st century

You'll find that our dedicated faculty, staff, students, alumni, and community partners make ECSU a great university.

Dr. Thomas E. H. Conway, Chancellor

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ACADEMIC CALENDARS

SUMMER SCHOOL 2016

Monday, May 23	Residence Halls Open
Tuesday, May 24	First Day of Classes (Main and 1st Sessions)
Friday, May 27	Last Day to enroll (register), drop/add a course (Main & First Sessions) or change from credit to audit with tuition adjustment
Monday, May 30	Memorial Day – No Classes
Tuesday, May 31	Last Day to withdraw from the University and receive a refund (Main and 1st Sessions)
Wed-Thurs, June 8-9	Mid-term Examinations (1st Session)
Friday, June 10	Last day to register and pay for 2nd Session
Monday, June 13	Last day to Withdraw from Course with grade "W" (Main & First Session)
Friday, June 17	Last Day to withdraw from the University and receive Grade "WD"
Wednesday, June 22	Final Examinations (1st Session)
Thursday, June 23	Mid-Term Examinations (Main Session)
Friday, June 24	Final Grades for 1st Session due to Registrar by 5:00 p.m. Rental Books (1st Session) returned by 4:00
Tuesday, June 28	First Day of Classes 2nd Session
Friday, July 1	Last Day to drop a course (second session) or change from credit to audit With tuition adjustment
Monday, July 4	Independence Day – No Classes
Thursday, July 7	Last Day to withdraw from the University and receive a refund (2nd Session)
Wed-Thurs, July 13-14	Mid-Term Examinations (Second Session)
Monday, July 18	Last day to Withdraw from Course with grade "W" (2nd Session)
Wednesday, July 20	Last day to Withdraw from University with grade "WD" (2nd Session)
Tue-Wed, July 26-27	Final Examinations (Main and Second Sessions)
Thursday, July 28	Final Grades for Main and 2nd Sessions due to Registrar by 5:00 p.m. Rental Books (all Sessions) returned by 4:00 p.m.

FALL SEMESTER 2016

Monday, August 1	**Classes Dropped for Non-Payment**
Monday, August 8	**Classes Dropped for Non-Payment**
Wednesday, August 10	Fall Faculty/Staff Institute
Thursday-Friday, August 11-12	New Student Orientation
Saturday, August 13	Graduate Programs, and New Transfer Students Registration, 9:00 a.m. to 3:00 p.m.
Sunday, August 14	Residence Halls Open, All Students
Monday, August 15	Official Registration, 8:30 a.m. to 7:00 p.m. 7:30 p.m. - Classes Dropped for Non-payment
Tuesday, August 16	**Classes Begin for Fall 2016** **Late Registration and Drop/Add Period Begins, 8:30 a.m.**
Monday, August 22	**Late Registration and Drop and Add Period Ends, 5:00 p.m.**
Tuesday, August 23	**First Day to Withdraw from classes and Receive a Grade of "W"**
Monday, September 5	Labor Day Holiday, Classes Dismissed, Offices Closed
Tuesday, September 6	**Classes Resume, 8:00 a.m.**
Thursday, September 15	Fall 2016 Graduation Applications Due to Registrar's Office
Tuesday, October 11	Last Day to Remove "I" Grades
Thursday-Wednesday, Oct 13-19	Mid-Term Exams (All Students)
Friday, October 21	Deadline for Posting Grades - 12:00 p.m.
Thursday- Friday, October 20-21	Fall Recess
Monday, October 24	**Classes Resume, 8:00 a.m.**
Monday-Friday, Nov 7-18	Academic Advisement/Pre-Registration for Spring 2017 & Winter Session
Wednesday, November 2	Last day to Withdraw from Classes and Receive a Grade of "W"
Monday, November 14	Last Day to Withdraw from the University and Receive a Grade of "WD"
Thursday, November 17	Spring 2017 Graduation Applications Due to Registrar's Office
Wednesday – Friday, November 23 – 25	Thanksgiving Holiday, Classes Dismissed
Monday, November 28	**Classes Resume, 8:00 a.m.**
Tuesday, November 29	**Last Day of Classes**
Wednesday, November 30	Reading Day
Thursday, December 1	Reading Day
Friday – Tuesday, December 2-6	Final Examinations, Graduating Seniors
Wednesday, December 7	Deadline for Posting Graduating Seniors Grades – 12:00 p.m. Last Day to Return Books/Mailbox Keys Without Charge for Graduating Seniors
Friday – Thursday , December 2 – 8	Final Examinations, Remaining Students
Friday, December 9	Deadline for Posting Grades for Remaining Students – 3:00 p.m. Last Day to Return Books/Mailbox Keys without Charge for Remaining Students
Saturday, December 10	**Fall Commencement**

Spring Semester 2017

Monday, January 2	Classes Dropped for Non-Payment
Wednesday, January 4	Winter Faculty/Staff Institute
Thursday - Friday, January 5-6	New Student Orientation
Sunday, January 8	Residence Halls Open – All Students
Monday, January 9	Official Registration, 8:30 a.m. to 7:00 p.m. 7:30 p.m. - Classes Dropped for Non-payment
Tuesday, January 10	**Classes Begin for Spring 2017** **Late Registration and Drop and Add Period Begins, 8:30 a.m.**
Monday, January 16	Dr. Martin L. King, Jr. Holiday, Classes Dismissed, Offices Closed
Tuesday, January 17	**Classes Resume, 8:00 a.m.** **Late Registration/Drop-Add Period Ends, 5:00 p.m.**
Wednesday, January, 18	First Day to withdraw from classes and receive a Grade of "W"
Wednesday, January 18	Winter Session Ends
Wednesday, March 1	Financial Aid Deadline for Priority Funding
Friday, March 10	Founders' Day
Saturday – Friday, March 4-10	Mid-Term Exams (All Students)
Tuesday, March 7	Last Day to Remove "I" Grades
Monday, March 13	Deadline for Posting Grades – 12:00 p.m.
Monday - Saturday, March 13-18	Spring Recess
Monday, March 20	**Classes Resume, 8:00 a.m.**
Mon-Tues, March 20-April 4	Academic Advisement/Pre-Registration for Summer/Fall 2017
Friday, April 14	Good Friday Holiday, Classes Dismissed, Offices Closed
Saturday, April 15	Saturday Classes Dismissed
Monday, April 17	Easter Monday, Classes Dismissed
Tuesday, April 18	Classes Resume, 8:00 a.m.
Tuesday, April, 18	Last Day to Withdraw and Receive a Grade of "WD"
Tuesday, May 2	Last Day of Classes
Wednesday-Thursday, May 3-4	Reading Days
Friday-Tuesday, May 5-9	Final Exams, Graduating Seniors
Wednesday, May 10	Deadline for Posting Graduating Seniors' Grades -12:00 p.m.
Wednesday, May 10	Last Day to Return Books/Mailbox Keys, without Charge for Graduating Seniors
Friday – Thursday, May 5-11	Final Exams, All other students
Friday, May 12	Last Day to Return Books/Mailbox Keys without Charge for Remaining Students
Saturday, May 13	Spring Commencement
Monday, May 15	Deadline for Posting all Other Grades, 3:00 p.m.
Tuesday, May 16	Spring Faculty/Staff Institute

Summer School 2017

Monday, May 22	Residence Halls Open
Tuesday, May 23	First day of Classes (Main and 1st Sessions)
Friday, May 26	Last Day to Enroll (register), Drop/Add a Course (Main & First Sessions), or Change from credit audit with tuition adjustment
Monday, May 29	Memorial Day – No Classes
Tuesday, May 30	Last Day to Withdraw from the University and Receive a Refund (Main And 1st Sessions)
Wed-Thurs, June 7-8	Mid-term Examinations (1st Session)
Friday, June 9	Last Day to Register and Pay for 2nd Session
Monday, June 12	Last Day to Withdraw from Course with grade "W" (Main & First Sessions)
Friday, June 16	Last Day to withdraw from the University and receive Grade "WD"
Wednesday, June 21	Final Examinations (1st Session)
Thursday, June 22	Mid-Term Examinations (Main Session)
Friday, June 23	Final Grades for 1st Session due to Registrar by 5:00 p.m. Rental Books (1st Session) returned by 4:00
Tuesday, June 27	First Day of Classes 2nd Session
Friday, July 30	Last Day to drop a course (second session) or change from credit to audit With tuition adjustment
Tuesday, July 4	Independence Day-No Classes
Thursday, July 6	Last Day to withdraw from the University and receive a refund (2nd Session)
Wed-Thurs, July 12-13	Mid-Term Examinations (Second Session)
Monday, July 17	Last day to Withdraw from Course with grade "W" (2nd Session)
Wednesday, July 19	Last day to Withdraw from University with grade "WD" (2nd Session)
Tue-Wed, July 25-26	Final Examinations (Main and Second Sessions)
Thursday, July 27	Final Grades for 2nd Session due to Registrar by 5:00 Book Rentals (All Sessions) return by 4:00 p.m.

CORRESPONDING DIRECTORY

For prompt attention, send inquiries to the appropriate person and office, Elizabeth City State University, 1704 Weeksville Rd., Elizabeth City, North Carolina 27909. The University's information number is (252) 335-3400 and its Internet address is http://www.ecsu.edu.

GENERAL

Dr. Thomas E. H. Conway, Chancellor
Ms. Gwendolyn Sanders, Secretary of the University
Mr. Dennis Byron, Interim Vice Chancellor for University Advancement
Mr. Alyn Goodson, General Counsel
Mr. Suresh Murugan, Chief Information Officer
Mr. Rafael Bones, Chief Human Resources Officer
Mr. Derrick Johnson, Athletic Director
Mrs. Sharnita Parker-Wilson, Director of Internal Audit
Mr. John Manley, Chief of University Police

ACADEMIC AFFAIRS

Dr. Vann Newkirk, Provost and Vice Chancellor for Academic Affairs
Dr. Alonzo DeCarlo, Associate Vice Chancellor for Academic Affairs
Dr. Derrick Wilkins, Assistant Vice Chancellor for Academic Affairs
Mrs. LoraAnn E. Barclift, Executive Assistant to the Provost
Dr. Juanita Midgette-Spence, Director of Library Services
Vacant, Director of General Studies and External Learning
Mr. Michael Twiddy, Director of Small Business Technology Development Center
Vacant, University Archivist
Mr. Victor Neal, Interim Director of Retention and E-Mentoring
Dr. Harry Bass, Interim Director of Sponsored Programs, Contracts and Grants
Vacant, Director of Graduate Education
Dr. Kimberley Stevenson, Director of Distance Education and Center for Teaching Excellence

STUDENT AFFAIRS

Mr. Nolan Davis, Senior Associate Vice Chancellor for Student Affairs
Vacant, Associate Vice Chancellor and Dean of Students
Mrs. Makitta Whitehurst-McLean, Director of Career Services
Mrs. Regina McCoy-Davis, Director of Student Health Services
Ms. Sabrina Williams, Director of Housing and Residence Life
Dr. Jacqueline Huff, Director of Counseling and Testing Center
Mr. Jeremy Williams, Director of Student Activities and Engagement
Ms. Crystal Terry, Director of the Women's Center

BUSINESS AND FINANCE

Mr. Joshua Lassiter, Vice Chancellor for Business and Finance
Ms. Sheilah Faucette, Controller
Vacant, Director of Budgets
Mr. Dennis Leary, Director of Facilities Management
Mr. Charles Hall, Director of Facilities and Planning
Mrs. Rachael Haines, Director of Procurement and Materials Management
Mrs. Doraine Spence, Director of Auxiliary Services

UNIVERSITY ADVANCEMENT

Mr. Dennis Byron, Interim Vice Chancellor for University Advancement
Ms. Barbara Sutton, Director of Alumni Relations
Mr. Morris Autry, Director of Community Development

ENROLLMENT MANAGEMENT

Ms. Jocelyn Foy, Interim Assistant Vice Chancellor for Enrollment Management
Dr. Althea Riddick, University Registrar
Ms. Jill Gable, Director of Financial Aid
Vacant, Director of Admissions

GENERAL INFORMATION

HISTORY OF THE UNIVERSITY OF NORTH CAROLINA

In North Carolina, the 16 public universities that grant baccalaureate degrees are part of the University of North Carolina system. The multi-campus state university system also includes the NC School of Science and Mathematics, the nation's first public residential high school for gifted students. Chartered by the North Carolina General Assembly in 1789, the University of North Carolina was the first public university in the United States to open its doors and the only one to graduate students in the eighteenth century. The first class was admitted in Chapel Hill in 1795. For the next 136 years, the only campus of the University of North Carolina was at Chapel Hill.

Additional institutions of higher education, diverse in origin and purpose, began to win sponsorship from the General Assembly beginning as early as 1877. Five were historically black institutions, and another was founded to educate American Indians. Some began as high schools. Several were created to prepare teachers for the public schools. Others had a technological emphasis. One is a training school for performing artists.

The 1931 session of the General Assembly redefined the University of North Carolina to include three state-supported institutions: the campus at Chapel Hill (now the University of North Carolina at Chapel Hill), North Carolina State College (now North Carolina State University at Raleigh), and Woman's College (now the University of North Carolina at Greensboro). The new multi-campus University operated with one board of trustees and one president. By 1969, three additional campuses had joined the University through legislative action: the University of North Carolina at Charlotte, the University of North Carolina at Asheville, and the University of North Carolina at Wilmington.

In 1971 legislation was passed bringing into the University of North Carolina the state's 10 remaining public senior institutions, each of which had until then been legally separate: Appalachian State University, East Carolina University, Elizabeth City State University, Fayetteville State University, North Carolina Agricultural and Technical State University, North Carolina Central University, the North Carolina School of the Arts (now the University of North Carolina School of the Arts), Pembroke State University (now the University of North Carolina at Pembroke), Western Carolina University, and Winston-Salem State University. In 1985 the NC School of Science and Mathematics was declared an affiliated school of the University; in July 2007 NCSSM by legislative action became a constituent institution of the University of North Carolina. All the schools and universities welcome students of both sexes and all races.

The UNC Board of Governors is the policy-making body legally charged with "the general determination, control, supervision, management, and governance of all affairs of the constituent institutions." It elects the president, who administers the University. The 32 voting members of the Board of Governors are elected by the General Assembly for four-year terms. Former board chairmen and board members who are former governors of North Carolina may continue to serve for limited periods as non-voting members emeriti. The president of the UNC Association of Student Governments or that student's designee is also a non-voting member.

Each of the UNC campuses is headed by a chancellor who is chosen by the Board of Governors on the president's nomination and is responsible to the president. Each university has a board of trustees consisting of eight members elected by the Board of Governors, four appointed by the governor, and the president of the student body, who serves ex officio. (The UNC School of the Arts has two additional ex officio members; and the NC School of Science and Mathematics has a 27-member board as required by law.) Each board of trustees holds extensive powers over academic and other operations of its campus on delegation from the Board of Governors.

In addition to its teaching role, the University of North Carolina has a long-standing commitment to public service. The UNC Center for Public Television, the UNC Health Care System, the cooperative extension and research services, nine area health education centers, and myriad other University programs and facilities reap social and economic benefits for the state and its people.

University Mission

Elizabeth City State University, a constituent institution of the University of North Carolina, offers baccalaureate, graduate, and professional programs for a diverse student body. The institution's rich heritage provides a firm foundation for its educational endeavors, as well as its role in serving the needs and aspirations of individuals and society.

Through teaching, research, and community engagement, Elizabeth City State University provides a student-centered environment, delivered in a manner that enhances student learning, while preparing its graduates for leadership roles and lifelong learning. The University is also a leader in facilitating sustainable economic growth, while safeguarding the unique culture and natural resources of the region.

Historic Location

Located in the historic Albemarle area near the mouth of the Pasquotank River, Elizabeth City State University offers students the opportunity to receive an excellent education while enjoying a wide variety of recreational and cultural amenities. Favored by a mild climate and proximity to the world-renowned Outer Banks recreation area, ECSU can supply ingredients that help make student living and learning both exciting and fulfilling. In addition, the University offers students a variety of social programs, cultural programs, religious and musical organizations, honor societies, and clubs. Fraternities and sororities are also available to students as well as a variety of athletic teams and events.

Students may also wish to take advantage of the historical sites in the greater Albemarle and southeast Virginia areas. Williamsburg, Jamestown, Roanoke Island, Yorktown, several antebellum plantations, and beaches and waterways are among sites within an easy drive from the campus.

United States Highways 17 and 158 make the city and the University easily accessible by automobile and bus routes from all points. Hotels and motels are available to accommodate overnight visitors and ECSU is just over an hour's drive from the Norfolk (Virginia) International Airport.

ECSU is situated on 114 acres, which represent the campus proper. Another 68 acres comprise the former farm on Weeksville Road (N.C. 34); a 639-acre tract in Currituck County helps preserve the nation's diminishing wetlands and provides for educational research; and 35 acres serve residential or expansion purposes. There are also small sites in Utah and Virginia, used, respectively, for geological instruction and institutional enhancement.

Growth & Development

Elizabeth City State University has been a coeducational, undergraduate, public, and state-assisted institution since its inception on March 3, 1891, when House Bill 383 was ratified. The bill to establish the institution was introduced in the N.C. General Assembly by **HUGH CALE** (1835–1910), a black representative from Pasquotank County.

By law, the institution was initially created as a normal school for the specific purpose of "teaching and training teachers of the colored race to teach in the common schools of North Carolina." It was named Elizabeth City State Colored Normal School and began operation in the Rooks Turner Building on January 4, 1892, with a budget of $900, two faculty members, and 23 students.

During ensuing years, the institution survived a statewide effort to consolidate normal schools. Local citizens of both races were of immense help in this effort. The first Summer Session was in 1900 and on September 9, 1912, the institution moved to its current location.

Between 1891 and 1928, curricula and resources were expanded under the yeoman leadership of **PETER WEDDERICK MOORE**. Nine different academic programs — ranging from grade school to a "post-graduate" curriculum — marked Principal Moore's incumbency. The Normal curriculum had primary and grammar tracks. Enrollment increased from 23 to 355, and the faculty from two to 15 members by the time Dr. Moore retired on July 1, 1928. His designation of President-Emeritus is believed to be the first such honor in the state.

Under the leadership of the second president, **JOHN HENRY BIAS**, the institution was elevated from a two-year normal to a four-year teachers' college in 1937. President Bias served from July 1, 1928, until his death on July 15, 1939. During his tenure the name was officially changed, by an act of the legislature, to Elizabeth City State Teachers' College, effective March 30, 1939. A second purpose was given to the school: the training of elementary school principals for rural and city schools. The first Bachelor of Science degrees were awarded to 26 graduates by President Bias on May 19, 1939. The sole major was Elementary Education, with primary and grammar tracks; the Secondary School Department was discontinued in 1931.

Serving from November 18, 1939, until he resigned on December 31, 1945, the third president, **HAROLD LEONARD TRIGG**, laid plans for physical expansion and concentrated his efforts on aiding students through the National Youth Administration at the College. He also strengthened the Elementary Education major. While Dr. Bias had the onerous task of maintaining the institution during the Depression, Dr. Trigg faced the rigors of World War II which buffeted the fledgling teachers' college.

SIDNEY DAVID WILLIAMS, who became the fourth president, served from January 1, 1946, until he retired on August 31, 1958. During his administration, the Association of Colleges and Schools (an organization of historically black institutions) recognized Elizabeth City State Teachers College as an "A"-rated institution in 1957, and improvements occurred in the curricula and physical plant. Dr. Williams was designated the second President-Emeritus of the institution by the Board of Trustees on September 16, 1969. President-Emeritus Williams (born 1892) died January 21, 1974.

The college experienced significant growth and development during the administration of **WALTER NATHANIEL RIDLEY**, the fifth president, September 1, 1958–June 1968. Curricular offerings were expanded between 1959 and 1963 from the two-track Elementary Education major to 13 additional degree-granting programs, providing 17 degree granting tracks. Students also earned certificates in five vocational-technical programs for a total of 22 curricular options. Ten departments of instruction came into existence serving students pursuing both teacher-training and, for the first time, non-teaching programs.

The College was elevated from the "approved" list to full membership in the Southern Association of Colleges and Schools (SACS) in December 1961. Its accreditation has been reaffirmed by this regional agency since that time.

The school's name was changed from "State Teachers College" to Elizabeth City State College by a 1963 legislative act. In honor of his contributions to the institution, Dr. Ridley became the school's third President-Emeritus on March 3, 1988. President-Emeritus Ridley died September 26, 1996.

MARION DENNIS THORPE served as the sixth president (July 1, 1968 – June 30, 1972) and became the first chancellor of the institution (1972–1983), when the University was made one of the 16 institutions of The University of North Carolina.

Dr. Thorpe's administration was marked by vigorous efforts to improve the institution academically and physically. Increased UNC System funding allowed employment of additional experienced faculty members with doctorates, doubling the faculty size. Special programs for freshmen and increased emphasis on inter-institutional cooperation also marked his administration. Various offices and components were established, such as a Planning Division and offices covering Development, Institutional Research, the Archives and Records Center (then one of few historically black colleges with such), and Living-Learning Centers in student residence halls.

Other hallmarks of Dr. Thorpe's administration included: Trustee approval of recommendations for the school's first professors emeriti; completion of several buildings — including a 200-student residential complex; three new academic departments; 14 new degree-granting programs; six additional or variant program tracks; and an ROTC program. A Faculty Council was established; computer capability grew significantly; library holdings and usage increased; long-range and affirmative action plans were revised; a PABX telephone system was installed; a National Youth Sports Program was initiated; and the institution's history was written. Major fund-raising programs also highlighted Dr. Thorpe's tenure, including incorporation of the ECSU Foundation (1971).

Dr. Thorpe broadcasted the institution's message worldwide. Just as President Ridley made a round the-world educational tour, Chancellor Thorpe made a Far East educational tour and sent the University Choir to Europe and the Bahamas. A sculpture, entitled "Life, Liberty, Pursuit of Happiness," was presented to the citizens of Elizabeth City. Dr. Thorpe served the second longest term as chief executive and was the second to die while actively in office — April 28, 1983. Two posthumous honors came that year: a Joint Legislative Resolution (June 27), believed to be a first of its genre; and an LLD 5 (October 28), granted by his alma mater, North Carolina Central University.

Following extensive service to the institution, successively as Assistant Academic Dean/Administration; Vice Chancellor for Academic Affairs and Dean of the Faculty; and, from May 1, 1983, Acting Chancellor, **JIMMY RAYMOND JENKINS**, '65, became the first alumnus to be named chief executive officer of Elizabeth City State University on October 14, 1983. Prior to his elevation

as second Chancellor, Dr. Jenkins was instrumental in establishing several institutional improvements. These include a Health Careers center, a Division of General Studies (1977), the institution's designation as a Bicentennial Campus (1976), inaugurating a faculty extravaganza for student scholarships named "Scholarcade," and beginning the Extended Day Program.

Chancellor Jenkins' administration fostered numerous other institutional improvements, including seven new academic majors and eight degree-granting variants of existing programs. Other important innovations included community service efforts, attention to campus beautification and aesthetic improvements, establishment of an Airway Science concentration, and formation of an Office of Sponsored Programs, Contracts & Grants.

Additional accomplishments of the Jenkins Administration included the completion of a science complex housing the only planetarium in this part of the state, the erection of a computing laboratory, and construction of the Commuter Center. A 200-bed residence hall was constructed on a newly acquired tract of land long sought by the University, and plans were initiated for constructing a fine arts building on another section of this land. Dr. Jenkins' staff was the first to occupy the newly finished M. D. Thorpe Administration Building named in honor of his immediate predecessor.

Having brought total alumni to just under 12,000 graduates while enriching his alma mater through the establishment of a Music Recording Studio, Teleconferencing Center, on-campus U.S. Postal Station, and accreditation with plaudits from SACS and NCATE, Dr. Jenkins resigned effective August 31, 1995. A grateful Board of Trustees named him ECSU's first Chancellor-Emeritus, December 19, 1995.

September 1, 1995, **MICKEY LYNN BURNIM** was appointed to serve as Interim Chancellor and on July 1, 1996, he became the eighth chief executive officer of the institution upon election by the UNC Board of Governors. Dr. Burnim quickly demonstrated his ability and interest in moving ECSU forward, giving special attention to developing a comprehensive strategic plan; enhancing faculty and staff governance; initiating new business, civic and educational partnerships; establishing the University's first two endowed professorships; providing leadership for the establishment of the University's first three master's degree programs in elementary education, biology, and mathematics; and implementing several new baccalaureate degree programs, including marine environmental science, social work, communication studies, graphic design, aviation science, and pharmaceutical science. In Fall 2005, under his leadership, the University implemented a joint pharmacy program in partnership with the University of North Carolina-Chapel Hill. Dr. Burnim has also led the development of a campus computer network, and he established strong fiscal integrity.

To improve operational efficiency, Dr. Burnim is credited for having reorganized the University into four schools: Arts and Humanities; Business and Economics; Education and Psychology; and Mathematics, Science, and Technology. Additionally, he directed the development of a comprehensive enrollment management and marketing plan, which, in Fall 2005, yielded for the third consecutive year the highest enrollment in ECSU's history. In 2001, he began the oversight of the largest construction and renovation project ($46.3 million) ever undertaken at ECSU, including the construction of a physical education/fieldhouse facility, a student center, and a new residence hall. In 2004, the University opened its first privatized student housing facility, Viking Village.

Under the leadership of Chancellor Burnim, national validation of ECSU's exemplary status was received from U.S. News and World Report, which ranked ECSU among its peers as #No.1 in the category of Top Public Comprehensive Colleges in the south in 2004 and ranked the University #No.3 in 1991, 2001, 2002, and 2005. In addition, the University was nationally recognized for its high student graduation rate by the Education Trust in 2004 and 2005, and by the NCAA Foundation and USA Today in 2001 and 2002.

In 1997, 2003, and 2005, accreditation of the teacher education program was reaffirmed by the National Council for Accreditation of Teacher Education (NCATE). In 2001-2002, ECSU's university-wide accreditation was reaffirmed by the Southern Association of Colleges and Schools (SACS). Additionally, the Department of Technology received accreditation from the National Association of Industrial Technology (NAIT) in 2001, 2003, and 2005, and the ECSU Laboratory School received accreditation from the National Association for the Education of Young Children in 2003.

On September 1, 2006, **WILLIE JAMES GILCHRIST** was appointed to serve as Interim Chancellor. Immediately upon his appointment, Dr. Gilchrist focused on priority initiatives such as enhancement of master's degree programs and online distance learning; increasing grant and research options for faculty; and expanding opportunities within the

University's aviation science, music industries, teacher education, and pharmacy (UNC-Chapel Hill/ECSU Pharmacy Partnership) programs. On March 15, 2007, Dr. Gilchrist, '73, became the second alumnus to be named the chief executive officer of Elizabeth City State University. In the Fall of 2010, ECSU began its third year with Chancellor Willie J. Gilchrist as the ninth chief executive officer. While committed to offering students an outstanding education through 36 degree programs, Dr. Gilchrist identified two signature programs at ECSU. Those programs were selected based on the state's shortage of professionals available for current jobs or the expansion of new jobs in those areas. The signature programs include Aviation Science and the UNC-Chapel Hill/ECSU Pharmacy Partnership program.

Students can earn a Bachelor of Science in Aviation Science at ECSU, the state's only four-year degree program. Students can choose from four minors that will prepare them for an assortment of new jobs in aviation and avionics.

In July 2004, the NC General Assembly allotted $428 million to construct facilities for the Pharmacy Complex which opened in the Fall of 2010. The UNC-Chapel Hill/ECSU Pharmacy Partnership prepares students for careers as practicing pharmacists or pharmaceutical scientists. Increasing the number of pharmacists working in northeastern North Carolina is an important objective of this program. The new Pharmacy Complex, a three-story, 52,895 gross square foot building, opened for classes in September 2010. In the Fall of 2011, a new director for the Drug Information Center was hired. The Drug Information Center provides accurate and unbiased health information to health care professionals and the public in northeastern North Carolina and surrounding areas.

Due to a shortage of teachers across the state, Dr. Gilchrist also placed strong emphasis on ECSU's teacher education program. As current teachers retire and the state's population of school-age youths grows, additional teachers will be needed. The University offers a Bachelor of Science degree in education and two master's degrees that will prepare skilled teachers and administrators to dutifully serve in state schools. Under the leadership of Dr. Gilchrist, the University exhibited several signs of growth.

Since Dr. Gilchrist's interim appointment as chancellor in 2006, student enrollment increased from 2,681 to 3,307 students in the Fall of 2010. The University's performance as a public institution granting undergraduate degrees drew praise from a publication highly recognized among those ranking academic institutions. The U.S. News and World Report's 2012 Edition of Best Colleges rankings listed ECSU second in the Top Public Schools Regional Colleges (South) category. The Best Colleges report listed ECSU as #14 among the nation's Historically Black Colleges and Universities -- three notches higher than 2011's rank. The Top Public Schools Regional Colleges (South) is one of four regions considered for this category. Other public colleges and universities are categorized by their location in the North, the Midwest and the West. The Historically Black Colleges and Universities (HBCU) were compared only with one another for these rankings. In order to be on the list, a school must be designated currently by the U.S. Department of Education as an HBCU.

The University's accreditation was reaffirmed at the annual meeting of SACS (Southern Association of Colleges and Schools Commission on Colleges) in Orlando, Florida on December 6, 2011. SACS requires that all schools are reaffirmed every 10 years. This reaffirmation of accreditation declares that the degrees ECSU awards are coming from an institution that is financially stable and has academically-qualified faculty and administrators and approved academic programs. Thus, the academic programs are sound and thorough and provide a solid education for ECSU graduates. In essence, the University is carrying out its mission.

To better serve the growing student body, faculty and staff, as well as guests from the community, more than 700 parking spaces were added to the campus. Under Dr. Gilchrist's administration, the University purchased two 56-passenger buses that comfortably transport students, coaches, staff and faculty to destinations across the northeast and southeast. In addition, ECSU owns one 12-passenger van; a handicap accessible shuttle; one 25-passenger bus, and two Cessna Skyhawks (single engine airplanes) purchased for the purpose of training pilots enrolled in the Aviation Science program. Recent facility upgrades include the renovations of E.V. Wilkins Academic Computer Center, H.L. Trigg and Lane Halls, the G.R. Little Library, the Mickey L. Burnim Fine Arts Center, the auditorium of Moore Hall, and the lobby of the K. E. White Graduate and Continuing Education Center.

Construction of the Willie and Jacqueline Gilchrist Education and Psychology Complex began in July 2010 and was completed in December 2011. The $18.7 million facility contains 53 faculty offices, 14 classrooms, 2 computer labs, 2 virtual classrooms, and a Global Education Center on the first floor.

Construction of a new three-story residence hall began in May 2011. Viking Tower, a 210-bed residence hall was completed in August of 2012.

Between June 2013 and September 20 2014,CHARLES BECTON, a former NC Court of Appeals judge, served as interim chancellor on July 1, 2013.

On October 1, 2014, **STACEY FRANKLIN JONES** was appointed Chancellor of Elizabeth City State University. As Chancellor, Dr. Jones initiated a new *Path to Prominence* which calls for expanding educational opportunities in Science, Mathematics and other STEM disciplines.

In January 2016, **THOMAS E.H. CONWAY** became Elizabeth City State University's 11th chief executive officer and sixth chancellor.

For more information on the development of the University, see: www.ecsu.edu.

ENROLLMENT MANAGEMENT

Elizabeth City State University has positioned itself to thrive in an ever-evolving and increasingly complex global society. With the demands of the 21st century, it is imperative that enrollments increase and managed effectively. When this occurs, students who reach their potential as a result of their ECSU experience are invaluable in multiple markets. In addition, it is clear that recruiting targeted markets and deploying specific strategies tend to support increased graduation rates. Therefore, using a multi-faceted approach, the University addresses and manages enrollment concerns by coordinating the efforts of the following offices: Admissions and Recruitment, Student Financial Aid and Scholarships, and Retention.

ADMISSIONS

The Office of Admissions works to enroll students whose academic achievements are reflective of a rigorous and engaging curriculum. That means we value intellectual ability, academic achievement, and personal abilities that contribute to the Elizabeth City State University community.

STUDENT FINANCIAL AID AND SCHOLARSHIPS

The Office of Student Financial Aid and Scholarships is committed to assisting students and families in planning for and meeting expenses associated with attendance at the University. We focus on establishing aid eligibility, awarding scholarships, grants, loans, and employment to eligible students, and providing financial aid counseling to students and families for the resolution of problems associated with financing an education.

UNIVERSITY REGISTRAR

The Office of the Registrar is the steward of student records from the point of matriculation to the conferral of the degree. We offer a wide range of services to faculty, students, and members of the administration in the areas of academic records, student status, transcript requests, course enrollment, and graduation.

OFFICE OF ADMISSIONS

Admission to Elizabeth City State University is granted to all applicants who meet the minimum admission requirements. Equal consideration is given to all applicants, regardless of race, creed, national origin, or disabling conditions. The University reserves the right to bring closure to the admissions process when no further space is available. Official notification of admission eligibility will be sent to each applicant immediately after all credentials have been thoroughly evaluated.

It is recommended that high school students apply for admission to ECSU at the start of their senior year of high school. Closing dates for the submission of a completed application are listed below:

Priority Fall Admission Deadline	May 1
Fall Semester Admission Deadline	August 1
Priority Spring Admission Deadline	November 1
Spring Semester Admission Deadline	December 1
Summer Session Admission Deadline	The First Day of Instruction

Admission and application deadlines for Special Programs, Summer Sessions, Weekend/Evening Programs, and other Continuing Education courses and/or programs are announced through appropriate publications.

Application Process

1. Application forms may be obtained from the guidance office in your high school, community college, or by writing:

   The Office of Admissions
   Elizabeth City State University
   Campus Box 901
   1704 Weeksville Road
   Elizabeth City, North Carolina 27909

2. Applications must be accompanied by a nontransferable, nonrefundable $30 application fee, a current official transcript, and Scholastic Aptitude Test (SAT) or American College Test (ACT) test scores.
3. Transfer applicants must have forwarded to Elizabeth City State University an official transcript of all previous college work and an official high school transcript(s). Applications must list all colleges attended, including date(s) of attendance.
4. After being accepted, each student is required to submit the College Health Form which includes health history and a recent physical examination, including a Serology Test. The completed Health

Form signed by a licensed physician, should be mailed to Student Health Services, Elizabeth City State University, Campus Box 885, 1704 Weeksville Road, Elizabeth City, North Carolina 27909. Students who do not submit properly completed Health Forms by the end of the first two weeks of the semester in which they matriculate will be subject to dismissal.

Elizabeth City State University admits students at the beginning of the Fall, Spring, and Summer terms. Failure to submit applications with complete and accurate information will result in the cancellation of registration and dismissal from the University.

Early Admission Program

The Early Admission Program provides the opportunity for promising high school students to take college-level courses while enrolled in high school. To be eligible, students must have completed their junior year, have a combined SAT score of 1000 or higher, or ACT score of 21 or higher, and a cumulative grade point average of 3.0 or higher. The applicant must submit a formal application for admission and recommendations from counselors or the principal.

Minimum Course Requirements

All applicants must meet the following minimum course requirements to be eligible for admission:

Six course units in **language**, including

- four units in English, and
- two units of a language **other than English**.

Four course units of **mathematics** in any of the following combinations:

- Algebra I and II, Geometry, and one unit beyond Algebra II,
- Algebra I and II, and two units beyond Algebra II, or
- Integrated Math I, II, and III, and one unit beyond Integrated Math III.

Three course units in **science**, including

- at least one unit in a life or **biological science** (for example, biology),
- at least one unit in **physical scienc**e (for example, physical science, chemistry, physics), and
- at least one **laboratory course**.

Two course units in **social studies**, 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 at Elizabeth City State University.
Applicants who graduated from high school from **June 1990 to June 2006** must meet the following:

- Graduation from an accredited secondary school (If the applicant did not graduate, a high school equivalency or GED is required.)
- Presentation of a satisfactory combination of high school grade point average (GPA), and SAT or ACT scores. A high school GPA of 2.0 or above.
- Students must also pass the North Carolina Competency Examination or its equivalent in their state or country of origin.

Minimum High School GPA and SAT/ACT Scores

Applicants for first-time admission as freshmen must meet minimum high school GPA and SAT scores as indicated in the chart below.

In-State

Students Entering in the Fall	Minimum GPA	Minimum SAT	Minimum ACT
	2.5	800	17

Out-of-State

Students Entering in the Fall	Minimum GPA	Minimum SAT	Minimum ACT
	2.5	850	18

Each campus will have an exception to these admission requirements of 1 percent of the number of currently admitted students.

Rising Viking Scholars (RVS)

The "Rising Viking Scholars" Program allows for ECSU to admit students who have high grade point averages and meet RVS Program specified SAT/ACT university requirement thresholds. The RVS Program aims to provide an opportunity to prospective in-state degree seeking applicants.

Frequently Asked Questions

Q. Is the GPA score based on the weighted or un-weighted GPA?
A. The weighted GPA will be used to determine if the student satisfies the minimum GPA requirement.

Q. Is the GPA calculated based on all my courses or just the courses for the college preparatory curriculum?
A. The GPA is the cumulative GPA based on all courses taken during high school.

Q. If I take the SAT more than once, will my highest

combined score be used even if it is derived from two different test dates?
A. Yes. The highest score received on any administration of the SAT for critical reading will be combined with the highest score received on mathematics.

Q. What if my GPA is over 2.3, but my SAT is less than 750 (as an in-state student) or 800 (as an out-of-state student)? Do I meet the requirements?
A. No, you must meet both the minimum GPA and the minimum SAT score to be eligible for admission. Exceptions to the minimum requirements are handled on a case-by-case basis and in rare instances.

Q. What if I graduate in 2010, but do not apply to Elizabeth City State University until 2017? What requirements must I fulfill?
A. The minimum scores that were in effect the year you graduated from high school will be applied to determine eligibility.

Q. What if I decide to go to the community college first and transfer later? Does my high school GPA count toward admissions?
A. It depends. If you complete the A.A. or A.S. degree, then the minimum scores do not apply, but you will be evaluated on your performance at the community college. If you do not complete the A.A. or the A.S. degree, then your high school GPA and SAT scores will be used to determine eligibility.

Admission: Transfer Students or Advanced Standing

1. The Admissions Office will consider applications from students seeking to transfer from junior and/or community colleges or four-year colleges and universities accredited by their respective regional associations if the applicants have an overall cumulative GPA of 2.0 (C) or above in the institution from which they are transferring and if they are eligible to return to that institution.
2. Each transfer applicant must provide official transcripts covering all college work attempted. College courses that have not been completed within the last seven years will not be accepted automatically for transfer credit.
3. Transcripts will be evaluated in relation to the requirements of the specific academic program for which the student is accepted.
4. Grades less than "C" will not be accepted for transfer credit.
5. Students who have been placed on academic probation at their institutions but who are eligible to return to that institution will be considered for admission with the same status at Elizabeth City State University. Students who have been dismissed or suspended for disciplinary reasons from their institutions will not be permitted to enroll at ECSU.
6. Prospective students who have attended an accredited college but who have earned less than 24 semester hours of transferable credit must meet the freshman admission requirements. Also, the students must be eligible to return to the previous institution. Therefore, a transfer clearance form must be submitted by all applicants.

Special, Transient, and Military Students

(Not Applicable to Freshmen or Transfer Students)

7. Applicants who are regularly enrolled students at another institution may be admitted as a transient student provided the appropriate official at their institution: (a) authorizes their attendance at Elizabeth City State University, (b) approves in advance the course work, (c) indicates the individual is in good standing at that institution, and (d) approves the transfer credits taken at ECSU.
8. Special students are admitted for one term only (space permitting) and must be readmitted at the beginning of each subsequent term. Such applicants may be required to present evidence of having earned a college degree or evidence of the need for a specific course.
9. All special students who desire to become candidates for a degree at Elizabeth City State University must meet appropriate admission requirements.
10. Special students are designated as those who are: (a) seeking certifications, (b) seeking licensure, (c) members of a college/university consortium, (d) auditing courses, or non-degree seeking.
11. A maximum of 24 semester hours may be completed as a special student. Also, special students are not eligible for financial aid. For specific questions on any of these categories, please contact the Office of Admissions and Recruitment at (252) 335-3305.
12. Admission of Active Duty Service Members and Veterans
13. The University of North Carolina and its constituent institutions are committed to equality of opportunity. The University administers nondiscriminatory admissions policies by fairly evaluating the records of applicants. For purposes of undergraduate admission to any constituent institution of The University of North Carolina, any

individual having completed a minimum of two years of cumulative active duty service in the United States Armed Forces who otherwise meets the criteria for a transfer student will be considered a transfer student in the admissions process pursuant to 700.1.1.1[R], Special Consideration 3, with the branch of service functioning as the institution of transfer. If discharged from active duty, the veteran must have received an Administrative Discharge. This policy shall not apply to veterans receiving a "Bad Conduct or Dishonorable Discharge." Under conditions set forth by the President in regulations associated with this policy, applicants in this profile may be offered special consideration with regard to the minimum admissions and minimum course requirements for transfer students. Nothing in this policy guarantees admission for students who do not meet institutional academic standards for admission. Constituent institutions retain sole authority for admissions determinations.

Readmission: Reinstatement of Former Students

Students with a break in their enrollment studies of less than six (6) years are governed by the catalog of initial enrollment to the University.

Students with a break in their enrollment studies of more than six (6) years are governed by the catalog year of readmittance to the University.

Students wishing to return to the University after voluntary or involuntary absence must apply for readmission and complete one of the following processes:

Category A

Students who have had a break in their education studies of less than two (2) years, with no additional college course work since their last date of attendance at ECSU, should:

1. Report to the Registrar's Office and complete a re-admit form.
2. See an academic advisor to review course curriculum requirements.

Category B

Students who have had a break in their education studies of more than two (2) years and/or attended another institution since attending ECSU should:

1. Report to the Admissions Office;
2. Complete an application and pay the admissions fee;
3. Evaluate all new course work, if needed; and
4. See an Academic Advisor to review course curriculum requirements.

Students seeking readmission should apply for financial aid at least 30 days prior to the start of the semester of enrollment. Students who do not apply for aid as stipulated will be required to pay the full cost of attendance at enrollment. Students with an outstanding account will not be readmitted until their balance is paid in full.

Academic Forgiveness Policy

Elizabeth City State University recognizes that some potentially good students enroll in curricula for which they may not be suited or properly prepared, resulting in poor grades. Although these students may become academically successful after changing curricula or becoming better prepared for their course work, they often are unable to overcome a previously poor academic record, a problem that can lead to academic probation. To address this concern, the University has a policy by which students may petition the Provost and Vice Chancellor for Academic Affairs for "forgiveness." Appeals in relation to this policy may be directed to the Provost and Vice Chancellor for Academic Affairs, who will chair an ad-hoc committee, comprised of a representative from the Academic Administrative Council and a representative from the Division of Student Affairs. This committee will determine the student's qualification for forgiveness.

I. Eligibility

Academic work attempted prior to acceptance under the Forgiveness Policy is reviewed at this time. Only the credit hours (not the grades) associated with courses in which the student earned a grade of C or better are applied to the academic program. Neither the hours, nor the grades for courses in which a student earned a D or F are applied towards graduation. Once academic forgiveness is granted, it may not be reversed.

A student may qualify for academic forgiveness provided the following conditions are met:

A. Must submit Academic Forgiveness Request Form;

B. Have a break in enrollment for a minimum period of two (2) consecutive academic years (four semesters, summer sessions excluded); or

C. Have attempted at least 12 letter-graded hours during the first semester the student is readmitted with a minimum GPA of 2.5, and a 100% satisfactory completion rate (grade C or

better) after being re-admitted to the University;

D. Students who have been enrolled at another college/university since their last enrollment at ECSU must submit to the Office of Admissions official transcripts indicating that a minimum cumulative GPA of 2.0 on a 4.0 scale has been earned in all transferable courses attempted; and

E. Only transfer courses taken in which a student received a grade of C or better will be accepted for transfer credit at ECSU. The sole exception is that students may attend ECSU during summer sessions for credit, during the two academic years of non-attendance necessary for the policy to be applied.

Failure to meet the above requirements will result in a student's ineligibility, except for summer school, until such a time as a cumulative GPA of a 2.5 is achieved.

II. Effects

Once a student's eligibility for Academic Forgiveness is confirmed, the following adjustments will be made to the student's academic record:

A. All grades earned at ECSU prior to re-entry will be excluded from the calculation of the GPA (i.e., forgiven);

B. The course title and grade for the first completion will be shown on the official transcript but will be noted as "forgiven". The first grade, however, will be removed from the calculation of the cumulative grade point average. A statement on transcripts will explain which grades have been excluded from the program GPA calculation; and

C. Only credit hours earned for courses prior to re-entry with the grade of at least "C" will be retained.

A student who has been granted Academic Forgiveness must earn a minimum of 30 credit hours from the point of readmission to be eligible to receive a baccalaureate degree. A student is only eligible for academic forgiveness once during matriculation at ECSU.

Residence Status for Tuition Purposes

The Admissions Office determines the residence status of all new and returning students for the purpose of paying tuition. Responses on the application for admission, the North Carolina Residence and Tuition Status Application, and other evidence furnished by the students are used in making this determination. Students who fail to submit adequate information to establish a right to be classified as a resident of North Carolina will be classified as a non-resident.

It is the student's responsibility to verify his or her residency status before applying to the University. Students paying incorrect fees will be billed for the difference in the tuition rates.

To qualify as a resident for tuition purposes, a person must become a legal resident and remain a legal resident for at least 12 months immediately prior to classification. The burden for establishing facts justifying classification as a resident entitled to in-state tuition rates is on the applicant, who must show his or her entitlement by the preponderance of the residential information.

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

Parents' Domicile

If an individual, irrespective of age, has living parent(s) or court-appointed guardians, 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, non-domiciliary status of parents is not deemed prima facie evidence of the applicant'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 ensure that a person will become or continue to be a resident for tuition purposes. Marriage and the legal residence of one's spouse is relevant information in determining residential intent. For example, if both husband and wife are legal residents of North Carolina, and if one of them has been a legal resident longer than the other, then the longer duration may be claimed by either spouse in meeting the 12-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. Students from the military may prove retention or establishment of residence by reference, as in other cases, to residential acts accompanied by residential 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 12 months' legal residence. 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 on a statutory formula for the in-state tuition rate. This 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 for the in-state tuition rate while living in North Carolina with the service member if said dependent relative has met any requirement of the Selective Service System applicable to him or her. 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.

"Choice Act"

Section 702 of the Veterans Access, Choice, and Accountability Act of 2014, 38 USC 3679 (c) (the Choice Act), requires that the U.S. Department of Veterans Affairs (VA) disapprove and withhold funding under programs of education under the Post-9/11 GI Bill (Chapter 33) and Montgomery GI Bill (Chapter 30) at a public institution of higher learning (IHL) if the institution charges qualifying Veterans and other eligible individuals ("covered individuals") tuition and fees in excess of the rate charged to resident students. On June 23, 2015, Senate Bill 478 was enacted to conform North Carolina law with the Choice Act, thereby creating North Carolina General Statute § 116-143.3A, which, on July 9, 2015, the VA certified as being compliant with the Choice Act.

N.C.G.S. § 116-143.3A(a)(3) defines "veteran" as a person "who has served active duty for not less than 90 days in the Armed Forces, the Commissioned Corps of the U.S. Public Health Service, or the National Oceanic and Atmospheric Administration and who was discharged or released from such service under conditions other than dishonorable." This definition covers the groups defined in Section 702.

Please contact the Veteran Resource and Information Center at veteran@ecsu.edu or call 252.335.3774 for more information.

Grace Period

If a person (a) is a bona fide legal resident, (b) has consequently been classified as a resident for tuition purposes, and (c) 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 12 months measured from the date on which North Carolina legal residency was lost. If the 12 months end during an academic term for which the person is enrolled at a state institution of higher education, the grace period extends to the end of that term. The fact of marriage to one who continues domiciled outside North Carolina does not in itself cause loss of legal residency 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 another 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 maturity before enrolling at an institution of higher education, lose North Carolina legal residence if that person (1) upon becoming an adult "acts, to the extent that the person's degree of actual emancipation permits, in a manner consistent with bona fide legal residence in North Carolina" and (2) "begins enrollment at an institution of higher education not later than the Fall academic term following completion of education prerequisite to admission at such institution."

B. If a minor has lived for five or more consecutive years with relatives (other than parents) who are domiciled in North Carolina and if the relatives have functioned during this time as if they were personal guardians, the minor will be deemed a resident for tuition purposes for an enrolled term commencing immediately after at least five years in which these circumstances have existed. If under this consideration a minor is deemed to be a resident for tuition purposes immediately prior to

his or her 18th birthday, that person on achieving maturity will be deemed a legal resident of North Carolina for at least 12 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 12 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.

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 12-month duration requirement. However, any one person may receive the benefit of the provision only once.

Change of Resident 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.

Foreign Students

Applicants from non-English-speaking nations must provide evidence of proficiency in the English language with their application for admission to Elizabeth City State University. Scores on the test of English as a Foreign Language (TOEFL) or the Michigan Test are required, as are SAT/ACT scores; no application for admission is complete without such scores, and no Form I-20 will be authorized without them. For students born in non-English-speaking nations but educated in senior high schools in the United States, scores on the SAT or ACT can substitute for scores on the TOEFL or the Michigan Test. Each student must submit official proof of financial support and an English translation of all transcripts. It is preferred that all documents be sent to the Admissions Office six months prior to the date of entry.

Advanced Placement Program/College Level Examination Program (CLEP)

Elizabeth City State University participates in the Advanced Placement Program and the College Level Examination Program (CLEP) of the College Entrance Examination Board. Students who have demonstrated their achievement of specific Advanced Placement Tests or College Level Examination Program – subject exams only – may have the results submitted to the University for consideration for placement in advanced courses and for college credit.

All students are encouraged to take these tests, and they may qualify for advanced placement and credit by taking departmental tests in their area of specialization. Based upon these test results, the amount and nature of the credit granted is determined by the Admissions Committee and the pertinent department of instruction. For further information, please request a copy of the Advanced Placement Program at Elizabeth City State University.

Course Audits

1. Students enrolled at the University or students admitted with satisfactory records of experience and education may enroll for specific courses as auditors.
2. Students who audit courses must register in the University Registrar's Office, pay regular fees, and be regular in attendance, but they will not receive grades or credit.

FINANCIAL AID PROGRAMS

The Financial Aid Programs at Elizabeth City State University are designed to assist students and their parents in financing the cost of the student's education. Students who are enrolled or accepted for enrollment and are citizens or permanent residents of the United States are eligible to apply for financial aid. Assistance available to eligible students consists of grants, loans, scholarships, and part-time employment. Limited assistance is available for international students.

How To Apply for Financial Aid

All students must complete and have processed a Free Application for Federal Student Aid (FAFSA) form every year before financial aid can be offered. Students must also list the school code 002926, on the FAFSA application (www.FAFSA.ed.gov) in order for the University to obtain their financial aid data. Students who complete the application process by March 1 will be considered first for priority funding. Certain grants and scholarships may not be available to students who

apply after that date, as funds in these programs are limited.

All interested students who wish to receive any kind of financial aid at ECSU must complete the above described application process. Deadline dates for having a complete application on file are July 1 (Academic Year), December 1 (Spring Semester), and May 1 (Summer).

Should you have Financial Aid questions, please call: (252) 335-3283 or 1-800-529-8146

Grants

Federal Pell Grant

The Federal Pell Grant is based on the Expected Family Contribution (EFC), which is calculated by the Department of Education based on the information listed on the FAFSA form, the number of credit hours per semester, and the cost of attendance.

Federal Supplemental Educational Opportunity Grant (FSEOG)

FSEOG is awarded based on your EFC number, FAFSA date, Financial need, and funds available for certificate, special admit, transient, second degree, non-degree and graduate students. Students with the lowest EFC numbers receive priority.

Scholarships

Awards are based upon varied criteria and do not require repayment. Academic excellence, financial need, and major of study are just a few of the criteria used for selecting recipients. Most scholarships require a cumulative grade point average of 2.5. Contact your academic department for information on scholarships that they administer. Though not always indicated as such, most are reserved for upperclassmen who have demonstrated their academic abilities at ECSU. For a listing of additional scholarships, please visit the following websites:

www.cfnc.org, www.thurgoodmarshallfund.org, and www.studentaid.ed.gov/scholarship

ECSU Foundation Scholarships

Most Foundation scholarships are awarded to entering freshmen that have a cumulative high school GPA of 2.5 or higher, a composite SAT1 score of 1200 or more (or composite ACT score of 17 or more). Awards are made to students with the highest test scores and high school GPA. New students must submit their admissions application, test scores, and high school transcript, and they must apply for financial aid by March 1st. To remain eligible for the scholarships, students must maintain a 2.5 GPA and reapply for financial aid by March 1st. Non-freshmen scholarships are not renewable.

UNC Campus Scholarships

UNC Campus Scholarships are awarded to entering freshmen that graduate from a North Carolina high school and who have a cumulative high school GPA of 2.5 or higher, a composite SAT1 score of 1200 or more (or composite ACT score of 17 or more) and apply for federal aid by completing and submitting the Free Application for Federal Student Aid (FAFSA) by the required date. Eligible students must earn 30 semester hours a year (Fall and Spring semesters only). Each student must also exhibit high moral and ethical standards in personal and scholastic behavior as outlined by Elizabeth City State University's student handbook and catalog.

This award has a maximum value equal to the cost of tuition, fees, room, board, and books up to $3,800 per academic year. This scholarship is awarded after all other need-based funds are awarded. Freshman students can receive this scholarship for up to 8 semesters.

Continuing eligibility is based on the student completing the FAFSA each year, earning 30 semester hours a year (Fall and Spring semesters only), and meeting the required GPA:

30 credit hours earned - 2.5 cumulative GPA
60 credit hours earned - 2.75 cumulative GPA
90 credit hours earned - 3.0 cumulative GPA
120 credit hours earned - 3.0 cumulative GPA

To be eligible as a transfer student, a North Carolina resident student must be a graduate of a community or junior college in North Carolina, must have earned an Associate of Arts (AA), Associate of Science (AS), Associate of Fine Arts (AFA), or a certificate in a program that articulates directly with an academic program offered by ECSU, and must apply for federal aid. In addition, the student must have a cumulate GPA of 2.5 at a North Carolina community or junior college he or she is transferring from and maintain a 3.0 GPA after earning 30 and 60 semester hours at ECSU. Transfer students can receive this scholarship for up to 4 semesters.

Loans

Loans are money borrowed that must be repaid, with interest. Eligible students must be enrolled at least six credit hours to receive a federal loan. A promissory note must be signed and completed along with entrance/exit counseling. Please refer to the Federal Student Guide for detailed information.

The Federal Perkins Loan Program

This program offers low-interest loans for students who have exceptional financial needs and are enrolled in an

eligible program. Awards are generally made on a first-come first-served basis until funds are exhausted. When awarded, the student must complete a promissory note and undergo entrance counseling with a student account representative in the Bursar's office.

William D Ford Federal Direct Stafford Student Loans

These loans are backed by the federal government. Credit checks are not required for students. There are two types of Stafford Loans: subsidized and unsubsidized. Students must have a financial need to receive a subsidized Stafford Loan. The U.S. Department of Education will pay the interest on a subsidized Stafford Loan during certain periods. Interest rates are fixed at 6.8 percent for student loans first disbursed on or after July 1, 2012. Rates are subject to change. A promissory note and entrance counseling must be completed at www.studentloans.gov.

Eligible parents may borrow directly from the U.S. Department of Education. This program charges a 4 percent Origination Fee which will be taken out of the loan. The fixed interest rate is 7.9 percent. Parents can apply at www.studentloans.gov.

Federal Family Education Loan (FFEL) Program:
Annual limit based on cost of attendance budget:
Dependent Students:

- First Year: $5,500 - No more than $3,500 of this amount may be in subsidized loans.
- Second Year: $6,500 - No more than $4,500 of this amount may be in subsidized loans.
- Third Year and each year beyond: $7,500 - No more than $5,500 of this amount may be in subsidized loans.

Independent students (and dependent students whose parents are unable to obtain PLUS Loans):

- First Year: $9,500 - No more than $3,500 of this amount may be in subsidized loans.
- Second Year: $10,500 - No more than $4,500 of this amount may be in subsidized loans.
- Third Year and each year beyond: $12,500 - No more than $5,500 of this amount may be in subsidized loans.

Maximum Total Debt Upon Completion of Undergraduate Studies:

- Dependent Students: $31,000 - No more than $23,000 of this amount may be in subsidized loans.
- Independent Students: $57,500 - No more than $23,000 of this amount may be in subsidized loans.

Financial Aid Policies and Conditions of Awards

The following financial aid policies and conditions of award apply to students who are recipients of federal or state financial assistance while attending Elizabeth City State University:

- Students must apply annually for federal aid by completing the Free Application for Federal Student Aid (FAFSA) by March 1 of each year.
- Students must be regularly admitted to ECSU in a degree-seeking status and must be enrolled in an eligible degree-seeking program prior to the first day of the term to participate in federal and state aid programs. Provisionally-admitted and special-admitted students are not eligible for financial assistance. Transient students should contact their home institution for financial aid.
- Students must (1) meet the school's Satisfactory Academic Progress Standards, (2) not owe a refund on any grant or be in default on any educational loan and (3) not have borrowed in excess of the loan limits under the Title IV programs at any institution.
- Financial aid is limited to coursework required for the declared major as stated in this catalog. Financial aid is not available for audit courses. Students are allowed to repeat a previously-passed class once.
- Students must attend the classes in which they have enrolled to be eligible for aid payment.
- Students must submit all required documents. Failure to submit the requested documents may result in a delay or loss of financial aid funds.
- Students are aware that the Office of Financial Aid and Scholarships cannot award federal, state, and institutional funds over the student's Cost of Attendance budget. Any outside scholarships or alternative loans must be reported to the Office of Financial Aid and Scholarships and these funds may reduce the amount of financial aid the student receives.
- Financial aid awards are based on full-time enrollment for each term awarded. Less than full-time enrollment may require an adjustment to the aid award. Graduate students enrolled in 9 semester hours are classified as full-time and 4.5 semester hours as half time.
- Students awarded an educational student loan must complete loan counseling prior to their first loan disbursement. Federal regulations require that first-year, first-time borrowers have their first loan disbursement delayed 30 days. Counseling is available online at www.studentloans.gov.

- Institutional charges (tuition, fees, room and board) will be deducted from the financial aid award each term. Students should be prepared to pay any difference owed by the fee payment deadline. For students with aid greater than the institutional charges, any remaining funds are released no later than 14 calendar days after their first day of class or the balance occurs, whichever is later.
- Students must report any financial aid they receive or expect to receive from an outside source.
- Employment in the Federal Work-Study program is not guaranteed. Awards are based on funding and position availability. Students cannot earn more than their annual award. Students who receive an "unsatisfactory" job performance evaluation will be terminated from the program.
- Students receiving financial aid who withdraw or who stop attending all classes are subject to regulations regarding the return of funds to the aid programs. Federal aid recipients withdrawing before the 60 percent point of the term may owe a repayment of federal funds received. Refer to the Withdrawal Policy of this catalog.

Satisfactory Academic Progress - Financial Aid

To be eligible to receive Financial Aid, which includes funds from federal, state, and institutional programs, students must maintain satisfactory academic progress (SAP). Elizabeth City State University (ECSU) is required by the U.S. Department of Education to establish minimum standards of SAP, which means the student is proceeding in a positive manner toward graduation. SAP is calculated each semester and includes all periods of the student's enrollment, including periods in which the student does not receive financial aid funds.

Satisfactory Academic Progress

Students attending ECSU must be in good academic standing and making satisfactory progress with a minimum grade point average (GPA) and completion rate in accordance with the maximum time frame, as stated below. <u>All students must maintain a 2.00 GPA to be in good standing</u>. Effective Fall 2014, all students will be governed by the following scale:

A. Grade Point Average Requirement (Qualitative)

Students must maintain the following minimum cumulative GPA:

Cumulative Earned Hours	Minimum Cumulative GPA
1 -29	2.0
30 – 59	2.0
60 – 89	2.0
90 – 190	2.0
2nd Degree & Certificate	2.0

If a student's GPA falls below the required minimum cumulative GPA, his or her eligibility to receive financial aid will be jeopardized. A student will be put on financial aid warning for the semester following the term the student fails to earn the required minimum cumulative GPA. The student has the next semester of attendance to earn the required minimum cumulative GPA. The student may receive financial aid while on financial aid warning. At the end of the warning period, if the required minimum cumulative GPA is met, the student is taken off of financial aid warning. If the required minimum cumulative GPA is not achieved, then the student will be put on financial aid suspension during the next semester of attendance. The student will not receive financial aid assistance while on financial aid suspension. The total cumulative earned hours consist of hours earned at ECSU and accepted transfer credits. Transfer credits are not included in the computation of the cumulative GPA for financial aid unless the credit was earned while attending other schools as a Transient Student, a student taking classes at another institution as an ECSU student.

Completion Rate (Quantitative)

Students must complete a minimum of 67 percent of coursework attempted each semester. Failure to complete this minimum percentage will result in a student being placed on financial aid probation during the following semester of attendance. If the student completes 67 percent of the coursework during the probationary semester, then the student will be taken off of financial aid probation. If the student completes less than 67 percent of coursework during the probationary semester, then the student will be placed on financial aid suspension for the next attending semester.

Maximum Time Frame

All students must complete their program of study within a maximum time frame of one and-one-half (150 percent) times the length of the program in which they are enrolled. This means that once a student has attempted one-and-one-half times the minimum number of credit hours necessary for completing program

requirements, the student will be ineligible to receive financial aid. Attempted hours include all attempted hours at ECSU and all accepted transfer credit. Double majors are expected to complete their program of student within 186 credit hours. If the student qualifies for graduation in a particular major but makes a personal decision to double major, the student is no longer entitled to receive Federal Title IV Aid. Second degree students are required to complete their second degree within the maximum 150% of the hours required for the second degree (maximum of 246 including hours for the first degree). For graduate students, the maximum time frame is 54 attempted hours. If the time limit has been exceeded, aid eligibility ends. The student will be placed on financial aid suspension status.

Grades

Grades of IP (in-progress), W (withdrew), WA (withdrew administratively), WP (withdrew passing), WF (withdrew failing), and WD (withdrew from the university) are not included in calculating a student's GPA, but are counted as course work attempted. I (incomplete) and FA (failure due to absenteeism) are counted as an F. All grade changes must be submitted and processed during the first 10 days of classes of the following semester. Any changes after the first 10 days of the following semester will not be included in the SAP calculation.

Transfer Students

Transfer students accepted by ECSU, not previously enrolled at ECSU, will be classified as maintaining Satisfactory Academic Progress (SAP) for the first semester enrolled. At the end of the first semester, the student's grades will be measured in accordance with the ECSU's SAP requirements. Students who previously attended ECSU, transferred to another school, then returned to ECSU, will have all of their course work reviewed.

Financial Aid Suspension

Once a student is on financial aid suspension, the student must pay for the next attending semester at his or her own expense (alternative loans may be used). All federal, state, and institutional funds are removed for the semester(s) the student has to pay. Once the student has enrolled for 6 or more hours and successfully completed the semester maintaining SAP requirements, the student's financial aid will be reinstated to financial aid probation status for the next attending term.

Appeal of Financial Aid Suspension

Students have the right to appeal their suspension of financial aid if they have extenuating circumstances that prevented them from making Satisfactory Academic Progress (SAP). Extenuating circumstances are limited to 1) death or serious illness or injury to an immediate family member, 2) extended hospitalization or medical condition of the student, 3) victimization of a violent crime or natural disaster, 4) work related difficulties, and 5) other unexpected, documented situations. Lack of transportation to school, poor class performance, and pursuit of a double or dual major are not extenuating circumstances. The appeal must be specific, must be typed, and must address the student's entire previous academic performance as well as how the circumstances have changed so that the student can meet SAP. The typed appeal must be attached to the Appeal of Financial Aid Suspension Form. The form may be obtained from the Office of Student Financial Aid and Scholarships (OSFAS) or the Financial Aid section of the ECSU website. The appeal form must be submitted one week prior to the start of the semester in which the student plans to attend. Failure to adhere to this time line will result in the student losing the right to appeal the financial aid suspension. The SAP Appeals Committee will meet to review appeals at the beginning of each semester. The OSFAS will notify the student of the committee's decision via campus email. Decisions will be available on Self-Serve Banner (SSB). The committee's decision is final.

If approved, the student will be placed on financial aid probation status for the subsequent semester. While on financial aid probation, the OSFAS may require the student to maintain a specified percentage of semester course work and cumulative GPA, and to receive tutorial assistance. If any of the prescribed conditions are not met, eligibility will be denied. The student will be awarded based on funds available. Replacement of previously awarded funds is not guaranteed.

A student is expected to know the SAP policy. Students can review their SAP status on Banner after final grades have been processed. The OSFAS attempts to notify students when they are on financial aid suspension; however, sometimes students do not receive notification due to circumstances beyond the control of the OSFAS. If a student is not notified of the financial aid suspension, that does not excuse a student from the financial aid suspension, nor does it exempt a student from appealing in a timely manner.

Withdrawal Policy (Treatment of Title IV funds when a student withdraws)

Financial aid is awarded to a student under the assumption the student will complete the entire period for which the aid was awarded. If a student withdraws before 60 percent (as measured in calendar days) of the semester has passed, the student may no longer be eligible for the full disbursement of Title IV aid and other financial aid awards.

A student should report to the Office of Student Financial Aid and Scholarships to review the calculations of the student's unearned aid due by the school and the unearned aid due by the student to the Department of Education or other agencies. Elizabeth City State University will attempt to notify the student no later than 30 days from the official withdrawal date to return its share of the student's unearned aid, and the student has 45 days from the notification date to return that portion.

An entrance and an exit interview are required for students who have received loans.

A student who has not completed the verification process as of the withdrawal date will be ineligible to receive any financial aid credit to their account.

Additional Title IV funds will end if the student fails to repay his or her portion of unearned Title IV funds within the proper time frame.

For further questions, please call our office at (252) 335-3283.

BUSINESS & FINANCE

FALL & SPRING CHARGES

Tuition and fees are due and payable prior to the beginning of each semester. Failure to pay current semester charges may cause your schedule to be canceled. Account balances that remain unpaid will incur a 5 percent interest charge monthly. Students with account balances after the start of a session will incur a onetime late payment fee after the start of a semester of 10 percent of the balance on the account Unpaid charges on your account will prevent you from registering for an upcoming term. Continuing students who do not preregister are charged a $100.00 late pre-registration fee. Visit www.ecsu.edu for current tuition fees charges and other charges.

Students living in the University Towers, the Complex, Butler Hall, Bias Hall, and University Suites will be required to pay an additional $144 per semester. Students assigned to single rooms will also be charged an additional $319 per semester.

Certified checks or money orders should be made payable to "Elizabeth City State University". Please indicate student's name and banner identification number on the face of the payment to ensure proper credit. Charge cards (Visa and Master Card) are also accepted by the University Cashier. We encourage students to utilize the online bill payment system (Self-Service Banner, SSB) to make payments on their student account. SSB is available 24 hours a day, seven days a week.

In the event that a student is unable to pay the full amount due for any semester, assistance should be sought early enough to avoid registration delays. Inability to meet financial obligations does not prevent the charges of interest and late payment fees. Payment plans are available and must be set up prior to registration day. The earlier the payment plan is established, the more favorable the payment terms. Fall payment plans set up prior to June 15 allow payments to be spread over five months, plans set up prior to July 15 allow payments to be spread over four months, plans set up prior to August 15 allow payments to be spread over three months. Spring payment plans set up prior to November 15 allow payments to be spread over five months, plans set up prior to December 15 allow payments to be spread over four months, plans set up prior to January 15 allow payments to be spread over three months. Payment of any outstanding balance remaining from a previous semester is a prerequisite for attending ECSU. All deferred fees must be paid by the end of the applicable semester. Interest and penalty charges may be included on all past due accounts.

Semester grades or transcripts will not be accessible on Self Service Banner (SSB) or sent to students with outstanding balances.

Special Charges & Fees

Application Fee

Every admissions application must be accompanied by a non-refundable fee of $30. This fee may be paid online or in form of a certified check or money order made payable to "Elizabeth City State University."

Diploma Fee

A processing fee is charged for any diploma reordered after graduation. Shipping and handling charges will be added to this fee. Please call (252) 335-3300 for current costs.

ID Card Fee

A $20 duplicating fee will be charged for the replacement of a lost or misplaced ID Card. There is a $10 fee for a replacement of a damaged card. ID cards may be obtained at the ID Office located in the Campus Post Office, Ridley University Center. No refunds will be made for cards which are lost and then found after they have been replaced. Each student is required to carry an ID card at all times on campus and to present that ID card to an authorized official upon request.

Graduation Fee

A graduation fee of $50 covers the cost of the commencement activities. It must be paid at least 45 days before graduation by any senior planning to graduate. Please see the Campus Store for graduation regalia, customized diplomas, and announcement prices.

Senior Fee

The senior fee is determined by the senior class and covers the cost of senior activities during Senior Week. It must be paid at least 45 days before graduation by any seniors planning to attend the activities.

Freshman Orientation
A $110 non-refundable charge covers the cost of the orientation program, including University lodging.

Intent to Enroll Fee
A $50 non-refundable fee in the form of a certified check or money order must be paid within three weeks after receiving a Certificate of Acceptance from the University. This fee will be applied toward payment on your tuition and fees for those students who attend the University.

Pre-Registration Charges
A $100 non-refundable fee will be assessed for any continuing student who fails to pre-register prior to deadline.

Late Registration Charges
Any student who completes registration after the last official registration date must pay a $100 late registration charge.

Housing Application Fee Room Deposit
Once a year, each boarding student must pay a $125 non-refundable housing application fee in order to secure housing. The $125 will not be applied toward the student's outstanding balance.

Post Office
The Dr. Clifford L. Jones, Sr., Post Office is located in the Ridley Center. All residential students receive a rental mailbox per calendar year with the cost included in tuition. Nonresidential students may rent a campus mailbox for an annual fee of $26.50. Postal services include postage stamps: Money Orders: Express mail; priority, registered and certified mail; and delivery and pick-up of mail to and from offices and residence halls. Contact: Mr. Christopher Jones, Post Office (252) 335-3382.

Tuition Surcharge
A fifty percent (50%) tuition surcharge will be imposed on all undergraduate, degree-seeking students taking more than 140 degree hours to complete a baccalaureate degree in a four-year (8 semester) program or more than 110 percent (110%) of the credit hours to complete a baccalaureate degree in any program officially designated by the Board of Governors as a five-year program. Each student is encouraged to consult with his or her faculty advisor to avoid excess hours. All regular semester, degree-creditable courses taken are counted, including transfer credit hours (up to 94 semester hours), repeated courses, failed courses, and those dropped after the last day of "Drop and Add."

Interest and Penalties
Pursuant to G.S. 105-241.1 (1), an interest charge at the established rate will be added to any past due account receivable from the date due until paid. A late payment penalty of no more than 10 percent of the account receivable may also be added to all past-due accounts. ECSU may waive a late payment penalty for good cause or reason.

Other Charges
Although fixed charges for tuition and fees are kept to a minimum, the University, with the approval of the Board of Governors, reserves the right to alter these charges at any time with or without prior notice, if costs of materials and services make it necessary. All charges and fees for each semester, including tuition, meals, room, and other fees, are due on or before the day of official registration. If a student is unable to pay the full cost on or before registration day, parents or prospective independent students should contact the Office of Business and Finance – Student Accounts at (252) 335-3471 to receive information regarding tuition payment plans.

Charges for Special Students

Tuition and fee schedules for Special Students are furnished upon request by the Office of Business and Finance – Student Accounts.

Charges for Auditing Courses

Charges for Audit courses are the same as those for taking a course for credit.

Charges for Summer Session(s)

Charges for Summer Session(s) are listed in Summer School brochures and furnished by the Office of Summer School.

Charges for Weekend/Evening Program

Charges for Weekend/Evening Program students are the same as those for regular students. Brochures and other information are available from the Director of the Weekend/Evening Program.

Financial Regulations

Book Rental Policies
The ECSU Book Rental Office is located in Lester Hall. The office hours are Monday through Friday, 8:00 am to 5:00 pm, unless otherwise posted. Textbooks are distributed using a book rental system. All rental textbooks shall be returned no later than the next business day after final examinations. Unreturned textbooks will be charged to the student accounts at the replacement cost. A replacement fee will be charged for missing supplemental materials like CDs, missing pages or other damage to the textbooks. A student may

not rent books for a new semester until all previously rented book charges are paid. Textbooks may be returned by mail; however, the due dates listed still apply.

Boarding Students

The boarding package includes 19, 15, 10, or 5 meals per week. All freshmen residing in University housing are required to participate in the 19 meal plan during their first semester. Sophomores, juniors, and seniors residing in University housing may choose either the 19 or 15 meal plan. Residents of Viking Village may choose 19, 15, 10, or 5 meals per week, but are required to have a meal plan. Unused meals do not carry over to the next week or semester. The meal plan rates (tax included) are as follows:

19 meals per week	$1,600.77/sem
15 meals per week	$1,389.27/sem
10 meals per week	$937.16/sem
5 meals per week	$605.35/sem

The Director of Food Services will accommodate students with dietary restrictions and will provide meals as prescribed. (Note: Appropriate documentation must be provided before special accommodations can be made.)

Damages

A student is financially responsible for damage done to any building, equipment, or other property of the University if he or she is at fault. If it cannot be determined which student is responsible for the damage, the cost of the damage will be distributed equally among the group of students using the facilities at the time of damage.

Accounts for Veterans & War Orphans

For assistance in processing Veterans Administration Applications, a veteran and/or war orphan should confer with the Registrar's Office as early as possible after his/her official class load has been determined for the semester. A veteran must register for and complete at least 12 semester hours to receive maximum benefits each semester.

Refund Policy

If a student officially withdraws from the University on or before the end of the first week of classes, the amount paid may be refunded. After the first week of classes, the charges for tuition, fees, and room and board will be assessed based on 20 percent per week for the next four weeks of the semester. After the first five weeks of classes, no refunds will be issued. The weekly charge begins with the first day of scheduled classes regardless of the actual day of enrollment.

Financial Aid will be adjusted in accordance with Federal and State regulations.

If a student departs from the University without following the "official withdrawal procedures," he or she may be subject to 100 percent of the semester charges.

Refunds Due to Dropping and Adding of Courses

A student who drops courses so that he or she is no longer a full-time student will have his or her charges reduced accordingly and will receive any refund due, provided the courses are dropped prior to the end of the official drop/add period. No adjustments or refunds will be made for courses dropped after the end of the official drop/add period.

Payment Policy

The University will not release any refund of tuition, fees, or room and board until at least four weeks have elapsed from the date of official withdrawal. Upon request, all refunds will be made by check payable to the agency or person responsible for the student's bill.

Financial Obligations

All students are expected to meet their financial obligations to the University promptly and without notice from the Office of Business and Finance. It is each student's responsibility to keep parents or guardians informed of all statements of accounts.

Students whose accounts are more than 14 days overdue may have their attendance in classes discontinued or be requested to withdraw from the University.

Students are urged to make their tuition and fee payments by mail at least fifteen (15) days before reporting to the University. Remittances should be sent directly to the Office of Student Accounts, Elizabeth City State University, 1704 Weeksville Road, Elizabeth City, NC 27909. Each remittance should state clearly and specifically the purpose and for whom the money is intended. Certified checks or money orders will be accepted.

The established State Fiscal Policies and Regulations

under which Elizabeth City State University operates state that all student accounts are due and payable on registration day, and, if not paid on that day, accounts must be paid in full prior to the close of the semester for which the student is registered. Students returning to the University with an outstanding balance will not be allowed to preregister or obtain a housing assignment. After the close of the semester, an account which remains unpaid is delinquent. No grades, transcripts of credits, or diploma shall be issued by the Office of the Registrar for any student whose account remains unpaid after the close of the semester.

The intent of this policy is primarily to place the responsibility for keeping accounts current on the student rather than on the University. The policy is not considered unduly burdensome considering the many scholarships, grants, loans, and other funds which are available to qualified students.

UNIVERSITY POLICE

For the protection of campus and visiting personnel as well as institutional facilities, Elizabeth City State University has a Police Department charged with enforcing state and local laws, university policies, rules, procedures and regulations, including campus traffic and parking regulations. The university community is expected to comply with all state and local laws, university policies, rules and procedures and regulations. Officers' authority extends on and off campus, including the power of arrest*. The University Police Office is located in the Thomas-Jenkins.

The University Police Department jurisdictional power only extends to property owned or leased by the university that may not be on the main campus. University Police also have jurisdictional power on streets that are adjacent to the university.

MOTOR VEHICLES & PARKING

Any motor vehicle operated on campus by faculty, staff, or students must be registered & display a registration decal.

Parking Lot Fees

Reserved Faculty & Staff	$115.00
Faculty and Staff	$ 60.00
Students	$ 50.00

**Fees are subject to change and are nonrefundable unless you graduate mid-fiscal year.*

For the protection of campus and visiting personnel as well as institutional facilities, Elizabeth City State University has a Police Department charged with enforcing state and local laws, University policies, rules, procedures, and regulations, including campus traffic and parking regulations. The University community is expected to comply with all state and local laws, University policies, rules, procedures and regulations. Campus police officers' authority extends on and off campus, including the power of arrest. The University Police Office is located in the Thomas-Jenkins Building.

DIVISION OF UNIVERSITY ADVANCEMENT

DIVISION OF UNIVERSITY ADVANCEMENT

The Division of University Advancement works to build, sustain, and enhance financial support to the University through a wide variety of strategic outreach efforts. Monetary gifts and resources are distributed and leveraged to benefit the academic and cultural growth of students, to better serve Elizabeth City State University's primary constituents, and to enhance the quality of life in northeastern North Carolina. Priorities in the area of university development include increasing endowments and annual scholarship support. The division manages all activities that provide the framework for building strong financial support and lasting relationships with alumni, community members, ECSU Foundation board members, ECSU employees, corporations, churches, parents, and the Board of Visitors.

As the University's main external relations arm, the Division of University Advancement is headed by a vice chancellor and includes the areas of Development, Community Development, and Alumni Relations.

OFFICE OF DEVELOPMENT

The Office of Development has three components: Annual Fund, Corporate and Foundation Development, and Major and Planned Gifts:

Annual Fund

The Annual Fund component builds a donor base that can be cultivated and developed to support all fundraising efforts; develops and motivates donors who will, on an annual basis, provide gifts to support ECSU; creates awareness and acceptance among a defined constituency; develops an understanding volunteer organization; identifies and cultivates major gift prospects for capital campaigns and planned gifts; and validates the mission of ECSU on an ongoing basis.

Corporate and Foundation Development

Development is also responsible for identifying, cultivating, and soliciting commitments to ECSU from corporation and foundations at the local, state, and national level. In particular, this unit is concerned with the writing, submission, and management of proposals that request $250,000 or more to fund academic and scholarship programs and community outreach projects as well as the endowment-building capacity of the University. Corporate & Foundation Development, in cooperation with the Office of Sponsored Programs, assists faculty and staff with the proper networking, the creation of fiscally sound budgets, and the production of strategically written proposals in order to secure external funding from charitable organizations in the private sector. In addition, this office helps to ensure that each proposal adheres to the guidelines, deadline dates, and paperwork requirements provided by each individual corporation or foundation.

Major and Planned Gifts

The Major and Planned Gifts component is responsible for managing the process of identifying, cultivating, and soliciting commitments to ECSU of $10,000 or more and for instituting and managing a comprehensive planned giving program. Unit functions include increasing the number and dollar amount of major gifts received each year; linking major donor prospects to specific programs and departments; assisting in the development and solicitation of major gift prospects for major multi-year, multi-million dollar campaigns; and enhancing the number of planned giving commitments that ECSU has with individuals and alumni each year. A planned giving advisory committee supports the development of planned giving solicitations and strategies as well as planned giving workshops, seminars, and publications.

OFFICE OF ALUMNI RELATIONS

The Office of Alumni Relations works to involve alumni and distinctive alumni groups in the University and its programs with a view toward increasing their financial support, increasing the growth and development of alumni chapters, updating and maintaining a list of ECSU graduates, producing alumni publications, and serving as the liaison between the University and the National Alumni Association.

OFFICE OF COMMUNITY DEVELOPMENT

The Office of Community Development is supported primarily by grant funds from the U.S. Department of Housing and Urban Development (HUD). The mission of the program is to provide assistance to low-wealth families in Elizabeth City, Pasquotank County, and surrounding communities by addressing the pressing developmental needs of affordable housing, neighborhood revitalization, and economic opportunity. Community Development services are provided

through housing assistance projects, information dissemination, on-site technical assistance, and a series of seminars and workshops. The Community Development Program is designed with several goals in mind: (1) to expand home ownership and affordable housing opportunities; (2) to assist persons in obtaining decent, safe, and sanitary housing; (3) to increase awareness and compliance with fair housing laws; (4) to reduce drug abuse in local neighborhoods through education and outreach activities; (5) to expand economic opportunity through research, job training, and support for small/minority business development; (6) to maximize community development and redevelopment efforts by providing a broad range of technical assistance to local governments and neighborhood organizations; and (7) to provide practical learning experiences for students through internships and community service projects.

ECSU FOUNDATION

Mission Statement

The ECSU Foundation's mission is to serve as the steward of private contributions to Elizabeth City State University in order to provide educational assistance for students, to support faculty, and to secure the operational needs of the University. The Foundation receives, invests, and administers funds received as a result of charitable contributions from the private sector on behalf of the students and programs at ECSU and, as a result, for the greater good of the community.

Guiding Principles

- To steward the resources entrusted to the Foundation's care,
- To support and assist others in conjunction with ECSU,
- To provide opportunities to individuals who might not otherwise be able to attend college,
- To invest wisely and conservatively to ensure growth of the endowment,
- To partner with the University to meet its mission in the community,
- To communicate openly, frequently, and honestly with constituents,
- To honor the privacy of our donors and friends,
- To value diversity in all its forms and respect the dignity of the individual,
- And to ensure that the Foundation meets both the letter and the support of the laws that govern its work.

The Elizabeth City State University Foundation: A Blended Component Unit of ECSU

Although legally separate, The Elizabeth City State University Foundation, Inc. and Subsidiary, is a component unit of the University and is reported as if it were a part of the University. The Foundation is governed by a 25-member board consisting of 13 ex officio directors and 11 elected directors. The Foundation's purpose is to aid, support, and promote teaching, research, and service in the various educational, scientific, scholarly, professional, artistic, and creative endeavors of the University. Because the elected directors of the Foundation are appointed by the members of the Elizabeth City State University Board of Trustees and the Foundation's sole purpose is to benefit Elizabeth City State University, its financial statements are blended with those of the University.

ECSU Endowment

The ECSU Foundation is committed to ensuring the future of the University by building ECSU's endowment to provide for its needs in perpetuity. The investment and annual reinvestment of the ECSU Foundation endowment, which is allowed at a higher rate of return than other reserve funds, lets the University increase its impact on the region as well as its capacity to meet the needs of the students it serves. The Foundation secures and manages funds, on behalf of ECSU, to establish scholarships, support distinguished professorships, and deliver both academic and community outreach programming. In all of its efforts, the ECSU Foundation is dedicated to the advancement and promotion of Elizabeth City State University.

ACADEMIC SUPPORT CENTERS

OFFICE OF THE SPECIAL ASSISTANT TO THE CHANCELLOR FOR ASSESSMENT

Mission

Welcome to the Office of the Special Assistant to the Chancellor for Assessment.

It is the mission of the Office of the Special Assistant to the Chancellor for Assessment to coordinate the university-wide assessment and planning system designed to enhance the process of institutional effectiveness and accreditation and to oversee the institutional research activities of the University. The Special Assistant also serves as the accreditation liaison and works with offices across the campus and with the regional accrediting body (Southern Association of Colleges and Schools-SACS) to implement and maintain accreditation changes.

Our core values reflect the core values of the University:

- Accountability - Being responsible for our actions is part of Elizabeth City State University. Administrators, faculty, staff, and students endeavor to expand on the quality already in existence at the University;
- Diversity - Diversity of viewpoints, experiences, and backgrounds is critical tools of a quality education in our global marketplace;
- Excellence - Excellence is the measure for teaching, learning, and service to the university community; and
- Holistic Preparation - the full measure of personal, professional, and social development of our students, faculty, and staff is an integral part of the ECSU philosophy: "to live is to learn."

Through the University assessment and planning cycle we work as a team with all campus units to assess all academic programs, academic support programs, and administrative units to understand where we are as a campus and to use that information to take the steps needed in order to ensure continuous improvement.

On behalf of the Office of the Special Assistant to the Chancellor for Assessment, the Office of Institutional Assessment, and the Quality Enhancement Plan (QEP), we appreciate the opportunity to serve the ECSU community. If you have any questions, please contact Dr. Flora Brown at 252-335-3367.

QEP: Quality Enhancement Plan

What is the QEP?

The letters QEP stand for "Quality Enhancement Plan." To enhance the quality of undergraduate education, ECSU has initiated a campus-wide plan focused on academic writing skills: "Think! Write! Revolutionize! Writing the Pathways to Discovery!"
The purpose of ESCU's QEP is to enhance students' academic writing skills, while strengthening their reading comprehension and critical/analytical thinking skills.
The successful implementation and completion of the QEP is a requirement of accreditation with the Southern Association of Colleges and Schools-Commission on Colleges (SACS-COC).
Guided by our Mission Statement and the goals in our Strategic Plan, the ECSU QEP is designed to impact student learning positively. The purpose of developing the QEP as a part of the reaffirmation process has become an opportunity for ECSU to improve academic writing and enhance the overall quality of the institution.

The QEP supports ECSU's Vision Statement to "attract and retain a diverse and highly qualified faculty that will educate and lead our students to become productive members of a global and increasingly interdependent society."

QEP Writing Studio

The QEP Writing Studio is currently open to all first-year students who are taking Composition & Grammar I (GE 102) or Composition & Vocabulary II (GE 103) courses. The Writing Studio is also a resource for QEP faculty and ECSU faculty for workshops, handouts, syllabi, sample essays, and opportunities to be workshop leaders. Students are encouraged to visit the QEP Writing Studio for assistance with an assignment or draft at any stage. It is also recommended that students schedule an appointment. However, walk-ins will be assisted when an appointment time slot becomes available.

To Make an Appointment

Call the QEP Writing Studio at (252) 335-4326 or email your name, desired appointment date, and a brief description of the assignment to: QEPWritingStudio@ecsu.edu. The Studio is located in 143 Johnson Hall with Hours of Operation from 10:00 a.m. - 4:00 p.m. Monday - Friday.

Institutional Effectiveness, Research & Assessment

The mission of the office of Institutional Effectiveness, Research, & Assessment (IERA) is to provide leadership and support in developing and managing the institutional assessment, data management/research, and planning processes. The office of IERA provides feeD.B.A.ck for continuous improvement to fulfill the mission and goals of the University.

To accomplish its mission, the Office:

- Plans and implements strategies to assess the extent to which the University achieves its mission and strategic goals;
- Collects, organizes, maintains, and analyzes institutional data to support ECSU's administration, operations, decision making, and planning;
- Coordinates a comprehensive method of evaluation for all academic programs and administrative units that contribute to the mission and strategic goals of the University;
- Provides leadership and administrative support for ECSU's learning outcomes assessment processes;
- Supports the implementation of improvements established due to assessment and evaluation;
- Integrates, where possible, internal evaluation processes with external accrediting and reporting needs;
- To provide accurate analytical studies of critical issues facing the University;
- Coordinate reporting and management of all institutional data transmitted to the University of North Carolina General Administration and other state and federal agencies, organizations, and societies;
- Providing ad hoc data and information requests from internal and external constituents;
- Plans and implements strategies to assess the extent to which the university achieves its mission and strategic goals.

HEALTH CAREERS ACCESS PROGRAM (ECSU PROGRAM)

The North Carolina Health Careers Access Program (NC-HCAP) is a statewide, inter-institutional organization located on the campus of the University of North Carolina at Chapel Hill. Established in 1971 by Dr. Cecil G. Sheps, NC-HCAP was created to help provide a solution to the severe shortage of underrepresented minority health professionals, specifically in underserved rural and inner-city North Carolina communities. For more than 35 years, NC-HCAP has provided programs and services to enhance the representation of minorities in the health professions, serving thousands of students, administrators, advisors, practitioners, community health agencies, and local Area Health Education Centers (AHECs).

Mission

The mission of the North Carolina Health Careers Access Program is to increase the number of underrepresented minorities or economically/educationally disadvantaged students who are trained, educated, and employed in the health professions.

Vision

NC-HCAP envisions a society with equitable access to culturally competent health care across all racial and ethnic groups irrespective of geographic location (urban or rural) or socio-economic status – in short, a society where no health disparities exist.

Health Careers Center

The ECSU Health Resource Center is a health resource services outreach center primarily funded by the North Carolina Health and Wellness Trust and operated by the Department of Health Professions of Elizabeth City State University. The primary objective of the center is the prevention of the onset and progression of diabetes and cardiovascular diseases among at-risk and low-income populations in Pasquotank and surrounding counties of Northeastern North Carolina.

DISTANCE EDUCATION, TEACHING EXCELLENCE, AND VIDEOCONFERENCE CENTER

The Office of Distance Education and Teaching Excellence’s role is to encourage the integration and support of instructional technologies both on campus, online and through videoconferencing. Distance Education extends availability and access to convenient

online course offerings utilizing current and emerging instructional technologies. Teaching Excellence provides professional development opportunities related to teaching, learning, technology, and pedagogy through workshops, seminars, and webinars. http://www.ecsu.edu/distanceeducation, www.ecsu.edu/cte

The Videoconference Center provides two-way interactive video services for the ECSU community and to individuals and organizations in the Albemarle region. It provides access to the North Carolina Research and Education Network (NCREN) and the North Carolina Information Highway (NCIH). Through these networks, ECSU can receive and send telecourses and participate in seminars, workshops, and conferences throughout the state. The ECSU site can also connect with sites outside the state and internationally. Satellite events are also supported through this facility. http://www.ecsu.edu/academics/programs/videoconference/index.cfm

Contact Information

Kimberly N. Stevenson Ed.D, Director, Distance Education and Teaching Excellence, Videoconference Center, Elizabeth City State University, 1704 Weeksville Road, Elizabeth City, NC 2790
140 Information Technology Center, Campus Box 924, Phone: (252) 335-3699, Phone: Toll-Free: (877) 432-7662, Fax: (252) 335-3426, knstevenson@ecsu.edu

Loretta B. Powers MSIT, Instructional Technology Specialist, Distance Education and Teaching Excellence, Videoconference Center, Elizabeth City State University, 1704 Weeksville Road, Elizabeth City, NC 27909, 140 Information Technology Center, Campus Box 924, Phone: (252) 335-3112, Phone: Toll-Free: (877) 432-7662, Fax: (252) 335-3426, lbpowers@ecsu.edu

CONTINUING EDUCATION

MISSION

The Continuing Education Program (CEP) at Elizabeth City State University is committed to contributing to the mission of the University by providing a variety of continuing education opportunities geared toward the professional and personal development of the citizens of northeastern North Carolina. The CEP is the primary unit of the University responsible for non-credit offerings. The CEP provides lifelong learners with opportunities for learning new skills, advancing their careers, and enriching their personal lives. Continuing Education utilizes ECSU's educational resources to offer lifelong learning experiences that provide continuing education units to non-traditional audiences.

VISION

The vision of the CEP is to become a leader in offering non-credit opportunities to the citizens of northeastern North Carolina and beyond. Through a focus on excellence in instructors, excellence in courses, and excellence in support services, the CEP will be instrumental in affording lifelong learners opportunities to acquire the skills and knowledge necessary to achieve their personal and professional goals.

GOALS

To provide lifelong learners with convenient opportunities for learning new skills, advancing their careers, and enriching their personal lives;
To form partnerships with businesses, industries, public agencies, organizations, schools, etc. in an effort to offer professional development to employees;
To serve as a recruitment tool for prospective students.

UNIVERSITY PLANETARIUM

The ECSU Planetarium, the only planetarium located in northeastern North Carolina from the state line to Rocky Mount, functions as an academic support unit to strengthen and enhance the University's community outreach efforts. First opened in January 1990, the Planetarium was charged with the mission of increasing public awareness in the sciences, specifically for students of the University's 21-county service region of northeastern North Carolina. Since its inception, the Planetarium has functioned as a community outreach program, encouraging elementary and secondary students to (1) develop and enhance their academic skills and (2) cultivate the interest and awareness needed to ultimately pursue post-secondary education in the sciences.

The planetarium is housed in a 9.2 meter (30 feet) diameter, hemispherical dome with a seating capacity of 60. The instrument itself is a Spitz Model 512 star projector. The theater also includes computer automation, which integrates the operation of video projection, high-definition still image projection, special effects, and laser projection. The Planetarium

offers programming for a wide range of age and education levels, from Pre-K through undergraduate, and the general public. All civic groups, churches, families, and clubs are welcomed to attend ECSU Planetarium programs, and special attention is given to programming for area school students of all ages. Programming offered to school groups addresses K-12 science competencies and is geared toward supplementation of classroom activities. Faculty and staff of ECSU are regularly encouraged to utilize the Planetarium for course instruction and augmentation.

Following the University calendar and Inclement Weather Policy, ECSU Planetarium operates Monday through Friday, 8:00 a.m. to 5:00 p.m., year-round. Some limited evening and weekend hours are provided annually for special events for 4H, Boy Scouts, and feature presentations themed with annual celebrations such as Halloween, Thanksgiving, Christmas, Martin Luther King, Jr. Day, Valentine's Day, African American History Month, and Women's History Month. All shows at the ECSU Planetarium are free of charge; however, shows are conducted by reservation only. Groups of 20 or more may schedule their own show. Individuals or groups with less than 20 are encouraged to join other groups with prior reservations. For more information, visitors may call **(252) 335-3SKY** or visit the Planetarium's website at: http://www.ecsuplanetarium.org.

ACADEMIC SUPPORT SERVICES

ACADEMIC ADVISING PROGRAM

The Academic Advising Program is operated by the Department of General Studies. It was established in 2007 in an effort to decrease the number of academic deficiencies and to help students graduate on time. An Academic Advisor has been identified in each department to advise students during the first two academic years. Students who are undeclared majors are assigned to advisors designated for undeclared majors. When undeclared students exit General Studies, they are assigned to an academic advisor in the discipline of their choice. Incoming freshmen who have chosen a major are assigned to an advisor in their major department. The Academic Advising Program publishes a newsletter to notify students regarding advisement services. Every semester, emails are sent to students informing them of advising and registration dates, advising locations, and contact persons.

Academic advising begins during New Student Orientation. The advisors are responsible for assisting students in completing the General Education Core Curriculum. Information about the Academic Advising Program is disseminated to students and faculty through presentations at Orientation for new freshmen and transfer students, during faculty meetings, through emails, and in the Academic Advising Newsletter, as well as in the Freshmen Seminar classes. **Contact: Vicky Tillett, Office of Transfer Advising/Resources, (252) 335-3474.**

ACADEMIC SUPPORT CENTER

The Center includes three laboratories that enhance the basic discipline skills of reading, writing, and mathematics, which are vital for academic achievement. Students who benefit from the Center's support services are identified by their placement examination scores, and they are subsequently assigned to one or more of three developmental courses. In addition, the Academic Support Center operates a computer laboratory which offers computer-based tutorials for mathematics and course-related materials designed for learners wanting more in-depth study in discipline area. **Contact: Reshema Combs, Department of General Studies, (252) 335-3463.**

INTERNATIONAL PROGRAMS

The Office of International Programs (OIP) is designed to build a campus-wide global perspective through an academic exchange program that fosters service, support, and advocacy: Students may study abroad, conduct research, or participate in faculty-led trips in service learning. ECSU is committed to building and managing partnerships with universities around the world and expanding the presence of international students and faculty on the campus. The OIP has joined the University of North Carolina (UNC) Exchange Program, which offers a network of colleges and universities in nine countries (Australia, Brazil, China, Denmark, Finland, Germany, Mexico, Sweden, and Uruguay) cooperating to provide affordable access to international and multicultural education for a diverse student population. The UNCEP-Exchange Program (www.uncep.org) "links North Carolina to the World through academic student exchange opportunities." The mission of the OIP is to provide all students (undergraduate and graduate) a pathway for international experiences and exposure. Study abroad is affordable. Financial aid, including scholarships, may be used to pay for exchange programs. For further information, contact Dr. Glen Bowman in the Office of International Programs at (252) 335-3424 or visit the website: http//www.ecsu.edu/academics/programs/international.index.cfm.

Study Abroad Program

Elizabeth City State University is a member of the UNC Exchange Program (UNC-EP), the official system-wide student exchange program of the sixteen campuses of the University of North Carolina. As a result, ECSU students may spend a semester or full academic year studying in Australia, Brazil, China, Finland, Germany, Mexico, or Uruguay.

ECSU offers other study-abroad opportunities as part of the Mid-Atlantic Consortium Center for Academic Excellence (MAC-CAE). The goal of MAC-CAE is to educate and train a new cadre of students from diverse backgrounds to pursue careers with the nation’s key intelligence agencies, including the Office of the Director of National Intelligence, the Defense Intelligence Agency, the Department of Homeland

Security, the Department of State, the Central Intelligence Agency, Army Intelligence, Air Force Intelligence, Navy Intelligence, the Federal Bureau of Investigation and the National Security Agency. ECSU students who are selected spend eight weeks living and learning in India. They learn to read and write in Hindi, the sixth mostly widely used language in the world.

Study abroad is affordable. Financial aid, including scholarships, may be used to pay for exchange programs. For further information, contact the Office of International Programs at (252) 335-3424 or visit 118 Moore Hall or the website http//www.ecsu.edu/academics/programs/international.index.cfm.

COMMUNITY SUPPORT SERVICES

ARCTIC AND ANTARCTIC RESEARCH EXPERIENCE FOR UNDERGRADUATES

The AaA-REU program objective is to promote the professional development of minority undergraduate students through their participation in ocean, marine, and polar science research. Each undergraduate student is assigned to a specific research team, where they work closely with the faculty. In addition, seminars, lunch meetings, and social functions are organized to facilitate undergraduate interaction. The project is conducted for eight weeks during the summer, with on-line mentoring and follow-up during the academic year. The program also includes a Research Experience for Teachers (RET) component, which involves pre-service STEM education majors. **Funding Agency: National Science Foundation (NSF).**

CENTER OF EXCELLENCE IN REMOTE SENSING EDUCATION AND RESEARCH (CERSER)

The goal of The Center of Excellence in Remote Sensing Education and Research (CERSER) is to develop and implement innovative and relevant education and research collaborations focused on ice sheet, coastal, ocean, and marine research. CERSER maintains a suite of research, education, and STEM outreach programs which support student research and training. CERSER research activities were documented in the paper titled "Temporal Reduction and Loss of an Ice Shelf in Pine Island Bay, Antarctica: 1972 – 2003" in the June 2013 issue of the IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing. As a result of this study, the bay, which was progressively exposed over the 30-year period during which the occupying ice shelf slowly retreated, was named by the US-Advisory Committee on Antarctic Names Board of Geographic Names for Elizabeth City State University and was entered into the Geographic Names Information System (GNIS), the nation's official geographic names repository. CERSER education and training activities provides millions of dollars in scholarships and student support. **Funding Agencies: NSF, Department of Defense, and NASA.**

DRUG INFORMATION CENTER

The Community Drug Information Center administered in conjunction with the School of Pharmacy at the University of North Carolina in Chapel Hill offers the specialized training required to become a Pharmacist at Elizabeth City State University. The purpose of this program is to encourage pharmacy graduates of ECSU to remain in the region to combat northeastern North Carolina's critical pharmacy workforce shortage. **Funding agency: N.C. GlaxoSmithKline Foundation.**

ENGAGING MINORITY UNIVERSITY STEM EDUCATION PROFESSORS IN THE SCIENCE OF CLIMATE CHANGE

Elizabeth City State University has joined with the University of New Hampshire under the NASA Innovations in Climate Education (NICE) to empower faculty of education programs at Minority Serving Institutions to better engage their pre-service students in teaching and learning about global climate change through the use of NASA Earth observation sets. The project provides the faculty with approaches to understanding climate change and its impacts on terrestrial and ocean ecosystems. The faculty conducts fieldwork that emphasizes place-based pedagogy. This project is designed to impact teaching first on college campuses within science education classes. Second, as pre-service teachers transition into in-service teachers, the impact will extend to elementary and secondary schools. **Funding Agency: NASA**

GLACIER EXPLORATION AND POLAR SCIENCE EDUCATION PROGRAM

The Glacier Exploration and Polar Science Education Program provides students with genuine research experiences, augmented by mentoring and sustained engagement with the polar community. The Glacier Exploration and Polar Science Education Program accesses the facilities available at the Icefield Research Program in Alaska, the CERSER facility at ECSU, and the Brathay Exploration Group in Norway. The

program operates in partnership with The Pennsylvania State University. **Funding Agency: NSF.**

HIV/STD Prevention Program

The primary goal of this project is to empower college/university students with special emphasis on African-Americans and Native Americans to change behaviors that place them at risk for HIV and STD infections. Peer Health Educators have been trained to promote HIV prevention through health education/risk reduction messages amongst their peers. Campus Coordinators have been identified to oversee prevention activities such as health fairs, HIV/AIDS counseling and testing events, STD screenings, public service announcements, social marketing campaigns, and student leadership development workshops. **Funding Agency: N.C. Department of Health and Human Services.**

Increasing the Pharmacy Workforce in Northeastern NC

This project provides resource funding for the Pharmacy Program and the Pharmacy College Admission Test (PCAT) tutorial seminars for interested students. The Project also provides scholarships for students in the Department of Math, Science, and Technology, and in the Pharmacy Program. **Funding Agency: Wachovia Foundation.**

NASA MUREP Aerospace Academy of Northeastern North Carolina

Is a collaborative effort between Elizabeth City State University (ECSU) and the National Aeronautical and Space Administration's (NASA's). The program will adopt a well-established NASA STEM curriculum with problem-based learning at its core, aligned with Next Generation Science Standards, with the commitment to increase STEM exposure for students in grades K– 12. This week—long structured STEM enrichment program engages High School students in hands-on activities that improve their critical thinking and analytical skills within science, technology, engineering and mathematics. Participants will develop and strengthen the skills and knowledge needed for success in STEM studies and STEM Careers. Hands-on activities in our Aerospace Education Lab (AEL) will be complemented by guest speakers and field trips. All Aerospace Academy activities will lead to a final project, culminating with an awards program.

NASA Total Antarctic Ice Sheet Discharge Program

Through this program, students at Elizabeth City State University will be taught to use-state-of-the-art remote sensory methods and data analysis techniques. These techniques will analyze data sets from multiple sources (including Ecesat, Landsat, and Insar) to assist in pioneering efforts to determine the total discharge of ice from the grounded Antarctic Ice Sheet. **Funding Agency: NASA.**

Polar Grid Infrastructure Program

The Polar Grid Infrastructure Program includes support for training activities associated with new partnerships across academia, government agencies, private sectors, and polar scientists who are targeted as users of the Polar Grid Research. One of the major goals of this Program is to foster the integration of Polar Science research and education through the use of the virtual classroom environment and the smaller ECSU Grid. The project will extend the virtual classroom capabilities and installation of a GRID network for training purposes. Another goal of this program is to make a wide range of resources available in the form of on-site training, on-line tutorials and courses, and other resources for education, outreach, and training. **Funding Agency: National Science Foundation.**

Science Gateway Institute

The idea for the SGW-I grew out of the results of an NSF-funded study examining the characteristics of successful, sustainable science gateways. A Science Gateway is a community-developed set of tools, applications, and data collections that are integrated through a portal or a suite of applications. Gateways provide access to a variety of capabilities including workflow, visualization, resource discovery, and job execution services. This Institute is envisioned to offer several services and resources to support the gateway development community across the entire life cycle of a gateway. **Funding Agency: NSF.**

STUDENT SUPPORT SERVICES

IT CLIENT SERVICES

IT Client Services serves the academic computing needs of students. Students are provided wireless connectivity, access to computer labs across campus, and limited technical support (i.e. anti-virus software, wireless, etc.). The Information Technology Center (ITC) has six computer labs: three for student use and three for instruction. In addition to the labs in ITC, there are currently 21 other computer labs located in departments across the campus. Most of these facilities provide discipline-specific resources that allow students to utilize applications relative to their major.
Visit the IT website for more information about the available services and support. **Contact the IT Service Desk: (252) 335-3532.**

BANNER ACCOUNT SERVICES

Banner is an administrative software application developed specifically for higher education institutions. The Banner system is highly integrated and supports multiple functions through a common database. This common database is shared by both employees and students who use Banner via Self-Service Banner (SSB) and/or Internet Native Banner (INB). Banner makes it easy to maintain records on someone who applies to the University, becomes a student, graduates, and becomes an alumnus.

Self Service Banner (SSB) is an online system that allows students to view and modify course schedules, register for classes, review grade history, and financial aid information. Students need a SSB PIN in order to log into Self Service Banner to access their information from any computer, on or off campus that has Internet access.

Visit the Banner Account website for more information. **Contact the IT Service Desk: (252) 335-3532.**

DISTANCE EDUCATION

Mission

The Office of Distance Education, Center for Teaching Excellence, and Videoconferencing encourages the integration and support of instructional technologies both on campus, online and through videoconferencing. Distance Education extends availability and access to convenient online course offerings utilizing current and emerging instructional technologies www.ecsu.edu/distanceeducation. The Center for Teaching Excellence provides professional development opportunities related to teaching and learning, technology and pedagogy through workshops, seminars, and webinars www.ecsu.edu/cte.

The Videoconference Center provides two-way interactive video services for the ECSU community and to individuals and organizations in the Albemarle region. It provides access to the North Carolina Research and Education Network (NCREN). Through these networks, ECSU can receive and send telecourses and participate in seminars, workshops and conferences throughout the state. The ECSU site can also connect with sites outside the state and internationally.
http://www.ecsu.edu/academics/programs/viderconference

Goals

1. To provide academic technology support services to administrators, faculty, staff, and students to support teaching and learning on campus, online and through videoconferencing.
2. To provide administrators, faculty, and staff with professional development opportunities and resources essential for teaching and learning on campus, online and through videoconferencing.
3. To maintain existing academic technologies and implement new technologies necessary for teaching and learning on campus, online and through videoconferencing.

Getting Started with Online Learning

Students interested in taking online courses should determine if they have the qualities to be a successful online student. Before searching for an online course, test your knowledge and skills for learning online. Take the Readiness Skills Survey and review the Qualities of an Online Learner on the Distance Education website http://www.ecsu.edu/distanceeducation. Select DE for Students, Readiness Survey. Once you determine if you are ready for online learning, select Getting Started.

BLACKBOARD

Blackboard is Elizabeth City State University's learning management system that allows students and faculty to access course materials, conduct course activities, communicate, and collaborate online. Students using Blackboard can access their courses anytime, anywhere via the Internet and on mobile devices. Blackboard accounts are automatically created each semester for all students who officially register. Visit the Distance Education website for links to Blackboard help resources.

24/7 BLACKBOARD HELPDESK SUPPORT

- Blackboard Website Address: http://ecsu/blackboard.com
- 24/7 Blackboard Online Support Center You may chat live with a support team member, submit a ticket with your issue or concern, or call directly, toll-free: **1-866-321-7157**.
- If you have not been able to resolve your issue or concern by visiting the Blackboard Help for Students or 24/7 Blackboard Online Support Center, email ECSU Blackboard Help at **de@ecsu.edu** or call toll-free: (877) 432-7662. This service is available Monday - Friday, 8:00am - 5:00PM.

CONTACT INFORMATION

Kimberly N. Stevenson Ed. D., Director, Distance Education and Teaching Excellence, Videoconference Center, Elizabeth City State University 1704 Weeksville Road, Elizabeth City, NC 27909, 140 Information Technology Center, Campus Box 924, Phone: (252) 335-3699, Toll-Free: (877) 432-7662, Fax: (252) 335-3426, knstevens@ecsu.edu

Loretta B. Powers MSIT, Instructional Technology Specialist, Distance Education and Teaching Excellence, Videoconference Center, Elizabeth City State University, 1704 Weeksville Road, Elizabeth City, NC 27909, 140 Information Technology Center, Campus Box 924, Phone: (252) 335-3112, Toll-Free: (877) 432-7662, Fax: (252) 335-3426, lbpowers@ecsu.edu

In accordance with Section 504 of the Rehabilitation Act of 1973, and American with Disabilities Act of 1990 (ADA), Elizabeth City State University offers services to students with special needs or disabilities.

CAMPUS POST OFFICE

The Dr. Clifford L. Jones, Sr. Post Office is located in the Ridley Center. All residential students receive a rental mailbox per calendar year with the cost included in tuition. Non-residential students may rent a campus mailbox for $26.50 per calendar year. Postal Services include postage stamps; money orders; express mail; priority, registered and certified mail; and delivery and pick-up of mail to and from offices and residence halls. **Contact: Christopher Jones, Post Office, (252) 335-3382.**

COUNSELING AND TESTING CENTER

The Counseling and Testing Center (CTC) offers free and confidential counseling services. Counselors are available for appointments or walk-ins weekdays. The CTC offers workshops, groups, individual, and couples counseling and campus outreach programming. Additionally, the center offers Special Needs Services, Testing (SAT, GRE, PRAXIS, MAT, LSAT), and New Student Orientation. **Contact: Counseling and Testing, (252) 335-3273.**

SPECIAL NEEDS SERVICES

In accordance with Section 504 of the Rehabilitation Act of 1973, and American with Disabilities Act of 1990 (ADA), Elizabeth City State University offers services to students with special needs or disabilities. Any student seeking accommodations must notify the Special Needs Services coordinator in the Counseling and Testing Center. Students must submit required forms and provide current documentation of their disability. **Contact Counseling and Testing: (252) 335-3273.**

EMAIL/DOMAIN ACCOUNT SERVICES

Each student has access to an email/domain account. The domain account provides access to local resources such as logging in to a campus computer, access to the Internet, and remote access to the library databases. The two accounts have the same username; however, they are unrelated. The passwords have to be synced manually by the student (changing one password does not automatically change the other).

Visit the Email/Domain Account website for more information. **Contact the IT Service Desk: (252) 335-3532.**

RETENTION

The purpose of the Office of Retention is to retain students by providing integrated academic support services and comprehensive resources that foster academic success. Promoting the growth and development of our students and collaborating with faculty and staff are central to all of our efforts. Clearly, these alliances generate appropriate student-centered guidance and support.

While the Office of Retention will use a host of strategies and tactics to increase retention rates, the following are the structural foundation of program implementation:

1. encouraging student engagement,
2. fostering learning opportunities,
3. bolstering academic support,
4. endorsing student goals, and
5. Implementing proactive retention strategies.

Students will be reminded that the work required in order to graduate is strenuous, and can sometimes be overwhelming. However, the services offered through the Office of Retention are formulated in a premise that students are at the core of our institution. For that reason, we are here to be of exceptional service to our students. ECSU is also dedicated to helping students overcome obstacles that may challenge student success (academic, social, financial, or personal). Contact: Victor Neal (252) 335-3527 or retention@esu.edu.

LIBRARY SERVICES

The G.R. Little Library is the interactive information resource center for the campus and community, serving as a research portal for students and faculty in support of their academic endeavors. The library is also open to the general public, who may obtain a library card and are encouraged to join the Friends of the Library.

The library offers access to a print collection of more than 230,000 monographs and reference works; a journal collection of more than 49,000 titles online and in print; and a collection of more than 120 online research databases. In addition, the library offers a multimedia collection that includes documentary and popular films, sound recordings, e-books, e-audio books, and some classic LPs. The library also provides access to WorldCat, a union catalog of the holdings of more than 10,000 academic and public libraries worldwide, whose resources are made available to ECSU patrons through its Interlibrary Loan service.

The library is service-oriented and patron-friendly. Librarians and support staff are available to assist patrons with a variety of library services and resources, including the University Archives.The library also provides informational tours, lectures, and classroom instruction. In addition, conference rooms, a collaborative learning center, individual study carrels, a dedicated research computer lab, and other computers are available for student use. In order to orient and support students' academic learning, information literacy tutorials are offered.

With its extensive collections, services, and connections to external resources, the library ensures that all students and faculty have access to the information resources they need to fulfill the mission of the University. The library's online public access catalog provides patrons with a searchable database of the library's holdings. The library's collections are classified according to the Library of Congress Classification System with a few minor exceptions.

The Media Center, located on the second floor of the library, provides a variety of services and spaces for students, faculty, and staff. The Library Instruction Lab and the Claude Green Computer Lab are available for faculty-and librarian-led instruction sessions. The labs are equipped with 20 Dell PC workstations each and are used to support the library's information literacy program. When not in use for instruction sessions, these labs are available as quiet study labs for students. In the Multimedia Workroom, library patrons are able to listen to audio recordings, view video recordings, and create multimedia presentations. Media staff members are available to assist patrons in the effective use of the center's multimedia equipment.

Students are encouraged to participate in the library through work study opportunities and by joining the Library Club. For the most up-to-date library hours listing please see the library website at www.ecsu.edu/library. Contact: Dr. Juanita Midgette-Spence, Director of Library Services: (252) 335-3586.

LYCEUM

The Lyceum Program was established at Elizabeth City State University to enlighten and enhance students' educational opportunities through cultural performances that include, but are not limited to the performing arts, the visual arts, and the lecture series. The Lyceum Program offers several diverse cultural performances during the academic year. The Lyceum committee partners with the Black History Committee and the Department of Visual and Performing Atrs.

The committee is composed of faculty, staff, and students. **Contact Mr. Nolan Davis, Student Affairs: (252) 335-3279.**

PIN NUMBER INFORMATION

Elizabeth City State University students utilize two specific numbers for identification and security purposes. The first is the ID number which is a 9-digit number beginning with "97" that is generated by the Banner System when students are admitted to the University. The second number is their PIN number which is defaulted for the birth date: 00/00/0000. Students are required to change this number once they enter the Self Service Banner for the first time. The University does not have access to the PIN number once the student has changed it. **Contact the Office of the Registrar: (252) 335-3300.**

RESIDENCE LIFE

The Department of Housing and Residence Life provides a living and learning environment for students. Four residential buildings and one off-campus facility provide housing for 52 percent of the student body. Students living on campus participate in hall meetings and attend workshops coordinated by the Resident Managers and the Resident Assistants in each building. Some of the workshop topics include personal safety, solving roommate conflicts, and college drinking. Students may apply to receive residence life training each year to serve as desk assistants and resident life assistants in the residence halls. **Contact Sabrina R Williams, Housing and Residence Life: (252) 335-3761.**

UNIVERSITY CAMPUS STORE

The University Campus Store is open from 8am-5pm Monday through Friday and is open for extended hours during fall and spring registrations, homecoming, and other special campus events. The Campus Store provides a book rental service for students each semester and in summer school. School supplies, electronics, sundry products, and Viking pride merchandise are also available for purchase. View www.ECSUShop.com anytime for graduation regalia, supplies, and clothing. **Contact the Campus Store Manager: (252) 335-8707, (252) 335-3402 or (252) 335-8710.**

UPWARD BOUND PROGRAM (ECSU PROGRAM)

Upward Bound is a college-based program of rigorous academic instruction, individual tutoring, and counseling for low-income disadvantaged high school students who meet criteria established by the U.S. Department of Education. The selection of students is based on the recommendation of high school teachers and counselors. An individualized educational program is designed for each student. The Upward Bound Program also provides enrichment activities and exposure to cultural events. **Contact Quay Dozier, Upward Bound Program: (252) 335-3369.**

STUDENT SUPPORT SERVICES PROGRAM

Student Support Services Program is a TRIO Program that provides opportunities for academic development and completion of requirements for post-secondary education. The purpose of the Student Support Services Program is to provide opportunities for academic development, assist students with basic college requirements, and to motivate students toward the successful completion of their post-secondary education. **Contact Quay Dozier, Student Support Services Program: (252) 335-3369.**

VETERAN AFFAIRS

VETERANS BENEFITS

Active duty service members, veterans, and their qualified dependents may be eligible for Veterans Affairs (VA) educational benefits authorized under specific chapters of Title 38 of the U.S. Code. The Veterans Affairs Office provides specialized customer services and information to assist students in establishing eligibility for and receipt of VA educational benefits. This office cannot determine eligibility, but can assist in the submission of applications and supporting documents. Only the Department of Veterans Affairs can determine student eligibility for benefits. The primary function of this office is to certify and report enrollment information to the VA to facilitate the receipt of benefits by eligible students.

OVERVIEW OF VETERANS AFFAIRS (VA) EDUCATIONAL BENEFITS

There are various Veterans Affairs (VA) educational programs available, all of which have their own unique qualifying criteria and rates of payment. Depending on the benefits, the student may be eligible to receive a monthly living stipend and have their tuition and fees paid by the VA; payment of tuition and fees are the responsibility of the student if his/her benefit does not take care of the cost of attendance. Eligible students may apply for advance payment of benefits. The benefit amount is determined by the student's training time. The VA established levels of training time as: full, 3/4, half, and less than half. Benefits for students training while on active duty and those training less than half-time are limited to the amount of tuition and fees paid. Since the number of credits determine the payment amount, it is absolutely essential that students immediately report all changes in enrollment (drops/adds) to the college's Office of Veterans Affairs.

ESTABLISH ELIGIBILITY AND RECEIVE BENEFITS

The Office of Veterans Affairs provides services necessary to establish eligibility for the VA education program. To establish eligibility with the college, students are expected to provide a copy of their VA issued Certificate of Eligibility. Once a student's eligibility has been established, students must submit a Certification Request for VA Education Benefits form in order to receive them. Students may gain access to their VA forms at www.benefits.va.gov/gibill and the Elizabeth City State University form at www.ecsu.edu or in the veterans office. Continuing students, those currently receiving benefits at Elizabeth City State University, may mail or email their signed requests after enrolling in subsequent semesters. Students who mail must follow-up via phone or email (Veteran@ecsu.edu) to ensure that the office has received their request.

VETERANS ACCESS, CHOICE, AND ACCOUNTABILITY ACT OF 2014

The following individuals shall be charged a rate of tuition not to exceed the in-state rate for tuition and fees purposes:

A Veteran using educational assistance under either chapter 30 (Montgomery G.I. Bill – Active Duty Program) or chapter 33 (Post- 9/11 G.I. Bill), of title 38, United States Code, who lives in North Carolina while attending a school located in North Carolina (regardless of his/her formal State of residence) and enrolls in the school within three years of discharge or release

from a period of active duty service of 90 days or more.

- **Anyone using transferred Post-9/11 GI Bill benefits (38 U.S.C. § 3319)** who lives in North Carolina while attending a school located in North Carolina (regardless of his/her formal State of residence) and enrolls in the school within three years of the transferor's discharge or release from a period of active duty service of 90 days or more.
- **Anyone using benefits under the Marine Gunnery Sergeant John David Fry Scholarship (38 U.S.C. § 3311(b) (9))** who lives in North Carolina while attending a school located in North Carolina (regardless of his/her formal State of residence) and enrolls in the school within three years of the Service member's death in the line of duty following a period of active duty service of 90 days or more.
- Anyone described above while he or she remains continuously enrolled (other than during regularly scheduled breaks between courses, semesters, or terms) at the same school. The person so described must have enrolled in the school prior to the expiration of the three year period following discharge, release, or death described above and must be using educational benefits under either chapter 30 or chapter 33, of title 38, United States Code.

VA EDUCATION PROGRAMS

The Post 9/11 GI Bill, Chapter 33

The Post 9/11 GI Bill provides financial support for education and housing to individuals with at least 90 days of aggregate service on or after September 11, 2001, or individuals discharged with a service-connected disability after 30 days. You must have received an honorable discharge to be eligible for the Post 9/11 GI Bill.

The Post 9/11 GI Bill became effective for training on or after August 1, 2009. The amount of support that individuals may qualify for depends on where he/she lives and what type of degree is being pursued. For a summary of Post 9/11 GI Bill benefits, see the benefit comparison chart, http://vets.gov/gi-bill-comparison-tool

Approved training under the Post 9/11 GI Bill includes graduate and undergraduate degrees, and vocational/technical training. All training programs must be offered by an institution of higher learning (IHL) and approved for GI Bill benefits. Additionally, tutorial assistance, licensing and certification test reimbursement are approved under the Post 9/11 GI Bill. Pamphlets and fact sheets about the Post 9/11 GI Bill can be found at http://benefits.va.gov/gibill/education_programs.asp

The Montgomery GI Bill-Active Duty (MGIB-AD), Chapter 30

The MGIB program provides up to 36 months of education benefits. This benefit may be used for degree and certificate programs, flight training, apprenticeship/on-the-job training, and correspondence courses. Generally, benefits are payable for 10 years following a student's release from active duty. Vietnam-era veterans with remaining entitlement under (Chapter 34, title38, U.S. Code) pamphlet can be found at http://benefits.va.gov/gibill/docs/pamphlets/ch30_pamphlet.pdf

Vocational Rehabilitation and Employment, (VR&E)

- Comprehensive evaluation to determine abilities, skills, and interests for employment
- Vocational counseling and rehabilitation planning for employment services
- Employment services such as job-training, job-seeking skills, resume development, and other work readiness assistance
- Assistance finding and keeping a job, including the use of special employer incentives and job accommodations
- On the Job Training (OJT), apprenticeships, and non-paid work experiences
- Post-secondary training at a college, vocational, technical or business school
- Supportive rehabilitation services including case management, counseling, and medical referrals

- Independent living services for Veterans unable to work due to the severity of their disabilities

Information can be found at

http://www.benefits.va.gov/vocrehab/eligibility_and_entitlement.asp

Veterans Education Assistance Program (VEAP), Chapter 32

VEAP is available for students who first entered active duty between January 1, 1977 and June 30, 1985 and elected to make contributions from military pay to participate in this education benefit program. Contributions are matched on a $2 for $1 basis by the government. This benefit may be used for degree and certificate programs, flight training, apprenticeship/on-the-job training and correspondence courses, pamphlet can be found at

http://www.benefits.va.gov/gibill/docs/pamphlets/ch32_pamphlet.pdf

Survivors and Dependents Assistance Program,

There are two main GI Bill programs offering education assistance to survivors and dependents of Veterans:

- The Marine Gunnery Sergeant John David Fry Scholarship (Fry Scholarship) is available for children and spouses of Service members who died in the line of duty after September 10, 2001.
- The Survivors' and Dependents' Educational Assistance (DEA) Program offers education and training opportunities to eligible dependents of Veterans who are permanently and totally disabled due to a service-related condition or of Veterans who died while on active duty or as a result of a service-related condition.

Information can be found at
http://www.benefits.va.gov/gibill/survivor_dependent_assistance.asp

The Montgomery GI Bill-Selected Reserve (MGIB-SR), Chapter 1606

The MGIB-SR program may be available to students if they are a member of the Selected Reserve. The Selected Reserve includes the Army Reserve, Navy Reserve, Air Force Reserve, Marine Corps Reserve, Coast Guard Reserve, Army National Guard and the Air National Guard. This benefit may be used for degree and certificate programs, flight training, apprenticeship/on-the-job training and correspondence courses. Pamphlets can be found at
http://www.benefits.va.gov/gibill/docs/pamphlets/ch1606_pamphlet.pdf

Accelerated Payment for MGIB-AD

An accelerated payment is a lump sum payment of 60% of tuition and fees for certain high-cost, high-tech programs. To qualify, students must be enrolled in a high-tech program and must certify that they intend to seek employment in a high-tech industry as defined by the VA. Accelerated payment is paid instead of Montgomery GI Bill benefits that the student would otherwise receive. Information can be found at

http://www.benefits.va.gov/gibill/accelerated_payments.asp

Licensing and Certification

Students can receive reimbursement for licensing and certification tests they take on or after March 1, 2001. These tests must be specifically approved for the G.I. Bill. The VA can pay only for the cost of the tests and no other fees connected with obtaining a license or certification. Information can be found at

http://www.benefits.va.gov/gibill/licensing_certification.asp

Tuition Assistance "Top-Up"

Tuition Assistance "Top-Up" benefits are equal to the difference between the total cost of a college course and the amount of tuition assistance that is paid by the military. Tuition

Assistance (TA) and Top-Up are not administered through this office; students must request benefits for these programs through their unit's education services offices. When received from their unit's educational services office, students submit TA authorization forms directly to the Elizabeth City State University student account's office for payment of tuition only. Fees are the student's responsibility. Information can be found at

http://www.benefits.va.gov/GIBILL/docs/factsheets/topup.pdf

National Testing Program

Advancing your education often requires you to take costly national tests. Students can be reimbursed all required (mandatory) fees charged for national admission tests and national tests for college credit. Information can be found at
http://www/benefits.va.gov/gibill/national_testing.asp

Standards of Progress

The Department of Veterans Affairs requires that students receiving educational benefits maintain satisfactory progress. This office is required to submit notification of unsatisfactory progress to the VA when a student is placed on academic probation, suspension or dismissal.

ADDITIONAL BENEFITS AVAILABLE TO ELIGIBLE STUDENTS

Flight Training

VA offers flight training benefits to those who want to advance their pilot qualifications. You must have a private pilot's license and valid medical certification before you start training. Payments are issued after the training is completed and the school submits your enrollment information to VA.

http://www.benefits.va.gov/gibill/flight_training.asp

VA Work-Study Program

This program is available to any student receiving VA educational benefits who is attending school three-quarter (3/4) time or more. An individual working under this program may work at the school's Veterans Office, VA Regional Office, Financial Information VA Medical Facilities, or at an approved state employment office. Work-study students are paid at either the state or federal minimum wage, whichever is greater. The student must contact the school, medical facility, or employment office at which he/she desires employment to determine if positions are available prior to applying.

Please note: Effective June 30, 2013, some work-study activities authorized by Congress expired. VA can no longer pay for certain work-study activities. Those are:

- Outreach services to Service members and Veterans furnished under the supervision of a state approving agency employee
- Hospital and domiciliary care and medical treatment to Veterans in a State home when VA pays an allowance to the state for such care
- Any activity relating to the administration of a national cemetery or a state Veterans' cemetery

All other work-study activities are unaffected.

Information can be found at:

http://www.benefits.va.gov/gibill/workstudy.asp

Tutorial Assistance Program

Assistance may be available to those who are eligible under Chapters 30, 32, 33, 35, and 1606 to aid student's expenses when tutoring becomes necessary. The allowance is a supplement to the monthly educational assistance check and is paid without entitlement charge for those under Chapter 35. Entitlement for those under other chapters will be charged if the tutorial assistance exceeds $600. Information can be found at
http://benefits.va.gov/gibill/tutorial_assistance.asp

ACADEMIC PROGRAMS AND STUDIES

THE SUMMER SCHOOL PROGRAM

Mission

The Summer School Program, in support of the mission of Elizabeth State University (ECSU), is committed to educating and preparing individuals for Baccalaureate Degree programs in the arts and sciences, selected professional and pre-professional areas, and Master's Degree Programs in Elementary Education, Biology, School Administration, and Mathematics. ECSU offers a challenging and supportive environment that prepares its students for knowledgeable, responsible participation and leadership in an ever-changing, technologically-advanced global society. The University promotes excellence in teaching as its primary responsibility for meeting the needs of the students and citizens of the state. Through its teaching, research, and community outreach, the University seeks to identify and address the needs of northeastern North Carolina with particular attention to supporting its environmentally sensitive economic development.

Goal

The goal of the Summer School Program is to offer a wide range of undergraduate and graduate courses needed by the greatest number of ECSU students in fulfilling their general education and degree requirements. In addition to regular day-time courses, offerings include a variety of distance learning and evening courses.

The 10-week main and two 5-week summer sessions at ECSU have a three-fold purpose. First, they offer an opportunity for college students to take special courses not normally available during the academic year to broaden their academic approach. Second, they serve previously enrolled ECSU students who desire to hasten their acquisition of college degrees or to gain additional credits toward completion of their class standings. Third, they provide incoming freshmen an opportunity to adapt themselves to the academic demands of college in an environment that is relatively free of the usual pressures of extra-curricular activities. The ten-week wrap-around session gives students the option of a more lengthy session for the mastery of more difficult courses.

A complete listing of course names, numbers, and call numbers, used for Web registration, is included in the Summer School marketing materials and on the ECSU Website. Course descriptions are in the University Catalog.

Summer Course Load

The maximum course load for students is six (6) semester hours during each five (5) week session. The maximum number of hours that can be taken during the summer is twelve (12).

Program Expectations

All new students who are admitted to Summer School must meet the same general entrance requirements as the students admitted to the regular academic year program.

Transfer and unclassified students who plan to attend ECSU for the first time (who are not continuing academic year students) must apply for admission to the University in time to fulfill the requirements for acceptance at least one week prior to the date of registration. Visiting or transient students must present a letter of permission from the institution where they intend to receive their degree, approving their enrollment in Summer School at ECSU.

Summer instruction is both face-to face and online. Online and face-to face course offerings and instructions on how to register can be found on the ECSU Website.

The schedule of classes, instructional formats, program designs, and faculty and staff office hours have been conveniently established with our students' best interests in mind. Academic support services are also offered during the summer through our advisors and counselors along with career development and academic counseling. The Web-based course management system Blackboard is an essential tool used to facilitate the instructional process. A small student-faculty ratio makes possible an intimate classroom environment. The short length of the summer session provides an opportunity for students to take courses at approximately one-half the cost per semester hour as during the academic year. Thus, considerable savings are possible to the student who completes his or her degree requirements in three years by going to two or three summer sessions. ECSU professors and adjunct faculty provide the same quality of instruction as expected during the regular academic year. Regular ECSU professors and impressive adjunct faculty provide the instruction. The course content and academic standards in all courses are the same as in regular semesters. However, there are some basic differences that give the

Summer School a distinct character of its own.

ECSU's campus is full of activities during the summer months with Fall incoming freshmen participating in student orientation, advising, financial aid, and the registration process. A number of workshops, seminars, symposia, and institutes supported by local, state, and federal agencies are held on campus during the summer. These activities facilitate the successful integration of students into the academic and social components of the campus environment. During the summer, the facilities of the University are also utilized by a variety of programs, including NC-MSEN, Upward Bound, VA-NC LSAMP Program, V.I.K.I.N.G.S. Academy Scholars Program, and others, bringing students of all ages with diverse interests to ECSU.

Program Administration
The Summer Program Director is administratively responsible to the Provost and Vice Chancellor for Academic Affairs through the Assistant Vice Chancellor for Academic Affairs. The Director works in close cooperation with the various constituent parts of the University to implement the Summer Program in conjunction with the various support services of the University. The Summer School Advisory Committee provides input to the Director for the purpose of program governance. The Summer School Program is affiliated with the regional and national groups of the North American Association of Summer Sessions (NAASS).

For more information regarding the Summer School Program at Elizabeth City State University, call **(252) 335-3394 or email us at summer@ecsu.edu.**

UNIVERSITY HONORS PROGRAM

Mission
The mission of the Honors Program is to provide an enhanced and supportive learning environment for academically gifted undergraduate students. The mission will be accomplished through the active involvement of faculty recognized for their excellence in teaching small Honors seminars, and through opportunities for research. The Honors Program is a unit with its own budget and a Director who is administratively responsible to the Vice Chancellor/Provost through the Assistant Vice Chancellor for Academic Affairs. The Director works in close cooperation with a University Honors Council and to establish and review policies and procedures for the Honors Program.

The Honors Program is designed to challenge students with high academic potential at an accelerated rate and to provide them with exposure to a wide variety of in-depth academic, social, cultural, and international experiences. The Honors Program is committed to fostering achievement at superior levels so that by graduation students will:

1. demonstrate skills in research, writing, and oral presentation;
2. design, develop, and present documented works which demonstrate critical thinking skills;
2.apply knowledge gained in the classroom and in community service activities;
4.display exceptional proficiency in the command of both written and oral communication; and
5. exhibit awareness of literary, cultural, social, and community service behaviors and be able to assess the values of such as behaviors through reflection and demonstration.

Strategies
In addition to the high quality of instruction that students gain in their regular course work, Honors sections of many core courses have been developed in the General Education area. In an Honors section of a course, the course work is not only more advanced, but more in-depth.

The heart of the Honors Program is the colloquium concept, which is designed to improve students' communication skills, both oral and written. Using this concept, the University is able to meet the needs of its academically talented students.

A program of cultural and social activities is provided for Honors students. These activities may include field trips, plays, concerts, tours, and workshops. Honors students are expected to represent the University at Honors conferences nationally and regionally through debate, quiz bowl, poster and other competitions. Honors activities are intended to increase student interest and improve the retention rate among Honors students.

To ensure that adequate recognition is given to these students, the Honors Program will (1) award a certificate of participation as students successfully complete each year in the Program, (2) institute a structured series of forums under the aegis of the Honors Program, (3) initiate an Honors Newsletter/Arts Magazine, (4) identify Honors students at graduation by a specific visual symbol, and (5) record "Honors Program Graduate" on the diploma and on the transcripts of students who successfully complete the Honors requirements.

The Honors Program sponsors a peer tutoring program in which upper-division Honors students assist lower-division students in the core courses in the General Education area and in the major disciplines.

The Honors Program sponsors a Junior Mentor program that allows juniors to serve as ombudsmen to freshman Honors students.

The Honors Program supports debate exercises to give students opportunities to think critically and to solve problems.

Objectives

The Honors Program's major objectives are:

1. to develop a unified program of rational and creative thinking, writing, verbal, and reading skills through the colloquial concept in an effort to improve students' skills;
2. to promote Honors seminars designed to facilitate dialogue between Honors students and faculty without the pressure of grades;
3. to participate in career workshops for Honors students in a variety of fields;
4. to arrange internships in cooperation with the Cooperative Education Program, International Program, and academic departments;
5. to enhance the overall quality of the University's academic programs and the academic climate of the Institution; and
6. to promote international study and travel experiences.

Admission Requirements

Admission for first semester freshmen into the Honors Program is determined as follows:

a. Students who are National Merit Scholarship finalists will automatically be admitted to the Program;

b. Students with a 3.50 grade-point average (un-weighted) for their four years of high school will be considered for admission to the Program, if they have satisfactory SAT or ACT scores and if they have followed the academic track in high school. Furthermore, students will become eligible for admission to the Program only after satisfying additional criteria. These criteria may include the successful completion of an interview with the Director and/or members of the University Honors Council, teacher recommendations, a writing sample, and university placement tests.

Admission for other students into the Honors Program is determined as follows:

1. Second semester freshmen or first semester sophomores are considered for admission to the Honors Program if they meet the admissions criteria for Honors in addition to having demonstrated outstanding performance in individual university-level courses. With approval from the Director of the Honors Program the students must also:

   (a) have a cumulative grade point average of 3.25;

   (b) present well-written essays of interest, intent, and commitment to participate in the Program.
2. Transfer students are welcome to apply for the Honors Program. They must present an official transcript demonstrating high academic achievement and it will be evaluated by the director of the Honors Program.
3. ECSU students who are classified as juniors may join the Honors Program, provided they enroll in Honors Seminars for the two years prior to graduation and are able to meet minimal requirements for Honors.

Retention Requirements

To remain in the Honors Program, students must maintain overall 3.25 grade point averages during the freshman year. Students are expected to attend regular meetings of colloquia, or as called by the Director. Failure to attend these meetings or adhere to any of the requirements documented by the University Honors Council may result in dismissal from the Program.

Honors Program Probation and Reinstatement

After the freshman year, students will be placed on probation if their overall grade point average drops below 3.25. If students' grades improve to the acceptable level by the end of the next semester, they are reinstated. Student requests will be considered by the Director and/or the Honors Council. Students who are on probation more than twice will not be eligible for reinstatement. Students who make Ds while maintaining the appropriate average must repeat the courses, but they will not be put on probation.

Graduation Requirements

To graduate with the Honors Designation, a student shall have completed 24 credit hours of Honors courses by HON designation or by contract. The student must complete and defend an Honors Thesis. Upon completion of degree requirements, the overall grade point average must be 3.25. Honors Program graduates must make no less than a B in all Honors courses and cannot have a grade below a C in any course.

Honors Colloquia and the Senior Thesis

The heart of the Honors Program is the colloquium concept, which is designed to improve analytical, comprehensive, oral, and written communication skills.

Even though the Honors Colloquia are rather flexible, the basic format will:

- incorporate field trips, forums, and seminars;

- include writing and group discussion as a regular part of class activities;
- demonstrate an integration of classroom knowledge with everyday events;
- include readings from the list of Great Books; and
- include the planning and execution of a major scholarly project which culminates in a forum or seminar for the general university public.

The colloquia will be divided according to classes as follows:

Freshman Class—Freshman Honors Colloquia

HON 194 * 1 Sem. Hr.
HON 195 1 Sem. Hr.

** Students may take two semesters to complete the Senior Colloquium project (e.g., Senior Honors Thesis) with an IP (In Progress) grade for the first semester*

Sophomore Class—Sophomore Honors Colloquia

HON 294 1 Sem. Hr.
HON 295 1 Sem. Hr.

An interdisciplinary approach is used in presenting themes and ideas which are related to and integrated with everyday events, world concerns, service learning, debate, etc.

Junior Class—Junior Honors Colloquia

HON 394 1 Sem. Hr.
HON 395 1 Sem. Hr.

A thematic approach involving the "Great Ideas" (Justice, Love, Death, etc.) as a frame of reference.

Senior Class—Senior Honors Colloquia

HON 494 3 Sem. Hrs.

A demonstration of the student's research by involvement in a project in his or her major discipline (Thesis, literary or artistic production, etc.) and an oral defense.

HON 495 1 Sem. Hr.

Designed for students to complete the senior thesis or literary/artistic production, etc. Prerequisite: HON 494 and consent of Director of Honors Program.

General Studies

Honors Courses 9-15 Sem. Hrs.

Two courses in Honors English and one course in Honors Mathematics, if applicable, preferably in the freshman year.

***Freshman Honors Colloquium**

HON 194 1 Sem. Hr.

Freshman Honors Colloquium

HON 195 1Sem. Hr.

One each semester

Sophomore Honors Colloquium

HON 294 1 Sem. Hr.

Sophomore Honors Colloquium

HON 295 1 Sem. Hr.

One each semester

Junior Honors Colloquium

HON 394 1 Sem. Hr.

Junior Honors Colloquium

HON 395 1 Sem. Hr.

One each semester

****Senior Honors Colloquium**

HON 494 3 Sem. Hrs.

This course includes a Senior Honors Thesis/Research Project which must be approved by an advisor in the major Department with consent of the Honors Program Director and/or the Honors Council.

HON 495 1 Sem. Hr.

This course is designed only for students to complete and defend the Senior Honors Thesis/Research Project begun in HON 494.

Major Discipline 6–12 Sem. Hrs.

Students may take 6–12 semester hours in their major discipline by contract or Honors Option.

- An overall grade point average of 3.25 for Honors courses.
- A grade point average of at least a B earned in Senior Colloquia.
- A cumulative grade point average of 3.25 in all University courses.

HON 201/202 Sophomore Honors Seminar (3; 3) (F/S)

The Honors Seminar is a facilitated course that can be taught by multiple faculty members. The course will have an interdisciplinary theme. The Honors Seminar is designed for all sophomore-level or above Honors Program students.

Faculty members propose the theme of the course and outline the format of the class. In addition, faculty members organize the course, invite guest lecturers, lead primary discussions, give assignments, and evaluate students. The course must include intensive reading, writing, and research.

HON 301/302 Junior Honors Seminar (3; 3) (F/S)

The Honors Seminar is a facilitated course that can be taught by multiple faculty members. The course will have an interdisciplinary theme. The Honors Seminar may be taken by all sophomore-level or above students and transfer students. Prerequisite: Permission of Instructor or of Honors Program Director.

Faculty members propose the theme of the course and outline the format of the class. In addition, faculty members organize the course, invite guest lecturers, lead

primary discussions, give assignments, and evaluate students. The course must include intensive reading, writing, and research. As a requirement of the course, an oral presentation of the research work of this course must be presented at an on-campus research forum.

HON 399/499 Honors Independent Study (3; 3) (F/S)
Study of special topic(s) in consultation with, and completed under the supervision of a member of the Honors faculty, or other faculty upon approval of the Director of the Honors Program and Honors Council. Prerequisite: Junior or senior standing in the Honors Program.

** In lieu of Freshman Seminar*

*** Students may take two semesters to complete the Senior Colloquium project with an IP (In Progress) grade for the first semester.*

Honors Credit by Contract
Honors credit by contract will enable students to receive honors credit in regularly scheduled courses in their majors.

H-option courses will likely include one or more of the following criteria:

- reading in addition to that normally required for the course, attested to either by oral presentation or written work;
- guided research involving either data from primary sources, a laboratory investigation, or field research resulting in a creative presentation or an individual report with annotated bibliography and other features normally incorporated into an advanced-level-report; and/or
- class or peer presentations which are prepared, designed, and delivered to a standard that will qualify for Honors credit.

Regardless of the individual structure of H-option contracts, they are all likely to share one or more of the following characteristics:

a. provision for additional consultation between student and instructor;
b. inclusion of data sources or a laboratory investigation beyond that routinely required in a course;
c. evaluation methods which are specific and rigorous; and
d. choice of subject matter, project, or laboratory problem within the sphere of interest of the student and instructor.

Students pursuing H-option credit are responsible for all regularly scheduled work in a course in addition to any special H-option requirements.

University Honors Program Governance
The Program is headed by the Honors Program Director, who works in conjunction with the University Honors Council. The ECSU Honors Program is a member of The National Collegiate Honors Council, The Southern Regional Honors Council, and The National Association of African American Honors Programs.

OFFICE OF GRADUATE EDUCATION

Graduate Education is committed to the mission of Elizabeth City State University. Quality graduate degree programs are designed to meet the needs of the citizens of northeastern North Carolina, the state, the nation, and the global community. Dedicated faculty and staff prepare students in a challenging, supportive, and highly technical environment to compete and excel in a technologically advanced society for the 21st century global economy.

The graduate degree program offerings include: The Master of Education in Elementary Education; The Master of School Administration; The Master of Science in Biology, which includes two concentrations: Biology Education and Applied Biology; and The Master of Science in Mathematics, which includes four concentrations: Mathematics Education, Applied Mathematics, Community College Teaching and Remote Sensing. For your convenience, you may access our graduate catalog, applications, and enrollment forms for all graduate programs on our website at www.ecsu.edu/academics/graduateeducation/index.cfm

DIVISION OF ACADEMIC AFFAIRS

ORGANIZATION

The academic units of the University consist of 12 Departments under the administrative leadership and supervision of the Provost and Vice Chancellor for Academic Affairs, department chairs, and program directors. The departments offer various curricula leading to the degree of Bachelor of Science in Education, Bachelor of Science, Bachelor of Arts, and Bachelor of Science in Social Work. The academic departments are as follows:

Walter R. Davis Department of Business and Economics

Department of General Studies

Dr. Helen M. Caldwell Department of Education, Psychology and Health

Department of Language, Literature and Communication

Department of Mathematics and Computer Science

Department of Military Science

Dr. Herman G. Cooke Department of Natural Science, Pharmacy and Health Professions

Department of Social and Behavioral Sciences

Department of Technology

Department of Visual and Performing Arts

DEGREES OFFERED

The successful completion of academic units and general institutional requirements qualifies a student to receive one of the baccalaureate degrees offered by Elizabeth City State University. All baccalaureate degree and discipline area programs are defined in terms of major, related area courses, concentrations/specializations, academic concentration, and/or minors. Listed below are the operational definitions for these:

MAJOR — A major consists of a group of prescribed and elective courses providing breadth and depth in an academic discipline, in two or more closely-related disciplines, or in an interdisciplinary field of study. All majors at ECSU are defined in terms of a specific number of semester hours which may range from 30 to 48 semester hours.

RELATED AREAS — The requirement of a major in one discipline may include supporting courses selected from other disciplines (related areas). For each major, such courses must be defined in terms of a specific number of semester hours which may range from 6 to 15 semester hours.

CONCENTRATION/SPECIALIZATION — A concentration is a student's option within a major that consists of a group of prescribed courses designed to provide preparation in a specialty within the major discipline or tangential to it. Concentrations are required in some majors. Each concentration must be defined in terms of a specific number of semester hours, and this number is a part of the total number of hours required for the major. The number of hours for a concentration may range from 12 to 18.

ACADEMIC CONCENTRATION — An academic concentration is a group of prescribed courses in an academic discipline. It differs from a major principally in requiring fewer courses and providing less depth. It is offered to students majoring in Physical Education and Health, Elementary Education, and Special Education. An Academic Concentration has a specific number of semester hours which may range from 24 to 27.

MINOR — A minor consists of a group of prescribed and elective courses in an academic discipline, two or more related disciplines, and interdisciplinary fields of study, or a specially designed individual program. It differs from a major principally in requiring fewer courses and providing less depth. A student may not major and minor in the same field. All minors at ECSU are defined in terms of a specific number of semester hours which may range from 18 to 24 semester hours. The exception is Secondary Education, ranging from 24 to 31 semester hours.

Bachelor of Science Degree

Accounting
Aviation Science
Biology
Business Administration

Chemistry
Criminal Justice
Physical Education
Engineering Technology

Graphic Design
Industrial Technology
Mathematics
Computer and Information Sciences
Psychology
Pharmaceutical Science
Sports Management

Bachelor of Arts Degree

Communication Studies
English
History
Music
Sociology

Bachelor of Social Work

Social Work

Bachelor of Science in Education Degree

Birth–Kindergarten (BK)
Elementary Education (Grades K-6)
Bachelor of Science Degree with Teacher Licensure

Biology
Physical Education
Mathematics

Bachelor of Arts Degree with Teacher Licensure

(Minor in Education K–12)

English
Music
History

Academic Concentration Options

Biology
English
General Science
Spanish
Mathematics
Music
Psychology
Social Sciences

MINORS/CONCENTRATIONS

American History
Applied Mathematics (only for graduate students)
Applied Music
Athletic Coaching
Aviation Science
Banking and Finance (C)
Biology
Biophysics
Biotechnology
Black Studies
Business Administration (except for Sports Management, Sports Marketing, and any other major or concentration requiring more than 6 hours of business courses)
Chemistry
Coaching and Sports
Computer Graphics
Computer and Electronics
Computer Science
Computer Networking
Criminal Justice
Economics & Finance (C)
Education K-12
Electronics
English
Entrepreneurship (C)
Environmental Science
French
Geography
Geology
GIS/Remote Sensing
Global Studies
Graphic Design
Gerontology (C/M)
Industrial Technology
Juvenile Justice
Management (C)
Management Information Systems (C)
Marine Science
Marketing (C)
Mass Communications (C)
Mathematics
Mechanical and Manufacturing Medical Physics
Military Science
Molecular Biology/Biotechnology (C)
Modern Languages
Money and Banking (C)
Museum Studies
Music
Music Performance
Music Business (C)
Music Engineering and Technology (C)
News Media (C)
Physical Education
Physics
Pre-Law
Pre-Medical Technology
Pre-Medicine/Pre-Dentistry (C)
Pre-Occupational Therapy
Pre-Physical Therapy/Pre-Medicine
Professional Secondary Education
Public History (C)
Psychology
Sociology
Sound Recording Technology (C)
Spanish
Studio Art

OFFICE OF THE UNIVERSITY REGISTRAR

STUDENT RECORDS PRIVACY POLICY

The University's policy for the administration of student educational records is in accordance with the provisions of The Family Educational Rights and Privacy Act of 1974 (P.L. 93-380) as amended. Personally identifiable information contained in students' educational records will not be disclosed to persons outside the University without the prior written consent of the student. Under this policy the student also has a right of access to his or her education records maintained by the University or any department within the University. Each member of the faculty should be thoroughly familiar with this policy and comply with its provisions.

RELEASE OF DIRECTORY INFORMATION

For the convenience of students, parents, other members of the university community, and the general public, the University will make available, upon request, directory information about its students. In compliance with the Family Educational Rights and Privacy Act (P.L. 93-380), ECSU will continue to release the following types of information: the student's name, address, telephone listing, campus email address, date of birth, major field of study, dates of attendance, degree earned, and awards received. Students who do not wish to have directory information released without prior consent must make their request to the Office of the Registrar in writing within seven days after the first registration day of the current term of enrollment.

CHANGE OF NAME & ADDRESS

It is the obligation of every student to notify the Office of the University Registrar of any name change by providing a copy of their most recent Driver's License or Social Security Card. Address changes can be made on line via Self Service Banner.

TRANSCRIPTS OF RECORDS

Transcripts are issued to students by the University Registrar's Office. The request form for Official Transcripts is located on the Office of the Registrar's Webpage. Valid picture ID is required for personal pick up of copies of transcripts. Official transcripts will be transmitted electronically (PDF), email, postal services or personal pick up. Transcripts cannot be sent via fax. Official copies may be released to the requestor. A **transcript fee of $8.00 (subject to change) per copy is required for all transcripts.**

If requesting a transcript by mail, the request should reach the University Registrar's Office at least one week before the transcript is needed. When requesting a copy of an official transcript via mail or fax, the request must be in writing and include the student's signature. Please include the following information with your request:

- Student ID number/Name/Address
- Date(s) of enrollment
- Graduation date
- Address of agency to receive transcript

Requests for transcripts should be sent to:

Elizabeth City State University
Office of the University Registrar
Campus Box 953
1704 Weeksville Road
Elizabeth City, North Carolina 27909
Fax Number - (252) 335-3729

PRE-REGISTRATION

Pre-registration is a period during which the student and advisor review and plan courses for the upcoming semester. Pre-registration is required of all enrolled students. **A pre-registration late fee of $100 will be assessed to the student's account for failing to pre-register.**

Students who register early and fail to confirm courses and pay fees by the dates designated for official registration will have their schedule of courses automatically withdrawn by the University Registrar's Office. Those students who find it necessary to register after the designated dates must pay a late registration fee and select another schedule of courses for that semester.

A student is not officially registered until he or she has met all financial obligations to the University.

A student cannot attend classes if he or she is not

properly registered for that course and section. Failure to follow proper registration procedures will result in loss of credit. Students whose names are not on the instructor's class roll for each class must contact the University Registrar's Office.

INDEBTEDNESS

All indebtedness to the University must be satisfactorily settled before a diploma or transcript will be issued.

PROGRESS TOWARD GRADUATION IN FOUR YEARS

To graduate in four years, the student must successfully complete all graduation requirements and an average annual course load of 31 semester hours. This course load requires the student to take approximately 15-16 hours per semester or earn hours through summer enrollment.

REGISTRATION

All students must officially register at the beginning of each semester and/or summer term; registration by proxy is not permitted. Each student is assigned a faculty advisor to assist in planning a program of study. Complete registration instructions are contained on the Registrar's Office Web page. Students are registered for and entitled to attend classes only when they have completed prescribed procedures, including payment of fees. Students not registered by the designated date must pay a $25 late registration fee.

Students planning to return to the University after an absence of less than two years are required to notify the Office of the Registrar to obtain readmission status. Students planning to return to the University after an absence of more than two years or after earning a degree or attending another university are required to notify the Office of Admissions to obtain readmission status.

Official registration days for each semester and each term of Summer School are indicated on the University Calendar.

CANCELLATION OF COURSE REGISTRATION POLICY

The University Registrar (upon the recommendation of the instructor) may cancel a student's registration in any course within a department if the registered student fails to attend the class during the first two weeks of a semester and fails to notify the instructor of his or her desire to remain enrolled in the course.

The Provost and Vice Chancellor for Academic Affairs will notify the relevant department chair of late-arriving students who cannot attend the first class meeting because of illness or other reasons.

CHANGE OF COURSE SCHEDULES

Students are responsible for the schedule of courses for which they have officially registered; therefore, the program of study should be carefully planned with the guidance of the academic advisor so that changes in registration will not become necessary at a later date. A student may drop and/or add courses online or change course sections with the approval of the advisor until the close of the official add/drop period. After this date, the add/drop must be completed through the University Registrar's Office with the use of the Change of Schedule form.

ADDING & DROPPING COURSES

ECSU emphasizes the importance of students making realistic course load decisions, staying focused, and completing courses. But there may be situations when a student must withdraw from a course. Students may withdraw from any course or courses without penalty by accessing Self Service Banner on or before the last day to withdraw from an individual course, as published in the Academic Calendar. This policy specifies limitations on course withdrawals.

MAXIMUM COURSE WITHDRAWAL (SEMESTER HOURS)

Students can drop classes without penalty during the schedule change (drop/add) period at the start of the semester. Schedule change deadlines are published in the academic calendar. After the drop/add deadline, **students can withdraw from no more than 16 semester hours during their undergraduate career in which a grade of "W" will be posted to a student's transcript.** After a student has exceeded this limit, the student must receive a final grade of A, B, C, D, or F. A grade of Incomplete ("I") will not be allowed as a substitute for a course withdrawal beyond the course withdrawal limit. The course withdrawal limit applies to students beginning Fall 2014 and follows them until they graduate. Any course that a student withdraws from is counted toward the 16 semester hour limit.

Transfer Students
Regardless of the number of colleges a student may have attended, the number of classes they may have taken, or the number of years they enroll as undergraduates, the policy limits them to 16 semester hours of course withdrawals. This includes any course a transfer student has dropped at another institution of higher education. The following chart shall be used:

Transfer Hours	Max Hours
0-23	15
24-51	12
52-89	9
90 or more	6
Candidate for second Bachelor	6

AUDITING COURSES

A regular full-time student may audit two courses in a given semester with written agreement from each instructor, the faculty advisor, and approval of the department Chair. Students must register officially for the classes they desire to audit. Preparation and participation in the classroom discussion and laboratory exercises will be at the discretion of the instructor. Students auditing courses are not required to take examinations or tests; however, they may do so if they desire. Auditing students receive no credit; a change may be made from audit to credit or vice versa before the 10th day of classes for that semester. The auditing form is available on the University Registrar's Office Webpage under Forms and Documents.

ACADEMIC ELIGIBILITY STANDARDS

Academic Standing (Effective Fall 2014)

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 all incoming freshmen must maintain a cumulative 2.0 GPA. Individuals with less than a cumulative 2.0 GPA are placed on either probation or suspension.

The cumulative GPA compared to the semester hours attempted and earned is used to determine the academic standing of a student. Evaluations are made to determine the academic standing of students at the end of the Fall and Spring semester. To determine the academic eligibility of transfer students, total credit hours accepted from other institutions are added to the credit hours attempted and credit hours earned at ECSU. Students are expected to maintain awareness of their academic standing by obtaining periodic assistance from their assigned academic advisors and/or the University Registrar's Office. The minimum academic standing requirements are as follows:

Cumulative Earned Hours	Minimum Cumulative GPA
1 -29	2.0
30 – 59	2.0
60 – 89	2.0
90 – 190	2.0
2nd Degree & Certificate	2.0

ACADEMIC SANCTIONS

Students with a cumulative grade point average below required standards must limit their course loads to 12 semester hours and are subject to academic probation for the first occurrence and academic suspension for the second occurrence. Students have the right to appeal academic suspensions if they believe that failure to maintain the minimum cumulative GPA for continued enrollment was due to extenuating circumstances. If the appeal is approved, students may apply for readmission to the University by adhering to the following procedures:

Step I
Submit a letter of appeal to the Chair of the Academic Suspension Appeals and Re-entry Committee along with a completed Academic Probation Contract and an Academic Plan of Study prepared by your Academic Advisor-

Step II
The Academic Suspension Appeals and Re-entry Committee will forward their recommendation to the Provost and Vice Chancellor for Academic Affairs.

Step III
The decision of the Provost and Vice Chancellor for Academic Affairs is final and will be forwarded to the Office of the University Registrar for implementation.

Students returning after suspension (with approval of appeal) will have a limited class load of not more than 13 semester hours during the first semester of readmission and must maintain a 2.3 semester grade point average until they have satisfied the minimum GPA requirement. If this requirement is not met, permanent suspension will occur.

CHANGE OF MAJOR/DECLARATION OF MAJOR

A student who decides to change or declare a major must complete the Declaration or Change of Major Form via Self Service Banner and follow the procedures on the form. The new major field should appear on the next electronic transcript viewed by the student and advisor after the completed form has been submitted to the University Registrar's Office.

TUITION SURCHARGE

All undergraduates seeking a baccalaureate degree at Elizabeth City State University will be subjected to a 50 percent tuition surcharge if they take more than 140 credit hours to complete a four-year degree program or more than 110 percent of the required credit hours to complete an officially designated five-year program.

EXTENUATING CIRCUMSTANCES OR MILITARY SERVICE

The University recognizes that there may be extenuating circumstances beyond a student's control which impact his or her ability to meet the GPA requirements of Satisfactory Academic Progress (SAP) set force in Section F of this policy. Therefore, the University will permit a student to withdraw from a course or courses with written approval from the Provost and Vice Chancellor for Academic Affairs only for extenuating circumstances that occurred during the semester or summer session immediately preceding the student's request. Upon approval, the student shall be administratively withdrawn from the course or courses and receive a grade or grades of "WA" in accordance with this policy.

1. Definition of Extenuating Circumstances: An "extenuating circumstance" is defined by the University as a situation which is beyond the student's control and which could not have been prevented by the student. Such circumstances include the following:

A. A car accident or other incident which causes injury to the student resulting in hospitalization and/or health challenges which prohibit the student from being able to meet academic requirements;

B. A serious, life-threatening, or life-altering illness to the student or an immediate family member for whom the student must assume legal responsibility due to the condition;

C. An official, documented military deployment;

D. A natural disaster which negatively impacts the student's well-being due to total destruction of home or other essential familiar provisions.

The University reserves the right to consider other situations in addition to those enumerated herein in determining whether or not the alleged extenuating circumstance(s) directly impacted the student's ability to maintain the required GPA.

2. Official Supporting Documentation

A student must have official written documentation which explicitly substantiates and corroborates the assertion of the extenuating circumstances. An extenuating circumstance shall be an exceptional, one-time occurrence and not one that is characterized by a repeated pattern of behavior which has compromised the student's academic standing over time.

WITHDRAWAL FROM THE UNIVERSITY FOR UNDERGRADUATE STUDENTS

All students who are officially registered for classes and who wish to withdraw from the University must complete the withdrawal procedure at least two weeks prior to final exam week. Students must visit the Counseling and Testing Center/Special Needs Services to receive exit counseling and to relinquish their student identification cards. Students will be directed to the OSFAS in order to address financial obligations. Students who have a pending judicial charge are not allowed to withdraw from the University before the outcome of charges is completed on campus. In accordance with this policy, the University Registrar will record grades of "WD" based upon the Withdrawal Report. Students who do not officially withdraw from the University will receive a grade of "F." Students who are administratively withdrawn from a course or the University for disciplinary reasons and/or under special circumstances with written approval from the Vice Chancellor for Student Affairs will receive a grade of "WA."

ACADEMIC ADVISING

Each student is assigned a faculty advisor. This advisor meets with the student during Orientation, Pre-Registration, and when the student needs advice to help

him or her select courses and to assist in planning his or her individual program of study. Once the student selects a major, he or she works with an advisor from the appropriate department. However, the student is ultimately responsible for meeting the curricular requirements.

ACADEMIC HONORS

An Honor Roll is prepared at the end of each semester showing the names of those students who by diligence, industry, and scholarship earned a semester grade point average of 3.0 or above. The Honor Roll, which is also made up of students who are on the Chancellor's List and the Vice Chancellor's List, is a special recognition of academic achievement.

THE CHANCELLOR'S LIST: This list is composed of the names of students who carried 12 semester hours or more and earned a semester average of 3.75 or above, with no grade lower than "B."

THE VICE CHANCELLOR'S LIST: This list consists of the names of students who carried 12 semester hours or more and earned a semester average of 3.5 to 3.74 with no grade lower than "C."

THE HONOR ROLL: This list consists of the names of students who carried 12 semester hours or more and earned a semester grade point average of 3.0 to 3.49. In determining other academic honors and awards, a student's cumulative grade point average is used. The GPA is computed by dividing the total number of quality points earned by the total number of GPA hours attempted, exclusive of authorized withdrawals and repeated courses.

CHANGE OF GRADE

Each instructor is expected to give permanent final passing or failing grades. Once a final grade has been reported to the Registrar's Office, it may be changed only upon the authorization of the Provost and Vice Chancellor for Academic Affairs. A grade change is made by submitting a Change of Grade Form to the department chair. Along with filing the Change of Grade Form, the instructor also files a statement of explanation for changing the grade, signs it, and submits it to the department chair, who then reviews it. The Change of Grade Form is then forwarded to either the Provost and Vice Chancellor for Academic Affairs for approval or to the Academic Standards and Credits Committee for further review and evaluation. In some instances, the Academic Standards and Credits Committee may request the instructor to submit an additional explanation or to appear in person to justify the change of grade. This committee will then make a recommendation to the Provost and Vice Chancellor for Academic Affairs for approval or disapproval of the request for the Change of Grade.

Any request for grade changes must be done within one calendar year from the date on which the initial grade was submitted to the Registrar's Office. A change of grade, other than an "I" or "IP" grade will not be approved during the last two semesters of the student's enrollment before graduation. Exceptions to this policy will be made ONLY with the approval of the Academic Standards and Credits Committee. This policy also applies to "Repetition of Course Work."

CLASS ABSENCES

Elizabeth City State University recognizes that regular and punctual class attendance is a key determinant of student success. Although all learning does not take place in the formal classroom setting, classroom instruction is the primary vehicle for the delivery of knowledge to students, the evaluation of achievement, the forum for intellectual exchange, the development of skills, and the molding of attitudes which promote the attainment of goals resident in the teaching-learning process at ECSU. For that reason, each student should recognize the benefits of regular class attendance, and embrace such as a personal charge. It is the student's responsibility to complete all coursework, including tests, and written assignments of all class meetings. Furthermore, it is the student's responsibility to understand and adhere to the instructor's expectations for course participation and satisfactory course completion. University faculty members are responsible for establishing and communicating how students' progress and activity will be monitored.

Excused Absence

a. ***Religious Observances***

- Students are allowed two (2) excused absences each academic year for religious observances required by the faith of a student.
- A student must submit written notice of the request for an excused absence to his or her instructor at least five (5) business days prior to the religious observance.
- A student shall be given the opportunity to make up any tests or other work missed due to an excused absence for a religious observance.

b. ***Participation in Official University Activities***

- Students who participate in official university activities (i.e. athletic teams, the band, university committees, etc.) shall receive excused
  absences to participate in the official university activities.
- Official documentation must be provided to the instructor prior to a student's participation in official university activities.
- A student shall be given the opportunity to make up any tests or other work missed due to excused absences to participate in official university activities.

CLASSIFICATION OF STUDENTS

Students are classified as Freshmen, Sophomores, Juniors, or Seniors. Accumulated semester hours determine these classifications:

Freshman:	From 0 Semester Hours to 29 Semester Hours
Sophomore:	From 30 Semester Hours to 59 Semester Hours
Junior:	From 60 Semester Hours to 89 Semester Hours
Senior:	From 90 and above

COMMENCEMENT EXERCISES

Elizabeth City State University has two Commencements: one ending the Spring Semester and the other ending the Fall Semester. Students completing their requirements during or by the end of the last term of Summer or Fall Semester will participate in the Fall Commencement ceremony. Those finishing at the end of the Spring Semester will participate in the Spring Commencement ceremony. Finally, the student "Bearer of the Mace" will function during the Fall and Spring ceremonies. (To meet the requirements for "Bearer of the Mace," the candidate must complete all degree requirements at Elizabeth City State University and have earned the highest cumulative grade point average in the graduating class for the prospective Commencement Exercise.)

COMMENCEMENT HONOR MARSHALS

Students representing each classification exclusive of seniors, who are enrolled as full-time at the end of the Spring and Fall Semesters and matriculating for a degree at Elizabeth City State University, are selected as Commencement Honor Marshals. These students must have the highest grade point average in their respective classifications. For the purpose of determining the classification for transfer students, the total number of credit hours earned at ECSU is added to the total credit hours earned at other institutions.

COURSE LOAD

Elizabeth City State University students normally take four or five courses per semester. Because the majority of courses carry three semester hours of credit, this works out to 15 or 16 hours per semester. Students may not take more than 18 hours per semester except with the approval of the Provost and Vice Chancellor for Academic Affairs.

In special cases, students with a cumulative grade point average of 3.25 or above may be authorized, with the approval of the Provost and Vice Chancellor for Academic Affairs, to carry up to a maximum of 21 semester hours. Students returning after suspension will have a limited class load of not more than 12 semester hours during the first semester of readmission and must maintain a 2.3 semester grade point average until they have satisfied the minimum scholastic average requirement.

Students with previous cumulative grade point averages below "C" or 2.0 may not register for more than 15 semester hours of credit. A student must be enrolled for 12 hours to qualify for full-time certification to any campus organization.

CREDIT & PLACEMENT REGULATIONS

Transfer Credit, Transient Credit, College Level Examination Program, General and/or Subject Examination Credit, Correspondence Credit, and Extension Credit are coordinated through the Office of Admissions and the Office of the Registrar.

Elizabeth City State University will accept up to 48 semester hours from the aforementioned programs excluding transfer credit from other accredited institutions.

The number of credits which can be accepted in transfer from a two-year institution is limited to 65 semester hours. All transferable work completed in residence at an accredited four-year institution of higher education is not limited to 65 semester hours provided the student has earned a grade of "C" or better in each course.

A minimum of 30 semester hours at the upper level applied toward a bachelor's degree must be earned through regular enrollment in courses at ECSU. These 30 semester hours must include a minimum of 15 semester hours of credit in junior/senior-level courses in the major field.

DOUBLE MAJOR

A student may complete a major in two separate

disciplines by fulfilling course requirements for each major. Students desiring to carry a double major will be advised in both majors by the advisors in the respective departments.

EXTENSION CREDIT

Credit earned through extension classes is considered off-campus credit and may be used to satisfy degree requirements when approved in advance by the chair of the student's major department and by the Provost and Vice Chancellor for Academic Affairs. A student must file a request and obtain the approval of the department chair and the Provost and Vice Chancellor for Academic Affairs, prior to taking the off-campus course, and must earn not less than a "C" grade in the course to be granted credit for it. No more than 24 semester hours of extension credit may be used toward fulfilling degree requirements.

FINAL EXAMINATIONS

Final examinations are required in all courses and are held at the close of each semester. There will be no departure from the printed schedule of examinations. Changes for individual emergencies will be made only with the approval of the instructor and the department chair. A student who is absent from an examination without an excuse will be given the grade of "F" for the examination. An Incomplete will be given in the case of a student being absent from the final examination who presented a satisfactory excuse to the instructor, approved by the department chair.

GRADE REPORTS

Students are requested to view mid-semester grades electronically and have continuous dialogue with faculty members so that they are continuously cognizant of their performance in class.

Grade reports are available electronically at the end of each semester and each summer school session. Semester final grades are recorded electronically by each instructor, not later than 48 hours after each examination in a course is given. Each instructor is expected to be available on a full-time basis in his or her office for consultation with students and to assist the department chair during final examination week.

In the event of an emergency in which an instructor is unable to administer final examinations or to compute and record final grades, the chair of the department concerned is authorized to make arrangements for the final examination(s) and the computation and posting of final grades.

Students and advisors may view grades electronically for all semesters.

GRADING SYSTEM

A Designates work of exceptionally high quality. The "A" grade represents the highest level of academic attainment; it is given only for work of the highest quality.

B Designates work which is above average and of good quality. The "B" grade represents a high level of academic attainment; it is given for work which is above average but lacks the high quality of "A" work.

C Designates work which is satisfactory and of average quality. The "C" grade represents an adequate level of academic attainment; it is given for work which is acceptable but lacks the superior quality of "B" work.

D Designates work of less than satisfactory quality. The "D" grade represents a minimal level of academic attainment; it is given for work which is less than average in quality but is at least of sufficient quality to meet minimum standards in most courses and thus carries credit. However, in GE 100 Grammar and Composition, GE 106 College Reading, GE 109 College Math, GE 102 English Composition and Grammar, GE 103 English Composition and Vocabulary or GE 102H/103H, and courses within the Professional Education sequences, grades of "D" work do not meet the minimum standards and must be repeated.

F Designates work of such unsatisfactory quality that no credit is awarded.

I Indicates that the student may have maintained a passing average, but for reasons beyond his or her control, some specific performance such as an examination, a report, a notebook, or experiment has not been completed. An instructor awards a student an "I" grade ONLY for a justifiable reason. An "I" grade carries no quality points.

IF Indicates an incomplete grade that was changed to a failing grade by the Registrar's Office after the designated time had expired for the change. An "IF" grade carries no quality points.

IP Indicates that the student has not completed the Senior Honors Thesis/Project or certain Flight courses or not passed the PRAXIS to exit EDUC 400. Students may take two semesters to

complete the Senior Colloquium Thesis/Project with an "IP" (In Progress) grade for the first semester. This same rule applies to the Flight courses that require additional participation beyond the end date for regular semesters. Students may take three semesters to complete EDUC 400.

P Passing (No credit courses.)

WA A "WA" grade will be assigned to a student who has been administratively withdrawn from a course or the university for disciplinary reasons and/or under special circumstances wherein administrative approval is required.

W Withdrawal. The grade of "W" is given to indicate withdrawal from a course by the designated deadline.

WD Withdrawal from the university.

Plus or minus signs are not recognized in computing and recording official passing grades at Elizabeth City State University.

GRADUATION HONORS

Graduation Honors Policy
Degrees with distinction are awarded to graduating seniors in the following categories:

Cum Laude for GPA 3.25 through 3.59

Magna Cum Laude for GPA 3.60 through 3.79 (No grade below "C")

Summa Cum Laude for GPA 3.80 through 4.0 (No grade below "C")

To be eligible for degrees with distinction, a student must have earned at least 60 semester hours in residence at Elizabeth City State University. The student must also have the required overall average in all course work attempted and at least a 3.0 average in all transfer courses.

Any decision about Graduation Honors not stated above is to be addressed by the Academic Standards and Credits Committee.

GRADUATION REQUIREMENTS

Elizabeth City State University awards the bachelor's degree to students who have satisfactorily fulfilled the following graduation requirements:

- completion of all General Education courses as prescribed by the University for all students;
- have an overall grade point average of 2.0, and a major grade point average of 2.0 or higher, depending on the academic department;
- completion of all courses and other requirements prescribed by the major department (For specific department or program requirements, see individual sections as described in this catalog.);
- a record of having taken and completed the required examinations or approved equivalents for exiting the program of study;
- demonstration of personal and professional qualities which are expected of an educated person, as verified or affirmed by the appropriate university officials;
- approval and recommendation by the department and general faculty as a worthy candidate for graduation;
- **filing of an Application for Graduation for the Fall by September 15, Spring by November 15, in the Office of the Registrar;**
- meeting all financial obligations to the University through the Office of Business and Finance; and
- meeting the residence requirements of the University.

Presence of candidates for degrees is required at graduating exercises, except when permission for graduating in absentia has been granted by the Provost and Vice Chancellor for Academic Affairs. A written request for permission to graduate in absentia must be made at least 10 days prior to Commencement Day.

It is the sole responsibility of each candidate for graduation to meet with the academic advisor of the major department and have his or her academic record evaluated to determine whether all institutional and departmental requirements for graduation have been met.

All Teacher Education majors must take the required parts of the PRAXIS SERIES and have the scores on file in the Registrar's Office at least 10 days prior to Commencement Day.

INDEPENDENT/INDIVIDUAL STUDY

Independent study must have final approval from the Provost and Vice Chancellor for Academic Affairs before course work begins.

The student who wishes to pursue a course by individualized study must secure permission from the department chair, the Provost and Vice Chancellor for Academic Affairs, and the instructor of the department in which the course is offered.

MILITARY SCHOOL CREDIT

Credit for courses taken in military schools or military experience is based on recommended credit for military courses in the Guide to the Evaluation of Educational Experience in the Armed Services compiled by the American Council on Education. The individual seeking credit for military service and experience must submit official evidence of having completed the training, experience, or education while in service for each course in which he or she is requesting a course substitution in a curriculum at Elizabeth City State University. No more than 24 semester hours may be used toward fulfilling degree requirements. A grade of "C" or higher must have been earned in each course to be accepted at ECSU.

PROCEDURES FOR EVALUATION OF TRANSFER CREDITS

A preliminary evaluation of transfer credits is completed at the time a transfer student is accepted. After all official records are received directly from each institution previously attended; the final evaluation of the record(s) is made to determine how many credits are transferable. Final acceptance of transferred credits toward graduation requirements at Elizabeth City State University will be determined by the academic department in which the student majors. No course will be accepted for transfer credit in which a grade of less than "C" was earned.

All courses accepted for transfer credit which are required by the major must have been earned within six years prior to transfer and/or knowledge must be measured through examination.

QUALITY POINT SYSTEM

A grade (quality) point system based on all hours attempted at Elizabeth City State University is used to calculate students' Academic Achievement. Grade symbols currently in use for all undergraduate courses are: A-Excellent, B-Good (above average), C-Average, D-Poor (passing but not satisfactory in some departments), F-Failing (course must be repeated to earn credit), I-Incomplete, IP-In Progress, IF-Incomplete Failing.

Quality points are computed by multiplying the number of semester hour credits by four for courses in which a grade of A is earned; by three for a grade of B; by two for a grade of C; and by one for a grade of D. Earned quality hours and quality points are computed for grades of IA, IB, IC, and ID. No quality points are given for grades of "I," "F," "IF," "IP," "W," "WA," and "WD," and they are not counted in the hours attempted and not computed in the cumulative GPA except for the grade of "I," "F," and "IF." Elizabeth City State University does not recognize plus or minus.

The grade point average is obtained by dividing the total number of quality points earned by the total number of G.P.A hours.

EXAMPLE:

Course	Grade	GPA Hours	Quality Points
EDUC 202	A	2	8
ENGL 301	B	3	9
ECON 202	C	3	6
TECH 101	D	1	1
MATH 157	F	3	0
CHEM 101	W	0	0
		12	24

(24 divided by 12 = 2.0)

REEXAMINATIONS

Reexamination (final) for the purpose of removing a failure is permitted only in the case of graduating seniors who were passing the course at the time the examination was given. The reexamination must be submitted and grade recorded in the Registrar's Office in time for the student to be placed on the graduation list for that term.

REMOVAL OF 'I' GRADES

A grade of "I" is to be assigned only when a small portion of a course requirement has not been completed, i.e., the final exam, one major exam, completion of a term paper or class project, or part of the requirement of a laboratory. A grade of "I" may not be assigned to improve a grade.

When a grade of "I" is assigned, a detailed description of the work to be completed must be determined by the instructor and provided to the student and the department chair. An "I" grade may not be removed by repeating the course.

An Incomplete earned in any given term (Fall, Spring, Summer) must be removed by the end of eight weeks of classes during the next regular semester (see Academic Calendar). If not removed, the grade of "I" will be automatically changed to a grade of "IF."

REPEATING OF COURSES POLICY

Students who receive a grade of "C" or better in a course may not repeat that course for credit towards completion of the requirements for the degree they are pursuing unless special permission is granted by the

department chair and Provost & Vice Chancellor for Academic Affairs.

Students who receive a grade of "D" or "F" in a course taken at Elizabeth City State University may repeat the course if either of the following applies:

A. The course is specifically required by the student's academic major and/or the Honors Program and a grade of "C" is also required or is a prerequisite for another course in the major.

B. Repeated registration in a course may be allowed if the course description carries the statement, "may be repeated" or "repeated to a maximum of credits."

Should six or more years have elapsed since a student's initial enrollment in any course, and current knowledge of the course content is needed, the department may require the student to repeat the course.

A student may repeat a given course only twice. The student may repeat a maximum of 15 semester hours during his or her matriculation toward a degree.

All grades received will be recorded on the student's permanent record, but only the higher grade will be used in computing the grade point average.

A course repeated may be taken at ECSU or, with prior approval, at another four-year institution.

Appeals or request for waiver of any of the terms associated with this policy may be made to the university's Academic Standards and Credits Committee.

RESIDENCE REQUIREMENTS

A minimum of 30 semester hours of credit at the upper level applied toward a bachelor's degree must be earned through regular enrollment in Elizabeth City State University courses, including a minimum of 15 semester hours of credit in junior/senior-level courses in the major field.

A student who does not graduate with the class with which he or she enters may meet ECSU requirements for graduation as stated in the university catalog in effect for the year entered, if graduation occurs within six years. Otherwise, the student will be expected to meet the requirements as stated in the ECSU catalog in effect at the time of reentry if he or she returns as a full-time degree student. If he or she returns as a part-time student, the student will be expected to meet the requirements as stated in the ECSU catalog in the year in which work is begun on the final 15 hours. Matriculating students who begin their enrollment during the summer session will be governed by the ECSU catalog for the forthcoming Fall semester.

SECOND BACHELOR'S DEGREE

Students already possessing a bachelor's degree from ECSU or from another institution who are accepted to work toward another undergraduate degree at ECSU must meet the University's regular graduation requirements in the discipline area, beyond the General Studies requirements for that major. A minimum of 30 semester hours must be earned in accordance with the residence requirement by regular enrollment at ECSU. A grade point average of 2.0 must be obtained, and the student must meet the requirements in the major as specified by the department chair.

SEMESTER CREDIT HOURS

All course offerings are evaluated in terms of the unit of semester credit hour. A semester credit hour normally represents the completion of a course involving 150 minutes of lecture, recitation, reports, or a combination of directed learning activities each week for a semester. Thus, courses meeting for three class hours per week, or two times per week at one hour and 20 minutes, normally yield three semester hours of credit. Normally, two hours per week of laboratory work in freshman and sophomore courses allow a student to earn one semester hour of credit. Junior- and senior-level courses allow a student to earn one semester hour of credit for three to four hours of laboratory work.

STUDENT CONDUCT

Students enrolled at Elizabeth City State University are expected to maintain high standards of honor, scholastically and morally. Self-discipline should be the primary goal of each student. Registration at the University implies the student's acceptance of the published rules and regulations as stated in the Student Handbook and other university publications.

The integrity and behavior of students will reflect upon themselves, their families, and ECSU. Students are also expected to respect the rights and privileges of others, and to abide by the laws of the city, state, and nation, and by all of the rules and regulations of Elizabeth City State University.

Students should avoid all forms of SCHOLASTIC DISHONESTY, such as the following:

A. PLAGIARISM. Copied work, word for word or in substance, from the writings of others and presented as one's written work for credit. It is

always assumed that the written work offered for credit is the student's own unless proper credit is given the original author.

B. COLLUSION. Working with another person in the preparation of notes, themes, reports, or other written work offered for credit unless collaboration is specially approved in advance by the instructor.

C. CHEATING ON AN EXAMINATION OR QUIZ. Giving or receiving, offering or soliciting information, or using prepared material in an examination or a quiz. When taking an examination or quiz, students are expected to refrain from talking and bringing notes and books, and must remain in the room until the examination is finished unless the instructor approves of the student's leaving after finishing the examination or quiz.

D. IMPERSONATION. Allowing another person to attend classes, take examinations, or do graded assignments for an enrolled student under his or her name is strictly forbidden.

Incidents of academic dishonesty, which are reported to and affirmed by the Academic Standards and Credits Committee, will result in punitive measures ranging from issuing a grade of failure to expulsion from the University. The action taken will be in accordance with the severity of the act as adjudicated by the parties which are responsible for administering this policy, namely the Academic Standards and Credits Committee and the Provost and Vice Chancellor for Academic Affairs.

STATUTE OF LIMITATION ON COURSES

Courses taken in excess of 10 years where a Bachelor's degree was not earned or awarded, may not be used toward graduation and must be repeated unless approval is granted by the Provost and Vice Chancellor for Academic Affairs.

STUDENT APPEAL OF COURSE GRADE

A student, after conferring with the instructor involved and the department chair, may present in writing to the Chair of the Academic Standards and Credits Committee an appeal regarding the course grade given within one year from the date the original grade was received. The Chair of the Academic Standards and Credits Committee refers all appeals of course grades to that Committee and the chair of the department in which the course was offered. No change of grade is made except as a result of the recommendation rendered by the Academic Standards and Credits Committee to the Provost and Vice Chancellor for Academic Affairs who then authorizes the change.

TEXTBOOKS

Textbooks or their equivalents are required in all courses. An instructor may reserve the right to require every student enrolled in his or her course to possess textbooks, equipment, supplies, and uniforms necessary for the work of the course.

TRANSIENT CREDIT

Course work undertaken by Elizabeth City State University students at other accredited institutions may be transferred to the University subject to the following regulations:

- ECSU is not obligated to accept any credit from another institution unless the student has obtained initial approval from the department chair. A Permit for Transient Study form should be completed and submitted to the Provost and Vice Chancellor for Academic Affairs for approval.
- No student with a cumulative grade point average below 2.0 on a 4.0 scale will be allowed to take courses at another institution; such credits are unacceptable at ECSU.
- No grade below "C" will be accepted; quality points will be honored on the 4.0 point grading system.
- The student must request that an official transcript to be mailed to the Registrar's Office upon completion of the course.

Students who have attained senior status may not attend a junior college, community college, or a technical college or institute and receive credit toward graduation at ECSU. Exceptions to this rule must be authorized by the Provost and Vice Chancellor for Academic Affairs.

WAIVERS AND SUBSTITUTIONS

Waivers and substitution of courses, program requirements, and academic regulations are permissible with the proper approval. Only under unavoidable and exceptional circumstances will the advisor permit

STUDENT AFFAIRS

DIVISION OF STUDENT AFFAIRS

The Division of Student Affairs is committed to creating an environment conducive to enhancing the growth, development and academic success of students. This is accomplished through holistic learning approaches that foster character building, integrity, and respect for diversity by promoting excellence, commitment, service, and unity in a global society. The Division includes the Offices of Career Services, Counseling and Testing/Special Needs Services, Student Health Services, Student Activities and Student Engagement, Judicial Affairs, and Residence Life.

Student Affairs assists with student's adjustment to both the academic and the non-academic environments of the campus.

Student Affairs programs are designed to promote student initiative, responsibility, and opportunities for leadership. Special services for those students who have academic and non-academic difficulties are also provided.

COUNSELING & TESTING CENTER

Counseling Services

The Counseling and Testing Center (CTC) provides individual, career, couples, and group counseling as well as psycho-educational groups for personal and social development. A series of self-development workshops is offered during the Fall and Spring semesters. Topics include, but are not limited to the following:

Romantic and Social Relationships
Depression and Anxiety
Anger Management
Stress and Time Management
Grief Counseling

Referrals are made to community agencies when needed. Counseling Services are free and confidential. Contact information: Counseling and Testing Center, Griffin Building, Suite 500, Elizabeth City, NC 27909. Telephone: 252-335-3273/3834/3274/3642, Fax: 252-335-3728.

New Student Orientation

The Counseling Center coordinates the New Student Orientation program (NSO) for new freshmen and transfer students. NSO introduces new students to university programs and services, and it provides an opportunity for new students to interact with staff, faculty, and administrators while receiving academic advisement and guidance with registering for classes. NSO is offered during the months of June, July, August, and January and is required for all new students prior to enrollment.

Peer Mentors

VANS (Vikings Assisting New Students) is a group of student orientation leaders who work with new freshmen and transfer students during the New Student Orientation program. Members serve as peer educators, tour guides, and discussion leaders. Students interested in VANS must have a 2.5 GPA and complete an application process by the November deadline.

Testing Services

The Counseling Center coordinates and administers national, local, and specialty tests to students, staff, and non-affiliated off-campus individuals and groups. The University is a national test site for Educational Testing Services in Princeton, New Jersey. The following tests are offered: CLEP, MAT, LSAT, SAT, ACT, University Placement test(s) and Proctored Exams as requested.

DISABILITY SERVICES

In accordance with Section 504 of the Rehabilitation Act of 1973 and the American with Disabilities Act of 1940 (ADA), Elizabeth City State University has a program designed to protect the rights of post-secondary students with disabilities. Special Needs Services will provide the following to students who have on file a documented disability/disabilities: disability-related counseling, consultation for accommodations during enrollment at ECSU, reasonable accommodations, and accommodation(s) notifications to instructors. Consultation services regarding accommodations are provided to prospective students and, upon request, to all ECSU students. For more information, contact: Disability/Special Needs

Services, Griffin Building, Suite 500, Elizabeth City, NC 27909, Telephone: 252-335- 3273/3642/3834/3274 and Fax: 252-335-3278.

CAREER DEVELOPMENT CENTER

The Career Development Center, located in Griffin Hall, aids students at various stages of their career with decision-making, exploration, and the job search process. A variety of programs and services assist students in defining their career objectives and finding out about the current job market while learning how to conduct a job search for employment.

In addition to the career decision and exploration services, the Career Development Center provides extensive assistance with workshops on interviewing, résumé writing, and business etiquette.

The Career Development Center disseminates information concerning available internships and jobs, and it handles all arrangements when employers visit the campus to interview students. On-campus recruiting is scheduled through this office during the Fall and Spring semesters. Students can also make valuable employment contacts at the Annual Career Fair, the Graduate & Professional School Day, and the Annual Teacher Job Fair. Alumni may also receive career assistance on employment vacancy listings through Career Services.

Career Resources

A wealth of career information is available in the Career Development Center. Printed information on employment trends, future outlooks, company literature, and school system applications are available for all students and alumni to review. Students also have access to hard copy career-related publications.

Internship Programs

A program in which students gain valuable work experience in a wide variety of fields, internships can be paid or non-paid. Internships can offer innovative ways to achieve career success for students working with the latest technology in their field of study.

Services Provided Include:

- Career Counseling
- On Campus Recruiting
- Career Fairs
- Graduate and Professional School Information
- Workshops (Resume Writing, Interviewing Techniques, etc.)
- Dress For Success
- Job Search Preparation
- Networking Opportunities
- Career & Graduate School Fair
- Education Fair

STUDENT LIFE

Residence Life

Elizabeth City State University offers residential living to students who are admitted and enrolled at the University. The residential living areas are comprised of four suite-style residence halls

ECSU reserves the right to approve campus housing assignments; to transfer students from one residence hall to another; or to require that any student that it considers an undesirable tenant vacate a residence hall or any property under the jurisdiction of Residence Life.

Each student is required to maintain an up-to-date local address in the Office of Student Affairs and in the University Registrar's Office. All housing policies and regulations established with regard to standards of health, safety, and the general welfare of students in residence halls are executed through the Office of the Director of Residence Life.

Each residence hall is staffed by a team of Residence Hall Administrators, Resident Assistants, Desk Assistants, and Residence Security Officers. Via residence organizations, students are urged to participate, together with administrators and staff, in planning residence hall programs (related activities). Student representatives are also encouraged to assist in developing standards of conduct, determining social regulations, and creating a wholesome atmosphere for study and group living.

A student accepting an assignment in any university residence hall at the beginning of a semester is responsible for the payment of room and board for the entire semester. A student admitted to a residence hall after a semester begins is responsible for paying board fees on a prorated basis.

Admittance to the residence halls is allowed only to students officially admitted to the University by the Office of Admissions and cleared by the Office of the Registrar. Any student officially admitted who has paid the required fees may report for occupancy on arrival dates as designated on the academic calendar. Residence halls are officially closed during the Thanksgiving and Christmas holidays, Spring Break, or other times as needed to comply with emergency situations.

Students may request an early check-in or late checkout if the university's official opening and closing schedule creates an unusual hardship. Requests for permission for early check-in or late checkout must be made in writing to the Director of Housing and Residence Life at least two weeks in advance. If permission is granted, students requiring short-term housing will be charged a non-refundable fee of $25 per day. Students are strongly urged to make travel arrangements in advance.

In accordance with the Residence Hall Housing Agreement, occupancy is limited to accepted and full time enrolled students only. The University welcomes and respects students who may also be parents; however, from a safety standpoint, the residence halls are not appropriate places for young children. For this reason, infants and young children are only permitted in the lobby areas of the residence halls. School-age children may visit residence hall rooms but must be accompanied by an adult guardian or the resident student. All overnight guests must be at least 18 years old and must follow the University guidelines permitting only members of the same sex to have overnight visits in the residence halls.

Students are responsible for providing their own bed linens, rugs, curtains, lamps, and other items according to their personal taste. Each student is expected to observe residence hall regulations and to take care of the furnishings in the room.

No major electrical equipment is allowed in student rooms, i.e. cooking appliances or air conditioning units. Small electrical equipment such as lamps, radios, stereos, hair dryers, and electric razors are permitted. Attachments should not be placed on room walls, ceilings, or windows without official approval.

Under no circumstances are students permitted to keep pets, firearms, or weapons of any kind in residence hall rooms or on university property. ECSU reserves the right to inspect all rooms in residence halls on a regular basis.

The University does not assume responsibility for fire, theft, mutilation, or destruction of any student or faculty/staff member's personal property, whether these losses occur by an act of nature or otherwise. All members of the university community, including students and staff, are urged to secure appropriate individual personal property insurance.

Any campus residence student who forfeits or violates his or her right to reside in a residence hall, who is suspended for academic or disciplinary reasons, or who withdraws from the University, must vacate the residence halls immediately.

Office of Emergency Management/ Environmental Health & Safety

The mission of the Office of Emergency Management is to provide an integrated, comprehensive emergency management program for Elizabeth City State University. The office is responsible for the preparedness training and coordination of emergency response and recovery efforts for natural, man-made, or technological hazards that could adversely affect campus operations.

The primary mission of the Elizabeth City State University Environmental Health and Safety Office (EHS) is to place administrative emphasis on workplace safety and health requirements for all persons comprising the University community. As a part of this mission, the ECSU EHS staff provides assistance to departments and individuals in order to establish and maintain a safe and healthy campus environment. Safety and health will be promoted as a matter of forethought rather than afterthought.

Residence Life Property Damage Policy

All students who live in university residence halls are bound by the terms and conditions set forth under this Damage Policy. By accepting occupancy in a residence hall at Elizabeth City State University, students are agreeing to this policy. Acceptance is defined as receiving a residence hall room key and signing on the appropriate residence hall contracts and forms. This policy applies to all students who are occupying campus housing during the period when damages occur.

The University will assess damage charges for unauthorized use of and damages or alterations to residence halls, including rooms, floors, suites, and common areas. Charges will be rendered for any damages that are not the result of normal wear. When the party or parties allegedly responsible for damages are identified and the evidence is substantiated, charges will be assessed against the responsible party or parties. If the responsible party or parties are not identified, all residents of either the hall, a floor, a room, or a suite will be held accountable for equal portions of the total damage in the area, as well as damage that occurs in common area(s).

Co-Educational Visitation Policy

Student occupants of residence halls may choose to entertain guests of the opposite gender in their individual rooms. The University allows students to make this choice by the establishment of rules, regulations, and procedures. This privilege of Co-

Educational Visitation will always be exercised in a manner that will not interfere with the rights of other students to personal privacy, to the opportunity for study or reflection, and to personal security. The rules, regulations, and procedures for Co-Educational Visitation shall address, but will not be limited to, the following issues: days and hours when such visits are permitted; registration of guests; the availability and necessity of personnel to monitor visitation rules, regulations, and procedures; and negotiations between roommates to establish restrictions on such visits.

Students who do not want to participate must notify the Office of Residence Life and their Residence Hall Administrator in writing.

Code of Conduct

Certain fundamental concepts are recognized as forming the basis for standards of conduct developed as a result of the University's educational and other obligations.

The filing of an application for admission shall be construed as both evidence and pledge that the applicant accepts the standards and regulations of Elizabeth City State University and agrees to abide by them. Each student, by the act of registering, obligates himself or herself to obey all rules and regulations of the University as stated in the Student Handbook, the University Catalog, and other university publications.

Illegal Drug Policy

Elizabeth City State University has the responsibility to nurture and protect its environment. The Board of Trustees has committed itself to the proposition that students, faculty, and staff should be able to engage in the scholarly pursuits of teaching, learning, discourse, and research free from illegal drug use.

Education Programs and Activities

Elizabeth City State University's drug education programs and activities involve the following:

Conducting anonymous surveys of students, faculty, and staff to identify the extent of the drug problem;

Establishing mandatory seminars on substance abuse for faculty, staff, and students;

Conducting Drug Awareness Week activities with print and electronic media advertising;

Developing creative outreach programs for the University that utilize community resources;

Initiating contacts for academic departments to address substance abuse in appropriate health and physical education courses;

Generating a greater public awareness of substance abuse through special events such as sporting events, campus extravaganzas, panel discussions, magazine publications, etc.;

Publishing and distributing fact sheets and other printed literature on substance abuse; and

Conducting faculty and staff wellness activities.

Counseling and Referrals

It will be the responsibility of every student, staff member, and faculty member to help maintain a drug-free campus. The ECSU Counseling Center makes referrals to the appropriate local or state agencies. All individuals are afforded the right of confidentiality in all contacts consistent with local, state, and federal laws, and the general welfare of ECSU, its students, faculty, and staff.

Enforcement and Penalties

Elizabeth City State University will take all necessary actions, in accordance with local, state, and federal law, and applicable university rules and regulations, to eliminate illegal drugs from the campus community.

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.

Penalties will be imposed by the University in accordance with procedural safeguards applicable to disciplinary actions against students, faculty members, and other employees, as required by the ECSU Student Handbook, by Section 4 of the ECSU Tenure Policy and Regulations, by Section 5 of the North Carolina Personnel Manual, and by university policies applicable to other employees exempt from the State Personnel Act.

Sexual Harassment

Elizabeth City State University neither condones nor approves of sexual harassment on the part of students, faculty, or staff within the university community. Sexual harassment constitutes unlawful discrimination on the basis of sex and violates state and federal law as well as university policy.

Unwelcome sexual advances, requests for sexual favors, and/or verbal or physical conduct of a sexual nature by anyone in an official university position, a student, or university employee constitutes sexual harassment when:

a. submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or academic standing, or

b. submission to or rejection of such conduct by an individual is used as the basis of employment or academic decision affecting that individual, or

c. such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance, or creating an intimidating, hostile, or offensive environment.

A student, faculty member, or staff person who believes he or she has been the victim of sexual harassment must initially attempt to resolve the matter with the administrative official most directly in line to supervise the person accused of sexual harassment. However, a staff employee may proceed directly to the State Personnel Commission. Students may proceed directly to the Vice Chancellor for Student Affairs or his or her designee. Complaints of student against staff or staff against student will be addressed by the SPA Grievance Committee; complaints of student against faculty or faculty against student will be handled by the Faculty Hearings Committee.

Food Services

Our Dining Services are provided in two (2) campus locations: Bedell Hall Cafeteria for food court dining as well as traditional cafeteria dining, and the Viking Den, located in the Walter N. & Henrietta B. Ridley Student Complex.

All students residing in residence halls must purchase a meal plan. Off-campus students are encouraged to purchase a meal plan. The University reserves the right to deny food service to any student who is delinquent in paying their student account or who violates the established regulations with regard to personal conduct in the cafeteria.

Student Health Services

Realizing health cannot be separated from the ability to learn, Student Health Services supports the academic mission of the University through the provision of accessible, quality health care services and educational programs to promote the health and well-being of the student population. The services include diagnosis and treatment of general and acute medical problems, allergy injections, immunizations, HIV testing and counseling, laboratory services, and limited pharmaceuticals. Student Health Services also provides wellness programs and maintains a fitness room for use by all students. Students may incur charges for certain services rendered at Student Health Services.

All new and transfer students taking more than four credit hours on campus and admitted to the University are required to submit a completed Medical History Form. In addition, all new and transfer students must provide an immunization record to the University as required by the North Carolina Immunization Law (General Statutes 130A-152). Readmitted students who re-enroll after an absence of six months or more must also provide Student Health Services with updated immunization records.

Immunizations along with the Medical History form must be returned to Student Health Services **NO LATER THAN:**

JULY 15	FALL ENROLLMENT
DECEMBER 4	SPRING ENROLLMENT
MAY 1	SUMMER ENROLLMENT

Student Health Services is open Monday through Friday from 8:00 a.m. to 5:00 p.m. Physician hours are 9:00 a.m. to 5:00 p.m., Monday through Thursday. Physician hours for the summer will be announced. Should a student suffer an injury or become seriously ill on campus when Student Health Services is closed, he or she should notify the Residence Hall Director or Campus Police. Students are also encouraged to utilize the Nurse Hotline service provided by the student health insurance plan. Please call 911 to activate the local emergency management system for emergencies.

Student Health Insurance

All students enrolled in 6 (main campus) credit hours or more are required to have health insurance. Students have an opportunity to waive the health insurance fee during the Fall and Spring semesters by completing the waiver process online at www.bcbsnc.com/ecsu.edu. All students enrolled in 6 (main campus) credit hours or more who do not waive the health insurance fee will be automatically covered under a health insurance policy purchased by the University. The primary purpose of this coverage is to offset the costs of health care. Brochures outlining the coverage and limitations may be viewed online at www.bcbsnc.com/ecsu/edu. There will be a two-week appeal period immediately following the waiver period for any student who did not successfully complete the hard waiver student health insurance verification process prior to the campus deadline for submitting a waiver request. This applies to students who never filed a waiver request as well as students who filed a waiver request and had it declined. The campus-based appeal process is the same for all students across all UNC campuses. An optional dental insurance plan is available at an affordable price to part-time students. Additional information is available online at www.bcbsnc.com/ecsu.edu.

Fees and charges for medical services, diagnostic procedures, and laboratory services not covered by the student health insurance are the responsibility of the

student. Student Health Services does not file insurance claims for students.

Peer Health Educators

Peer Health Educators is a group of students trained to deliver prevention messages and encourage healthy lifestyles to their peers. Members assist Student Health Services with conducting educational programming and performing outreach activities. Interested students must have a 2.0 GPA or higher and submit an application.

Student Activities

Student Activities are designed to encourage and facilitate student participation in various organizations and events, such as service groups, clubs, recreational activities, and cultural activities. Major attention is geared toward providing activities which will supplement academic instruction and provide opportunities for students to develop personally, socially, and intellectually.

The Student Activities staff serves as facilitator in developing opportunities for participation by students in a broad spectrum of activities and events that encourage personal growth. The Master Calendar of Events is developed for the school year and kept in the Student Activities office for student information.

The Women's Center

The Women's Center is funded by a federal grant from the Office on Violence Against Women and supported by a collaborative team of on- and off-campus partners. The Center is committed to decreasing violence on campus through outreach and advocacy and is open to individuals of all genders in the ECSU community. The Women's Center works to promote awareness of cultural factors that support violence and to combat these factors in efforts to change cultural norms on campus related to sexual assault, relationship violence, domestic violence, and stalking.

Some goals of the Women's Center include:

- Development of survivor-focused programming to aid victims of sexual assault and sexual violence
- Continued education of campus community members on the importance of consent
- Implementation of prevention and education materials for all incoming and current students
- Provision of bystander intervention training to campus and student leaders
- Fostering of dialog among campus departments and between students, faculty, and staff
- Raising awareness of violence against women through a Speaker Series and other campus-wide and community-focused events
- Communication of the unacceptable consequences of sexual violence on the individual and the community to students, staff, and faculty
- Development of university policy and protocol related to sexual misconduct and sexual assault

Note on confidentiality: The Women's Center is subject to Clery Act and Title IX regulations.

Walter N. & Henrietta B. Ridley Student Complex

The Complex consists of Ridley Hall Unit #1, The Bowling Center, and the Walter N. & Henrietta B. Ridley Student Center. The center is approximately 50,000 square feet. This facility was opened to the students in May, 2005, and it serves as the nucleus for many university activities. The center houses the following offices and services:

- Student Life
- Student Activities
- Campus Recreation
- Clubs & Organizations
- Student Government Association (SGA)
- Greek Affairs
- Commuter Student Services
- Student Activities Committee (SAC)
- Student Leadership Development Academy
- Theater
- Multi-purpose room
- ECSU Bookstore
- Study Room
- Computer Stations
- Bowling Center
- Bedell Hall
- Student Center Unit II
- Campus Post Office
- The Blue Room – Faculty Dining Room
- Meeting Rooms
- Emergency Management/Environmental Health & Safety

Bowling Center

The Bowling Center offers the following activities and services for students' enjoyment: bowling, billiards, ping pong, table soccer, air hockey, basketball, tennis, bicycles, video games, paint ball, board games, monopoly, cards, checkers, computers, play stations, and darts.

The Bowling Center can also be rented for: birthday parties, family reunions, Greek parties, showers, and church events.

Campus Recreation

Campus Recreation provides an opportunity for

students to participate in a variety of recreational activities. The program includes intramural sports, aquatics programs, and open free-play. The Campus Recreation program is open to all individuals who are officially enrolled in the University or employed by the University.

The intramural program includes non-competitive as well as competitive activities such as bowling, basketball, volleyball, softball, weight-lifting, flag football, racquet ball, golf, co-ed softball, powder puff football, and other sports. The aquatic program includes open free swim, and the fitness program includes aerobics classes.

Student Clubs and Organizations

A variety of social, academic, and service organizations exist on campus to aid in the holistic development of ECSU students. Membership is open to all graduate students who maintain a minimum cumulative GPA of 3.0 and who are officially enrolled in the University. Participation in clubs and organizations provides a wonderful opportunity for leadership training and social education. With more than 40 registered organizations, there should be one to meet your interests and needs. Students not finding an organization to meet their interests are welcome to form new organizations; however, all organizations must be officially approved by the University. This process is fairly simple and can be initiated with the assistance of the Assistant Vice Chancellor of Student Life.

Graduate Student Council (GSC)

The Graduate Student Council (GSC) is dedicated to:

Serve as the official representative body for students enrolled in graduate programs at Elizabeth City State University.

Provide a forum for discussion of issues, both internal and external, of concern to graduate students.

Represent graduate student interests before the ECSU faculty and administration.

Organize, promote, and conduct activities beneficial to graduate student life.

Disseminate information of interest to students pursuing graduate education at ECSU.

Provide support and assistance to graduate student organizations.

Own and manage property and accounts which will assist in securing the above objectives.

Select graduate students for appointment to university committees.

Provide a common association among graduate students in all departments of the University represented with graduate programs.

Honor and Recognition Societies

Elizabeth City State University has eight honor and recognition societies. To qualify for membership, a student must have a high academic average as well as good character. The eight societies are: Alpha Chi (N.C. Iota Chapter), Alpha Kappa Mu (Alpha Kappa Chapter), Alpha Phi Gamma (Delta Rho Chapter), Beta Beta Beta (Eta Chi Chapter), Kappa Delta Pi (Kappa Delta Chapter), the Sigma Tau Delta (English), Lambda Pi Eta (Communications Studies) and Psi Chi (Psychology).

Fraternities, Sororities, and Social Fellowships

Elizabeth City State University has four Greek-letter fraternities, four Greek-letter sororities, one service sorority, one service fraternity, and eight social fellowships. Each has its own membership policies and goals. A member of the organization should be contacted for specific details pertaining to his or her organization.

Student Leadership Development Academy

The Student Leadership Development Academy (SLDA) is designed for students who are interested in holding a leadership position on campus. Through a year-long series of seminars and workshops, participants will assess their leadership style, practice leadership skills, meet and interact with campus and community leaders, plan strategies for campus and community involvement, and set goals for their personal leadership development.

Music Organizations

Elizabeth City State University has several music organizations: the University Marching and Concert Bands, the Collegians (Jazz Band), and the University Choir. Any officially enrolled student is eligible for membership. Contact the Music Department for details.

Publications

Students are involved in writing and editing many university publications. The Compass, the student newspaper, is published on a regular basis. The Viking, the student-produced yearbook, serves as the college annual. The ECSU Student Handbook is the primary source of information regarding campus life and other university regulations. Student Rights and Responsibilities, Policies and Procedures is a document that addresses the fundamental rights and responsibilities of students, which is included in the student handbook.

Intercollegiate Athletics

The Intercollegiate Athletic Program is an integral part of Elizabeth City State University. Committed to academic excellence, the program takes pride in having one of the highest graduation rates of athletes attending the NCAA Division II colleges and universities in North Carolina.

Varsity sports provide an opportunity for athletically gifted students to compete on an intercollegiate basis. Mastery of skills, good health, a love of sports, and a spirit of friendship and camaraderie form the basis for our competitive sports program.

The University features a main gymnasium (R.L. Vaughan Center) with seating for 4,500 spectators plus many other features. Men's varsity teams include football, cross-country, basketball, golf, and cheer-leading. Volleyball, bowling, cross country, basketball, softball, tennis, golf, and cheer-leading have teams for women at the varsity level. Teams are nicknamed the "Vikings" and the "Lady Vikings."

The University has athletic affiliations with the Central Intercollegiate Athletic Association (CIAA) and the National Collegiate Athletic Association (NCAA).

INFORMATION TECHNOLOGY

The Division of Information Technology (IT) provides integrated technology services and support for the Elizabeth City State University campus in three distinct functional areas: Administrative Computing, Client Services, and Network Services. IT is committed to providing a reliable, cost effective, and quality service to the University community in support of ECSU's mission.

Administrative Computing provides application server administration support, data reporting and analysis, and database administration. Client Services is responsible for providing hardware/software support for university-owned applications and hardware, computer lab support, and IT rooms/equipment reservation requests. Network Services is responsible for the operation and maintenance of the existing voice, data, and video communications, wired and wireless network support, email/domain account support, server administration and maintenance, and managing the University's data center resources. Other IT services and support include security and audit compliance, technology training support, and website services.

Visit the IT website for more information about the available services and support.

END-USER SUPPORT SERVICES

Information Technology provides access to technology resources for students to support their general academic efforts. Current students are provided a Banner ID and an email/domain account to access Self Service Banner (SSB), email, network domain, and other university online resources. Accounts are automatically created each semester for all students who officially register. Freshmen and transfer student accounts are distributed at New Student Orientation. Students have wireless connectivity available across campus. There is limited technology support provided for student-owned hardware and software (i.e. anti-virus software, wireless connectivity, etc.).

The Information Technology Center (ITC), a two story, L-shaped building, houses office spaces for the Division of Information Technology, Administrative Computing, Client Services, Network Services, Distance Education, Teaching Excellence, and Video Conferencing. The facility has six computer labs, three for student use and three for instruction, a lecture hall, a computer operations room, student lounge, a video conference room, and a teleclassroom. In addition to the labs in ITC, there are currently other computer labs located in departments across the campus. Most of these facilities provide discipline-specific resources that allow students to utilize applications relative to their major.

Visit the IT website for more information about the available services and support.

DEPARTMENTS

Department of General Studies

Department of Military Science

Walter R. Davis Department of Business and Economics

Dr. Helen Marshall Caldwell Department of Education, Psychology and Health

Department of Language, Literature & Communication

Department of Mathematics and Computer Science

Dr. Herman G. Cooke Department of Natural Sciences, Pharmacy and Health Professions

Department of Social and Behavioral Sciences

Department of Technology

Department of Visual and Performing Arts

DEPARTMENT OF GENERAL STUDIES

The First-Year Experience Program

The First-Year Experience begins at New Student Orientation, when new students arrive on campus for a series of activities, including placement testing, course scheduling, and academic advising. Students also have an opportunity to experience residence life and to participate in student life activities.

The First-Year Experience expands further with Freshman Seminars I and II, required courses that exposes students to the rich history and culture of the University and teach time management skills, test-taking strategies, academic rules and regulations, and a variety of other skills and activities designed to enhance the transition from high school to college.

Academic Advisement Program

The Academic Advising Program is a major component of General Studies. The objective of the program is to enable students to achieve excellence in their educational and personal goals. Students who indicate a major interest are advised by a faculty advisor in the academic department in which the major is offered. Additionally, advisors in General Studies primarily advise freshmen students. The advisors are responsible for assisting students in completing their general education requirements.

Specific responsibilities of the Academic Advising Program include the following: (1) providing individual guidance to students in the preparation of their course schedules and emphasizing the appropriate course selection in the sequence required by General Studies, (2) providing guidance in the selection of courses where there are available options, (3) maintaining accurate advising files and records of each freshman student in E4U, (4) following up on students in the testing program, and (5) assisting in the implementation of the Department's program designed for the retention of students. All new advisors are required to attend an academic advising workshop prior to their first semester of advising students.

General Education Program

The General Education Program is comprised of a group of coordinated and interrelated courses which contain a body of knowledge designated as liberal arts. The University maintains that all students, regardless of academic major, must include in their individual curriculum specific general education courses which are designed to provide fundamental knowledge and skills and a broad cultural education.

The General Education Program is coordinated by the Department of General Studies. The Department of General Studies assigns students to academic advisors, and it coordinates the scheduling of courses for freshman and sophomore students who have not declared a major.

Goals

The goals of the Department of General Studies are to assist all students in their transition to the University; to provide effective advisement to students; to offer strong programs of academic support in reading, writing, mathematics, and the natural sciences; and to work with other academic departments to ensure that students develop the fundamental skills and knowledge necessary for success in all academic majors.

The General Education Core Curriculum provides the academic foundation for all the undergraduate degree programs at Elizabeth City State University. The core curriculum enables students to develop the skills and general knowledge that are essential to success in their respective major programs and careers after graduation. In addition to providing the skills and knowledge that are essential to academic success, the General Education Core Curriculum is designed to promote positive human values and encourage an appreciation for learning in all students.

Since most major degree programs specify courses to be taken as part of the General Education Core Curriculum, students must review the curriculum of their intended majors and consult with assigned advisors in selected core classes. All students are expected to complete the General Education requirements during the freshman and sophomore years. After completing the required GE courses, students take electives and courses in their major fields.

The Academic Support Center

The Academic Support Center is the component of

General Studies which provides support services to the academic programs at ECSU. The Center designs and implements student-oriented activities geared to the individual academic needs of students enrolled in the freshman and sophomore classes. The Center houses two laboratories that enhance the basic discipline skills of reading, writing, and mathematics, which are fundamental skills for academic achievement. Students who would benefit from the Academic Support Center are identified and assigned to one or more of three developmental courses as a result of their pre-college performance records and freshman placement examination results. In addition, the Center operates a computer laboratory which has computer-based tutorials and offers course-related materials designed for learners who want more in-depth study in discipline areas. A professional team consisting of specialists in reading, writing, and mathematics provides direct services to students in laboratory settings. The Academic Support Center services are also available to upper-division students by referral.

The Tutorial Services Program

The Tutorial Services Program is a peer-tutorial program primarily designed as an academic support service. The program employs successful students as peer tutors based on their academic expertise and their understanding of the General Studies experience. The Tutorial Services Program works with individual students and with groups of students. The program works in conjunction with major departments.

The primary goal of the Tutorial Services Program is to meet students' academic needs. It provides academic support and a strong community base for ECSU students. The program is committed to promoting independent, active learning among the students it assists. Peer tutoring should have a direct and positive effect on improving the academic performance of students who are enrolled in GE courses, as well as promoting a strong community among students, peer tutors, and faculty.

The General Studies Advisory Board

The General Studies Advisory Board (GSAB) functions as an advisory committee to the chair of the Department of General Studies. The primary purpose of the GSAB is to assist the chair in planning, implementing, communicating, and assessing general education programs and the curriculum. Proposed curriculum changes are advanced to the University Curriculum Committee.

The Board's membership includes faculty representatives from the degree granting programs and a representative from the following areas: Honors Program, Library, Institutional Effectiveness, Registrar's Office, and the Office of Retention.

Freshman Placement Testing

The Freshman Placement Testing Program evaluates first-time freshmen, readmitted students, and transfer students who have not completed three semester hours of acceptable transfer credits in both English and college level mathematics. Tests are administered in the areas of writing and mathematics. The placement tests are designed to help students identify skills that should be strengthened and to place students in appropriate English and mathematics courses. If indicated by test results, students who need further development will be assigned to developmental courses. The laboratories are located in the Academic Support Center and are designed for both skill development and enrichment.

Students who need to strengthen various college skills will be assigned to one or more of the following developmental courses. These courses will then constitute prerequisites for required English and Mathematics courses. Although GE 100 and GE 109 carry course credit, these courses do not count toward fulfilling graduation requirements. Students must earn grades of "C" or better in these classes.

GE-100 Grammar and Usage	(2)
GE-109 Introduction to College Math	(3)

ETS Proficiency Profile

All freshmen are required to take the ETS Proficiency Profile. The assessment will be administered to freshmen within the first eight weeks of their first semester. The assessment will be administered to sophomores during the Fall or Spring semester.

Core Curriculum

General Education Core Curriculum 46-48 hours

Freshman Seminar I and II **1 hour**

GE 122 and 123, 0.5 credits each with some special sections designated for students with specifically declared majors;

HON 194 (1) is required for Honors Program students.
**This course is waived for transfer students with 12 or more transfer hours.*

English Composition 6 hours
GE 102 English Composition and Grammar (3) is required of all students. Grade must be "C" or better.
GE 103 English Composition and Vocabulary (3) is required of all students. Grade must be "C" or better.
GE 102H and GE 103H are required for Honors Program students. Grade must be "C" or better.
Note: GE 100 may be a prerequisites per the placement testing results.

Literature and Language 6 hours
GE 201 World Literature I (3) is required of all students.
GE 201H World Literature I Honors is required for Honors Program students.
The remaining three hours may be fulfilled by taking one of the following courses: GE 202, GE 203H, CHIN 101, CHIN 102, HIND 101, HIND 102, SPAN 101, SPAN 102, FREN 101, FREN 102, SPPA 250, and SPPA 251.

Fine Arts and Communications 4 hours
Choose two courses from the following: GE 130, GE 135, MUS 219, MUS 212, THEA 321, and SPCH 314.
Pharmacy majors are required to take SPCH 314.
Music majors are required to take MUS 212.
Business Administration and Accounting majors are required to take SPCH 314.

Social and Behavioral Sciences 12 hours
GE 140 World Civilization I (3) is required of all students.
GE 141 World Civilization II (3) is required of all students except for Social Work majors.
Choose two courses from the following for the remaining hours: GE 142, HIST 250, HIST 251, HIST 255, HIST 256, GEOG 201, GEOG 204, POLS 200, POLS 298, POLS 299, SOC 201, SOC 202, SOC 302, PHIL 250, PHIL 251, ECON 201, ECON 202, PSY 212, *GLBS 200, BFIN 210. (Follow departmental recommendations.)
Business Administration and Accounting majors must take ECON 201 and ECON 202.

Natural Sciences and Mathematics 10 hours
Note: GE 109 might be a prerequisite per the placement testing results.
At least one course of college level math is required:
GE 114 (Mathematics for Liberal Arts (3), GE 115 College Algebra (3) GE 118 Pre-Calculus (3) or MATH 165 (4).
Education majors must take both MATH 121 (3) and MATH 122 (3).
Business Administration and Accounting majors must take GE 115 (3).
At least one science course with the corresponding lab is required from the following:
GE 152/152L (3/1), GE 155/155L (3/1), GE 158/158L (3/1), CHEM 101/101L (3/1), CHEM 102/102L (3/1), ENSC 101/101L (3/1), GEOL 140 (4), MAS 111(3), PHYS 181/181L (3/1), PHYS 182/182L (3/1).

Computer and Information Literacy 3 hours
GE 111 (3) is required of all students except: CSC 114 (3) for Math, Science & Technology majors; EDUC 203 (3) for Education majors; BUAD 190 (3) for Business Administration and Accounting majors and ART 101 (3) for Graphic Design and Art majors.

Health and Physical Education 4 hours
GE 185 Health Concepts (2) is required.
Choose any two 1-hour PE activity courses or one 2-hour course from the following: GE 160, 161, 163, 164, 168, 169, 172, 173, 174, 175, 178, 179, 180, 183, 184, 186, 187, 191, 193, 195, PE 208, 209, 274, 276, 279. Education majors must take PE 363.
MIS 101 Basic Military Science (2) and MUS 200 University Marching band (1) may be used to fulfill the PE activity requirement

DEPARTMENT OF MILITARY SCIENCE

The U.S. Army Reserve Officers' Training Corps (ROTC) Program offers college students the opportunity to earn a commission as an officer in the U.S. Army, the Army National Guard, or the U.S. Army Reserve while pursuing a college degree.

Objectives

The objectives of the ROTC Program are to:

- attract, motivate, and prepare selected students to serve as commissioned officers in the Regular Army, Army National Guard, and the U.S. Army Reserve;
- provide ROTC cadets with the basic concepts and principles of military art and science; and
- develop:

  a) leadership, decision-making, problem-solving, and communication skills;

  b) a strong sense of the Army values (loyalty, duty, respect, selfless service, honor, integrity, and personal courage); and

  c) strong Commissioned Officers who are confident as well as competent.

Program Description

The ROTC program is based on a four-year curriculum integrated with the normal baccalaureate degree program. Flexibility is provided through a number of options and alternatives.

The Four-Year Program

The Four-Year ROTC Program is divided into two parts: Basic Course and Advanced Course.

All freshmen and sophomores are encouraged to enroll in the Basic Course. The Basic Course is usually taken during the first two years of college. It covers such subjects as the Army organization, military customs and traditions, leadership development, basic military skills, and physical training. In addition, a variety of outside social and professional enrichment activities are available. All necessary ROTC textbooks, uniforms, and other essential materials for the Basic Course are furnished at no cost. After completion of the Basic Course, students who have demonstrated the potential to become Army officers and who have met the physical and scholastic standards are eligible to enroll in the Advanced Course.

The Advanced Course is usually taken during the final two years of college. It includes instruction in organization and management, tactics, ethics and professionalism, and further leadership development. All necessary textbooks and uniforms in the Advanced Course are also furnished to students.

ROTC cadets who have met all requirements are eligible to contract. Contracting means that a cadet has decided to support his or her country for a period of eight years. If selected for Active Duty, the term could be for all eight years or it could be a combination of Active Duty and Reserve time. For example, a commissioned cadet could serve three to four years on Active Duty and then elect to leave Active Duty and finish the remainder of the contract in the Reserves or National Guard. If not selected for Active Duty, then all eight years would be served in either the US Army Reserves or the State National Guard. The cadet is also required to perform an additional four years in the Inactive Ready Reserve, maintaining the cadet's information with no drill requirement.

Also available to students is the Simultaneous Membership Program (SMP). Cadets who qualify for SMP will be assigned to a National Guard/Reserve unit to train under a lieutenant or captain in the headquarters element. The SMP cadet will receive E-5 (Sergeant) monthly Drill Pay (approximately $230) and, once contracted, an additional monthly $450 during the junior year, and $500 during the senior year as a stipend from Army ROTC.

During the summer between their junior and senior years of college, Advanced Course cadets attend a paid five-week training session called Cadet Summer Training (CST). CST gives cadets the chance to demonstrate what they have learned in the classroom, and it introduces them to Army life "in the field."

The Two-Year Curriculum

A Two-Year Program is provided for those students who cannot complete the normal four-year program before graduation. The Two-Year Program is designed for graduate school students and students at 4-year colleges who did not take ROTC during their first two years of school.

To enter the Two-Year Program, students must first attend a paid summer training session called Cadet Initial Entry Training (CIET) to provide essential training to be successful in the Advanced Course. The training is normally held during the summer between their sophomore and junior or junior and senior years of college. This program is followed by enrollment in the Advanced Course to complete the ROTC Program.

Students may opt to enroll in the Advanced Course during their junior year and attend CIET during the summer between their junior and senior years.

Compression and Alternate

The Basic Course may be compressed into a single year by simultaneous enrollment in Freshman and Sophomore ROTC classes. This option is available to sophomore students who did not enroll in ROTC during their freshman year. Students must receive prior approval from the Military Science Department Chair to exercise this option.

Army ROTC Scholarships Financial Assistance

Scholarship opportunities exist for a Two- or Three-year ROTC Scholarship or Guaranteed Reserve Forces Duty Scholarship (GFRD). Three-year scholarships are open to freshmen and first semester sophomores. The Two-year ROTC & GRFD and Three-year ROTC Scholarships are awarded on a competitive basis. In some instances based upon the student's performance a scholarship can increased, i.e., a three year becomes a four year. For more information on the scholarship process, please call the ECSU ROTC Scholarship and Enrollment Officer at (252) 335-3917.

Each scholarship pays for either room and board or college tuition and required educational fees, and it provides a specified amount for textbooks, supplies, and equipment. Each scholarship recipient or contracted cadet will receive the following subsistence allowance: FR: $350, SO: $400, JR: $450, and SR: $500 per month (cadets are actually paid every two weeks). Cadets who are in the advanced courses (juniors and seniors), who are not regular army scholarship cadets, can compete for Simultaneous Membership Program (SMP) slots in their unit and earn up to $1,000 per month.

Students who have prior military service (have completed Basic Training) and are in the reserves can earn a commission in two years if they meet the requirements.

Program Design: Military Science

(Open To All Majors)

MIS 102/103	Basic Military Science	**2**

Required Classes: A **minor** in Military Science and Leadership will consist of the following semester hours:

Course and Number		**Semester Hour Credit**
MIS 201	Applied Leadership and Management I	2
MIS 202	Applied Leadership and Management II	2
MIS 301	Leadership and Management I	3
MIS 302	Leadership and Management II	3
MIS 303	U.S. Military History	3
MIS 401	Advanced Leadership and Management I	3
MIS 402	Advanced Leadership and Management II	3
Total Required Hours for Minor		**19**

Residence Requirements: 19 Semester hours must be earned in residence. This minor will be available to all students that meet course requirements.

Each candidate must complete a course in written communications as part of the student's General Education program requirement or academic discipline. The courses offered by the University which fulfill this requirement are:

Written Communication: GE 100, 102, 103, 104, 105; ENGL 317, 399, 401;

**The Basic Course is offered, as an elective, to all students enrolled in the university. Enrollment in these courses does not incur an obligation of military service. Basic Course requirements may be waived by the Professor of Military Science for veterans or other persons with prior military training.*

Precommissioning Assessment System - Precontracting Phase

Entry Criteria

Assessment Element	**Standard**
CITIZENSHIP	U.S. Citizen
	Selected Alien Students
AGE	Under 27 At Time of Commissioning unless Prior Service
CHARACTER	No Record of Disciplinary Problems or Civil Conviction
STANDARD MEDICAL EXAM	Army Regulation 40-501
ARMY PHYSICAL FITNESS TEST (APFT)	180(60/60/60)
STRUCTURED INTERVIEW	Acceptable Ratings on At Least 7 of 12 Leadership Dimensions
ACADEMIC STANDING	Full-time Student
GRADE POINT AVERAGE	2.5 on 4.0 Scale
BASIC COURSE PERFORMANCE	2.5 GPA on 4.0 Scale
CADET INITIAL ENTRY TRAINING CAMP (CIET) PERFORMANCE (Two-Year Program)	Student Potential Index 100 = Average 110 = Strong Performance 90 = Whole Person Evaluation
OVERALL LEADERSHIP POTENTIAL	Results of All Other Elements Professor of Military Science Judgment and Evaluation

Precommissioning Assessment System - Precommissioning Phase

Exit Criteria

Assessment Element	Standard
CUMULATIVE GRADE POINT AVERAGE	2.0 on 4.0 Scale
ADVANCED COURSE PERFORMANCE	2.0 GPA minimum in each class Field Training Exercises Leadership Lab Performance Interaction with Cadets
CADET SUMMER TRAINING COURSE (CST)	Pass CST with a minimum of an overall Capable rating and Satisfactory in the categories below.
	Land Navigation Written Exams & Tests Marksmanship Events Troop Leading Procedure Events Creative & Critical Thinking Challenges Peer Evaluation
OVERALL LEADERSHIP POTENTIAL	Results of All Other Elements Professor of Military Science Evaluation

WALTER DAVIS DEPARTMENT OF BUSINESS & ECONOMICS

The Department of Business and Economics develops students into business professionals, engages in relevant research, and serves its stakeholders, particularly those in Northeast North Carolina.

We prepare students for success in life and in their chosen careers. The Department provides a full spectrum of post-secondary business education courses with high academic and professional standards. Our graduates are prepared for careers in a technologically oriented and competitive global environment.

For students seeking degrees outside the Department of Business & Economics, business courses that count toward graduation must comprise less than 25% (30 semester hours) of the coursework required for the undergraduate degree received.

Admission Process

Purpose
The purpose of the admission process is to ensure that only students who are prepared to be business administration or accounting majors are admitted to those majors. Admission to Elizabeth City State University, while obviously required, does not constitute admission to the Department of Business & Economics.

General Process
Students enrolled at Elizabeth City State University or transferring from other institutions may be considered for admission to the Department of Business & Economics. Students will complete an "intent to major" form in business as the first step and will be assigned a business department faculty advisor. **To be eligible for admission to the Department, however, students must satisfy the following admission requirements:**

- completion of a minimum of 45 semester hours at ECSU or at a regionally accredited college or university;
- cumulative GPA of 2.0 or better on a 4.0 scale. (Transfer credits of students from other institutions must have a grade of "C" or better); and
- completion of the following courses or equivalent courses with a minimum grade "C" in each:
- GE 115 College Algebra
- ACCT 210 Financial Accounting
- BUAD 190 Management Information Systems I
- BUAD 115 Introduction to Business
- ECON 201 Principles of Economics I (Macroeconomics)

Upon completion of the above courses, students must submit an application for official admission to the Department. Students not accepted may retake courses to meet eligibility requirements and reapply.

Once admitted to the Department, the student's progress will be monitored and subject to the Department's retention process.

Curriculum

The Department of Business & Economics offers the following degree

- Bachelor of Science in Accounting
- Bachelor of Science in Business Administration. (Requires a concentration in one of the following three concentrations: Economics and Finance, Management and Entrepreneurship, or Marketing and Data Analysis).

The Department also offers a minor in Business Administration and a minor in Entrepreneurship for students who are pursuing majors in other departments. Individuals may also pursue a certificate in Entrepreneurship.

In addition to residential offerings at the Elizabeth City campus, the Department participates in the University's Distance Learning Program.

Mission Statement

The Department of Business and Economics develops students into business professionals engages in relevant research, and serves its stakeholders, particularly those in Northeastern North Carolina.

Retention Process

Purpose
The purpose of the retention process is to ensure timely completion of the business administration and accounting degree programs through early intervention in meeting academic eligibility and graduation requirements. This process applies only to those students who are admitted to the Department and is separate from the University's "academic eligibility standards" in the ECSU catalog. Students admitted to the Department are those who meet the requirements established in the Department's Admission Process.

General Process
In order to graduate with a degree in Accounting or Business Administration, students are allowed no more than two "Ds" in courses offered in the Department of

Business & Economics. Furthermore, they must maintain a cumulative GPA of at least 2.0 on a 4.0 scale. In addition, the grade for all courses serving as a prerequisite for another course must be "C" or better:

- **WARNING:** The semester in which a business student's cumulative GPA in the major courses falls below the minimum requirement of 2.0 will result in the issuance of a "Warning" letter from the Department. Students under warning must retake courses in which they earned a grade below "C", and the student will be allowed to enroll in no more than 12 semester hours of both business and non-business courses.
- **PROBATION:** A student who fails to meet the minimum cumulative GPA in the major courses the semester after the warning will be placed on probation. Students placed on probation will be required to meet with their academic advisor for counseling. The advisor will direct the students to tutorial and developmental student services to help them improve their academic performance. Students on probation will be required to sign in with tutors for at least two hours each week in order to document time-on-task.

While on probation, students will not be allowed to take additional business courses but will be limited to retaking business courses in which they earned a grade below "C". However, they may take general education and non-business elective courses to attempt to improve their overall GPA.

NOTE: Repeating courses is subject to the limitations specified in the University's catalog "Repeating of Courses Policy." A student may "repeat a given course only twice." In addition, a student "may repeat a maximum of 15 semester hours during the matriculation toward a degree."

Accounting

The Accounting program offers students the opportunity to pursue degrees in Accounting. The use of technology as a teaching and learning tool is highly emphasized and is incorporated in most courses. Critical thinking and ethical values are also emphasized. Students are encouraged to participate in student organizations to help build teamwork and leadership skills. They are also encouraged to engage in an internship to gain work experience and an understanding of how the business world operates.

The primary objectives of the program are for graduates to be able to:

- Prepare and analyze financial statements;
- Demonstrate entry-level technical competence in financial accounting, cost/managerial accounting and auditing;
- Apply principles of the US Tax System to real life cases;
- Describe the principles related to the design, integrity and effectiveness of accounting information systems; and
- Apply critical thinking skills to business decisions.

The B.S. Degree in Accounting provides basic preparation for careers in public accounting; corporate finance and accounting; and government and not-for-profit accounting. Students interested in meeting the 150-hour requirement for CPA certification should contact their advisor before the end of the freshman year to devise a strategy. The Accounting degree is an excellent degree for many career goals and is in demand because of the analytical skills that it develops. Accounting is one of the fastest growing professions, and graduates with good GPAs have numerous career choices and opportunities in business and government. It is also excellent preparation for continued study for graduate degrees such as the Master of Business Administration (MBA), Master of Accountancy (MA), and Juris Doctor (law).

MAJOR: B.S. Degree in Accounting

A. General Education Requirements		**47**
Must include ECON 201, ECON 202, BUAD 190, and SPCH 314.		
B. Accounting Course Requirements		**24**
ACCT 321	Intermediate Accounting I	3
ACCT 322	Intermediate Accounting II	3
ACCT 323	Intermediate Accounting III	3
ACCT 335	Federal Income Taxation	3
ACCT 425	Financial Auditing	3
ACCT 421	Cost Accounting	3
ACCT 431	Advanced Financial Accounting	3
ACCT 440	Accounting Information Systems	3
C. Related Business Requirements		**5**
BUAD 115	Introduction to Business	3
ACCT 210	Financial Accounting I	3
ACCT 220	Managerial Accounting	3
BFIN 311	Principles of Finance	3
BUAD 200	Business Communications	3
BUAD 240	Ethics	3
BUAD 241	Business Law	3
BUAD 360	Quantitative Methods	3
BMIS 380	Management Information Systems II	3
BUAD 455	Strategic Management (Senior Standing)	3
BUAD 456	International Business	3
OR		
ECON 455	International Economics	3
BUAD 490	Internship I	
ECON 260	Business/Economic Statistics	3
MNGT 221	Principles of Management	
MRKT 231	Principles of Marketing	3
D. Accounting Major Electives - must take 1 from the following		**3**
ACCT 435	Entities Taxation	3
ACCT 451	Government & Not-for-Profit Acct	3
ACCT 460	Forensic Accounting	3
E. Directed Electives - select 1 course from the following:		**3**
BFIN 210, GLBS 320, POLS 200, PSY 212, SOC 201, or any foreign, sign or computer language course		
F. General Electives		**3**
Total Semester Hours Required for Degree		**126**

B.S. Degree in Accounting Suggested Curriculum Guide (Effective Fall 2015)

Freshman Year
First Semester

Course and number		Semester hrs
GE 185	Health Concepts	2
GE 102	English Comp & Grammar	3
GE 115	College Algebra	3
GE 122	Freshman Seminar	1
BUAD 115	Introduction to Business	3
GE 140	World Civilization I	3
	Fine Arts and Communications Elective	2
		17

Second Semester

GE 103	English Comp & Vocabulary	3
	Math/Science Electives	3
	Natural Science	3
	Natural Science Lab	1
	Physical Education Elective	1
GE 141	World Civilization II	3
BUAD 190	Management Info. Systems I	3
		17

Sophomore Year
First Semester

Course and number		Semester hrs
SPCH 314	Public Speaking	3
GE 201	World Literature I	3
	Directed Elective	3
ACCT 210	Financial Accounting	3
BUAD 200	Business Communication	3
ECON 201	Principles of Econ. I	3
		18

Second Semester

	Physical Education Elective	1
	Language/Literature Elective	3
ECON 202	Principles of Economics II	3
ACCT 321	Intermediate Accounting I	3
BUAD 241	Business Law	3
ACCT 220	Managerial Accounting	3
		16

Junior Year
First Semester

Course and number		Semester hrs
MNGT 221	Principles of Management	3
ECON 260	Business/Econ. Statistics	3
ACCT 322	Intermediate Accounting II	3
BMIS 380	MIS II	3
MRKT 231	Principles of Marketing	3
BFIN 311	Principles of Finance	3
		18

Second Semester

ACCT 323	Intermediate Accounting III	3
ACCT 421	Cost Accounting	3
BUAD 360	Quantitative Methods	3
BUAD 240	Ethics	3
ACCT 431	Advanced Financial Accounting	3
		15

Senior Year
First Semester

Course and number		Semester hrs
	General Elective	3
ACCT 440	Accounting Information Systems	3
ACCT 335	Federal Income Tax	3
BUAD 490	Internship I	3
		12

Second Semester

ACCT 425	Financial Auditing	3
BUAD 456	International Business, or	3
ECON 455	International Economics	
BUAD 455	Strategic Management	3
	Accounting Major Elective*	3
		12
Total Semester Hours Required for Degree		**125**

* Accounting Major Electives - Must take 3 semester hours from the following:

ACCT 435	Entities Taxation	3
ACCT 451	Government & Not-for-Profit Accounting	3
ACCT 460	Forensic Accounting	3

**Directed Electives

Choose 3 semester hours of the following:

GLBS 320	World Societies & Cultures
PSY 212	General Psychology
SOC 201	Introduction to Sociology
POLS 200	Introduction to Political Science
BFIN 210	Personal Financial Planning
	Foreign, Sign or Programming Language

Business Administration

The Business Administration program offers students the Bachelor of Science in Business Administration degree (BSBA). In addition to the general education courses, Business Administration majors take their own business core subjects which help them gain general business knowledge. All Business Administration majors must select an area of concentration: Management and Entrepreneurship, Marketing and Data Analysis, or Economics and Finance. The department also offers a Minor in Business Administration to students who are pursuing majors in other schools.

The BSBA degree provides basic professional preparation for careers in business, government, and non-profit organizations, with specific focus on administration. The curriculum is designed to help students develop the ability to evaluate and make business decisions against changing competitive, economic, legal, political, social/cultural, and technological environments; familiarize themselves with the dynamics of the internal organization and operations of business firms; develop skills in identifying problems, issues, strengths, weaknesses, opportunities, and threats confronting business firms; acquire tools, methods, and techniques for analyzing and solving business problems and opportunities; and gain the ability to develop and implement strategies.

The major objectives of the program are to help students succeed at each of the following:

- Applying critical thinking skills to business decisions
- Recognizing ethical dilemmas in business and professional environments and demonstrating social responsibility
- Applying and using fundamental principles from the core knowledge base of Business Administration specific to the areas of accounting, economics, finance, information systems, international business, legal and social environment, management, marketing and qualitative business analysis
- Communicating effectively in both written and oral form

Degree Program

The Business Administration Department offers a Bachelor of Science in Business Administration. Students earn this degree in one of the following

concentrations. Additional concentrations may be selected by a student in consultation with his or her advisor.

Concentration in Management and Entrepreneurship
The concentration in Management and Entrepreneurship prepares students for all facets of running a business, whether it be their own startup, an inherited family business, or a company created and owned by others. Students experience key elements of managing human resources, preparing business plans and determining how to attain and deploy resources for maximal effect. This concentration helps students use their creativity to recognize opportunity, evaluate and develop products or services to create value and wealth in the process.

Concentration in Marketing and Data Analysis
Marketing and Data Analysis are naturally related in the current age of technology. Successful companies are not only customer-driven, but are customer-obsessed. Successes come about by developing sound marketing strategies and functions that provide superior value to customers. Companies seek to use technology to tap into markets that are yet untapped as well as target their products to the specific needs and interests of current customers. They do so using data collected from point of purchase transactions, from customer surveys and interactions both face to face and on the web, and from demographic sources. Successful companies collect, store and use this data to find ways to add value for customers. This concentration connects MIS and Marketing through the link of E-Commerce, teaching students about business intelligence and analytics, consumer behavior, sales management and managing the marketing process.

The B.S. in Business Administration with concentration in Economics and Finance provides basic preparation for careers in banking, government, corporate finance, private entities, and investment banking. Inclusive in the program objectives is the preparation for graduate study in Business Administration, Economics, Finance, and related academic areas. Students with this concentration are on their way to being prepared for the Chartered Financial Analyst exam.

Minor in Business Administration

The Department also offers a minor in Business Administration to students pursuing other degrees at ECSU.

Minor in Entrepreneurship

For those pursuing degrees in programs other than Business Administration and Accounting, the Department also offers a minor in Entrepreneurship to help prepare students to open their own businesses.

Certificate in Entrepreneurship

The Department offers a Certificate in Entrepreneurship that is available for individuals seeking a degree at the university as well as for community members. The Certificate in Entrepreneurship is intended to prepare those without a Business or Accounting degree to open and sustain an entrepreneurial venture.

MAJOR: B.S. Degree in Business Administration - Concentration in Economics and Finance

A. General Education Requirements		**47**
Must Include: ECON 201, ECON 202, BUAD 190, and SPCH 314		
B. Major Core Course Requirements		**48**
BUAD 115	Introduction to Business - *Must Take First*	3
ACCT 210	Financial Accounting	3
ACCT 220	Managerial Accounting	3
BUAD 200	Business Communications	3
BUAD 240	Ethics	3
BUAD 241	Business Law	3
ECON 260	Business/Economics Statistics	3
MNGT 221	Principles of Management	3
MRKT 231	Principles of Marketing	3
BFIN 311	Principles of Finance	3
BUAD 360	Quantitative Methods for Bus. & Econ.	3
BUAD 365	Business Research & Report Writing	3
BMIS 380	Management Information Systems II	3
BUAD 456	International Business or	3
ECON 455	International Economics	3
BUAD 455	Strategic Management	3
BUAD 490	Internship I	3
C. Concentration Requirements		**18**
ECON 318	Money, Credit & Banking	3
ECON 470	Microeconomic Analysis	3
ECON 480	Macroeconomic Analysis	3
BFIN 320	Financial Management	3
BFIN 350	Investments	3
BFIN 425	Commercial Bank Management	3
D. Directed Electives		**6**
PSY 212	**General Psychology**	**3**
Plus one of the following courses: GLBS 320, POLS 200, SOC 201, BFIN 210, Foreign Language, Sign Language or Programming Language		**3**
E. Business Electives (select two from the following)		**6**
ECON 376, BFIN 415, BFIN 420, BFIN 398, ECON 325, ECON 398 or any other 300-400 level DBE course		
Total Semester Hours Required for Degree		**125**

B.S. Degree in Business Administration Suggested Curriculum Guide for Concentration in Economics and Finance

Freshman Year
First Semester

Course and number	**Semester hrs**

GE 102	English Comp & Grammar	3
GE 115	College Algebra	3
GE 122	Freshman Seminar	1
GE 140	World Civilization I	3
BUAD 115	Introduction to Business	3
GE 185	Health Concepts	2
		15

Second Semester

GE 103	English Comp & Vocabulary	3
	Math/Science Elective	3
BUAD 190	Management Information Sys. I	3
GE 141	World Civilization II	3
	Natural Science	3
	Natural Science Lab	1
	Physical Education Activity	1
		17

Sophomore Year
First Semester

Course and number		**Semester hrs**
	Fine Arts and Comm. Elective	2
GE 201	World Literature I	3
ACCT 210	Financial Accounting	3
BUAD 200	Business Communication	3
ECON 201	Principles of Economics I	3
	Physical Education Activity	1
SPCH 314	Public Speaking	3
		18

Second Semester

	Language & Literature Elective	3
ACCT 220	Managerial Accounting	3
PSY 212	General Psychology	3
ECON 202	Principles of Economics II	3
MNGT 221	Principles of Management	3
BUAD241	Business Law	3
		18

Junior Year
First Semester

Course and number		**Semester hrs**
	Directed Elective **	3
MRKT 231	Principles of Marketing	3
BFIN 311	Principles of Finance	3
BMIS 380	Management Info Systems II	3
ECON 260	Business & Economics Statistics	3
		15

Second Semester

BUAD 360	Quantitative Methods	3
	Business Elective*	3
	Concentration Course***	3
	Concentration Course ***	3
BUAD 240	Ethics	3
		15

Senior Year
First Semester

Course and number		**Semester hrs**
	Concentration Course***	3
	General Elective	3
BUAD 490	Internship I	3
BUAD 365	Bus. Research & Report Writing	3
	Concentration Course	3
		15

Second Semester

BUAD 455	Strategic Management	3
	Concentration Course	3
ECON 455	International Economics	3
	General Elective	3
	Concentration Course	3
		15
Total Semester Hours Required for Degree		**125**

*Business Electives
Choose 3 semester hours of the following

ECON 376	Public Finance
BFIN 415	Financial Management Policy & Strategy
BFIN 420	Portfolio Construction & Management
BFIN 398	Special Topics in Finance
ECON 325	Current Economic Problems
ECON 398	Special Topics in Economics
	Any other 300-400 level course in the Department of Business & Economics

**Directed Electives
Choose 3 semester hours of the following

GLBS 320	World Societies & Cultures
SOC 201	Introduction to Sociology
POLS 200	Introduction to Political Science
BFIN 210	Personal Financial Management
	Foreign, Sign or Programming Language

**Concentration Courses
Choose 3 semester hours of the following

ECON 318	Money, Credit & Banking
ECON 470	Microeconomic Analysis
ECON 480	Macroeconomic Analysis
BFIN 320	Financial Management
BFIN 350	Investments
BFIN 425	Commercial Bank Management

MAJOR: B.S. Degree in Business Administration - Concentration in Management and Entrepreneurship

A. General Education Requirements **47**

Must Include: ECON 201, ECON 202, BUAD 190, and SPCH 314

B. Major Core Course Requirements **48**

BUAD 115	Introduction to Business - *Must Take First*	3
ACCT 210	Financial Accounting	3
ACCT 220	Managerial Accounting	3
BFIN 311	Principles of Finance	3
BMIS 380	Management Information Systems II	3
BUAD 241	Business Law	3
BUAD 360	Quantitative Methods for Bus. & Eco.	3
BUAD 365	Business Research & Report Writing	3
BUAD 456	International Business	3
OR		
ECON 455	International Economics	
BUAD 455	Strategic Management	3
BUAD 200	Business Communication	3
BUAD 240	Ethics	3
BUAD 490	Internship	3
ECON 260	Business/Economics Statistics	3
MNGT 221	Principles of Management	3
MRKT 231	Principles of Marketing	3
		3

C. Business Electives (select two from the following) **6**

MRKT 333, MNGT 425, BUAD 425, BUAD 426, BMIS ???, MNGT 398 or any 300/400 level DBE course.

D. Concentration Requirements		**18**
MNGT 321	Human Resource Management	3
MNGT 322	Organizational Behavior	3
MNGT 345	Leadership & Teamwork	3
MNGT 421	Operations Management	3
BUAD 322	Entrepreneurship	3
BFIN 315	Entrepreneurial Finance	3
E. Directed Electives – PSY 212 plus choose 3 hours from the following:		**6**
GLBS 320, POLS 200, SOC 201, BFIN 210, Foreign Language, Sign Language or Programming Language		
Total Semester Hours Required for Degree		**125**

B.S. Degree in Business Administration Suggested Curriculum Guide for Concentration in Management and Entrepreneurship

Freshman Year
First Semester

Course and number		**Semester hrs**
GE 185	Health Concepts	2
GE 102	English Comp & Grammar	3
GE 115	College Algebra	3
GE 122	Freshman Seminar	1
GE 140	World Civilization I	3
BUAD 115	Introduction to Business	3
		15

Second Semester

GE 103	English Comp & Vocabulary	3
	Math/Science Elective	3
BUAD 190	Management Information Systems I	3
GE 141	World Civilization II	3
	Natural Science	3
	Natural Science Lab	1
	Physical Education Activity	1
		17

Sophomore Year
First Semester

Course and number		**Semester hrs**
	Fine Arts and Comm. Elective	2
GE 201	World Literature I	3
ACCT 210	Financial Accounting	3
	Physical Education Activity	1
BUAD 200	Business Communication	3
ECON 201	Principles of Economics I	3
SPCH 314	Public Speaking	3
		18

Second Semester

	Language & Literature Elective	3
MNGT 221	Principles of Management	3
ACCT 220	Managerial Accounting	3
BUAD 241	Business Law	3
PSY 212	General Psychology**	3
ECON 202	Principles of Economics II	3
		18

Junior Year
First Semester

Course and number		**Semester hrs**
	Directed Elective**	3
MRKT 231	Principles of Marketing	3
BFIN 311	Principles of Finance	3
BMIS 380	Management Info Systems II	3
ECON 260	Business/Economics Statistics	3
		15

Second Semester

BUAD 360	Quantitative Methods	3
	Business Elective**	3
	Concentration Course***	3
	Concentration Course***	3
BUAD 240	Ethics	3
		15

Senior Year
First Semester

Course and number		**Semester hrs**
	Business Elective *	3
	Concentration Course***	3
BUAD 490	Internship I	3
	Concentration Course***	3
BUAD 365	Business Research & Report Writing	3
		15

Second Semester

BUAD 455	Strategic Management	3
	Concentration Course***	3
	Concentration Course***	3
BUAD 456	International Business or	3
ECON 455	International Economics	
		12
Total Semester Hours Required for Degree		**125**

*Business Electives:

MRKT 333	Sales Management
MNGT 425	Organization Theory
BUAD 425	Franchising
BUAD 426	Supply Chain Management
BMIS ???	E-Commerce
MNGT 398	Special Topics in Management
	Any 300/400 business or accounting course

**Directed Electives
PSY 212 plus choose 3 semester hours of the following

GLBS 320	World Societies & Cultures
SOC 201	Intro to Sociology
POLS 200	Introduction to Political Science
BFIN 210	Personal Financial Management
	Foreign, Sign or Programming Language

***Concentration Courses
Choose 3 semester hours of the following

MNGT 321	Human Resource Management
MNGT 322	Organizational Behavior
MNGT 345	Leadership & Teamwork
MNGT 421	Operations Management
BFIN 315	Entrepreneurial Finance
BUAD 322	Entrepreneurship

MAJOR: B.S. Degree in Business Administration - Concentration in Marketing and Data Analysis

A. General Education Requirements		**47**
Must Include: ECON 201, ECON 202, BUAD 190, and SPCH 314		
B. Major Core Course Requirements		**48**
BUAD 115	Introduction to Business - Must Take	3

	First	
ACCT 210	Financial Accounting	3
ACCT 220	Managerial Accounting	3
BFIN 311	Principles of Finance	3
BMIS 380	Management Information Systems II	3
BUAD 241	Business Law	3
BUAD 360	Quantitative Methods	3
BUAD 456	International Business	3
OR		
ECON 455	International Economics	
BUAD 455	Strategic Management	3
BUAD 200	Business Communication	3
BUAD 240	Ethics	3
ECON 260	Business/Economics Statistics	3
MNGT 221	Principles of Management	3
MRKT 231	Principles of Marketing	3
MRKT 365	Marketing Research	3
BUAD 490	Internship	3
C. Business Electives		**6**

Any 300/400 level business or accounting courses.

D. Concentration Requirements		**18**
BMIS 475	Database Management Systems	3
MRKT 332	Consumer Behavior	3
MRKT 333	Sales	3
BMIS 485	Business Intelligence and Analytics	3
MRKT 432	Marketing Management	3
F. Directed Electives – 6 hours from the following		**6**
PSY 212	**General Psychology**	**3**
Plus one of the following courses: GLBS 320, POLS 200, SOC 201, BFIN 210, Foreign Language, Sign Language, or Programming Language		**3**
E. General Electives		**6**
Total Semester Hours Required for Degree		**125**

B. S. Degree in Business Administration Suggested Curriculum Guide for Concentration in Marketing and Data Analysis

Freshman Year
First Semester

Course and number		**Semester hrs**
GE 185	Health Concepts	2
GE 102	English Comp & Grammar	3
GE 115	College Algebra	3
GE 122	Freshman Seminar	1
GE 140	World Civilization I	3
BUAD 115	Introduction to Business	3
		15

Second Semester

GE 103	English Comp & Vocabulary	3
	Math/Science Elective	3
BUAD 190	Management Information Sys. I	3
GE 141	World Civilization II	3
	Natural Science	3
	Natural Science Lab	1
	Physical Ed. Activity	1
		17

Sophomore Year
First Semester

Course and number		**Semester hrs**
	Fine Arts and Communications Elective	2
GE 201	World Literature I	3
	Physical Education Activity	1
ACCT 210	Financial Accounting	3
BUAD 200	Business Communication	3
ECON 201	Principles of Economics I	3
SPCH 314	Public Speaking	3
		18

Second Semester

	Language & Literature Elective	3
ACCT 220	Managerial Accounting	3
BUAD 241	Business Law	3
ECON 202	Principles of Economics II	3
MNGT 221	Principles of Management	3
PSY 212	General Psychology**	3
		18

Junior Year
First Semester

Course and number		**Semester hrs**
MRKT 231	Principles of Marketing	3
BMIS 380	Management Info. Systems II	3
ECON 260	Business/Econ. Statistics	3
	Business Elective*	3
	Directed Elective **	3
		15

Second Semester

BUAD 360	Quantitative Methods	3
BFIN 311	Principles of Finance	3
BUAD 240	Ethics	3
	Concentration Course***	3
	Concentration Course***	3
		15

Senior Year
First Semester

Course and number		**Semester hrs**
	Concentration Course ***	3
MRKT 365	Marketing Research	3
	Concentration Course***	3
BUAD 490	Internship I	3
	Business Elective *	3
		15

Second Semester

	Concentration Course ***	3
BUAD 455	Strategic Management	3
	Concentration Course***	3
ECON 455	International Economics or	3
BUAD 456	International Business	
		15
Total Semester Hours Required for Degree		**125**

*Business Electives:

BMIS 386	Business Systems Analysis and Design
BMIS ???	E-Commerce
BMIS 398	Special Topics in MIS
MRKT 331	Advertising and Promotion
MRKT 398	Special Topics in Marketing
MRKT 431	Retailing
	Any 300/400 level business or accounting course

**Directed Electives

PSY 212 plus choose 3 semester hours of the following

BFIN 210	Personal Financial Management
GLBS 320	World Societies & Cultures
SOC 201	Intro. Sociology
POLS 200	Introduction to Political Science
	Foreign, Sign or Programming Language

***Concentration Courses

BMIS 475	Database Management Systems
MRKT 332	Consumer Behavior
MRKT 333	Sales
BMIS 485	Business Intelligence and Analytics
MRKT 432	Marketing Management
BMIS 489	Project Management

MINOR: Business Administration

Only students majoring in disciplines outside the Department of Business and Economics may earn a Minor in Business Administration. The required courses are:

BUAD 115	Introduction to Business	3
ACCT 210	Financial Accounting	3
MNGT 221	Principles of Management	3
MRKT 231	Principles of Marketing	3
BUAD 241	Business Law	3
OR		
BFIN 311	Principles of Finance.	
TWO 300-400	Level Business Courses	6
Total Semester Hours Required for Minor		**21**

ECON 201 and ECON 202 must be taken as part of the General Education Requirements.

MINOR: Entrepreneurship

Only students majoring in disciplines outside the Department of Business and Economics may earn a Minor in Entrepreneurship. The required courses are:

BUAD 115	Introduction to Business	3
ACCT 101	Accounting for Non-Business Majors	3
MNGT 221	Principles of Management	3
MRKT 231	Principles of Marketing	3
BUAD 241	Business Law	3
BUAD 322	Entrepreneurship	3
	One of the following	
BFIN 315	Entrepreneurial Finance	3
MNGT 321	Human Resource Management	3
MNGT 421	Operations Management	3
BUAD 426	Supply Chain Management	3
Total Semester Hours Required for Minor		**21**

ECON 201 and ECON 202 must be taken as part of the General Education Requirements.

Certificate Program: Entrepreneurship

Only students majoring in disciplines outside the Department of Business and Economics may earn a Certificate in Entrepreneurship. The required courses are:

BUAD 115	Introduction to Business	3
ACCT 101	Accounting for Non-Business Majors	3
MNGT 221	Principles of Management	3
MRKT 231	Principles of Marketing	3
BUAD 241	Business Law	3
BUAD 322	Entrepreneurship	3
BFIN 311	Principles of Finance .	3
ECON 202	Principles of Economics II	3
Total Semester Hours Required for Minor		**21**

DR. HELEN MARSHALL CALDWELL DEPARTMENT OF EDUCATION, PSYCHOLOGY AND HEALTH

Established in 1891 for the "specific purpose of teaching and training teachers of the colored race" Elizabeth City State University's Dr. Helen Marshall Caldwell Department of Education, Psychology and Health continues a rich heritage of producing teachers to serve northeastern North Carolina. The Dr. Helen Marshall Caldwell Department of Education, Psychology and Health maintains its reputation for excellence and addresses the ever-changing needs of its many constituencies. Candidates enter our program as consumers of knowledge, but they leave prepared to begin careers as professionals and/or to pursue graduate education, and to meet the demands of the 21st Century. The Dr. Helen Marshall Caldwell Department of Education, Psychology and Health remains committed through its undergraduate, graduate, and distance-learning programs to continue the heritage of serving northeastern North Carolina, maintain the highest standards in accordance with its accrediting bodies, and become a beacon of the Northeast that improves outcomes in P-12 Education.

Department of Education

Faculty and staff in the Department of Education are committed to the mission of preparing competent practitioners who facilitate learning. The conceptual framework, 21st Century Professional Educator, is woven throughout coursework, research, and experiences so that candidates meet standards for high quality teaching and leadership in the 21st Century. The Department offers innovative specialty areas that are designed to prepare candidates who are global competitors, advocators for diversity, effective communicators and collaborators, critical thinkers and innovators, imbEd.D.ed technology users and healthy and responsible citizens who are capable of meeting the diverse needs of all learners. Candidates participate in a professional core with their specialty area preparation where they benefit from classroom instruction, field experiences, and student teaching that reflects current thinking and research.

The Department of Education offers programs leading to licensure and a Bachelor of Science in Education in the following areas:

- Birth through Kindergarten (B-K)
- Elementary Education (K-6)

Candidates majoring in Elementary Education are required to select an academic concentration from the list below:

Approved Academic Concentration Options:

Art
English
General Science
Mathematics
Music
Psychology
Social Sciences
Spanish

Birth through Kindergarten

Overview
The Birth through Kindergarten program prepares graduates to work with children and families in a variety of settings. Candidates in this program observe and work with infants, toddlers, preschool, and kindergarten children in public and private settings. Graduates of the Birth through Kindergarten program are prepared for employment in Head Start programs, private child care programs, public schools, and other child-centered agencies or businesses. The program offers teaching (Teacher Education) and non-teaching (Child, Family, and Community) concentrations. Successful completion of the Teacher Education concentration will qualify students to apply to the State of North Carolina for an initial teacher license in Birth through Kindergarten education.

Program Goals and Objectives

- Candidates will acquire knowledge of the cognitive, physical, cultural, social, and emotional needs of young children and their families.
- Candidates will demonstrate a comprehensive understanding of the development and implementation of instructional programs for young children.
- Candidates will demonstrate the ability to collaborate with students, families, and school and community personnel in designing and implementing programs for young children.
- Candidates will demonstrate professionalism in their interactions with faculty and school personnel and, as a part of their preparation program, engage in professional activities.

MAJOR: B.S.Ed. Degree in Birth through Kindergarten (BK): Teacher Education Concentration

A. General Education Requirements		**46**
GE 122	Freshman Seminar	1
GE 102	English Composition & Grammar	3
GE 103	English Composition & Vocabulary	3
GE 201	World Literature	3
SPAN 101	Spanish I	3
SPCH 214	College Speech	2
GE 130 or GE 135	Art Appr. or Intro to Mus. Lit.	2
GE 140	World Civilization I	3
GE 141	World Civilization II	3
SOC 202	Social Problems	3
GLBS 200	Intro. to Global Studies	3
MATH 121	Number Systems and Algebra	3
MATH 122	Geometry and Data Analysis	3
GE 152/L or GE 155/L	Prin. of Physical Science/Lab or Prin. of Biological Science/Lab	4
EDUC 203	Intro. to Comp. Instruc. Tech.	3
GE 185	Health Concepts	2
PE	Elective(s)	2
B. Specialty Area Core Requirements		**28**
BKED 201	Intro to Birth-Kindergarten Education	1
BKED 301	Child Growth and Development I	3
BKED 302	Child Growth and Development II	3
BKED 325	Infant & Toddler Curric. Development	3
BKED 330	Educ. Assessment of Infants, Toddlers, & Preschoolers	3
BKED 335	Comm. & Collab. in Schools & Comm.	3
SPED 370	Intro. to Positive Behavior Support	3
HLTH 367	Health & First Aid	3
HLTH 369	Principles of Nutrition	3
BFIN 210 or ECON 201	Personal Financial Management or Principles of Economics	3
C. Professional Core Requirements		**28**
EDUC 210	PSI: Introduction to Education	3
EDUC 211	Field Experience	1
EDUC 250	Introduction to Reading	3
EDUC 310	PS II: Introduction to Special Education & Diverse Learners	3
EDUC 311	Field Experience	P/F
EDUC 360	PS III: Teaching & Assessment	3
BKED	Approved Elective	3
EDUC 478	Seminar in Contemporary Education Issues	P/F
BKED 490	Clinical Practice	12
D. Concentration		**24**
BKED 420	Preschool Curriculum Development	3
BKED 454	Inclusive Preschool Environments	3
BKED 460	Issues & Trends in Early Child. Educ.	3
BKED 470	Kindergarten Curric. & Methods	3
BKED 475	Autism Spectrum & Related Behavior Disorders	3
BKED or ELEM	Approved Elective	3
BKED or ELEM	Approved Elective	3
SPED or ELEM	Approved Elective	3
		126

****Note: EDUC 160, 170, or 180 will be taken if help is needed to pass Praxis I.**

Curriculum Guide for Majors in Birth Through Kindergarten (BK)

Freshman Year
First Semester

Course and number		Semester hrs
GE 102	English Comp. and Grammar	3
MATH 121	Num. Syst. & Algebra	3
GE 122	Freshman Seminar	1
GE 140	World Civilization I	3
GE 152/L	Principles of Phys. Sci/Lab or	
GE 155/L	Principles of Biol. Sci/Lab	4
SPCH 214	College Speech	2
		16

Second Semester

GE 103	English Comp. and Vocabulary	3
SPAN 101	Spanish I	3
GE 141	World Civilization II	3
GE 130	Art Appreciation or	2
GE 135	Music Literature	
GE	Physical Ed. Activity	1
MATH 122	Geometry and Data Analysis	3
		15

Sophomore Year
First Semester

Course and number		Semester hrs
GE	Physical Education	1
BKED 301	Child Growth and Development I	3
EDUC 203	Intro. to Computer Instrl. Tech.	3
GE 201	World Lit. I	3
GE 185	Health Concepts	2
EDUC 210	PSI: Introduction to Education	3
BKED 201	Intro to Birth-Kindergarten Education	1
		16

Second Semester

BFIN 210 or ECON 201	Personal Finance Management or Principles of Economics I	3
EDUC 250	Introduction to Reading	3
HLTH 369	Principles of Nutrition	3
EDUC 310	PSII: Intro to Spec. Ed & Diverse Learners	3
EDUC 211*	Field Experience	1
EDUC 311*	Field Experience	P/F
BKED 302	Child Growth & Development II	3
		16

Junior Year
First Semester

Course and number		Semester hrs
BKED 325	Infant and Toddler Curriculum Development	3
BKED 330	Educational Assessment of Infants, Toddlers, and Preschoolers	3
BKED 335	Communication and Collaboration in Schools and Communities	3
SPED 370	Introduction to Positive Behavior Support	3
EDUC 360	PS III: Teaching & Assessment	3
HLTH 367	Health & First Aid	3
		18

Second Semester

GLBS 200	Introduction to Global Studies	3
BKED or ELEM	Approved Elective	3
BKED or ELEM	Approved Elective	3
SOC 202	Social Problems	3
BKED 420	Preschool Curriculum Development	3
BKED 454	Inclusive Preschool Environments	3
		18

Senior Year
First Semester

Course and number		Semester hrs
BKED	Elective	3
SPED or ELEM	Approved Elective	3
BKED	Approved Elective	3
BKED 470	Kindergarten Curriculum and Methods	3
BKED 475	Autism Spectrum and Related Behavior Disorders	3
		15

Second Semester

BKED 490	Student Teaching	12
EDUC 478	Seminar in Contemp. Ed. Issues	P/F
		12

Total Semester Hours Required for Degree **126**

Licensure-Only Requirements

48

EDUC 210 PSI: Introduction to Education	3
EDUC 310 PSII: Intro to Spec. Ed & Diverse Learners	3
EDUC 360 Teaching and Assessment	3
BKED 335 Comm and Coll in Schools and Communities	3
EDUC 203 Intro. to Instructional Computer Technology	3
BKED 301 Child Growth and Development I	3
BKED 302 Child Growth and Development II	3
BKED 325 Infant and Toddler Curriculum Development	3
BKED 330 Educ. Assess. of Infants, Toddlers, and Preschoolers	3
BKED 420 Preschool Curriculum Development	3
BKED 454 Inclusive Preschool Environments	3
BKED 470 Kindergarten Curriculum And Methods	3
EDUC 478 Seminar	P/F
BKED 490 Obs. and Supervised Teaching in Birth-Kindergarten Ed	12

Lateral Entry Requirements

36

EDUC 203 Introduction to Instructional Computer Technology	3
EDUC 210 PSI: Introduction to Education	3
EDUC 310 PSII: Intro to Spec. Ed & Diverse Learners	3
EDUC 360 Teaching and Assessment	3
BKED 301 Child Growth and Development I	3
BKED 302 Child Growth and Development II	3
BKED 325 Infant and Toddler Curriculum Development	3
BKED 330 Educ. Assess. of Infants, Toddlers, and Preschoolers	3
BKED 335 Communication and Collaboration in Schools & Commun	3
BKED 420 Preschool Curriculum Development	3
BKED 454 Inclusive Preschool Environments	3
BKED 470 Kindergarten Curriculum And Methods	3

For those candidates seeking an add-on license, please see the program coordinator for an individualized plan.

MAJOR: B.S.Ed. Degree in Birth through Kindergarten (BK): Child, Family, and Community Concentration

A. General Education Requirements		**46**
GE 122~~T~~	Freshman Seminar	1
GE 102	English Composition & Grammar	3
GE 103	English Composition & Vocabulary	3
GE 201	World Literature	3
SPAN 101	Spanish I	3
SPCH 214	College Speech	2
GE 130 or	Art Appr. or	2

GE 135	Intro to Mus. Lit.	
GE 140	World Civilization I	3
GE 141	World Civilization II	3
SOC 202	Social Problems	3
GLBS 200	Intro. to Global Studies	3
MATH 121	Number Systems and Algebra	3
MATH 122	Geometry and Data Analysis	3
GE 152/L or GE 155/L	Prin. of Physical Science/Lab or Prin. of Biological Science/Lab	4
EDUC 203	Intro. to Comp. Instruc. Tech.	3
GE 185	Health Concepts	2
PE	Elective(s)	2

B. Specialty Area Core Requirements		**44**
BKED 201	Intro to Birth-Kindergarten Educ.	1
BKED 301	Child Growth and Development I	3
BKED 302	Child Growth and Development II	3
BKED 325	Infant and Toddler Curr. Development	3
BKED 330	Educational Assessment of Infants, Toddlers, and Preschoolers	3
BKED 335	Communication and Collab. in Schools and Communities	3
SPED 370	Positive Behavior Support	3
EDUC 210	PSI: Introduction to Education	3
EDUC 211	PSI: Field Experience	1
EDUC 250	Introduction to Reading	3
EDUC 310	PSII: Introduction to Spec. Ed. & Diverse Learners	3
EDUC 311	PSI!: Field Experience	P/F
BKED 420	Preschool Curriculum Development	3
BKED 454	Inclusive Preschool Environments	3
BKED 460	Issues and Trends in Early Childhood	3
BKED 475	Autism Spectrum & Related Behavior Disorders	3
SPED or ELEM	Elective	3

C. Professional Core Requirements		**27**
BKED 305	Early Childhood Literacy Dev.	3
BKED 340	Early Childhood Intervention	3
BKED 345	Exploration of Early Childhood Settings	3
BKED 455	Administration of Early Childhood Prog.	3
BKED 465	Community Agencies & Resources	3
BKED 491	Internship in Early Childhood	6
BKED 492	Internship in Community Agency	6
D. Concentration		**9**
HLTH 367	Health and First Aid	3
HLTH 369	Principles of Nutrition	3
BFIN 210 or ECON 201	Personal Financial Management or Principles of Economics I	3
Total Semester Hours Required for Degree:		**126**

Curriculum Guide for Majors in Birth through Kindergarten (BK) with Concentration in Child, Family, and Community

Freshman Year

First Semester

Course and number		**Semester hrs**
GE 102	English Composition and Grammar	3
MATH 121	Num. Syst. & Algebra	3
GE 122	Freshman Seminar	1
GE 152/L or GE 155/L	Principles of Phys. Science/Lab or Principles of Biol. Science/Lab	4
GE 140	World Civilization I	3
GE	Physical Education	1
		15

Second Semester

GE 103	English Composition and Vocabulary	3
MATH 122	Geometry and Data Analysis	3
GE 141	World Civilization II	3
GE 130 or GE 135	Art Appreciation or Music Literature	2
SPAN 101	Spanish I	3
SPCH 214	College Speech	2
		16

Sophomore Year

First Semester

Course and number		**Semester hrs**
EDUC 210	PS I: Introduction to Education	3
GE 201	World Literature I	3
EDUC 203	Intro to Computer Instruc. Tech	3
BKED 201	Intro to Birth-Kindergarten Educ.	1
GE 185	Health Concepts	2
BKED 301	Child Growth and Development I	3
GE	Physical Education	1
		16

Second Semester

BFIN 210 or ECON 201	Personal Financial Management or Principles of Economics I	3
EDUC 250	Introduction to Reading	3
HLTH 369	Principles of Nutrition	3
EDUC 310	PS II: Intro to Special Ed. & Diverse Learners	3
EDUC 311A*	Field Experience	P/F
BKED 302	Child Growth and Development II	3
EDUC 211	Field Experience	1
		16

Junior Year

First Semester

Course and number		**Semester hrs**
BKED 335	Comm. & Collaboration in Schools & Communities	3
SPED 370	Intro to Positive Behavior Support	3
BKED 325	Infant and Toddler Curriculum Development	3
BKED 330	Education Assessment of Infants, Toddlers, & Preschoolers	3
BKED 305	Early Childhood Literacy Development	3
HLTH 367	Health & First Aid	3
		18

Second Semester

GLBS 200	Introduction to Global Studies	3
BKED 340	Early Childhood Intervention	3
BKED 345	Exploration of Early Childhood Settings	3
SOC 202	Social Problems	3
BKED 420	Preschool Curriculum Development	3
SPED or ELEM	Elective	3
		18

Senior Year

First Semester

Course and number		**Semester hrs**
BKED 454	Inclusive Preschool Environments	3
BKED 475	Autism Spectrum and Related Behavior Disorders	3
BKED 455	Administration of Early Childhood Programs	3
BKED 491	Internship in Early Childhood	6
		15

Second Semester

BKED 465	Community Agencies and Resources	3
BKED 460	Issues and Trends in Early Childhood	3

	Education	
BKED 492	Internship in Community Agency	6
		12
Total Semester Hours Required for Degree		**126**

Elementary Education K-6

Overview

The Elementary Education Program offers professional education courses for students desiring to major in Elementary Education. This program prepares them to teach Kindergarten through sixth grade. The program bridges theory, course work, and practice through courses and carefully selected field experiences. A minimum of 124 semester hours is required to complete the program, and majors are required to select and complete an academic concentration. After successfully completing the program, completing an electronic portfolio, and meeting the required Pearson Testing scores, candidates will be eligible to apply for a North Carolina Elementary Education (K-6) teaching license.

Program Goals

The goals of the Elementary Education Program are:

- to prepare elementary teacher candidates to develop and implement meaningful instructional plans that meet the needs of diverse 21st Century learners;
- to assist candidates to develop the in-depth content knowledge needed to become effective teachers;
- to prepare candidates to utilize student data to inform instructional decision-making.

Objectives

The Program in Elementary Education is designed to ensure that:

- elementary grades teacher candidates have the knowledge and understanding of language and how language is used to develop effective communication in listening, speaking, viewing, reading, thinking, and writing;
- elementary grades teacher candidates have the knowledge and understanding of mathematical conventions and processes; skills relative to number sense, numeration, numerical operations, and algebraic thinking; spatial sense, measurement, and geometry; patterns, relationships, and functions; and data analysis, probability, and statistics;
- elementary grades teacher candidates have the knowledge and understanding of scientific inquiry, process skills, and concepts and applications relative to the life, physical, and earth sciences in order to be informed and productive citizens;
- elementary grades teacher candidates have the necessary knowledge for producing knowledgeable, global citizens who are critical thinkers in a democratic society;
- elementary grades teacher candidates have the knowledge and understanding of mental, emotional, physical, and social health to empower students to make healthy lifestyle choices;
- elementary grades teacher candidates integrate the arts throughout the curriculum.

MAJOR: B.S.Ed. Degree in Elementary Education K-6

A General Education Core*		**46**
B Specialty Area Course Requirements		**13**
EDUC 225	Exploration in Mathematics	3
EDUC 203	Intro to Computer Instructional Technology	3
EDUC 250	Introduction to Reading	3
SPED 370	Intro to Positive Behavior Support	3
PE	Student Selection	1
C Professional Core Courses		**48**
EDUC 210	Profess. Stud. I: Intro To Education	3
EDUC 211A	Field Experience	1
ELEM 300	Reading and Language Arts	3
ELEM 301	Reading and Language Arts Field	2
EDUC 350	Intermediate and Content Reading	3
EDUC 351A	Intermediate and Content Reading Field Ex.	2
EDUC 360	Prof St. III: Teaching and Assessment	3
ELEM 390	Soc. Studies Met. in the Incl. Class	3
ELEM 395	Science Meth in the Inclusive Class	3
ELEM 430	Math Meth. in the Inclusive Class	3
ELEM 431	Math Meth. Field Experience	2
EDUC 310	Prof. St. II: Special Ed & Diverse Learners	3
EDUC 311	Sp. & Diverse Learners Field Experience	P/F
EDUC 410	Prof. St. IV: Instruct. Meth. & Lead	3
EDUC 411	Prof. St. IV: Instruct. Meth & Lead Field Experience	2
EDUC 478	Seminar in Contemporary Issues	P/F
EDUC 433	Clinical Practice	12
D Academic Concentration Minimum		**18**
Total Minimum Hours Required for Degree.		***125***

Curriculum Guide for Majors in Elementary Education K-6

Freshman Year
First Semester

Course and number		***Semester hrs***
GE 102	English Comp. and Grammar	3
GE 122	Freshman Seminar	1
GE 140	World Civilizations I	3
GE 152/L or GE 158/L	Principles of Physical Science/Lab or Earth Science/Lab	4
MATH 121	Number Sense and Algebra	3
GE	Fine Arts/Communication	2
GE	Physical Education	1

		17

Second Semester

GE 103	English Comp. and Vocabulary	3
MATH 122	Geo and Data Analysis	3
GE 141	World Civilizations II	3
EDUC 210	PSI: Intro to Education	3
SPCH 214	College Speech	2
GE 185	Health Concepts	2
		16

Sophomore Year
First Semester

Course and number		***Semester hrs***
GE 201	World Literature I	3
GE 155/L	Biology	4
EDUC 203	Intro. to Comp. Inst. Tech	3
EDUC 225	Explorations in Mathematics	3
EDUC 211A	PSI: Intro to Education Field Experience	1
		14

Second Semester

EDUC 250	Introduction to Reading	3
SPAN 101	Spanish I	3
PE	Student Select	1
PSY 212	General Psychology	3
GE 142	Intro to Geography	3
	Academic Concentration	3
		16

Junior Year
First Semester

Course and number		**Semester hrs**
ELEM 300	Reading and Language Arts	3
ELEM 301	Reading and Language Arts Field Experience for PK-6 (30)	2
EDUC 310	PS II: Special Ed & Div. Learners	3
EDUC 311	PSII: Special Ed and Diverse Learners Field Experience	P/F
EDUC 360	PS III: Teaching & Assessment	3
	*Academic Concentration	6
		17

Second Semester

EDUC 350	Intermediate & Content Reading	3
EDUC 351A	Inter. & Content Reading Field Experience for PK-6	2
ELEM 390	Social Studies Methods in the Inclusive Classroom (30)	3
ELEM 395	Science Meth. in the inclusive Class	3
SPED 370	Introduction to Positive Behavior	3
	Academic Concentration	3
		17

Senior Year
First Semester

EDUC 410	PS IV: Instructional Methods	3
EDUC 411	PS IV: Instructional Methods Field Experience	2
ELEM 430	Mathematics Methods in the Inclusive Classroom	3
ELEM 431	Mathematics Methods in the Inclusive Classroom Field Experience (30)	2
	Academic Concentration	6
		16

Second Semester

EDUC 433	Obser. & Supervised Student Teaching	12
EDUC 478	Seminar in Cont. Educ. Issues	P/F
		12

Total Requirements for the Degree.	**125**

Note: Total of at least 18 semester hours required for Academic Concentration.

Electives for Praxis Core Preparation:

** EDUC 160- Pre-Professional Studies I: Reading (2 credit hours)*

** EDUC 170- Pre-Professional Studies II: Mathematics (2 credit hours)*

** EDUC 180- Pre-Professional Studies III: Writing (2 credit hours)*

Licensure-Only Students Elementary Education K-6
Transcript will be required for review.

A. Specialty Area Course Requirements		**10**
SPED 370	Intro. to Positive Behavior Support	3
PE	Any PE course	1
EDUC 203	Intro. to Instructional Technology	3
EDUC 250	Introduction to Reading	3
B. Professional Core Courses		**48**
EDUC 210	Prof. St. I: Intro to Education	3
EDUC 211A	Intro to Education Field Experience	1
ELEM 300	Reading and Language Arts	3
ELEM 301	Reading & Language Arts Field Experience	2
EDUC 310	Prof. St. II: Spec. Ed & Div. Learners	3
EDUC 311	Special & Diverse Learners Field Ex.	P/F
EDUC 350	Intermediate and Content Reading	3
EDUC 351A	Intermediate & Contend Reading Field Ex.	2
EDUC 360	Prof. St. III: Teaching & Assessment	3
EDUC 410	Prof. St. IV: Instruct. Meth.	3
EDUC 411	Prof. St. IV: Instruct. Meth Field Ex.	2
EDUC 433	Obser.& Supervised Student Teaching	12
EDUC 478	Seminar in Contemp. Educ Issues	P/F
ELEM 390	Soc. Stud. Meth. in the Inclusive Class	3
ELEM 395	Science Meth. in the Inclusive Class	3
ELEM 430	Math Meth. in the Inclusive Class	3
ELEM 431	Math Meth. in the Inclusive Class Field Experience	2
Total Semester Hours Required for Licensure		**58**

Lateral Entry/Licensure-Only Students, Elementary Education K-6 Curriculum Guide

A. Professional Core Courses		**33**
EDUC 210	Prof. St. I: Intro to Education	3
EDUC 310	Prof. St. II: Spec. Ed & Div. Learners	3
EDUC 311A	Sped. Ed. & Div. Learners Field Experience	P/F
EDUC 350	Intermediate and Content Reading	3
EDUC 351A	Intermediate and Content Reading Field Experience	2
EDUC 360	Prof. St. III: Teaching and Assessment	3
EDUC 410	Prof. St. IV: Instruct. Meth.	3
EDUC 411	Instruc. Meth. Field Experience	2
ELEM 300	Reading and Language Arts	3
ELEM 301	Reading and Lang. Arts Field Experience	2
ELEM 390	Soc. Stud. Meth. in the Inclusive Class	3
ELEM 395	Science Meth. in the Inclusive Class	3
ELEM 430	Math Meth. in the Inclusive Class	3
ELEM 431	Math Field Experience	2
B. Specialty Area Course Requirements		**7**
EDUC 203	Intro. to Instructional Technology	3

PE	Student Select	1
EDUC 250	Introduction to Reading	3
Total Semester Hours Required for Licensure		**40**

Academic Concentration

Required Courses for Academic Concentration: Elementary

Listed below are the academic concentration courses from which elementary education candidates shall select a minimum of 18 credit hours:

General Science

GE 158/L	Prin of Geol. Science/Lab	4
ENSC 101/L	Gen. Environ.l Science/Lab	4
CHEM 101/L	General Chemistry/Lab	4
CHEM 102/L	General Chemistry II/Lab	4
BIOL 220/L	General Zoology/Lab	4
BIOL 350	Intro. To experimental meth.	2

Mathematics

GE 115	College Algebra	3
GE 118	Pre-Calculus	3
STAT 251	Basic Statistics	3
MATH 275	Foundations of Mathematics	2
MATH 350	Number Theory	3
MATH 353	College Geometry I	3

Music

MUS 103	Aural Skills I	1
MUS 104	Aural Skills II	1
MUS 108	Music Theory I	2
MUS 109	Music Theory II	2
MUS 203	Aural Skills III	1
MUS 208	Music Theory III	2
MUS 305	** Music History I	3
MUS 306	Music History II	3
MUS 338	Conducting	1
MUSA	Principal Instrument Instr.	4
MUS	Ensemble	2

Psychology

PSY 212	General Psychology	3
PSY 220	Basic Research Skills	3
PSY 250	Developmental Psychology	3
PSY 300	Statistics and Research Design	3
PSY 311	Psycho. Tests & Measurements.	3
PSY 350	Experimental Psychology	3
PSY 400	Sensation & Perception	3
PSY 450	Learning & Cognition	3

Social Sciences

HIST 200	Introduction to History	3
HIST 251	African-American History II	3
HIST 255	American History to 1877	3
ECON 201	Principles of Economics	3
HIST 376 POLS 299	History of North Carolina or State and Local Gov.	3
GE 142	Intro. to Geography	3

Professional Education Sequence Minor in Secondary Education

A Core Requirement		**29**
EDUC 210	Prof. St. I: Intro to Education	3
EDUC 211B	Field Experience	2
EDUC 310	Prof. St. II: Special Ed & Div. Learners	3
EDUC 311	Special & Div. Learners Field Experience	P/F
EDUC 360	Prof. St. III: Teaching & Assessment	3
EDUC	Prof. St. IV: Secondary Methods	3
EDUC 350	Content and Intermediate Reading	3
EDUC 351B	Content & Interm. Reading Field Ex.	P/F
EDUC	Observation and Supervised Student Teaching in the Academic Discipline	12
EDUC 478	Sem. in Contemp. Educ. Issues	P/F
Total Semester Hours Required for Minor		**29**

MINOR: Secondary Education

A Core Requirement		**29**
EDUC 210	Prof. St. I: Intro to Education	3
EDUC 211B	Field Experience	2
EDUC 310	Prof. St. II: Special Ed & Div. Learners	3
EDUC 311	Field Experience	P/F
EDUC 360	Prof. St. III: Teaching & Assessment	3
EDUC	Prof. St. IV: Secondary Methods	3
EDUC 350	Content and Intermediate Reading	3
EDUC 351B	Content and Interm. Reading Field Ex.	P/F
EDUC	Observation and Supervised Teaching in the Academic Discipline.	12
EDUC 478	Sem. in Contemp. Educ. Issues	P/F
Total Semester Hours Required for Minor		**29**

Office of Teacher Education

Teacher Education Programs are aligned with a conceptual framework and with national and state accreditation standards. Clinical experiences are incorporated throughout the program.

Teacher Education Program Licensure

Teacher Education Programs are aligned with a conceptual framework and with national and state accreditation standards. Clinical experiences are incorporated throughout the program.

Conceptual Framework 21st Century Professional Educator

The conceptual framework adopted by Elizabeth City State University's professional education program, *21st Century Professional Educator*, describes the vision and purpose of the Dr. Helen Marshall Caldwell Department of Education, Psychology and Health in preparing educators to work in P-12 schools. Consistent with the institution's mission, the Department's focus is to prepare educators to be global competitors, advocators for diversity, healthy and responsible citizens, critical thinkers and innovators, embEd.D.ed technology users and effective communicators and collaborators who are capable of meeting the diverse needs of all learners. Supported by a strong knowledge base, the conceptual framework provides a system for ensuring coherence and a well-articulated professional commitment to student knowledge of content, teaching effectiveness,

leadership, and learning. This coherence is reflected in the curriculum, instruction, and clinical experiences to develop the knowledge, skills, and dispositions that are valued in the professional educator. The conceptual framework is designed as the guiding force for program implementation, assessment, evaluation, and effectiveness.

Institution Goals for Teacher Education at ECSU

The Teacher Education Program has a long-range plan which is monitored regularly. Major emphasis is on: (1) providing students with a rich educational experience and an opportunity to be effective teachers in 21st century classrooms, (2) increasing the number and diversity of candidates, (3) providing greater collaboration with public schools, and (4) developing new and/or expanded programs at the undergraduate and graduate levels employing technology as a tool to enhance the educational environment. Additionally, specific long-range plans are presented in the SACS and CAEP reports for the Teacher Education Program.

Admission into the Teacher Education Program

Admission into the Teacher Education Program is open to both degree-seeking students and post-baccalaureate, non-degree (Lateral Entry/Licensure-Only) students who meet the requirements established by the University and the individual program in which they are seeking certification.

Initial Admission to the Program

According to the criteria established by the Teacher Education Advisory Council, to be eligible for admission to the Teacher Education Program a student must:

- complete the application to the Teacher Education Program;
- meet with the advisor;
- have successfully completed a criminal background check in Certified Background.com and have a satisfactory record;
- have taken and successfully completed:
  - EDUC 210 Professional Studies I: Introduction to Education
  - EDUC 211A: Introduction to Education Field Experience (15 hours);
  - have taken and successfully completed:
    - undergraduate GPA of at least 2.80;
    - interview;
    - writing sample; and
    - adhere to the SAT/ACT Guidelines and the Praxis Core Academic Skills for Educators receiving the accepted score specified by the Department of Public Instruction.

Each student who applies for admission to the Teacher Education Program will be given written notification regarding admission or denial of admission. A student is not considered admitted to the Teacher Education Program until such notification is provided.

Retention in Program

To remain in the Teacher Education Program the student must:

- maintain a cumulative grade point average of 2.80 or above in both the professional courses and the specialty area;
- attend the Education Majors Meetings;
- meet with Advisor(s) each semester;
- follow the curriculum guides for (1) an education major/minor and, if appropriate, (2) the chosen academic concentration; and
- maintain compliance with all other academic and dispositional requirements.

A student who fails to maintain the requirements stated above becomes inactive in the Teacher Education Program and may not continue as a Prospective Teacher until he or she applies to and is accepted for reinstatement in the Program.

Prerequisites for Student Teaching

In order to qualify for student teaching, a student must:

- be admitted into the Teacher Education Program;
- must be in the final semester at the University;
- have a minimum overall cumulative grade point average of 2.80 on a scale of 4.0;
- complete all General Education courses and all required education courses except student teaching;
- submit an application for student teaching one to two semesters prior to the student teaching semester on or before dates announced by the Office of Teacher Education;
- remove all deficiencies, if any, by the established deadline; and
- meet the established criteria for all Electronic Evidences.

Requirements for Exit

Each student must satisfy the following requirements to complete the Teacher Education Program:

A. Complete remaining major and professional courses, including student teaching, while maintaining a cumulative grade point average of at least 2.80.
B. Attend all student teaching seminars as scheduled.
C. Complete and submit all student teaching forms.
D. Complete Exit Interview and survey.
E. Complete the Taskstream Portfolio with an overall assessment of Acceptable.

Electronic Portfolio Requirements

The Teacher Education Program requires that candidates use Taskstream to create and submit projects and assignments electronically.

As prospective teachers, students are required to develop an Electronic Portfolio that will demonstrate their growth in professional competencies and that will provide them with opportunities to self-assess and reflect upon their own work. All degree-seeking education majors will receive a 3-year subscription to Taskstream at no cost. All other candidates, including licensure-only/lateral entry students, must purchase Taskstream.

Electronic Evidences Overview:
The North Carolina Department of Public Instruction (NCDPI) has determined that all teacher education programs in the state must move from an input-based model (what we teach) to an outcomes-based model (what students have demonstrated they can do). As part of this shift in focus, the ECSU Teacher Education Program now requires that each candidate in every program submit six pieces of electronic evidences (EEs). Evidences must meet four broad competency areas: content knowledge, pedagogical knowledge, positive impact on student learning, and leadership.

Requirements for Licensure

Those who complete the program and want to be initially-licensed must have completed and have on file in the Office of Teacher Education the following forms:

Form A - Application for NC Teaching License;

a. Official Transcript(s);
b. Passing Praxis II/Pearson Testing Scores;
c. Satisfactory completion of all electronic evidences;
d. Certification of teaching capacity form;
e. The fee required by the North Carolina Department of Public Instruction for issuance of a teaching license. Fee must be in the form of a certified check, money order, or a credit card payment authorization.

Licensure Only or Renewal

Candidates are: (a) Students who hold a bachelor's degree and wish to become licensed in their current discipline area or another area, (b) licensed teachers from other states seeking North Carolina licensure, and (c) teachers seeking license renewal. Candidates should meet with the Director of Teacher Education or the Coordinator of Alternative Licensure for an evaluation of their present college credits and to create an individualized plan of study.

Candidates for admission to the Teacher Education Program who already hold a baccalaureate degree are exempt and are not required by the State Board of Education to take and pass PRAXIS Core. However, the Teacher Education Program will require alternative evidence of demonstrated competencies.

Curriculum Center

The Curriculum Center provides a wide variety of books and instructional materials at levels ranging from pre-primer through high school. Included are selected textbook series and supplementary materials for children and youth. Materials for lesson plans, unit development, exercises, testing, instructional aids, and teaching strategies are also available. Also included are reference books pertaining to children's literature, instructional media, posters, art prints, recordings, and manipulatives for hands-on experiences.

Instructional Technology Computer Lab

The Instructional Technology Computer Lab is designed to provide up-to-date technology for teacher candidates and faculty.

Office of School Services

University-Schools Teacher Education Partnership (U-STEP)

U-STEP is designed to unite the teacher education program and the public school system. In this collaboration, ECSU and the public school systems work together to prepare university students to become skilled teachers. The partnership focuses on the mutual goal of quality teaching to foster learning and research in schools.

YEAR-LONG CLINICAL PRACTICE

Field experiences in Elizabeth City State University's Teacher Education Program are systematically planned to involve students in increasingly real teaching experiences. Students begin in EDUC 210 Professional Studies I: Introduction to Education and EDUC 211A: Introduction to Education Field Experience, completing 15 hours, and students continue this process for each methods course. The field experience required for all methods courses is the basis for the time in the field during the first semester prior to candidates' student teaching (clinical practice) experiences.

During the first semester, students complete required field experiences. Their hours will vary based on the course(s) in which they are enrolled during the semester. Hours may range from 20 to 60. During the second semester of the candidates' senior year, they will complete 14 weeks of observation and teaching with the cooperating teacher as mentor. Candidates will develop a portfolio using Taskstream, keeping a daily reflective journal and/or videotaping conferences to use as tools for analysis and professional development. Each candidate's performance will be assessed using a rubric, observation, reflection, and feeD.B.A.ck practices.

ECSU Teacher Preparation Partnership Program

Elizabeth City State University is committed to partnerships that have been established with Halifax Community College (Weldon, NC) and College of The Albemarle (Elizabeth City and Manteo, NC) that are within ECSU's service region. This collaborative initiative produces "homegrown" teachers to meet the demand for teachers in North Carolina. ECSU has established seamless articulation agreements with these community colleges for programs of study in elementary education. Additional partnerships have been established through Martin Community College (Williamston, NC) and Roanoke- Chowan Community College (Ahoskie, NC). ECSU has also established the Lateral Entry Certificate Program Articulation Agreement between College of The Albemarle, Halifax Community College, Martin Community College, and Roanoke-Chowan Community College for prospective lateral entry education students. Once partnership students have transitioned to ECSU, they are provided with a set of curriculum guides and a 2 + 2 student handbook listing guidelines and services which ECSU provides. ECSU's courses are taught on-line, face-to-face (evenings/weekends), and hybrid at HCC-Weldon, NC, and COA-Manteo, NC, during Fall, Spring, and Summer semesters.

College of The Albemarle

The school districts in the county service area (Camden, Chowan, Currituck, Dare, Gates, Pasquotank, and Perquimans) have joined forces with COA and ECSU to ensure that teacher assistants and prospective education students attending College of The Albemarle during their freshman and sophomore years in the Associate in Arts 2+2 Elementary Education Program follow the COA/ECSU Articulation Agreement for Elementary Education. COA students may also elect to follow the COA/ECSU Articulation Agreement for Early Childhood Education/Birth Through Kindergarten. COA students may also elect to follow the COA/ECSU Articulation Agreements for Early Childhood Education/Birth Through Kindergarten and Middle Grades Education (Mathematics Concentration/Science Specialization).

Psychology

Overview

The study of psychology provides knowledge regarding the causes of behavior and psychological methods of investigation. A background in psychology promotes within an individual a sense of competence and efficiency through a better understanding of development, learning, cognition, and emotion. Therefore, a fundamental effort in the Department of Psychology is to impart to students a thorough knowledge of the practical, scientific, and theoretical/philosophical factors associated with the study of human behavior. The department offers a major, a minor; and an academic concentration (Teacher Education Majors) in Psychology.

Mission & Objectives

In concert with the overall mission of Elizabeth City State University, the Psychology program endeavors to develop in undergraduate students a better understanding of the social, biological, and environmental factors that impact the human experience from a global, overall perspective. Students are presented the opportunity to prepare for graduate study in psychology, marketing, law enforcement, and education. The department's objectives can be translated into specific purposes/goals relevant to obtaining the Bachelor of Science Degree in Psychology at ECSU. These objectives are as follows:

- to enhance student ability to think critically and quantitatively;
- to provide relevant and rigorous academic coursework, the successful completion of which results in a Bachelor of Science degree;
- to provide students with the knowledge, skills, and academic preparation necessary for the pursuit of advanced degrees in graduate and professional schools, thereby facilitating viable employment opportunities; and
- to provide students with a broad understanding of the types of problems in local, national, and international communities which can be addressed via the application of knowledge obtained from a study of psychology.

Psychology Degree Program

The degree of Bachelor of Science with a major in psychology shall be conferred upon students who complete major requirements as indicated in the curriculum plan for those majoring in psychology. It should be noted that both the Major and the Minor (for majors in any discipline) are offered in psychology. Each student pursuing the Psychology major is encouraged to declare a minor (any field other than Psychology) as the first-time seeker of the baccalaureate degree.

In applying for Major or Minor status, the student must evidence an overall GPA of 2.25 or better and must have earned grades of "C" or better in the courses identified as "Psychology" (PSY) courses. Earning grades of "C" or better in Psychology (PSY) courses is a requirement for graduation. Failure to maintain the required GPA will result in the student being placed on probationary status as a Major/Minor in Psychology until the necessary GPA is achieved. The appropriate course sequence along with curriculum-guide summaries appear below.

The Department also offers an "Academic Concentration in Psychology" as a complement to the Teacher Education Program.

MAJOR: Bachelor of Science Degree in Psychology

A. General Education Core		**47**
B. Major Core Requirements		**39**
1. Core Courses		**30**
*PSY 220	Basic Research Skills	3
*PSY 250	Developmental Psychology	3
*PSY 300	Statistics & Research Design	3
PSY 311	Psychological Tests & Measurement	3
PSY 330	Psychology of Personality	3
*PSY 350	Experimental Psychology	3
PSY 360	Abnormal Psychology	3
PSY 400	Sensation & Perception	3
*PSY 450	Learning & Cognition	3
PSY 490	Senior Seminar in Psychology	3

**Indicates minor core requirements*

2. Restricted Electives: (Select three courses)**		**9**
PSY 295	Topics in Psychology	3
PSY 340	Psychology of Cultural Diversity	3
PSY 370	Physiological Psychology	3
PSY 407	Community Psychology	3
PSY 480	Internship in Psychology	3

***Select two for minor*

C. Related Area Course Requirements		**16**
SOC 204	Introduction to Anthropology	3
SOC 360	Social Psychology	3
BIOL 101/L	General Biology I/Lab	4
	Foreign Language (consecutive courses)	6
D. Minor/Electives		**22**
Total Semester Hours Required for Degree (Major)		**124**
Total Semester Hours Required for Minor in Psychology		**21**
Total Semester Hours for Academic Concentration (Psychology)		**18**

Major in Psychology: Thirty-nine semester hours, twenty-one of which must be of junior and senior level, including Psychology 212, 220, 250, 300, 330, 350, 360, 400, 450, 490.

Minor in Psychology: Twenty-one semester hours required, including Psychology 220, 250, 300, 311, 350, 400, 450.

Academic Concentration in Psychology: Eighteen semester

hours required: Psychology 212, 220, 250, 300, 311, 350, 400, 450, 490.

Elective Courses: Psychology 251, 260, 295, 340, 370, 380, 407, 410, 420, 480.

NOTE: Psychology 212 (General Psychology) occurs as a prerequisite to all other courses in psychology.

Curriculum Guide for Majors in Psychology

Freshman Year

First Semester

Course and number		Semester hrs
GE 102	Comp. & Grammar	3
GE 115	College Algebra	3
GE 122	Freshman Seminar	1
GE	Fine Arts/Commun.	2
GE 140	World Civilization I	3
GE 111	Intro. to Computing	3
GE	Physical Education	1
		16

Second Semester

GE 103	Comp. & Vocabulary	3
GE	Fine Arts/Commun.	2
GE 141	World Civilization II	3
GE 155/L	Prin. Biol. Sci. /Lab	4
GE 185	Health Concepts	2
PSY 212	General Psychology	3
		17

Sophomore Year

First Semester

Course and number		Semester hrs
GE 201	World Literature I	3
GE	Physical Education Activity	1
BIOL 101/L	Gen. Bio. I /Lab	4
PSY 220	Basic Research Skills	3
PSY 250	Developmental Psy.	3
	Foreign Language I	3
		17

Second Semester

GE 152/L	Prin. of Phys. Sci./Lab	4
GE 202	World Literature II	3
SOC 201	Intro. to Sociology	3
PSY 300	Statistics & Res. Design	3
	Foreign Language II	3
		16

Junior Year

First Semester

Course and number		Semester hrs
PSY 311	Psychol. Tests & Meas	3
PSY 330	Psy. of Personality	3
PSY	Restricted Elective	3
SOC 204	Intro. to Anthropology	3
	Minor/Elective	4
		16

Second Semester

PSY 360	Abnormal Psychology	3
SOC 360	Social Psychology	3
PSY 350	Experimental Psychology	3
	Minor/Elective	6
		15

Senior Year

First Semester

Course and number		Semester hrs
PSY 400	Sensation & Perception	3
PSY	Restricted Electives	6
	Minor/Elective	6
		15

Second Semester

PSY 450	Learning & Cognition	3
PSY 490	Senior Seminar in Psy	3
	Minor/Elective	6
		12

PHYSICAL EDUCATION AND HEALTH

Overview

To provide an environment in which students can pursue excellence through a program of professional coursework, practical experiences, and professional interactions that will provide a foundation for careers in Physical Education: Teaching, Sport Science, Aquatics and Fitness and Sport Management: Sport Marketing and Promotion, Management and Administration and Sport Communication.

Goals of Physical Education and Health:

1) foster a nurturing and encouraging learning environment that will allow students to build confidence in themselves as emerging professionals;

2) prepare students for entry into graduate school programs;

3) offer a curriculum that will allow students to be exposed to 21st Century classroom technology;

4) offer a curriculum that will expose students to challenging field work experience;

5) develop partnerships with community schools, agencies and organizations;

6) attract, recruit, and retain a diverse and capable group of students; and

7) offer an inviting and professional environment in the Department of Physical Education and Health.

Physical Education and Health offers professional preparation programs for majors and a health and physical activity program for non-majors to fulfill general education course requirements. The Department offers the following programs and concentrations:

Programs:

1. Physical Education and Health
   Concentrations:
   a. Physical Education Teaching
   b. Sport Science
   c. Aquatics and Fitness
2. Sport Management
   Concentrations:
   a. Management and Administration
   b. Marketing and Promotion
   c. Sport Communication

Physical Education and Health Teaching (PET)

Majors who are seeking a Bachelor of Science degree in Physical Education Teaching will experience challenging course work and field experiences, including student teaching. Majors can receive certification in physical education teaching K-12 by completing all requirements in the Department of Education. A cumulative grade point average (2.5 prior to Fall 2014; 2.65 Fall 2014-2015; 2.8 Fall 2015) must be maintained by Physical Education Teaching majors. The Department of Health and Physical Education also offers a competitive curriculum in Physical Education Teaching Licensure-Only, for those individuals who have already earned a bachelor's degree.

Sport Science

The Sport Science concentration provides undergraduate training for students desiring to enroll in a graduate entry level program in the health care field; namely, Physical or Occupational Therapy, Sports Medicine, or Chiropractic Medicine. Successful admission will be contingent upon satisfying other admission criteria such as graduate record exam scores and professional references. Students must complete an internship prior to graduation.

Aquatics and Fitness

The Aquatics and Fitness concentration prepares students for career and employment opportunities while working toward their degree or for a professional career path in Aquatics and Fitness. The Aquatics and Fitness concentration provides basic preparation in the area, including 15 hours of challenging course work in the following areas: swimming skills, aquatics instruction, fitness management, first aid skills and techniques, and aquatics management. Students must complete an internship prior to graduation.

Sport Management

The Sport Management program allows students to pursue a broad core program with three areas of concentration: Sport Marketing and Promotions, Sport Management and Administration, and Sport Communication. The curriculum offers interdisciplinary courses in the Department of Physical Education, the Walter R. Davis School of Business and Economics, and the Department of Language, Literature, and Communication. Students must complete an internship prior to graduation.

Physical Education and Health Majors Club

All majors are required to become members of the Physical Education and Health Majors Club. The Physical Education and Health Majors Club of Elizabeth City State University exists to provide all students majoring in Physical Education and Health, regardless of social, racial, cultural, and political relationships, with an organization to foster the open exchange of ideas, an atmosphere of service to both the community and the University, and provide its members with experiences that will help them discover new information about their field that will prepare them to become productive and proactive professionals.

Students must obtain a minimum grade of "C" in all Major Core Requirements.

MAJOR: B.S. in Physical Education (Teaching)

A * General Education		**47**
B. Specialty Area Requirement		**52**
PE 239	Introduction to Physical Education	2
PE 240	Team Sports	1
PE 241	Individual and Dual Sports	1
PE 300	Exercise and Physiology	3
PE 307	Teaching Lifetime Leisure Pursuits	1
PE 370	Kinesiology	3
PE 382	Curriculum Assessment	3
PE 416	Advanced Kinesiology and Biomechanics	3
PE 470	Adapted Physical Education	3
HLTH 367	First Aid, CPR, and Safety and	3
HLTH 369	Principles of Nutrition	3
HLTH 373	Heath in the Elementary School	3
HLTH 463	Human Sexuality	3
HLTH 465	Drug Education	3
PHS 110	Introduction to Public Health	3
PHS 210	Community Health, Safety, and Disease	3
PHS	Public Health Field Experience Elective 420, 421,422,423,424, or 425	3
C. Professional Education Courses 29		**29**
EDUC 210	Professional Studies I: Intro. to Education	3
EDUC 211	Early Field Experience A or B	P/F
EDUC 310**	Prof. Studies II: Special Education & Diverse Learners	3
EDUC 311**	Field Experience	P/F
EDUC 350**	Intermediate & Content Reading	3
EDUC 351B**	Field Experience	P/F
EDUC 360**	Professional Studies III: Teaching & Assessment	3
EDUC 440	Methods and Materials in Physical Education	3
EDUC 441**	Clinical Practice for PK-5 Majors	1
EDUC 442**	Clinical Practice for 6-12 Majors	1
EDUC 470	Student Teaching	12
EDUC 478	Seminar in Contemporary Educational Issues	P/F
Total Hours Required for Degree		**128**

** Any required GE courses in Physical Education may be used to satisfy the Physical Education Requirements in General Education.*

*** Indicate professional educational courses required.*

Curriculum Guide for Majors in Teaching Physical Education

Freshman Year
First Semester

Course and number		Semester hrs
PE 210/L	Applied Anatomy	4
MATH 121	Number System & Algebra	3
GE 102	Composition & Grammar	3
GE 122T	Freshman Seminar	1
GE 140	World Civilization I	3
GE	Fine Arts/Comm. Elective	2
		16

Second Semester

GE 103	English Comp. & Vocab.	3
GE	Fine Arts & Comm.	2
GE 115	College Algebra	3
GE 141	World Civilization II	3
GE	Activity Requirement	1
	Social & Behavior Science Elective	3
GE 185	Health Concepts	2
		17

Sophomore Year
First Semester

Course and number		Semester hrs
PE 307	Teaching Lifetime Leisure Pursuits	1
PE 210/L	Applied Anatomy	4
GE	Social and Behavioral Science	3
EDUC 210	Prof. Studies I: Intro. to Education	3
PE 241	Individual Sports	1
GE 201	World Literature I	3
PE 239	Intro. to PE	2
		17

Second Semester

EDUC 211A/B	Field Experience	P/F
GE	World Lit & Language Elective	3
PE 216	Elementary Physical Education	3
PE 307	Teaching Lifetime Leisure Pursuits	2
HLTH 369	Principles of Nutrition	3
HLTH 373	Health in the Elementary School	3
EDUC 203	Into. to Instructional Technology	3
		17

Junior Year
First Semester

Course and number		Semester hrs
PE 370	Kinesiology	3
PHS 110	Introduction to Public Health	3
PE 382	Curriculum & Assessment	3
EDUC 310	Prof. Studies II: Special Ed & Diverse Learners	3
EDUC 311 A/B	Field Experience	P/F
PE 316	Teaching Fitness Education	3
GE	Activity Requirement	1
		16

Second Semester

EDUC 350	Intermediate and Content Reading	3
EDUC 351	Field Experience	P/F
PHS 210	Community Health, Safety, and Disease	3
PE 470	Adaptive Physical Education	3
PE 416	Advanced Kinesiology & Biomech.	3

HLTH 463	Human Sexuality	3
HLTH 465	Drug Education	3
		18

Senior Year
First Semester

Course and number		Semester hrs
HLTH 367	First Aid, CPR, and Safety	3
EDUC 440**	Methods/Materials in Physical Education	3
EDUC 441**	Clinical Practice for PK-5 Majors	1
EDUC 442**	Clinical Practice II for 6-12 Majors	1
EDUC 360**	Prof. Studies III: Teaching & Assessment	3
PHS	Public Health Field Exp. Elective	3
		14

Second Semester

HLTH 465	Drug Education	3
PESM 312	Legal Issues of Sport/Rec	3
PESM 411	Facilities Management	3
PHS 110	Introduction to Public Health	3
PHS 210	Community Health, Safety, and Disease	3

Total Semester Hours Required for Degree **128**

** Indicate the required core courses.

Note: Developmental Courses required for students who have not passed TEP entry exam.

To assist in meeting test score requirements for admittance to Teacher Education, students may take the following electives:
** EDUC 160-Pre-Professional Studies I: Reading (2 credit hours)*
** EDUC 170-Pre-Professional Studies II: Mathematics (2 credit hours)*
** EDUC 180-Pre-Professional Studies III: Writing (2 credit hours)*
To assist in meeting portfolio requirements for graduation and licensure, students may take the following elective:

MAJOR: B.S. in Physical Education Fitness and Wellness Option

A. General Education		**48**
B. Specialty Area Requirements		**55**
PE 209	Water Aerobics	2
PE 240	Team Sports	2
PE 241	Individual & Dual Sports	2
PE 300	Exercise Physiology	3
PE 368	Prevention and Care	2
PE 370	Kinesiology	3
PE 375	Management of Phy. Educ. & Athletic Programs	3
PE 382	Curriculum and Assessment	3
PE 383	Aquatics & Fitness	3
PE 388	Lifesaving	3
PE 389	Water Safety	2
PE 401	Motor Skill/Motion behavior	3
PE 447/L	Exercise Prescription & Testing/Lab	4
PE 470	Adaptive Physical Education	3
PE 478	Swimming Pool MGT	3
PE 499	Aquatic & Fitness Internship	8
C. Concentration in Aquatics & Fitness		**16**
PE 210/L	Applied Anatomy & Physiology	4
PE 368	Prevention & Care	2
HLTH 367	First Aid, CPR & Safety	2
PSY 369	Principles of Nutrition	3

Total Semester Hours
128

Department Requirements

ARC Certified First Aid or HLTH 367 WSI (Water Safety Instructor) or PE 389 Swimming Pool Management

Curriculum Guide for Majors in Physical Education Aquatics & Fitness

Freshman Year
First Semester

Course and number		Semester hrs
HLTH 465	Drug Education	3
PE 416	Advanced Kinesiology	3
PE 447	Prescriptive Exercise Testing	3
PE 447L	Prescriptive Exercise Testing Lab	1
spePE 470	Adapted Physical Education	3
PE 471	Pro Seminar in Hlth Care	3
		16

Second Semester

GE 130	Art Appreciation.	2
GE 103	English Comp. & Vocabulary	3
GE 141	World Civilization II	3
GE 118	Pre-calculus	3
GE 185	Health Concepts	2
GE 135	Intro to Music	2
GE 173	Swimming I	1
		16

Sophomore Year
First Semester

Course and number		Semester hrs
PSY 212	General Psychology	3
GE 174	Swimming II	1
GE 201	World Lit. I	3
PE 208	Step Aerobics.	2
PE 239	Introduction to Physical Ed.	2
PE 240	Team Sport	2
PE 209	Water Aerobics	2
CR 202	Intramural Sports	2
		17

Second Semester

GE 142	Intro to Geography	3
GE 175	Intermediate Swimming I	1
GE 152/L	Prin. of Physical Science/Lab	4
GE 202	World Lit. II.	3
PE 210/L	Applied Anatomy and Physiology	4
PE 368	Prevention & Care of Athletic Injury	2
		17

Junior Year
First Semester

Course and number		Semester hrs
HLTH 369	Principles of Nutrition	3

PSY 309	Educational Psychology	3
PE 303	Fitness Thru Weight Training	2
PE 382	Curriculum &. Assessment	3
PE 388	Life Saving.	3
GE 186	Exercise & Hlth Related Fitness	1
PE 370	Kinesiology	3
		18

Second Semester

PE 300	Exercise Physiology	3
PE 363	Group Games & Rhythms	1
PE 375	The Mgmt of Athletics & Phy. Ed	3
PE 383	Aquatic & Fitness	3
PE 389	Water Safety	2
PE 447	Prescriptive Exercise Testing	3
PE 447L	Prescriptive Exercise Testing Lab	1
		16

Senior Year
First Semester

Course and number		Semester hrs
HLTH 460	Contemporary Health Service	2
PE 401	Motor Learning & Motor Behavior	3
PE 445	Hist. & Principles of Physical Educ	3
PE 470	Adapted Physical Education	3
PE 478	Swimming Pool/MGT	3
		14

Second Semester

PE 499	Aquatic/Fitness Internship	8
		8
Total Hours		**124**

Departmental Requirements

ARC Certified First Aid or HLTH 367 WSI (Water Safety Instructor) or PE 389 (Swimming Pool Management)

MAJOR: B.S. in Sport Management with a Concentration in Management and Administration

A. General Education		**46**
B. Specialty Area Requirement		**41**
PESM 110	Introduction to Sport Management	3
PESM 210	Introduction to Sport Sociology	3
PESM 211	Introduction to Sport Psychology	3
PESM 300	Sport Finance	3
PESM 310	Sport Management Practicum	3
PESM 311	Sport Marketing and Promotion	3
PESM 312	Legal Issues of Sport/Rec	3
PESM 313	Governance in Sport	3
PESM 410	Organization and Management	3
PESM 411	Facilities Management	3
PESM 415	Sport Sponsorship	3
PESM 416	Sport Management Internship	8
C. Professional Education Courses		**30**
BUAD 115	Intro to Business	3
ECON 201	Principles of Economics I	3
ECON 202	Principles of Economics II	3
ECON 260	Business/Economics Statistics	3
MNGT 221	Principles of Management	3
MNGT 321	Human Resources Management	3
MRKT 231	Principles of Marketing	3
BFIN 311	Principles of Finance	3
BMIS 190	Management Into Systems	3
ACCT 210	Principles of Accounting	3
D. Related Courses in Arts and Humanities		**6**
SPCH 314	Public Speaking	3
JOUR 349	Introduction to Mass Media	3
E. Elective		**1**
Total Hours Required for Degree		**124**

Curriculum Guide for Majors in Sport Management with a Concentration in Management and Administration

Freshman Year
First Semester

Course and number		Semester hrs
GE 155L	Principles of Biol. Sci. & Lab	4
GE 102	English Comp. & Grammar	3
GE 115	College Algebra	3
GE 122	Freshman Seminar	1
GE 135	Intro to Music Literature	2
GE 140	World Civilization I	3
GE 186	Ex & Health Related Issues	1
		17

Second Semester

GE 130	Art Appreciation	2
GE 103	English Comp. & Vocabulary	3
GE 141	World Civilization II	3
GE 185	Health Concepts	2
GE 195	Outdoor Activities	1
GE 118	Pre-Calculus	3
BAUD 115	Intro to Business	3
		17

Sophomore Year
First Semester

Course and number		Semester hrs
CSC 111	Intro to Computing	3
PSY 212	General Psychology	3
GE 201	World Lit. I	3
PESM 110	Intro to Sport Management	3
PESM 210	Intro to Sport Sociology	3
ECON 201	Principles of Economics	3
		18

Second Semester

GE 142	Intro to Geography	3
ECON 202	Principles of Economics II	3
ACCT 210	Principles of Accounting I	3
MNGT 221	Principles of Management	3
GE 202	World Literature II	3
PESM 211	Intro to Sport Psychology	3
		18

Junior Year
First Semester

Course and number		Semester hrs
MRKT 231	Principles of Marketing	3
ECON 260	Business/Economics Statistics	3
PESM 312	Legal Issues of Sports/Rec	3
BFIN 311	Principles of Finance	3
SPCH 314	Public Speaking	3
BMIS 190	Management Info System	3
		18

Second Semester

JOUR 349	Intro. to Mass Media	3
PESM 310	Sport Management Practicum	3
PESM 311	Sport Marketing & Promotion	3
PESM 313	Governance in Sport	3
PESM 300	Sport Finance	3

MNGT 321	Human Resource Management	3
		18

Senior Year
First Semester

Course and number		Semester hrs
PESM 410	Organization & Management	3
PESM 411	Facilities Management	3
PESM 415	Sport Sponsorship	3
	Elective	1
		10

Second Semester

PESM 416	Sport Management Internship	8
		8
Total Semester Hours Required for Degree		**124**

MAJOR: B.S. in Sport Management with a Concentration in Sport Marketing and Promotion

A. General Education		**46**
B. Specialty Area Requirement		**41**
PESM 110	Introduction to Sport Management	3
PESM 210	Introduction to Sport Sociology	3
PESM 211	Introduction to Sport Psychology	3
PESM 300	Sport Finance	3
PESM 310	Sport Management Practicum	3
PESM 311	Sport Marketing and Promotion	3
PESM 312	Legal Issues of Sport/Rec	3
PESM 313	Governance in Sport	3
PESM 410	Organization and Management	3
PESM 411	Facilities Management	3
PESM 415	Sport Sponsorship	3
PESM 416	Sport Management Internship	8
C. Professional Education Courses		**30**
***Designated mandatory courses**		
*BUAD 115	Intro to Business	3
*ECON 201	Principles of Economics I	3
*ECON 202	Principles of Economics II	3
*ECON 260	Business/Economic Statistics	3
*AACT 210	Principles of Accounting I	3
*MNGT 221	Principles of Management	3
*MRKT 231	Principles of Marketing	3
Optional (Must take three (3) of the five (5) courses listed below)		
MRKT 331	Promotion	3
MRKT 332	Consumer Behavior	3
MRKT 432	Marketing Management	3
BFIN 311	Principles of Finance	3
BMIS 190	Management Information System I	3
D. Related Courses in Arts and Humanities		**3**
SPCH 314	Public Speaking	3
E. Electives		**4**
Total Hours Required for Degree		**124**

Curriculum Guide for Majors in Sport Management with a Concentration in Sport Marketing and Promotion

Freshman Year
First Semester

Course and number		Semester hrs
GE 155L	Principles of Biol. Sci. & Lab	4
GE 102	English Comp. & Grammar	3
GE 115	College Algebra	3
GE 122	Freshman Seminar	1
GE 135	Intro. to Music Literature	2
GE 140	World Civilization I	3
GE 186	Ex & Health Related Issues	1
		17

Second Semester

GE 130	Art Appreciation	2
GE 103	English Comp. & Vocabulary	3
GE 141	World Civilization II	3
GE 185	Health Concepts	2
GE 195	Outdoor Activity	1
GE 118	Pre-Calculus	3
BAUD 115	Intro to Business	3
		17

Sophomore Year
First Semester

Course and number		Semester hrs
CSC 111	Intro to Computing	3
PSY 212	General Psychology	3
GE 201	World Lit. I	3
PESM 110	Intro to Sport Management	3
PESM 210	Intro to Sport Sociology	3
ECON 201	Principles of Economics	3
		18

Second Semester

BMIS 190	Management Info. Systems	3
ECON 202	Principles of Economics II	3
ACCT 210	Principles of Accounting I	3
MNGT 221	Principles of Management	3
GE 202	World Literature II	3
PESM 211	Intro to Sport Psychology	3
		18

Junior Year
First Semester

Course and number		Semester hrs
MRKT 231	Principles of Marketing	3
ECON 260	Business/Economics Statistics	3
PESM 312	Legal Issues of Sports/Rec	3
BFIN 311	Principles of Finance	3
MRKT 331	Promotion	3
		15

Second Semester

SPCH 314	Public Speaking	3
PESM 310	Sport Management Practicum	3
PESM 311	Sport Marketing & Promotion	3
PESM 313	Governance in Sport	3
PESM 300	Sport Finance	3
MRKT 332	Consumer Behavior	3
		18

Senior Year
First Semester

Course and number		Semester hrs
MRKT 432	Marketing & Management	3
PESM 411	Facilities Management	3
PESM 415	Sport Sponsorship	3
	Electives	4
		13

Second Semester

PESM 416	Sport Management Internship	8
		8
Total Semester Hours Required for Degree		**124**

MAJOR: B.S. in Sport Management with a Concentration in Sport Communication

A * General Education		**46**
B. Specialty Area Requirement		**41**
PESM 110	Introduction to Sport Management	3
PESM 210	Introduction to Sport Sociology	3
PESM 211	Introduction to Sport Psychology	3
PESM 300	Sport Finance	3
PESM 310	Sport Management Practicum	3
PESM 311	Sport Marketing and Promotion	3
PESM 312	Legal Issues of Sport/Rec	3
PESM 313	Governance in Sport	3
PESM 410	Organization and Management	3
PESM 411	Facilities Management	3
PESM 415	Sport Sponsorship	3
PESM 416	Sport Management Internship	8
C. Related Courses in Business Economics		**21**
BUAD 115	Intro to Business	3
ECON 201	Principles of Economics I	3
ECON 202	Principles of Economics II	3
ECON 260	Business/Economics Statistics	3
ACCT 210	Principles of Accounting I	3
MRKT 231	Principles of Marketing	3
MNGT 221	Principles of Management	3
D. Related Courses in Arts and Humanities		**15**
SPCH 314	Public Speaking	3
JOUR 349	Introduction to Mass Media	3
JOUR 351	Journalism I	3
MCOM 355	Television Production	3
MCOM 353	Radio Introduction	3
E. Elective		**1**
Total Hours Required for Degree		**124**

Curriculum Guide for Majors in Sport Management with a Concentration in Sport Communication

Freshman Year
First Semester

Course and number		**Semester hrs**
GE 155L	Principles of Biol. Sci. & Lab	4
GE 102	English Comp. & Grammar	3
GE 115	College Algebra	3
GE 122	Freshman Seminar	1
GE 135	Intro. to Music Literature	2
GE 140	World Civilization I	3
GE 186	Ex. & Health Related Issues	1
		17

Second Semester

GE 130	Art Appreciation	2
GE 103	English Comp. & Vocabulary	3
GE 141	World Civlization II	3
GE 185	Health Concepts	2
GE 195	Outdoor Activities	1
GE 118	Pre-Calculus	3
BAUD 115	Intro to Business	3
		17

Sophomore Year
First Semester

Course and number		**Semester hrs**
CSC 111	Intro to Computing	3
PSY 212	General Psychology	3
GE 201	World Lit. I	3
PESM 110	Intro to Sport Management	3
PESM 210	Intro to Sport Sociology	3
ECON 201	Principles of Economics I	3
		18

Second Semester

GE 142	Intro to Geography	3
ECON 202	Principles of Economics II	3
ACCT 211	Principles of Accounting I	3
MNGT 221	Principles of Management	3
GE 202	World Literature II	3
PESM 211	Into to Sport Psychology	3
		18

Junior Year
First Semester

Course and number		**Semester hrs**
MRKT 231	Principles of Marketing	3
ECON 260	Business/Economics Statistics	3
PESM 312	Legal Issues of Sports/Rec	3
JOUR 349	Intro to Mass Media	3
JOUR 351	Journalism	3
MCOM 355	Television Production	3
		18

Second Semester

PESM 310	Sport Management Practicum	3
PESM 311	Sport Marketing & Promotion	3
PESM 313	Governance in Sport	3
PESM 300	Sport Finance	3
SPCH 314	Public Speaking	3
MCOM 353	Radio Production	3
		18

Senior Year
First Semester

Course and number		**Semester hrs**
MRKT 410	Organization & Management	3
PESM 411	Facilities Management	3
PESM 415	Sport Sponsorship	3
	Electives	1
		10

Second Semester

PESM 416	Sport Management Internship	8
		8
Total Semester Hours Required for Degree		**124**

MAJOR: B.S. in Physical Education with a Concentration in Sport Science

A * General Education		**46**
B. Specialty Area Requirement		**39**
PE 239	Introduction to Physical Education	2
PE 300	Exercise Physiology	3
HLTH 367	First Aid, CPR, and Safety	3
PE 368	Prevention & Care of Athletic Injury	2
PE 370	Kinesiology	3
PE 416	Advanced Kinesiology & Biomechanics	3
PE 447	Ex. Testing & Prescription	3
PE 447L	Ex. Testing & Prescript. Lab	1
PE 470	Adapted Physical Education	3
PE 471	Prof. Seminar in Health Care Management	3
PE 495	Internship	8
	*(Or 6 credit PHS Field Experiences)	
PHS 110	Introduction to Public Health	3
PHS 210	Community Health	3

HLTH 369	Principles of Nutrition	3
C. Related Areas		**34**
BIOL 102/L	General Biology	4
PE 210	Applied Anatomy & Physiology	3
PE 210L	Applied Anatomy & Physiology Lab	1
BIOL 341L	Microbiology	4
BIOL 355	Career Entry Seminar	2
BIOl 485	Medical Terminology	1
CHEM 101/L	General Chemistry/Lab	4
CHEM 102/L	General Chemistry II/Lab	4
STAT 251	Basic Statistics	3
PHYS 181/L	General Physics/Lab	4
PHYS 182/L	General Physics II/Lab	4
D. Electives		**6**
Total Hours Required for Degree		**125**

Note: Sport Science Students are required to take Biology 101/L which is a pre-requisite for Biology 102/L.

Curriculum Guide for Majors in Physical Education with a Concentration in Sport Science

Freshman Year
First Semester

Course and number		Semester hrs
BIOL 101/L	General Biology	4
GE 102	English Comp. & Grammar	3
GE 115	College Algebra	3
GE 122	Freshman Seminar	1
CHEM 101	General Chemistry	3
CHEM 101 L	General Chemistry Lab *	1
PHS 110	Introduction to Public Health	3
		18

Second Semester

BIOL 102/L	General Biology	4
GE 103	English Comp. & Vocabulary	3
GE 185	Health Concept	2
GE 118	Pre-Calculus	3
CHEM 102	General Chemistry II	3
CHEM 102L	General Chemistry II Lab	1
GE	Health & PE Activity	1
		17

Sophomore Year
First Semester

Course and number		Semester hrs
BIOL 220	Zoology	4
GE 201	World Literature I	3
PHYS 181	General Physics I	3
PHYS 181 L	General Physics Lab I	1
PE 239	Introductions to Physical Education	2
GE	Fine Arts	2
GE	Comp. & Info. Literacy	3
		18

Second Semester

GE	Literature & Language	3
BIOL 306/L	Human Anatomy 4	4
PHYS 182	General Physics II	3
PHYS 182 L	General Physics II Lab	1
GE	Social & Behavioral Science	3
PSY 212	General Psychology	3
		17

Junior Year
First Semester

Course and number		Semester hrs
BIOL 307	Human Physiology	4
PE 300	Exercise Physiology	3
PE 370	Kinesiology	3
PSY 250	Developmental Psychology	3
GE 140	World Civilization	3
		16

Second Semester

PE 470	Adapted Physical Education	3
PE 416	Advanced Kinesiology & Biomechanics	3
PE 368	Prevention & Care of Athletic Injury	2
PHS 210	Community Health	3
GE 141	World Civilization II	3
GE	Health & PE Activity	1
		15

Senior Year
First Semester

Course and number		Semester hrs
PE 447	Ex. Testing & Prescrip.	3
PE 447L	Ex. Testing & Prescrip. lab	1
PE 471	Prof. Seminar in Health Care Management	3
HLTH 369	Principles of Nutrition	3
STAT 251	Basic Statistics	3
		13

Second Semester

PE 495	Internship	8
	* (Or 6 credit PHS Field Experiences)	
PE 367	First Aid, CPR & Safety	3
SPCH 314	Public Speaking	3
		14

Total Semester Hours Required for Degree **126-128**

*Note: *6 Credits of approved PHS Field Experiences, including that gained through official government service training or reserve programs with agencies such as Departments of Defense, Homeland Security, or Health and Human Services may be substituted for the 8 credit internship. Official government training or field experience documentation must be presented, reviewed, approved, and kept on file by HPE. This option strongly supports: a.) Individuals applying for graduate schools to meet experience requirements, and b.) Individuals with current service or training obligations, i.e. reserves, to meet minimum stated requirements for direct entry into government career or veteran reentry programs.*

*****Departmental Requirement: Certified First Aid/CPR/AED current during the month of graduation. This course is waived if certification has been previously obtained and current the month of graduation.***

MINOR: Physical Education

PE 239	Introduction to Physical Education	2
PE 240	Team Sports	1
PE 445	History & Principles of Physical Education	3
PE 375	Management of Physical Education	3
PE 363	Groups, Games, and Rhythms	1
PE 401	Motor Learning/ Motor Behavior	3
PE 470	Adaptive Physical Education	3
HLTH 367	*First Aid & Safety (Department Requirement)	P/F
CR 202	Intramurals	2
PE 200 or 201	Coaching Basketball or Football	3
OR		
PE 380 or 381	Officiating Basketball or Football	3
GE 175	Intermediate Swimming II (Departmental Requirement)	P/F
PE 303	Fitness through Weight Training	2
Total Semester Hours Required for Minor		**23**

MINOR: Coaching and Sports

PE 210/L	Applied Anatomy & Physiology/Lab	4
PE 401	Motor Learning & Motor Behavior	3
PE 300	Exercise Physiology	3
PE 200 or 201	Coaching Basketball or Football	3
PE 371	Psychology of Coaching	3
PE 496	Supervised Field Work in Coaching and Officiating	8
Total Semester Hours Required for Minor		**24**

DEPARTMENT OF LANGUAGE, LITERATURE & COMMUNICATION

The Department of Language, Literature, and Communication provides all students with integrated experiences and instruction in the English language, literature, creative writing, communication studies, mass communication, and foreign languages. It seeks to achieve six major objectives:

A. to develop in all students proficiency in the use of the English language and in analytical thinking, writing, and problem-solving skills;
B. to assist all students in understanding and appreciating their literary heritage and that of other peoples;
C. to prepare students for careers in mass communication/communication studies; and
D. to provide majors with a rich background in communication skills and to encourage their admission into professional programs such as law, public relations, government service, and education.

In addition to the department's objectives for all its majors, the Department welcomes students in other majors who wish to achieve the following:

- an understanding of the role of communication in daily life with a focus on the importance of cultural diversity in communication;
- a proficiency in the use of professional skills, techniques, methodologies, and supportive techniques in specific disciplines;
- the acquisition of professional values and ethics;
- a regimen of self-growth and professional development; and
- the mastery of their creative writing skills.

The Department of Language, Literature, and Communication offers Bachelor of Arts degrees in English and Communication Studies. The concentrations and minors in the English degree program are tangential areas of study which provide students with instruction, experience, and training for the purpose of self-development, enrichment, possible career alternatives, and graduate school.

Degree focus can include a concentration in mass communication, news media, or the option of a minor. In addition, non-English majors can take an academic concentration in English.

The Department of Language, Literature, and Communication offers the following courses in the University Honors Program:

Freshman Composition Honors I and II (GE 104/105, 3/3 semester hrs); World Literature Honors Seminar I and II (GE 203/204, 3/3 semester hrs); Public Speaking (SPCH 314H, 3 semester hrs); and Junior-Senior Honors Project (ENGL 480, 3 semester hrs).*

All majors must participate in a senior exit interview, research capstone public presentation, and senior exit exam, prior to graduation. All students are expected to proceed through the required sequence of courses achieving a grade of "C" or better.

All students are expected to proceed through the required sequence of courses achieving a grade of "C" or better.

MAJOR: English with a Mass Communications Concentration

A. General Education Requirements		**46**
B. Major Requirements		**60**
ENGL 299	Introduction to Literature	3
ENGL 301	British Literature I	3
ENGL 302	British Literature II	3
ENGL 303	Literary Criticism	3
ENGL 305	American Literature I	3
ENGL 306	American Literature II	3
ENGL 316	Introduction to Rhetoric and Composition	3
ENGL 317	Advanced Composition	3
ENGL 322	Advanced English Grammar	3
ENGL 327	History of the English Language	3
ENGL 425	Shakespeare	3
ENGL 430	The British Novel	3
ENGL 458	Black Writers in Amer Lit I	3

ENGL 466	The American Novel	3
ENGL 498	Research Methods in English	3
Concentration in Mass Communications		**15**
MCOM 250	Introduction to Broadcasting	3
JOUR 451	Broadcast Journalism	3
MCOM 353	Radio Production	3
MCOM 355	Television Production	3
JOUR 349	Introduction to Mass Media	3
C. Related Courses		**9**
Any approved foreign language (two consecutive courses for 6 sem hrs)		
FREN 101	Elementary French I	3
FREN 102	Elementary French II	3
FREN 201	Intermediate French I	3
FREN 202	Intermediate French II	3
OR		
SPAN 101	Elementary Spanish I	3
SPAN 102	Elementary Spanish II	3
SPAN 111	Conversational Spanish I	3
SPAN 112	Conversational Spanish II	3
SPAN 201	Intermediate Spanish I	3
SPAN 202	Intermediate Spanish II	3
SPAN 303	Grammar and Composition I	3
SPAN 304	Grammar and Composition II	3
SPAN 401	Survey of Spanish Literature I	3
SPAN 402	Survey of Spanish Literature II	3
OR		
CHIN 101	Introduction to Chinese I	3
CHIN 102	Introduction to Chinese II	3
Other		
SPCH 314	Public Speaking	3
D. Minor or Electives		**9**

Majors are encouraged to select a minor or electives that will broaden their understanding, knowledge, and skills, and round out their liberal arts education.

Total Hours Required for Degree **124**

Curriculum Guide: Major in English with Mass Communications Concentration

Freshman Year
First Semester

Course and number		Semester hrs
GE 102/104	Composition I / Honors	3
GE 115	College Algebra	3
GE 122	Freshman Seminar	1
GE 140	World Civilization I	3
GE	Nat. Science/Lab	4
	Any approved foreign language	3
		17

Second Semester

GE 103/105	Composition II / Honors	3
GE 130	Art Appreciation	2
GE 141	World Civilization II	3
GE	Physical Ed. Activity	1
GE	Nat. Sci./Math	3
	Any approved foreign language	3
		15

Sophomore Year
First Semester

Course and number		Semester hrs
GE 201/203	World Literature I/Honors	3
GE 135	Intro. to Music Literature	2
GE 185	Health Concepts	2
PSY 212	General Psychology	3
ENGL 299	Introduction to Literature	3
	Electives	2
		15

Second Semester

GE 202/204	World Literature Il/Honors	3
GE	Soc/Behavioral Science	3
GE	Physical Ed. Activity	1
ENGL 303	Literary Criticism	3
ENGL 317	Advanced Composition	3
	Electives	2
		15

Junior Year
First Semester

Course and number		Semester hrs
ENGL 301	British Literature I	3
ENGL 305	American Literature I	3
ENGL 316	Introduction to Rhetoric and Comp	3
ENGL 327	History of the English Language	3
ENGL 458	Black Writers in American Literature	3
JOUR 349	Intro. to Mass Media	3
		18

Second Semester

ENGL 302	British Literature II	3
ENGL 306	American Literature II	3
ENGL 322	Advanced English Grammar	3
MCOM 250	Intro. to Broadcasting	3
SPCH 314	Public Speaking	3
GE 111	Introduction to Computer Applications	3
		18

Senior Year
First Semester

Course and number		Semester hrs
ENGL 425	Shakespeare	3
ENGL 430	The British Novel	3
JOUR 451	Broadcast Journalism	3
MCOM 355	Television Prod.	3
	Electives/Minor	2
		14

Second Semester

ENGL 466	The American Novel	3
ENGL 498	Research Methods in English	3
MCOM 353	Radio Production	3
MCOM 498	Internship or LLC Electives	3
		12

Total Semester Hours Required for Degree **124**

MAJOR: English with a News Media Concentration

A. General Education Requirements		**46**
B. Major Requirements		**57**
ENGL 299	Introduction to Literature	3
ENGL 301	British Literature I	3
ENGL 302	British Literature II	3
ENGL 305	American Literature I	3
ENGL 306	American Literature II	3
ENGL 316	Introduction to Rhetoric & Composition	3
ENGL 317	Advanced Composition	3
ENGL 322	Advanced English Grammar	3
ENGL 327	History of the English Language	3
ENGL 425	Shakespeare	3
ENGL 430	The British Novel	3
ENGL 458	Black Writers in Amer. Lit I	3
ENGL 303	Literary Criticism	3

ENGL 466	The American Novel	3
ENGL 498	Research Methods in English	3
Concentration in News Media		**12**
JOUR 349	Mass Media	3
JOUR 351	Journalism I	3
JOUR 352	Journalism II	3
JOUR 451	Broadcast Journalism	3
C. Related Courses		**12**
Any approved foreign language (two consecutive courses for 6 sem hrs)		
FREN 101	Elementary French I	3
FREN 102	Elementary French II	3
FREN 201	Intermediate French I	3
FREN 202	Intermediate French II	3
FREN 301	Grammar and Composition I	3
FREN 302	Grammar and Composition II	3
OR		
SPAN 111	Conversational Spanish I	3
SPAN 112	Conversational Spanish II	3
SPAN 101	Elementary Spanish I	3
SPAN 102	Elementary Spanish II	3
SPAN 201	Intermediate Spanish I	3
SPAN 202	Intermediate Spanish II	3
SPAN 303	Grammar and Composition I	3
SPAN 304	Grammar and Composition II	3
SPAN 401	Survey of Spanish Literature!	3
SPAN 402	Survey of Spanish Literature II	3
OR		
CHIN 101	Introduction to Chinese I	3
CHIN 102	Introduction to Chinese II	3
Speech		
SPCH 312	Oral Interpretation of Literature	3
SPCH 314	Public Speaking	3
D. * Minor or Free Electives		**9**

Majors are encouraged to select a minor or electives that will broaden their understanding, knowledge, and skills, and round out their liberal arts education.

Total Semester Hours Required for Degree **124**

Curriculum Guide: Major in English with News Media Concentration

Freshman Year
First Semester

Course and number		Semester hrs
GE 102/104	Composition I/Honors	3
GE 115	College Algebra	3
GE 122	Freshman Seminar	1
GE 140	World Civilization I	3
GE	Nat. Science/Lab	4
	Any approved foreign language	3
		17

Second Semester

GE 103/105	Composition Il/Honors	3
GE 130	Art Appreciation	2
GE 141	World Civilization II	3
GE	Physical Ed. Activity	1
GE	Nat. Sci. or Math	3
	Any approved foreign language	3
		15

** Two consecutive courses (6 semester hours) in any approved foreign language (or another accepted language)*

Sophomore Year
First Semester

Course and number		Semester hrs
GE 201/203	World Literature I/Honors	3
GE 135	Intro. to Music Literature	2
GE 185	Health Concepts	2
PSY 212	Gen. Psychology	3
ENGL 299	Introduction to Literature	3
	Electives	3
		16

Second Semester

GE 202/204	World Literature Il/Honors	3
GE	Soc./Behavioral Sci	3
GE 111	Introduction to Computer Applications	3
GE	Physical Ed. Activity	1
ENGL 303	Literary Criticism	3
ENGL 317	Advanced Composition	3
		16

Junior Year
First Semester

Course and number		Semester hrs
ENGL 301	British Literature I	3
ENGL 305	American Literature I	3
ENGL 316	Introduction to Rhetoric & Composition	3
JOUR 349	Mass Media	3
JOUR 351	Journalism I	3
		15

Second Semester

ENGL 302	British Literature II	3
ENGL 322	Advanced English Grammar	3
SPCH 314	Public Speaking	3
JOUR 352	Journalism II	3
JOUR 451	Broadcast Journalism	3
		15

Senior Year
First Semester

Course and number		Semester hrs
SPCH 312	Oral Interpretation of Literature	3
ENGL 306	American Literature II	3
ENGL 327	History of the English Language	3
ENGL 425	Shakespeare	3
ENGL 430	The British Novel	3
ENGL 458	Black Writers in American Literature	3
		18

Second Semester

ENGL 466	The American Novel	3
ENGL 498	Research Methods/Capstone	3
MCOM 498	Internship or LLC Electives	3
	Electives	3
		12

Total Semester Hours Required for Degree **124**

MAJOR: English

A. General Education Requirements		**46**
B. Major Requirements		**51**
ENGL 299	Introduction to Literature	3
ENGL 301	British Literature I	3
ENGL 302	British Literature II	3
ENGL 303	Literary Criticism	3
ENGL 305	American Literature I	3
ENGL 306	American Literature II	3
ENGL 316	Introduction to Rhetoric and Comp	3
ENGL 317	Advanced Composition	3

ENGL 322	Advanced English Grammar	3
ENGL 327	History of the English Language	3
ENGL 425	Shakespeare	3
ENGL 430	British Novel	3
ENGL 458	Black Writers in American Lit I	3
ENGL 466	The American Novel	3
ENGL 498	Research Methods in English	3
RESTRICTED electives in English, Mass Communications, News Media and Speech courses		**6**
C. Related Courses		**6**
Any two approved foreign languages (Two consecutive courses for 6 sem hrs)		
D. Electives		**21**
Majors are encouraged to select minors or electives that will broaden their understanding, knowledge, and skills, and round out their education.		
Total Semester Hours Required for Degree		**124**

Curriculum Guide for Majors in English

Freshman Year
First Semester

Course and number		**Semester hrs**
GE 102/104	Composition I/Honors	3
GE 115	College Algebra	3
GE 122	Freshman Seminar	1
GE 140	World Civilization I	3
GE	Nat. Science/Lab	4
	Any approved foreign language	3
		17

Second Semester

GE 103/105H	Composition Il/Honors	3
GE 130	Art Appreciation	2
GE 141	World Civilization II	3
GE	Physical Ed. Activity	I
GE	Nat. Sci. or Math	3
	Any approved foreign language	3
		15

Sophomore Year
First Semester

Course and number		**Semester hrs**
GE 201/203	World Literature 1/Honors	3
GE 135	Introduction to Music Literature	2
GE 185	Health Concepts	2
GE	Physical Ed. Activity	1
ENGL 299	Introduction to Literature	3
	Social Behavioral Science	3
	Social Behavioral Science	3
		17

Second Semester

GE 202/204	World Literature Il/Honors	3
GE 111	Introduction to Computer Applications	3
ENGL 303	Literary Criticism	3
ENGL 316	Introduction to Rhetoric and Comp	3
	Electives	4
		16

Junior Year
First Semester

Course and number		**Semester hrs**
ENGL 301	British Literature I	3
ENGL 305	American Literature I	3
ENGL 327	History of the English Language	3
	** Restricted Electives	3
	Electives	4
		16

Second Semester

ENGL 302	British Literature II	3
ENGL 306	American Literature II	3
ENGL 322	Advanced English Grammar	3
	**Restricted Electives	3
	Electives	4
		16

Senior Year
First Semester

Course and number		**Semester hrs**
ENGL 425	Shakespeare	3
ENGL 426		3
ENGL 458	Black Writers in Amer. Lit. I	3
ENGL 430	The British Novel	3
ENGL 317	Advanced Composition	3
	Free Electives	3
		15

Second Semester

ENGL 498	Research Methods in English	3
ENGL 466	The American Novel	3
	Free Electives	6
		12

* Two consecutive courses (6 semester hours) in any approved foreign language (or another accepted language)

Total Semester Hours Required for Degree	**124**

MAJOR: Communication Studies

A. General Education Requirements		**46**
B. Major Requirements		**51**
COM 200	Interpersonal Communication	3
ENGL 299	Introduction to Literature	3
ENGL 317	Advanced Composition	3
ENGL 322	Advanced English Grammar	3
JOUR 349	Mass Media	3
JOUR 351	Journalism I	3
JOUR 352	Journalism II	3
JOUR 451	Broadcast Journalism	3
MCOM 250	Intro To Broadcasting	3
MCOM 350	Broadcast Writing I	3
MCOM 353	Radio Production	3
MCOM 354	Advanced Radio Production	3
MCOM 355	Television Production	3
MCOM 356	Advanced Television Production	3
MCOM 357	Public Relations	3
MCOM 400	Print and Broadcast Management	3
MCOM 450	Media Law & Ethics	3
C. Related Courses		**15**
SPCH 201	Voice and Diction	3
SPCH 314	Public Speaking	3
MCOM 498	Internship	3
MCOM 347	Mass Comm. Theory & Research	3
MCOM 499	Seminar In Communication	3
Two Consecutive Courses in Foreign Languages		**6**
D. **Restricted Electives		
Suggested Electives		**4**
ART 201	Graphic Design I	3
ART 340	Photography	3
SPCH 312	Oral Interpretation	3
JOUR 449	Photojournalism	3

Total Semester Hours Required for Degree	**128**

Curriculum Guide for Majors in Communication Studies

Freshman Year

First Semester

Course and number		Semester hrs
GE 102/104	Composition I/Honors	3
GE 115	College Algebra	3
GE 122	Freshman Seminar	1
GE 140	World Civilization I	3
GE	Nat. Science/Lab	4
	Any approved foreign language	3
		17

Second Semester

GE 103/105	Composition Il/Honors	3
GE 130	Art Appreciation	2
GE 141	World Civilization II	3
GE	Physical Ed. Activity	1
GE	Nat. Sci. or Math	3
	Any approved foreign language	3
		15

Sophomore Year

First Semester

Course and number		Semester hrs
GE 201/2O3	World Literature I/Honors	3
GE 185	Health Concepts	2
GE	Social/Behavior Science	3
COM 200	Interpersonal Communication	3
ENGL 299	Introduction to Literature	3
SPCH 314	Public Speaking	3
GE	Physical Ed. Activity	1
		18

Second Semester

GE 202/204	World Literature Il/Honors	3
GE	Social/Behavioral Science	3
GE	Fine Arts	2
ENGL 317	Advanced Composition	3
ENGL 322	Advanced English Grammar	3
MCOM 250	Intro. To Broadcast Comm	3
		17

Junior Year

First Semester

Course and number		Semester hrs
JOUR 349	Intro To Mass Media	3
JOUR 351	Journalism I	3
MCOM 355	Television Production	3
SPCH 201	Voice and Diction	3
	Restrictive Electives	3
		15

Second Semester

JOUR 352	Journalism II	3
MCOM 350	Broadcast Writing I	3
MCOM 353	Radio Production	3
MCOM 356	Advanced Television Production	3
MCOM 357	Intro To Public Relations	3
GE 111	Computer Science	3
		18

Senior Year

First Semester

Course and number		Semester hrs
MCOM 347	Mass Communication	3
MCOM 354	Advanced Radio Production	3
MCOM 400	Print & Broadcast Management	3
MCOM 450	Media Law & Ethics	3
JOUR 451	Broadcast Journalism	3
	Elective	1
		16

Second Semester

MCOM 498	Internship	3
MCOM 499	Seminar In Communication	3
	Restrictive Electives	3
	Electives	3
		12

Total Semester Hours Required for Degree	**128**

MINOR: Communication Studies

JOUR 349	Mass Media	3
JOUR 351	Journalism	3
MCOM 250	Introduction to Broadcasting	3
MCOM 347	Mass Communication Theory and Research	3
MCOM 353	Radio Production	3
MCOM 355	Television Production	3
MCOM 450	Media Law & Ethics	3
Total Hours Required for Minor		**21**

MINOR: English

ENGL 301/302	British Literature I/Il	3,3
ENGL 305	American Literature I	3
ENGL 458	Black Writers I	3
ENGL 306	American Literature II	3
OR	Black Writers II	3
ENGL 459		

Followed by 9 hours of any of the following courses:

ENGL 303	Literary Criticism	3
ENGL 316	Introduction to Rhetoric and Composition	3
ENGL 317	Advanced Composition	3
ENGL 327	History of the English Language	3
ENGL 425	Shakespeare	3
ENGL 430	British Novel	3
ENGL 466	The American Novel	3
ENGL 458	Black Writers I	3
ENGL 498	Research Methods in English	3

Six semester hours selected from 300 and 400 level courses in additional English, creative writing, mass communications, or news media courses.

Total Hours Required for Minor	**21**

Department Mathematics & Computer Science

The Department of Mathematics and Computer Science offers undergraduate programs leading to Bachelor of Science degrees in both Mathematics and Computer Science. The department also offers minors in Mathematics, as well as Computer Science. A graduate program leading to a Master of Science degree has been added, with concentrations in Applied Mathematics, Mathematics Education, Community College Teaching, and Remote Sensing. The strong curriculum provides students with a high level of preparation for professional employment, as well as for graduate study, with an emphasis on integrating theory and applications.

Students majoring in the Mathematical Sciences have numerous career opportunities open to them. An undergraduate degree in Mathematics or Computer Science establishes an excellent background for graduate studies in many areas such as Mathematics, Actuarial Science, Computer Science, Statistics, Engineering, Operations Research, and Economics, etc. Those who are planning to receive a license to teach high school and/or middle school Mathematics must have a minor in Secondary and/or Middle Grades Education.

The department faculty members have diverse research interests. It is recommended that prospective students contact the department as early as possible to discuss an appropriate program of study and plan the sequencing of course requirements. Students majoring in or with a minor in Mathematics or Computer Science are required to have a "C" or better grade in all core and related area courses to meet the departmental standards and approval to be recommended for graduation. The Department of Mathematics and Computer Science offer degrees in the following:

Computer Science
- Computer Science with a Concentration in Information Systems
- Computer Science with a Scientific Concentration

Mathematics
- Mathematics
- Mathematics with a Concentration in Secondary Education

MAJOR: B.S. in Computer Science with Scientific Concentration

A. General Education courses		**47**
B. Major requirements		**69**
1. Core Requirements		25
CSC 115	Programming I	3
CSC 160	Major Orientation	1
CSC 215	Programming II	3
CSC 218	Data Structure	3
CSC 230	Object-Oriented Programming	3
CSC 260	Junior Seminar in CS	1
CSC 314	Computer Architecture and Org.	3
CSC 325	Database Systems	3
CSC 410	Net-Centric Computing	3
CSC 460	Senior Seminar in CS	2
2. Concentration Requirements		**12**
CSC 315	Programming Language Concepts	3
CSC 318	Algorithms	3
CSC 412	Software Engineering	3
CSC 420	Operating Systems	3
3. Related Area Requirements		**17**
MATH 165	Calculus of a Single Variable I	4
MATH 265	Calculus of a Single Variable II	4
MATH 262	Discrete Mathematics	3
MATH 351	Linear Algebra	3
STAT 351	Probability and Statistics	3
4. Discipline Area Electives		**6**
Choose any two of the following courses.		
CSC 200	Computer Hardware Essentials	3
CSC 300	Introduction to Mobile Robotics	3
CSC 322	Unix Admin and Systems Programming	3
CSC 335	Introduction to Web Design	3
CSC 409	Artificial Intelligence	3
CSC 413	Systems Analysis and Design	3
CSC 415	Computer Graphics	3
CSC 421	Special Topics in Computer Science	3
CSC 430	Undergraduate Research in CS	3
CSC 451	Numeric and Symbolic Computing	3
CSC 452	Internship	3
ENGL 401	Technical Writing	3
5. Related Area Electives		**9**
Choose any combination of science and mathematics courses offered to majors science and mathematics.		
C. Minor/Free Electives		**9 Hrs**
Total hrs required for the degree		**125**

**Take CSC 114 Introduction Computer Science I, GE 118 Pre-Calculus, PHYS 191/191L University Physics with Lab, and SPCH 314 Public Speaking towards the GE requirements.*

Curriculum for Major in Computer Science with a Scientific Concentration

Freshman Year

First Semester

Course and number	Semester hrs	
GE 102	English Comp and Grammar	3
GE 140	World Civilization I	3
GE 122	Freshman Seminar	1
	Fine Arts and Communication	2
CSC 114	Intro. to Comp. Science	3
CSC 160	Major Orientation	1
GE 118	Pre-Calculus	3
		16

Second Semester

MATH 165	Calculus of a Single Variable I	4
GE 103	English Comp and Vocabulary	3
GE 141	World Civilization II	3

	Physical Ed. Elective I	1
	Physical Ed. Elective II	1
CSC 115	Programming I	3
GE 185	Health Concepts	2
		17

Sophomore Year
First Semester

Course and number		Semester hrs
MATH 265	Calculus of a Single Variable II	4
GE 201	World Literature	3
CSC 215	Programming II	3
GE	Social & Behavioral Science	3
CSC 230	Object-Oriented Programming	3
		16

Second Semester

MATH 262	Discrete Mathematics	3
GE	Literature and Lang.	3
GE	Social & Behavioral Science	3
CSC 218	Data Structures	3
CSC 260	Junior Seminar in CS	1
	Math or Science Elective	3
		16

Junior Year
First Semester

Course and number		Semester hrs
CSC 315	Prog. Lang. Concepts	3
PHYS 191	University Physics I	3
PHYS 181L	General Physics I Lab	1
SPCH 314	Public Speaking	3
STAT 351	Prob. And Stats. I	3
CSC 318	Algorithms	3
		16

Second Semester

	Related Area Elect. I	3
CSC 314	Comp. Org. and Arch.	3
CSC 325	Database Systems	3
MATH 351	Linear Algebra	3
	Free Elective I	3
		15

Senior Year
First Semester

Course and number		Semester hrs
CSC 410	Net-Centric Computing	3
CSC 412	Software Engineering	3
CSC 460	Senior Seminar in CS	2
CSC	Comp. Sci. Elective I	3
	Free Elective II	3
		14

Second Semester

	Free Elective III	3
CSC	Comp. Sci. Elective II	3
	Related Area Elect. II	3
	Related Area Elect. III	3
CSC 420	Operating Systems	3
		15

MAJOR: B.S. in Computer Science with a Concentration in Information Systems

A. General Education courses		**47**
B. Major requirements		**64**
1. Core Requirements		28
CSC 111	Introduction to Computer Science	3
CSC 115	Programming I	3
CSC 160	Major Orientation	1
CSC 215	Programming II	3
CSC 218	Data Structure	3
CSC 230	Object-Oriented Programming	3
CSC 260	Sophomore Seminar in CS	1
CSC 314	Computer Architecture and Org.	3
CSC 325	Database Systems	3
CSC 410	Net-Centric Computing	3
CSC 460	Senior Seminar in CS	2
2. Concentration Requirements		18
BUAD 115	Introduction to Business	3
ACCT 210	Financial Accounting	3
MINGT 221	Principles of Management	3
MINGT 322	Organizational Behavior	3
BMIS 380	Management Information Systems II	3
TECH 410	Project Management	3
3. Related Area Requirements		9
MATH 153	Applied Calculus	3
STAT 251	Basic Statistics	3
MATH 262	Discrete Mathematics	3
4. Discipline Area Electives		6
Choose any two of the following courses		
CSC 200	Computer Hardware Essentials	3
CSC 300	Introduction to Mobile Robotics	3
CSC 315	Programming Lang. Concepts	3
CSC 318	Algorithms	3
CSC 322	Unix Admin and Systems Programming	3
CSC 335	Introduction to Web Design	3
CSC 409	Artificial Intelligence	3
CSC 412	Software Engineering	3
CSC 420	Operating Systems	3
CSC 421	Special Topics in Computer Science	3
CSC 430	Undergraduate Research in CS	3
CSC 452	Internship	3
ENGL 401	Technical Writing	3
C. Minor/Free electives		**15**
CSC 413	Systems Analysis and Design	3
Total hrs required for the degree		**126**

**Take BUAD 190: Management Information Systems I, GE 118 Pre-Calculus, and SPCH 314 Public Speaking towards the GE requirements. Take CSC 413 Systems Analysis and Design as a Required Elective.*

Curriculum for Major in Computer Science with a Concentration in Information Systems

Freshman Year
First Semester

Course and Number		Semester hrs
GE 118	Pre-Calculus	3
GE 102	English Comp and Grammar	3
GE 140	World Civilization I	3
GE 122	Freshman Seminar	1
CSC 114	Intro. to Comp. Science	3
	Fine Arts and Communication	2
CSC 160	Major Orientation	1
		16

Second Semester

MATH 153	Applied Calculus	4
GE 103	English Comp and Vocabulary	3
GE 141	World Civilization II	3

	PE Elective I	1
	PE Elective II	1
CSC 115	Programming I	3
GE 185	Health Concepts	2
		17

Sophomore Year
First Semester

Course and number		Semester hrs
	Math/Science Elective	3
GE 201	World Literature	3
	Social & Behavioral Science Elective	3
CSC 215	Programming II	3
CSC 230	Object Oriented Programming	3
		15

Second Semester

STAT 251	Basic Statistics	3
GE 202	Literature and Lang.	3
GE	Social & Behavioral Science Elective	3
CSC 218	Data Structures	3
MATH 262	Discrete Mathematics	3
CSC 360	Junior Seminar in CS	1
		16

Junior Year
First Semester

Course and number		Semester hrs
BUAD 115	Introduction to Business	3
BUAD 190	Mgt Info Sys I	3
	Science Elective with Lab	4
SPCH 314	Public Speaking	3
CSC	Computer Science Elective I	3
		16

Second Semester

CSC 314	Comp. Org. and Arch	3
CSC 325	Database Systems	3
MNGT 221	Principles of Mgt	3
ACCT 210	Financial Accounting	3
	Free Elective I	3
		15

Senior Year
First Semester

Course and number		Semester hrs
BMIS 380	Mgt Info Sys II	3
CSC 460	Senior Seminar in CS	2
CSC 410	Net-Centric Computing	3
	Free Elective II	3
	Free Elective III	3
MNGT 322	Organizational Behavior	3
		17

Second Semester

CSC 413	System Analysis and Design	3
CSC	Comp. Sci. Elective II	3
TECH 410	Project Management	3
	Free Elective IV	3
	Free Elective V	3
		15

MAJOR: B.S. in Mathematics

A. General Education courses		**46**
B. Math requirements		**50**
1. Core Requirements		38
MATH 165	Calculus of a single variable I	4
MATH 265	Calculus of a single variable II	4
MATH 267	Calculus of several variables III	4
MATH 275	Foundations of Mathematics	3
MATH 351	Linear Algebra	3
MATH 354	Abstract Algebra I	3
MATH 358	Differential Equations	3
MATH 365	Junior Exit Seminar	2
MATH 450	Advanced Calculus	3
MATH 455	Elements of Real Analysis	3
STAT 351	Probability and Statistics I	3
MATH 465	Exit Seminar in Mathematics	3
2. Discipline Area Electives		12
Select any four of the following courses.		
MATH 262	Discrete Methods	3
MATH 350	Number Theory	3
MATH 352	College Geometry	3
MATH 345	History of Mathematics	3
MATH 366	Complex Variables	3
MATH 400	Operations Research Techniques	3
MATH 452	Internship	3
MATH 454	Abstract Algebra II	3
MATH 456	Contemporary Issues in Math Educ.	3
MATH 459	Special Studies/Seminars in Math	3
MATH 462	Math Modeling	3
STAT 352	Probability & Statistics	3
CSC 451	Numerical Symbolic Computing	3
C. Related Area Requirements		**7**
PHY 192	University Physics II (**)	3
PHY 182 L	General Physics II Lab (**)	1
CSC 230	Object-Oriented Programming	3
D. Minor/Electives		**21**
Total Hrs required for the degree		**124**

**Take CSC 114 Introduction to Computer Science I, PHYS 191/L, and PHYS 182/L University Physics I towards the GE requirements.*

***Secondary Education Minors should use PHYS 192/L University Physics II as a GE requirement too.*

Curriculum for Mathematics Major

Freshman Year
First Semester

Course and number		Semester hrs
GE 118	Pre Calculus	3
GE 122	Freshman Seminar	1
GE 102	English Comp and Grammar	3
GE 140	World Civilization I	3
GE 185	Health Concepts	2
	Fine Arts Elective	2
	PE Elective	1
		15

Second Semester

MATH 165	Calculus of Single variable I	4
CSC 114	Intro. to Computer Science	3
GE 103	English Comp and Vocab	3
GE 141	World Civilization II	3
	Social & Behav. Elective	3
		16

Sophomore Year
First Semester

Course and number		Semester hrs
MATH 265	Calculus of Single Variable II	4
CSC 230	Object Oriented Programming	3
GE 201	World Lit 1	3
	Social and Behav Sci. Elective	3
	Fine Arts Elective	2
	PE Elective	1

		16

Second Semester

MATH 267	Calculus III	4
MATH 275	Foundation of Math	3
MATH 351	Linear Algebra	3
PHYS 191	Univ. Phys I	3
PHYS 181L	General Physics Lab	1
	Lang & Lit Elective	3
		17

Junior Year
First Semester

Course and number		Semester hrs
MATH 354	Abstract Algebra I	3
STAT 351	Probability and Statistics	3
PHYS 192	Univ Phys II	3
PHYS 182L	General Physics Lab	1
	Free Elective 1	
	Math/Science Free Elective	3
		16

Second Semester

MATH 450	Advance Calculus	3
MATH 365	Junior Seminar	2
MATH 358	Differential Equations	3
	Math Elective 1	3
	Free Elective 2	3
	Free Elective 3	3
		17

Senior Year
First Semester

Course and number		Semester hrs
MATH 455	Elements of Real Analysis	3
MATH 465	Exit Seminar in Math	3
	Math Elective 2	3
	Free Elective 4	3
	Free Elective 5	3
		15

Second Semester

	Math Elective 3	3
	Math Elective 4	3
	Free Elective 6	3
	Free Elective 7	3
		12

Curriculum for Major in Mathematics with a Minor in Secondary Education

Freshman Year
First Semester

Course and number		Semester hrs
GE 118	Pre-Calculus	3
GE 122	Fresman Seminar	1
GE 102	English Comp & Grammar	3
GE 185	Health Concepts	2
GE 140	World Civ I	3
	Fine Arts Elective 1	2
	PE Elective	1
		15

Second Semester

MATH 165	Calculus of Single Variable I	4
CSC 114	Intro to Computer Science	3
GE 103	English Comp and Vocab	3
GE 141	World Civ 2	3
	Fine Arts Elective 2	2
	Social & Behavior Elective	3
		18

Sophomore Year
First Semester

Course and number		Semester hrs
MATH 265	Calculus of Single Variable II	4
EDUC 210	Prof Stud I: Intro to Educ	3
CSC 230	Modern Programming App	3
GE 201	World Lit 1	3
	Social & Behav Elective	3
	PE Elective	1
		17

Second Semester

MATH 267	Calculus III	4
MATH 275	Foundations of Mathematics	3
MATH 351	Linear Algebra	3
PHYS 191	Univ Phys I	3
Phys 181L	General Physics Lab	1
	Lang & Lit Elective	3
		17

Junior Year
First Semester

Course and number		Semester hrs
MATH 354	Abstract Algebra I	3
STAT 351	Probability and Statistics	3
PHYS 192	Univ Phys II	3
Phys 182L	General Physics Lab	1
EDUC 310	Prof Studies II: SPED/Div Lr	3
EDUC 350	Int & Content Reading	3
		16

Second Semester

MATH 450	Advance Calculus	3
MATH 365	Junior Seminar	2
MATH 358	Differential Equations	3
MATH 262	Discrete Methods (Elective 1)	3
	MATH Elective 2	3
EDUC 360	Teaching and Assessment	3
		17

Senior Year
First Semester

Course and number		Semester hrs
MATH 455	Elements of Real Analysis	3
MATH 465	Exit Seminar in Mathematics	3
MATH 352	College Geometry (Elective 3)	3
	Math Elective 4	3
EDUC 430B		3
		15

Second Semester

EDUC 464	Obs Sup Tch in Math	12
EDUC 478	Sem in Contem Issues	P/F
		12

Minor Areas Offered in the Department
MINOR: Computer Science

CSC 215	Programming II	3
CSC 218	Data Structures	3
CSC 314	Computer Architecture	3
CSC 315	Programming Language Concepts	3
CSC 325	Database Systems	3
CSC 410	Net-Centric Computing	3
CSC 420	Operating Systems	3
Total hrs required for minor		**21**

MINOR: Mathematics

MATH 275	Foundations of Mathematics	3
MATH 265	Calculus of a single variable II	4
MATH 358	Differential Equations	3
MATH 351	Linear Algebra	3
STAT 351	Probability and Statistics I	3
	Choose one of the following:	
MATH 354	Abstract Algebra	3
MATH 450	Advanced Calculus	3
MATH 455	Real Analysis	3
MATH 462	Mathematical Modeling	3
Total hrs required for minor		**19**

DR. HERMAN G. COOKE DEPARTMENT OF NATURAL SCIENCES, PHARMACY & HEALTH PROFESSIONS

The Dr. Herman G. Cooke Department of Natural Sciences, Pharmacy & Health Professions provides a solid educational foundation in both theoretical and investigative science with an emphasis on critical thinking and problem solving skills. The department prepares students for productive careers in natural sciences and entry into graduate or professional schools. The department offers three majors leading to the Bachelor of Science Degree: Bachelor of Science in Biology, Bachelor of Science in Chemistry, and Bachelor of Science in Pharmaceutical Science. The department offers one major leading to the Master of Science Degree with a concentration in Biological Sciences or Biology Education.
Students have the option of selecting a minor in Comprehensive Science which prepares them to receive a Class "A" public instruction license.
Students also have the option of selecting a concentration from the following:

Biochemistry
Biophysics
General Biology
Medical Physics
Pre-health Professionals
Pre-medicine/Pre-dentistry
Molecular Biology/Biotechnology

PROGRAM GOALS
Assist students in understanding basic unifying scientific principles through the provision of relevant facts, concepts, and theories;
Provide learning experiences to stimulate critical thinking and problem solving skills;
Enhance the overall educational experience of students with an interdisciplinary curriculum designed to enhance student performance on professional examinations;
Prepare students to be competitive for entry into the workforce or graduate and professional programs;
Collaborate with public school teachers, graduates, and professional institutions to broaden scientific career opportunities;
Attract, recruit, retain and produce more competitive students by enhancing program offerings and requirements to meet the global needs of the science major; and
Provide an atmosphere that will promote participation of faculty and students in professional development and community outreach activities.

ACADEMIC CONCENTRATION: Biology

BIOL 101	General Biology for Majors I/Lab	4
BIOL 102	General Biology for Majors II/Lab	4
BIOL 306	Human Anatomy/Lab	4
BIOL 307	Human Physiology/Lab	4
BIOL 341	Microbiology/Lab	4
BIOL 380	Cell Biology	3
BIOL 210	Genetics/Lab	4
BIOL 300	General Ecology/Lab	4
Total Semester Hours Required for Academic Concentration		**31 under**

MAJOR: B.S. Degree in Biology (Concentration - General Biology)

A. General Education Core		**47**
B. Major Core Requirements		
1. Core Courses		45
BIOL 101	General Biology for Majors I/Lab	4
BIOL 102	General Biology for Majors II/Lab	4
BIOL 210	Genetics/Lab	4
BIOL 220	General Zoology/Lab	4
BIOL 221	General Botany/Lab	4
BIOL 300	General Ecology/Lab	4
BIOL 304	Organic Evolution	3
BIOL 307	Human Physiology/Lab	4
BIOL 341	Microbiology/Lab	4
BIOL 352	Molecular Biology/Lab	4
BIOL 486	Scientific Communication/Capstone	3
BIOL 487	Statistical Applications in the Sciences	3
2. Concentration or Cluster of Restricted Electives		**15**
BIOL 300/400	Restricted Electives	7
CHEM 301/L	Organic Chemistry I/Lab	4
CHEM 302/L	Organic Chemistry II/Lab	4
C. Related Area Course Requirements		**12**
CHEM 401/L	Biochemistry I/Lab	4
PHYS 181/L	General Physics I/Lab	4
PHYS 182/L	General Physics II/Lab	4
D. Free Electives		**6**

**Students must obtain a minimum grade of "C" in all Major Core Requirements and Related Area Course Requirements.*

(Note: GE 118, CHEM 101/101L and 102/102L must be taken to satisfy the Natural Science Requirements for General Education)

Total Required for Degree **125**

Curriculum Guide for Majors in Biology General Biology

Freshman Year
First Semester

Course and number		**Semester hrs**

BIOL 101	General Biology for Majors I/Lab	4
CHEM 101/L	General Chemistry I/Lab	4
GE 185	Health Concepts	2
GE 102	English Comp. & Grammar	3
GE 135	Intro. to Music Literature	2
GE 122	Freshman Seminar	1
		16

Second Semester

BIOL 102	General Biology for Majors II/Lab	4
CHEM 102/L	General Chemistry II/Lab	4
GE 118	Precalculus	3
GE 103	English Comp. & Vocabulary	3
GE	Physical Ed. Activity	1
		15

Sophomore Year

First Semester

Course and number		Semester hrs
BIOL 210	Genetics/L	4
BIOL 220	General Zoology/L	4
CHEM 301/L	Organic Chemistry I/Lab	4
GE 140	World Civilization I	3
GE 201	World Literature I	3
		18

Second Semester

BIOL 221	General Botany/L	4
BIOL 341	Microbiology/L	4
CHEM 302/L	Organic Chemistry II/L	4
GE 141	World Civilization II	3
GE 202	World Literature II	3
		18

Junior Year

First Semester

Course and number		Semester hrs
PHYS 181/L	General Physics I/Lab	4
CHEM 401/L	Biochemistry/Lab	4
BIOL 304	Organic Evolution	3
PSY 212	General Psychology	3
GE 130	Art Appreciation	2
		16

Second Semester

PHYS 182/L	General Physics II/Lab	4
BIOL 300	General Ecology/L	4
BIOL 487	Stat. Applic. in the Sciences	3
GE	Social/Behavioral Science	3
GE	Phys. Ed. Activity	1
		15

Senior Year

First Semester

Course and number		Semester hrs
BIOL 352	Molecular Biology/L	4
BIOL 307	Human Physiology/L	4
BIOL 300/400	Biology Electives	3
CSC 114	Intro to Computer Science	3
		14

Second Semester

BIOL 486	Scientific Comm./Capstone	3
BIOL 300/400	Biology Electives	4
	Free Electives	6
		13

Total Requirements for the Degree **125**

MAJOR: B.S. Degree in Biology (Comprehensive Science Licensure)

A. General Education Core		**42**
B. *Major Core Requirements		
1. Core Courses		30
BIOL 101	General Biology for Majors I/Lab	4
BIOL 102	General Biology for Majors II/Lab	4
BIOL 210	Genetics/Lab	4
BIOL 220	General Zoology/Lab	4
BIOL 221	General Botany/Lab	4
BIOL 304	Organic Evolution	3
BIOL 352	Molecular Biology/Lab	4
BIOL 486	Scientific Communication/Capstone	3
2. Concentration or Cluster of Restricted Electives		**11**
BIOL 300	General Ecology/Lab	4
CHEM 301/L	Organic Chemistry I/Lab	4
GE 142	Introduction to Geography	3
C. Related Area Course Requirements		**12**
GE 158/L	Prin. of Geol. Sci./Lab	4
PHYS 181/L	General Physics I/Lab	4
PHYS 182/L	General Physics II/Lab	4
D. Comprehensive Science Licensure**		**30**
EDUC 203	Intro to Computer Inst. Technology	3
EDUC 210	Prof. Studies I; Intro to Education	3
EDUC 211	Prof. Studies I Field Experience	P/F
EDUC 310	Prof Studies II: Sp Ed & Div Learners	3
EDUC 311	Prof Studies II: Field Experience	P/F
EDUC 350	Teaching Intern. & Content Reading	3
EDUC 351	Teach Intern & Cont. Reading: Field Expr	P/F
EDUC 360	Prof Studies III; Teach and Assessment	3
EDUC 430C	Secondary & Mid Grades Sci Inst Meth	3
EDUC 476	Obs & Supervised Student Teach in Bio	12
EDUC 478	Seminar in Contemp. Ed issues	P/F
Total Required for Degree		**125**

** Students must obtain a minimum grade of C in all Major Core Requirements, Related Area Core Requirements and Minor Core Requirements.*

(Note: MATH 165, CHEM 101/101L and 102/102L must be taken to satisfy the Natural Science Requirements for General Education)

** Students who have not passed TEP entry exam are required to take EDUC 190 – Pre Professional Studies (2 credit hours). To assist in meeting test score requirements for admittance to Teacher Education, students may take the following electives EDUC 160 – Pre Professional Studies I: Reading (2 credit hours); EDUC 170 Pre Professional Studies II: Mathematics (2 credit hours) and/or EDUC 180 Pre Professional Studies III: Writing (2 credit hours)

Curriculum Guide for Majors in Biology (Comprehensive Science Licensure)

Freshman Year

First Semester

Course and number		Semester hrs
BIOL 101	General Biology for Majors I/Lab	4
CHEM 101/L	General Chemistry I/Lab	4

GE 102	English Comp. & Grammar	3
GE 185	Health Concepts	2
GE 135	Intro. to Music Literature	2
GE 122	Freshman Seminar	1
		16

Second Semester

BIOL 102	General Biology for Majors II/Lab	4
CHEM 102/L	General Chemistry II/Lab	4
MATH 165	Calculus Single Variable I	4
GE 103	English Comp. & Vocabulary	3
SPCH 214	College Speech	2
		17

Sophomore Year
First Semester

Course and number		Semester hrs
BIOL 220	General Zoology/Lab	4
CHEM 301/L	Organic Chemistry I/Lab	4
GE 140	World Civilization I	3
GE	Physical Ed. Activity	1
EDUC 203	Intro to Comp. Instr. Tech	3
		15

Second Semester

BIOL 221	General Botany/Lab	4
BIOL 210	Genetics	4
GE 141	World Civilization II	3
PSY 212	General Psychology	3
EDUC 210	Prof Studies I: Intro to Education	3
EDUC 211	Prof Studies I: Field Exp	P/F
		17

Junior Year
First Semester

Course and number		Semester hrs
BIOL 300	General Ecology/Lab	4
BIOL 304	Organic Evolution	3
PHY 181/L	General Physics/Lab	4
EDUC 310	Prof Studies II: Diverse Lear	3
EDUC 311	Prof Studies II: Field Exp	P/F
EDUC 350	Teaching Inter & Content Reading	3
EDCU 351	Teach Inter & Cont Read Field Exp	P/F
		17

Second Semester

BIOL 352	Molecular Biology/Lab	4
PHY 182/L	General Physics II/Lab	4
GE 142	Introduction To Geography	3
SPAN 101	Spanish I	3
EDUC 360	Prof Stud III: Teach & Assessment	3
		17

Senior Year
First Semester

Course and number		Semester hrs
BIOL 486	Scientific Comm./Capstone	3
GE	Physical Ed. Activity	1
GE 158/L	Principles of Geology	4
GE 201	World Literature I	3
EDUC 430C	Secondary & Middle Grades Methods	3
		14

Second Semester

EDUC 476	Observation + Supervised Teach	12
EDUC 478	Seminar in Contemp. Issues	P/F
		12

Total Requirements for the Degree **124**

MAJOR: B.S. Degree in Biology (Concentration - Molecular Biology/Biotechnology)

A. General Education Core		**48**
B. Major Core Requirements*		
1. Core Courses		43
BIOL 101	General Biology for Majors I/Lab	4
BIOL 102	General Biology for Majors II/Lab	4
BIOL 210	Genetics/Lab	4
BIOL 220	General Zoology/Lab	4
BIOL 221	General Botany Lab	4
BIOL 341	Microbiology/Lab	4
BIOL 352	Molecular Biology/Lab	4
BIOL 380	Cell Biology	3
BIOL 486	Scientific Communication/Capstone	3
BIOL 487	Stat. Appl. in the Sciences	3
CSC 115	Programing 1	3
BIOL 499	Biological Research	3
2. Concentration or Cluster of Restricted Electives		16
BIOL 300/400	Biology Electives	8
CHEM 301/L	Organic Chemistry I/L	4
CHEM 302/L	Organic Chemistry II/L	4
C. Related Area Course Requirements		**12**
CHEM 401/L	Biochemistry/Lab	4
PHYS 181/L	General Physics I/Lab	4
PHYS 182/L	General Physics II/Lab	4
D. Free Electives		**6**

** Students must obtain a minimum grade of C in all Major Core Requirements and Related Area Course Requirements.*

(Note: Math 165, CHEM 101/101L and 102/102L must be taken to satisfy the Natural Science Requirements for General Education

Total Required for Degree **125**

Curriculum Guide for Majors in Biology Molecular Biology/Biotechnology

Freshman Year
First Semester

Course and number		Semester hrs
BIOL 101	General Biology for Majors I/Lab	4
CHEM 101/L	General Chemistry I/Lab	4
GE 185	Health Concepts	2
GE 102	English Comp. & Grammar	3
GE 135	Intro. to Music Literature	2
GE 122	Freshmen Seminar	1
		16

Second Semester

BIOL 102	General Biology for Majors II/Lab	4
CHEM 102/L	General Chemistry II/Lab	4
MATH 165	Calculus of Single Variable I	4
GE 103	English Comp. & Vocabulary	3
GE	Physical Ed. Activity	1
		16

Sophomore Year
First Semester

Course and number	Semester hrs

BIOL 210	Genetics/Lab	4
BIOL 220	General Zoology/Lab	4
CHEM 301/L	Organic Chemistry I/Lab	4
GE 140	World Civilization I	3
GE 201	World Literature I	3
		18

Second Semester

BIOL 221	General Botany/Lab	4
BIOL 341	Microbiology/Lab	4
CHEM 302/L	Organic Chemistry II/Lab	4
GE 141	World Civilization II	3
GE 202	World Literature II	3
		18

Junior Year
First Semester

Course and number		Semester hrs
PHYS 181/L	General Physics I/Lab	4
CHEM 401/L	Biochemistry I/Lab	4
PSY 212	General Psychology	3
BIOL 487	Stat. Appl. in the Sciences	3
CSC 114	Introduction to Computer Science	3
		17

Second Semester

PHY 182/L	General Physics II/Lab	4
GE	Social/Behavioral Science	3
BIOL 300/400	Biology Electives	4
BIOL 352	Molecular Biology/Lab	4
GE	Physical Ed. Activity	1
		16

Senior Year
First Semester

Course and number		Semester hrs
BIOL 380	Cell Biology	3
BIOL 499	Biological Research	3
CSC 115	Programing I	3
GE 130	Art Appreciation	2
	Free Electives	1
		12

Second Semester

BIO L 486	Scientific Communication/Capstone	3
BIOL 300/400	Biology Electives	4
	Free Electives	5
		12

Total Requirements for the Degree **125**

MAJOR: B.S. Degree in Biology (Concentration - Pre-Medicine/Pre-Dentistry)

A. General Education Core		**48**
B. *Major Core Requirements		
1. Core Courses		**45**
BIOL 101	General Biology for Majors I/Lab	4
BIOL 102	General Biology for Majors II/Lab	4
BIOL 210	Genetics/Lab	4
BIOL 220	General Zoology/Lab	4
BIOL 221	General Botany/Lab	4
BIOL 306	Human Anatomy/Lab	4
BIOL 307	Human Physiology/Lab	4
BIOL 341	Microbiology/Lab	4
BIOL 352	Molecular Biology/Lab	4
BIOL 380	Cell Biology	3
BIOL 486	Scientific Communication/Capstone	3
BIOL 487	Stat. Appl. in the Sciences	3
2. Concentration or Cluster of Restricted Electives		**14**
BIOL 300/400	Biology Electives	6
CHEM 301/L	Organic Chemistry I/Lab	4
CHEM 302/L	Organic Chemistry II/Lab	4
C. Related Area Course Requirements		**12**
CHEM 401/L	Biochemistry/Lab	4
PHYS 181/L	General Physics I/Lab	4
PHYS 182/L	General Physics II/Lab	4
D. Free Electives		**6**
Total Semester Hours Required for Degree		**125**

**Students must obtain a minimum grade of C in all Major Core Requirements and Related Area Course requirements.*

(Note: MATH 165, CHEM 101/101L and CHEM 102/102L must be taken to satisfy the Natural Science requirements for General Education)

Curriculum Guide for Majors in Biology Pre-Medicine/Pre-Dentistry

Freshman Year
First Semester

Course and number		Semester hrs
BIOL 101	General Biology for Majors I/Lab	4
CHEM 101/L	General Chemistry I/Lab	4
GE 185	Health Concepts	2
GE 102	English Comp. & Grammar	3
GE 122	Freshman Seminar	1
GE 135	Intro to Music Literature	2
		16

Second Semester

BIOL 102/L	General Biology for Majors II/Lab	4
CHEM 102	General Chemistry II/Lab	4
MATH 165	Calculus of Single Variable I	4
GE 103	English Comp. & Vocabulary	3
GE	Physical Ed. Activity	1
		16

Sophomore Year
First Semester

Course and number		Semester hrs
BIOL 210	Genetics/Lab	4
BIOL 220	General Zoology/Lab	4
CHEM 301/L	Organic Chemistry I/Lab	4
GE 140	World Civilization I	3
GE 201	World Literature I	3
		18

Second Semester

BIOL 341	Microbiology/Lab	4
BIOL 221	General Botany/Lab	4
CHEM 302/L	Organic Chemistry II/Lab	4
GE 141	World Civilization II	3
GE 202	World Literature II	3
		17

Junior Year
First Semester

Course and number		Semester hrs
PHYS 181/L	General Physics I/Lab	4
CHEM 401/L	Biochemistry I/Lab	4

BIOL 306	Human Anatomy/Lab	4
BIOL 487	Stat. Application in the Sciences	4
PSY 212	General Psychology	3
		18

Second Semester

PHY 182/L	General Physics II/Lab	4
BIOL 307	Human Physiology	4
BIOL 352	Molecular Biology/Lab	4
GE	Social and Behavioral Science	3
		15

Senior Year
First Semester

Course and number		Semester hrs
BIOL 380	Cell Biology	3
CSC 114	Introduction to Computer Science	3
GE 130	Art Appreciation	2
GE	Phys. Ed. Activity	1
	Free Electives	3
		12

Second Semester

BIOL 486	Scientific Communication/Capstone	3
BIOL 300/400	Biology Electives	6
	Free Electives	3
		12

Total Requirements for the Degree **125**

MAJOR: B.S. Degree in Chemistry

A. General Education Core		**39**
B. Major Core Requirements		**50**
CHEM 101/101L	General Chemistry I/Lab	4
CHEM 102/102L	General Chemistry II/Lab	4
CHEM 200	Additional Topics in General Chemistry	3
CHEM 202/202L	Quantitative Chemistry /Lab	4
CHEM 205/205L	Inorganic Chemistry	4
CHEM 215	Introduction to Biomedical Science	3
CHEM 219	Basic Principles of Research	3
CHEM 301/301L	Organic Chemistry I/Lab	4
CHEM 302/302L	Organic Chemistry II/Lab	4
CHEM 350	Chemistry Seminar	1
CHEM 395	Introduction to Neurochemistry	3
CHEM 401/401L	Biochemistry I/Lab	4
CHEM 403/403L	Physical Chemistry I	4
CHEM 425/425L	Selected Topics in Organic Chemistry	4
CHEM 499	Chemical Research	2
C. Related Area Courses (Required)		**24**
BIOL 101/101L	General Biology I/Lab	4
BIOL 102/102L	General Biology II/Lab	4
PHYS 191/181L	University Physics I/Lab	4
PHYS 192/182L	University Physics II/Lab	4
MATH 165	Calculus I	4
MATH 265	Calculus II	4
D. Without Concentration		11
CHEM 404L	Physical ChemistryII/Lab	4
CHEM 405L	Instrumental Methods/Lab	4
CHEM 450	Chemistry: An Integrated Appr.	3
Total Semester Hours Required for Degree		**128**

Curriculum Guide for Major in Chemistry

Freshman Year
First Semester

Course and number		Semester hrs
GE 102	English Composition & Grammar	3
GE 118	Precalculus	3
GE 122	Freshman Seminar	1
GE 140	World Civilization I	3
MUS 212	African Americans Music	2
GE	Physical Ed. Activity	1
CHEM 101/101L	General Chemistry/Lab	4
		17

Second Semester

GE 103	English Composition & Vocabulary	3
GE 130	Art Appreciation	2
GE 141	World Civilization II	3
MATH 165	Calculus I	4
CHEM 102/102L	General Chemistry II/Lab	4
GE	Physical Ed. Activity	1
		17

Sophomore Year
First Semester

Course and number		Semester hrs
GE 201	World Literature I	3
CHEM 301/301L	Organic Chemistry/Lab	4
MATH 265	Calculus II	4
BIOL 101/101L	General Biology I/Lab	4
CHEM 200	Additional Topics in Gen Chemistry	3
		18

Second Semester

GE 202	World Literature II	3
GE 185	Health Concepts	2
CHEM 202/202L	Quantitative Chemistry	4
CHEM 219	Basic Principles of Research	3
BIOL 102/102L	General Biology II/Lab	4
CSC 114	Introduction to Computer Science	3
		16

Junior Year
First Semester

Course and number		Semester hrs
CHEM 350	Chemistry Seminar	1
PSY 212	General Psychology	3
CHEM 215	Intro. to Biomed. Science	3
CHEM 301/301L	Organic Chemistry/Lab	4
CHEM 205/L	Inorganic Chemistry/Lab	4
		15

Second Semester

PHYS 191/181L	University Physics I/Lab	4
CHEM 302/302L	Organic Chemistry II	4
CHEM 401/L	Biochemistry I/Lab	4
SOC 201	Introduction to Sociology	3
		15

Senior Year
First Semester

Course and number		Semester hrs
CHEM 395	Introduction to Neurochemistry	3
CHEM 403/403L	Physical Chemistry I/Lab	4
CHEM 405	Instrumental Methods	4
PHYS 192/192L	University Physics II/Lab	4
		15

Second Semester

CHEM 404/404L	Physical Chemistry II/Lab	4
CHEM 499	Chemical Research	2
CHEM 450	Chemistry: An Integrated App.	3
CHEM 425/425L	Selected Topics in Organic Chem/Lab	4
		13

MAJOR: B.S. Degree in Chemistry with Concentrations

A. General Education Core		**39**
B. Major Core Requirements		**50**
CHEM 101/101L	General Chemistry I/Lab	4
CHEM 102/102L	General Chemistry II/Lab	4
CHEM 200	Additional Topics in General Chemistry	3
CHEM 202/202L	Quantitative Chemistry/Lab	4
CHEM 205/205L	Inorganic Chemistry	4
CHEM 215	Introduction to Biomedical Science	3
CHEM 219	Basic Principles of Research	3
CHEM 301/301L	Organic Chemistry I/Lab	4
CHEM 302/302L	Organic Chemistry II/Lab	4
CHEM 350	Chemistry Seminar	1
CHEM 395	Introduction to Neurochemistry	3
CHEM 401/401L	Biochemistry I/Lab	4
CHEM 403/403L	Physical Chemistry I/Lab	4
CHEM 450	Chemistry: An Integrated App.	3
CHEM 499	Chemical Research	2
C. Related Area Courses (Required)		**24**
BIOL 101/101L	General Biology I/Lab	4
BIOL 102/102L	General Biology III/Lab	4
PHYS 191/181L	University Physics I/Lab	4
PHYS 192/182L	University Physics III/Lab	4
MATH 165	Calculus I	4
MATH 265	Calculus II	4
D. Concentration in Biochemistry		**15**
CHEM 402/402L	Biochemistry II	4
CHEM 405/405L	Instrumental Methods/Lab	4
CHEM 407/407L	Applied Biochemistry	4
BIOL 380	Cell Biology	3

Curriculum Guide for Major in Chemistry with a Concentration in Biochemistry

Freshman Year
First Semester

Course and number		**Semester hrs**
GE 102	English Composition & Grammar	3
GE 118	Precalculus	3
GE 122	Freshman Seminar	1
GE 140	World Civilization I	3
MUS 207	African Americans in Music	2
GE	Physical Ed. Activity	1
CHEM 101/101L	General Chemistry/Lab	4
		17

Second Semester

GE 103	English Composition & Vocabulary	3
GE 130	Art Appreciation	2
GE 141	World Civilization II	3
MATH 165	Calculus I	4
CHEM 102/102L	General Chemistry II/Lab	4
GE	Physical Activity	1
		17

Sophomore Year
First Semester

Course and number		**Semester hrs**
GE 201	World Literature I	3
CHEM 200	Additional Topics in Gen Chemistry	3
MATH 265	Calculus II	4
BIOL 101/101L	General Biology I/Lab	4
CHEM 219	Basic Principles of Research	3
		17

Second Semester

GE 202	World Literature II	3
CHEM 202/202L	Quantitative Chemistry/Lab	4
BIOL 102/102L	General Biology II/Lab	4
CHEM 215	Intro. to Biomedical Science	3
GE 185	Health Concepts	2
		16

Junior Year
First Semester

Course and number		**Semester hrs**
CHEM 205/205L	Inorganic Chemistry/Lab	4
CHEM 395	Introduction to Neurochemistry	3
PSY 212	General Psychology	3
CSC 114	Introduction to Computer Science	3
CHEM 301/301L	Organic Chemistry/Lab	4
		15

Second Semester

BIOL 485	Medical Terminology	1
CHEM 302/302L	Organic Chemistry III/Lab	4
CHEM 350	Chemistry Seminar	1
SOC 201	Intro. to Sociology	3
CHEM 401/401L	Biochemistry I/Lab	4
CHEM 403/403L	Physical Chemistry/Lab	4
		17

Senior Year
First Semester

Course and number		**Semester hrs**
PHYS 191/191L	University Physics I/Lab	4
CHEM 402/402L	Biochemistry II/Lab	4
BIOL 380	Cell Biology	3
CHEM 405/405L	Instrumental Methods/Lab	4
		15

Second Semester

PHYS 192/192L	University Physics II/Lab	4
CHEM 450	Chemistry: An Integrated App.	3
CHEM 407/L	Applied Biochemistry I/Lab	4
CHEM 499	Chemical Research	2
		13

MAJOR: B.S. Degree in Chemistry with Concentrations

A. General Education Core		**39**
B. Major Core Requirements		**50**
CHEM 101/101L	General Chemistry I/Lab	4
CHEM 102/102L	General Chemistry II/Lab	4
CHEM 200	Additional Topics in General Chemistry	3
CHEM 202/202L	Quantitative Chemistry/Lab	4
CHEM 205/205L	Inorganic Chemistry	4
CHEM 215	Introduction to Biomedical Science	3
CHEM 219	Basic Principles of Research	3
CHEM 301/301L	Organic Chemistry I/Lab	4

CHEM 302/302L	Organic Chemistry II/Lab	4
CHEM 350	Chemistry Seminar	1
CHEM 395	Introduction to Neurochemistry	3
CHEM 401/401L	Biochemistry I/Lab	4
CHEM 403/403L	Physical Chemistry I/Lab	4
CHEM 450	Chemistry: An Integrated App.	3
CHEM 499	Chemical Research	2
C. Related Area Courses (Required)		**24**
BIOL 101/101L	General Biology I/Lab	4
BIOL 102/102L	General Biology III/Lab	4
PHYS 191/181L	University Physics I/Lab	4
PHYS 192/182L	University Physics III/Lab	4
MATH 165	Calculus I	4
MATH 265	Calculus Ii	4
D. Concentration in Pre-Health Professions		**16**
BIOL 380	Cell Biology	3
BIOL 207/207L	Human Anatomy/Lab	4
BIOL 307/307L	Human Physiology	4
BIOL 341	Microbiology	4
BIOL 485	Medical Terminology	1

Curriculum Guide for Major in Chemistry with a Concentration in Pre-Health Professions

Freshman Year
First Semester

Course and number		Semester hrs
GE 102	English Composition & Grammar	3
GE 118	Precalculus	3
GE 122	Freshman Seminar	1
GE 140	World Civilization I	3
MUS 212	African Americans in Music	2
GE	Physical Ed. Activity	1
CHEM 101/L	General Chemistry I/Lab	4
		17

Second Semester

GE 103	English Composition & Vocabulary	3
GE 130	Art Appreciation	2
GE 141	World Civilization II	3
MATH 165	Calculus I	4
CHEM 102/L	General Chemistry I/Lab	4
GE	Physical Activity	1
		17

Sophomore Year
First Semester

Course and number		Semester hrs
GE 201	World Literature I	3
CHEM 219	Basic Principles of Research	3
MATH 265	Calculus II	4
BIOL 101/L	General Biology I/Lab	4
CHEM 200	Additional Topics in Gen. Chem.	3
		17

Second Semester

GE 202	World Literature II	3
BIOL 102/L	General Biology II/Lab	4
CHEM 202/202L	Quantitative Chemistry/Lab	4
CHEM 215	Introduction to Biomedical Science	3
GE 185	Health Concepts	2
		16

Junior Year
First Semester

Course and number		Semester hrs
BIOL 207/L	Human Anatomy/Lab	4
CHEM 205/L	Inorganic Chemistry	4
PSY 212	General Psychology	3
BIOL 485	Medical Terminology	1
CHEM 301/301L	Organic Chemistry I/ Lab	4
CHEM 350	Chemistry Seminar	1
		17

Second Semester

BIOL 307/L	Human Physiology/Lab	4
CHEM 395/L	Introduction to Neurochemistry	3
CHEM 302/302L	Organic Chemistry II/Lab	4
CSC 114	Introduction to Computer Science	3
SOC 201	Introduction to Sociology	3
		17

Senior Year
First Semester

Course and number		Semester hrs
PHYS 191/191/L	University Physics I/Lab	4
CHEM 403/L	Physical Chemistry/Lab	4
CHEM 405/405L	Instrumental Methods/Lab	4
BIOL 341	Microbiology	4
		16

Second Semester

CHEM 450	Chemistry: An Integrated App.	3
PHYS 192/192L	University Physics II/Lab	4
BIOL 380	Cell Biology	3
CHEM 499	Chemical Research	2
		12

MINOR: Geology

GE 158/L	Prin. of Geological Science/Lab	4
GEOL 143	Historical Geology	4
GEOL 332	Geomorphology	3
GEOL 341	Mineralogy	3
GEOL 345	Paleontology	3
GEOL 440	Structural Geology	3
Total Hours Required for Minor		**20**

MINOR: GIS/Remote Sensing

CSC 115	Computer Science I	3
GEOG 221	Cartographic Principles	3
GEOL 332	Geomorphology	3
GEOL 360	Prin. Geographic Info. System (GIS)	4
GEOL 365	Introduction to Remote Sensing and Digital Image Processing	4
GEOL 461	Advanced GIS	4
Total Hours Required for Minor		**21**

MINOR: Marine Environmental Science.

BIOL 101	General Biology for Majors I/Lab	4
BIOL 102	General Biology for Majors II/Lab	4
MAS 331	Marine Biology	3
MAS 333	Wetlands and Ocean Chemistry	4
MAS 402	Physical Oceanography	3
Total Semester Hours Required for Minor		**18**

MINOR: Chemistry

Required Courses		**17**
CHEM 101/101L	General Chemistry I/Lab	3/1
CHEM 102/102L	General Chemistry II/Lab	3/1
CHEM 202/202L	Quantitative Analysis/Lab	2/2
CHEM 301/301L	Organic Chemistry I/Lab	3/1
Select One Course From The Following		**4**
CHEM 302/302L	Organic Chemistry II/Lab	3/1
OR		
CHEM 401/401L	Biochemistry/Lab	3/1
OR		
CHEM 403/403L	Physical Chemistry I/Lab	3/1
Total Semester Hours Required for Minor		**20**

MINOR: Biotechnology

BIOL 101	General Biology for Majors I/Lab	4
BIOL 102	General Biology for Majors II/Lab	4
BIOL 350	Intro. Experimental-Methods	3
BIOL 405	Animal Biotechnology/Lab	4
BIOL 406	Plant Biotechnology/Lab	4
BIOL 490	Ethics in Biotechnology	1
Total Semester Hours Required for Minor		**20**

CHEM 301/L is a required co-requisite for the Biotechnology minor.

MINOR: Physics

Required Courses		**17**
PHYS 191/181L	University Physics I/Lab	3/1
PHYS 192/182L	University Physics II/Lab	3/1
PHYS 193	University Physics II!	3
PHYS 201	Mechanics I	3
PHYS 301	Electricity and Magnetism I	3
Select One Course From The Following		**3**
PHYS 202	Mechanics II	3
OR		
PHYS 310	Optics	3
OR		
PHYS 320	Thermodynamics	3
Total Semester Hours Required for Minor		**20**

MINOR: Biology

BIOL 101	General Biology for Majors I/Lab	4
BIOL 102	General Biology for Majors II/Lab	4
BIOL 201	Comp. Vert. Anat./Lab	4
BIOL 307	Human Physiology/Lab	4
BIOL 341	Microbiology/Lab	4
Total Semester Hours Required for Minor		**20**

MAJOR: B.S. Degree in Pharmaceutical Sciences

The Bachelor of Science in Pharmaceutical Sciences (BSPS) is a four-year baccalaureate program. Pharmaceutical Sciences combine a broad range of scientific disciplines that are critical to development, design, and discovery of new drugs and therapies. The degree is designed for students who wish to pursue careers in pharmaceutical industry, biotechnology industry, biomedical industry, pharmaceutical sales, pharmacy and health care administrations. **(Please note: This four-year program does not qualify graduates to take licensure examinations to become registered pharmacists.)**

MAJOR: B.S. Degree in Pharmaceutical Science

A. General Education core……..49
B. Major Core Requirements …….34

- Core Courses

PHSC 200	Foundations of Pharmaceutical	1
PHSC 300	Principles of Pharmacology	3
PHSC 302	Principles of Pharmacology II	3
PHSC 320	Pharmaceutical Analysis I	3
PHSC 321	Pharmaceutical Analysis/Lab	4
PHSC 360	Pathophysiology	3
PHSC 402	Pharmaceutics/Lab	4
PHSC 403	Pharmaceutical Biochemistry I	3
PHSC 404	Pharmaceutical Biochemistry II	3
PHSC 421	Methods in Biotechnology	3
PHSC 432	Advanced Medicinal Chemistry	3
PHSC 499	Capstone Seminar	1

C. Related Area Course Requirements 42

BIOL 101	General Biology for Majors I	4
BIOL 102	General Biology for Majors II	4
BIOL 215	Anatomy & Physiology I	4
BIOL 216	Anatomy & Physiology II	4
BIOL 341	Microbiology	4
BIOL 352	Frontiers in Molecular Biology	3
CHEM 301/L	Organic Chemistry I/L	4
CHEM 302/L	Organic Chemistry II/L	4
CHEM 430	Introduction to Medicinal Chemistry	3
PHYS 181/L	General Physics/L	4
PHYS 182/L	General Physics II/L	4
Total Semester Hours		**125**

Curriculum Guide for Pharmaceutical Sciences

Freshman Year
First Semester

Course and number		**Semester hrs**
GE 102	English Composition & Grammar	3
GE 118	Pre-Calculus	3
GE 122	Freshman Seminar	1
BIOL 101/L	General Biology I	4
CHEM 101/L	General Chemistry I/Lab	4
		15

Second Semester

GE 103	English Composition & Vocabulary	3
GE	Fine Arts & Communications	2
BIOL 102/L	General Biology II	4
CHEM 102/L	General Chemistry II/Lab	4
MATH 165	Calculus I	4

		17

Sophomore Year
First Semester

Course and number		Semester hrs
GE 201	World Literature I	3
GE 185	Health Concepts	2
GE	Physical Education Course	1
CHEM 301/L	Organic Chemistry i/Lab	4
BIOL 215	Anatomy Physiology I	3
PHYS 181/L	General Physics I/Lab	4
PHSC 200	Foundations of Pharmaceutical Science	1
		18

Second Semester

GE 140	World Civilization	3
GE	Literature & Language	3
GE	Physical Education Course	1
CHEM 302/L	Organic Chemistry II/Lab	4
BIOL 216	Anatomy Physiology II	3
PHYS 182/L	General Physics II/Lab	4
		18

Junior Year
First Semester

Course and number		Semester hrs
GE 141	World Civilization II	3
PHSC 403	Pharmaceutical Biochemistry I	3
PHSC 402	Pharmaceutics/Lab	4
PHSC 320	Pharmaceutical Analysis I	3
BIOL 341	Microbiology	4
		17

Second Semester

GE 142	Social & Behavioral Science Elective	3
PHSC 360	Pathophysiology	3
SPCH 314	Public Speaking	3
PHSC 404	Pharmaceutical Biochemistry II	3
PHSC 321	Pharmaceutical Analysis l/Lab II	4
STAT 251	Basic Statistics	3
		16

Senior Year
First Semester

Course and number		Semester hrs
CSC 114	Computer Science	3
GLBS 200	Global Studies	3
CHEM 430	Introduction Medicinal Chemistry	3
BIOL 352	Frontiers in Molecular Bio	3
PHSC 300	Principles of Pharmacology I	3
		15

Second Semester

PHSC 499	Captone Seminar	1
SPCH 314	Public Speaking	3
PHSC 302	Principles of Pharmacology II	3
PHSC 432	Advanced Medicinal Chemistry	3
PHSC 421	Methods In Biotechnology	3
		13

Total Requirements for the Degree	**128**

Students must obtain a minimum grade of C in all major core requirements and related area course requirements.

(Note: CHEM 101/101L and CHEM 102/102L must be taken to satisfy the Natural Science requirement for General Education.)

DEPARTMENT OF SOCIAL AND BEHAVIORAL SCIENCES

Mission Statement of the Department of Social and Behavioral Sciences is to prepare students for careers and professions in Criminal Justice, History, Political Science Sociology, and Social Work
by providing training in theory, research, critical thinking, and combining local and global perspectives. The Department produces students with knowledge and skills critical for success in the emerging global information society of the 21st Century.

Goals of the Department of Social and Behavioral Sciences

- to prepare students for graduate and professional schools;
- to provide students the opportunities to develop skills in critical thinking, critical reading, writing, and analysis;
- to provide students with learning experience through course work, internships, educational activities, discipline related technology, and community service.

Statement on Plagiarism and Academic Dishonesty within the Department of Social and Behavioral Sciences

All of the Academic Programs in the Department of Social and Behavioral Sciences require formal writing projects. Students are required to produce and submit their original work in all classes. Each of the Programs has developed a procedure to address plagiarism that compliments the University Policy on plagiarism.

DEFINITION: Plagiarism, or academic dishonesty, is the act of taking credit for work done by another. It includes the following actions:

- "cutting and pasting" material found on the Internet, that is, taking chunks of content off of a Web page with citation;
- using material prepared by others, such as papers and assignments, and handing them in as if they were the student's own;
- taking direct quotations from any source - not just printed - without putting the words cited between quotation marks (" ") and providing citations; and rephrasing materials from another source and then failing to mention the source in a footnote/endnote and/or a "works cited" page.

Sources and included books, any content on a website, articles from magazines or journals, television or radio programming, oral interviews, lectures, written projects or any material illustrated on poster boards. In other words, if you use any content created by another, you must acknowledge the sources. Academic dishonesty also includes cheating on examinations, quizzes, or any in-class assignment. Cheating is defined by the instructor.

Criminal Justice Degree Program

Mission
The mission of the Criminal Justice program is to offer a quality academic program conducive to the learning experiences of students. Central to achieving this mission is an interdisciplinary program of study that prepares graduates for careers in criminal justice or to continue their education through advanced academic degrees. The mission will be accomplished in a stimulating academic environment that values diversity and fosters respect among students, faculty, and staff. The Criminal Justice Program's mission will complement the overall mission of the Department of Social and Behavioral Sciences and Elizabeth City State University.

Goals of the Criminal Justice Program

- to provide opportunities to enhance students' verbal, written, and technological skills to function effectively as future criminal justice professionals;
- to provide students with the knowledge and skills that will enable them to critically investigate issues regarding crime and justice; and
- to develop competent individuals capable of independent and effective decision-making in criminal justice organizations.

Only credit from institutions that are accredited by their regional higher education accrediting body is accepted for transfer into an undergraduate criminal justice program. No academic credit is awarded or accepted for transfer credit to the criminal justice major by the criminal justice program for life experience or for military, police academy, or other professional training. The Criminal Justice program requires students to repeat a core criminal justice

course if at least six years have elapsed since initial enrollment in a course. ECSU awards degrees only to those students who have earned at least 50 percent of the credit hours in the Criminal Justice program through instruction offered by ECSU.

Interdisciplinary Pre-Law Program

Students planning to enter law school should be aware of the recommendations of the Association of American Law Schools which describes the basic skills and insights it believes are fundamental to the later attainment of legal competence: (a) comprehensive ability and expression in words, (b) critical understanding of human institutions and values with which the law deals, and (c) creative power in thinking. Although no single course of instruction is prescribed by the American Bar Association, pre-law students (in consultation with the pre-law advisors) are urged to follow the designed pre-law curriculum. This program will facilitate the student's ability to think clearly, concisely, independently, and persuasively.

C. Related Courses		12
(Related area courses may not be used to satisfy General Education Requirements)		
Select 12 semester hours from the following:		
BMIS 190	Management Information Systems I	3
ENGL 317	Advanced Composition	3
	Related Course	3
SOC 302	Race and Ethnic Relations	3
CJ 216	Related Course	3
SOC 305	Sociology of the African-American	3
SPAN 101	Elementary Spanish I	3
OR		
SPAN 102	Elementary Spanish II	3
D. Minor/Electives		**21**
Total Semester Hours Required for Degree		**124**

Curriculum Guide for Majors in Criminal Justice

Freshman Year
First Semester

Course and number		**Semester hrs**
GE 102	English Comp & Grammar	3
GE 115	College Algebra	3
GE 122	Freshman Seminar	1
GE 135	Intro to Music Lit	2
GE 140	World Civilization I	3
GE	Natural Science/Lab	4
GE	Physical Education Activity	1
		17

Second Semester

GE 103	English Comp & Vocabulary	3
GE 130	Art Appreciation	2
GE 185	Health Concepts	2
GE 141	World Civilization II	3
GE	Natural Science/Math	3
GE	Physical Education Activity	1
CJ 201	Introduction to Criminal Justice	3
		17

MAJOR: B.S. in Criminal Justice

A. General Education Core		**46**
B. Major Core Requirements		**45**
CJ 201	Introduction to Criminal Justice	3
CJ 203	Criminal Justice Ethics	3
CJ 204	Institutional Corrections	3
CJ 206	Police in American Society	3
CJ 210	Juvenile Justice System	3
CJ 310	American Constitution Law	3
CJ 311	Criminal Law	3
CJ 313	Research Methods in Criminal Justice	3
CJ 391	Criminology	3
CJ 392	Statistics in Criminal Justice	3
OR		
SOC 245	Social Statistics	
CJ 400	Juvenile Delinquency	3
CJ 492	Public Policy in Criminal Justice	3
CJ 489	Problems and Practice in Criminal Justice (Capstone Course)	3
CJ 499	Criminal Justice Internship **OR** Two 400 level criminal justice elective courses	6

Sophomore Year
First Semester

Course and number		**Semester hrs**
GE 201	World Literature I	3
GE	Social/Behavior Science	3
CJ 203	Criminal Justice Ethics	3
CJ 204	Institutional Corrections	3
GE 111	Introduction to Computing	3
		15

Second Semester

GE 202	World Literature II	3
GE	Social/Behavior Science	3
CJ 206	Police in American Society	3
CJ 210	Juvenile Justice System	3
	Related Courses	3
		15

Junior Year
First Semester

Course and number		**Semester hrs**
CJ 310	American Constitution Law	3
CJ 311	Criminal Law	3
CJ 392	Statistics in Criminal Justice	3
OR		
SOC 245	Social Statistics	
	Related Courses	3
	Minor/Electives	3
		15

Second Semester

CJ 391	Criminology	3
CJ 313	Research Methods in CJ	3
	Related Courses	3
	Minor/Electives	6
		15

Senior Year
First Semester

Course and number		**Semester hrs**
CJ 400	Juvenile Delinquency	3
CJ 489	Problems & Practice in CJ	3
CJ 492	Public Policy in Criminal Justice	3

CJ 499	Criminal Justice Internship	6
	OR Two 400 level criminal justice elective courses	
		15

Second Semester

	Related Courses	3
	Minor/Electives	12
		15
Total Semester Hours Required for Degree		**124**

History

Mission of the History Degree Program

The History Program is designed to provide students with a broad liberal arts education by creating an environment for students to develop academic skills in understanding their culture and history as well as those of other societies. The History program is committed to preparing thoughtful citizens and productive members of a global society by embracing both broad and deep content knowledge, pedagogical innovation, active internships and community service, and the extensive use of technology. The program is organized to prepare students for advanced study in history and laws, as well as careers in education, public history, government, research and other professions that require History's extensive and adaptable skill sets.

Goals of the History Program:

1. provide general studies courses for the General Education curriculum;
2. provide core courses leading to the B.A. Degree in History; prepare students for career opportunities and graduate studies in the fields of history, political science, public administration, public history, global studies, geography, law, and teaching in public and private schools through a minor in Secondary Education (Social Studies).

MAJOR: B.A. in History

A. General Education Core		**46**
B. Major Core Requirements		**42**
HIST 200	Introduction to History	3
HIST 250	African-American History to 1877	3
OR		
HIST 251	African-American History Since 1877	3
HIST 255	American History to 1877	3
HIST 256	American History Since 1877	3
HIST 397	Historical Methods and Historiography	3
HIST 499	History Seminar	3
	American History (select from 300-400)	6
	European History (select from 300-400)	6
	World History (select from 300-400)	6
	History Electives (select from 300-400)	6
C. Related Requirements		**9**
Political Science Courses take 9 semester hours		
POLS 298	American National Government	3
POLS 299	State and Local Government	3
POLS 307	American Political Ideas	3
PHIL 250	Introduction to Philosophy	3
PHIL 252	Critical Thinking and Logic	3
POLS 403	American Foreign Policy	3
POLS 483	International Relations	3
D. Minor and Electives		**27**
Total Semester Hours Required for Degree		**124**

You must receive a "C" or better in the following courses: HIST 200 Introduction to History, HIST 397 Historical Methods and Historiography, and HIST 499 History Seminar

Curriculum Guide for Majors in History

Freshman Year

First Semester

Course and number		Semester hrs
GE 102	English Comp. & Grammar	3
GE	Math for Liberal Arts or College Algebra	3
GE 122	Freshman Seminar	1
GE	Fine Arts/Comm.	2
GE 140	World Civilization I	3
GE	Natural Sci./Lab	4
GE	Physical Ed. Activity	1
		17

Second Semester

GE 141	World Civilization II	3
GE 103	English Comp. and Vocabulary	3
GE	Fine Arts/Comm	2
GE 185	Health Concepts	2
GE	Natural Sci. or Math	3
GE 111	Intro. to Computing	3
		16

Sophomore Year

First Semester

Course and number		Semester hrs
GE 201	World Literature I	3
GE	Physical Education Act	1
HIST 255	American Hist. to 1877	3
GE	Social & Behavioral Sciences	3
HIST 200	Intro to History	3
GE	Social & Behavioral Sciences	3
		16

Second Semester

GE	Language and Literature	3
HIST 250	African-American History I or HIST 251 African-American History II	3
HIST 256	American Hist. Since 1877	3
POLS/PHIL	Related Course	3
	Minor/Electives	3
		15

Junior Year

First Semester

Course and number		Semester hrs
HIST	American History(300-400)	3
HIST	World History (300-400)	3
HIST	European History (300-400)	3
POLS/PHIL	Related Courses	3
	Minor/Electives	6
		18

Second Semester

HIST	European History (300-400)	3
HIST 397	Hist. Meth. and Hist.	3
HIST	World History (300-400)	3

POLS/PHIL	Related Course	3
	Minor/Elective	3
		15

Senior Year
First Semester

Course and number		Semester hrs
HIST	European History (300-400)	3
HIST 499	History Seminar	3
HIST	History Elective (300-400)	3
	Minor/Electives	6
		15

Second Semester

	Minor/Electives.	9
HIST	History Elective (300-400)	3
		12
Total Semester Hours Required for Degree		**124**

MAJOR: B.A. in History with a Minor in Secondary Education

A. General Education Core		**46**
B. Major Core Requirements		**42**
HIST 200	Introduction to History	3
HIST 250	African-American History to 1877	3
OR		
HIST 251	African-American History Since 1877	3
HIST 255	American History to 1877	3
HIST 256	American History Since 1877	3
HIST 397	Historical Methods and History	3
HIST 499	History Seminar	3
	American History (select from 300-400)	6
	European History (select from 300-400)	6
	World History (select 300-400)	6
	History Electives (from below)	
BFIN 210	Personal Financial Mngt.	3
ECON 201	Principles of Economics	3
C. Related Courses		**9**
Political Science Courses take 9 semester hours:		
POLS 298	American National Government	3
POLS 299	State and Local Government	3
POLS 307	American Political Ideas	3
PHIL 250	Introduction to Philosophy	3
PHIL 252	Critical Thinking and Logic	3
D. Minor	Secondary Education Minor	**27**
Total Semester Hours Required for Degree		**124**

Curriculum Guide for Majors in History with a Minor in Secondary Education

Freshman Year
First Semester

Course and number		Semester hrs
GE 102	English Comp. and Grammar	3
GE	Math for Liberal Arts or College Algebra	3
GE 122T	Freshman Seminar	1
GE 185	Health Concepts	2
GE 140	World Civilization I	3
GE	Natural Sci./Lab	4
GE	Physical Ed. Activity	1
		17

Second Semester

GE 141	World Civilization II	3
GE 103	English Comp. and Vocabulary	3
GE	Fine Arts/Communication	2
EDUC 203	Intro to Computer Inst Tech	3
GE	Natural Sci. or Math.	3
PSY 212	Gen. Psychology	3
GE	Physical Ed. Activity	1
		18

Sophomore Year
First Semester

Course and number		Semester hrs
GEOG 201	World Geography OR GE 142	3
GE 201	World Literature I	3
* EDUC 190	Pre-Professional Studies I (see below)	2
EDUC 210	Introduction to Education	3
HIST 255	American Hist. To 1877	3
HIST 200	Intro. to History	3
EDUC 211B	Early Fld Exp: Int Ed Non-El Majors	P/F
		*15/17

Second Semester

GE	Language or Literature	3
HIST 250	Afro-American History I	3
OR		
HIST 251	African-American II	
HIST 256	American Hist. Since 1877	3
POLS/PHIL	Related Course	3
ECON 201	Principles of Economics I	3
GE	Fine Arts Communication	2
		17

Junior Year
First Semester

Course and number		Semester hrs
HIST	American History (300-400)	3
EDUC 310	Special Ed. & Diverse Learners	3
EDUC 311	Prof Studies II: SPED DLFE	P/F
HIST	American History (300-400)	3
HIST	World History (300-400)	3
POLS/PHIL	Related Course	3
		15

Second Semester

HIST	European History (300-400)	3
POLS/PHIL	Related Course	3
HIST 397	Historical Methods & Historiography	3
BFIN 210	Personal Financial Management	3
EDUC 350	Teaching Inter. & Content Rdg.	3
EDUC 351	Intermediate & Cont Rdg Field Exp	P/F
		15

Senior Year
First Semester

Course and number		Semester hrs
HIST	European History (300-400)	3
**EDUC 430A	Intern I/Sec/Mid Ins. Meth SS	3
HIST 499	History Seminar	3
EDUC 360	Teaching & Assessment	3
HIST	World History (300-400)	3
		15

Second Semester

EDUC 466	Internship II/Clin. Prac. Soc St.	12
EDUC 478	Seminar in Continuing Ed. Issues	P/F
Total Semester Hours Required for Degree		**124**

Social Work

EDUCATION (CSWE, JUNE 2007 and Reaffirmed June 2011)

Mission of the Social Work Program

The mission of the Social Work Program is to prepare students to be competent, effective, and professional generalist social work practitioners with special attention to rural and developing communities, and guided by a person in the environment construct in a global perspective. The social work curriculum prepares students for graduate social work education and other continuous learning opportunities. The curriculum reflects a competency- based educational framework and consists of pre-professional and professional social work courses.

Pre-Professional Social Work Courses

The five pre-professional courses are: SOWK 205:, SOWK 210:, SOWK 220:, SOWK 250:, and SOWK 260:. These courses are designed to introduce students to the social work profession, the National Association of Social Workers (NASW) Code of Ethics that identify ethical principles, core values, fields of practice, interviewing skills, dimensions of human diversity, the social welfare system and services, and human behavior in the social environment. These pre-professional courses total 15 credit hours.

Professional Social Work Courses

Students must be admitted to the Social Work program prior to enrollment in the professional social work courses. These courses provide professional foundation content in the areas of values and ethics, diversity, human behavior in the social environment, generalist practice, social welfare policies and services, research and evaluation, and field education. The seven professional social work courses are: SOWK 363, SOWK 370, SOWK 372, SOWK 390, SOWK 442, SOWK 444, and SOWK 445. These professional courses total 27 semester hours. The following five professional courses must be completed prior to enrollment in Field Education: SOWK 363, SOWK 370, SOWK 372, SOWK 390 and SOWK 442. In addition, 46 semester hours of Liberal Arts and General Education courses should be completed prior to applying for enrollment in SOWK 444 - Field Education and Seminar I.

Field Education and Seminar

Field Education and Seminar occurs during the Fall and Spring semesters of the senior year. The social work field experience includes an internship for students at selected human service agencies two days per week (Tuesday and Thursday), and a weekly seminar class on an alternate day. Students are required to complete an internship that consists of 440 hours (220 hours per semester) in selected public, nonprofit, and for-profit human service agencies in North Carolina. Students employed in human service agencies will not be allowed to use their employment or work experiences as a substitute for their field education placements. Students must earn a grade of "C" or higher in all pre-professional and professional social courses social work courses and have a cumulative GPA of 2.50 or higher to be eligible to enroll in SOWK 444 (Social Work Field Education and Seminar I).

SOWK 444: Social Work Field Education and Seminar I is offered in the Fall and SOWK 445: Social Work Field Education and Seminar II is offered in the spring. Applications for field education placements must be submitted during the spring semester of the junior year. Failure to submit an application will result in students not being considered for field education. Students who do not satisfactorily complete Field Education and Seminar forfeit hours earned and must reapply. Incomplete ("I") grades are not given for SOWK 444 and 445. Students who are readmitted to Field Education and Seminar are assigned to new agencies. All students must earn a grade of "C" or higher in all required social work courses in order to graduate with the BSW Degree.

Admission to the Social Work Program

All students who plan to earn the BSW degree must officially select Social Work as their major, complete the Declaration of Major Form, and meet the following Admission Requirements:

- Apply for admission before the end of the sophomore year;
- Return the completed application along with all supporting documents by February 15th;
- Transfer students may submit application on February 15th or June 30th;
- The Social Work Program courses are sequenced. The students are only admitted during the Fall semester of each academic year;
- Completion of GE 102, and 103, GE 155 or BIO 207, SOC 201, PSY 212, and SOWK 205. A "C" grade or higher is required in GE 102, 103, and SOWK 205;
- A cumulative GPA of 2.50
- Two (2) Letters of Recommendation (faculty member, clergy, counselor or other professionals in the human services field);

- Agree to abide by the National Association of Social Workers (NASW) Code of Ethics; and
- Approved Personal Statement that addresses the questions developed by the Social Work Program Admissions Committee.

Additional SOWK Program Policies

All students must complete SOWK 205, 210, 220, 250 and 260 with a "C" grade or higher prior to entrance into Professional Social Work courses. A student may be dismissed from the Social Work Program due to the following:

- Cumulative GPA less than 2.50;
- Grades less than "C" in the Pre-Professional and Professional Social Work courses;
- Unethical behavior (e.g., cheating, plagiarism, behaviors breaching the NASW Code of Ethics);
- Transfer students (including those who have already achieved junior status) and other students who change their major to Social Work must also go through the application process and be officially admitted into the Social Work Program;
- There is no guarantee that courses transferred from other degree programs or institutions of higher learning will substitute for required social work courses. Social Work Practice courses from other institutions cannot be transferred.

TRANSFER STUDENT POLICY

Transfer students (including those who have already achieved junior status) and other students who change their major to Social Work must also go through the application and admission process and be officially admitted into the Social Work program. There is no guarantee that courses transferred from other degree programs or institutions of higher learning will substitute for required social work courses. Social Work Practice courses from other institutions cannot be transferred.

MAJOR: BSW in Social Work

A. General Education Core		**46**
B. Major Core Requirements		**42**
SOWK 205	Introduction to Social Work	3
SOWK 210	Fundamentals of Interviewing	3
SOWK 220	Human Diversity	3
SOWK 250	Intro to Social Welfare	3
SOWK 260	Human Behavior and the Social Environment I: Childhood & Adolescence	3
SOWK 363	Social Work Practice I: Organizations and Communities	3
SOWK 370	Social Welfare Policy	3
SOWK 372	Human Behavior and the Social Environment II: Adulthood	3
SOWK 390	Research Methods in Social Work	3
SOWK 442	Social Work Practice II: Individuals, Families & Groups	3
SOWK 444	Social Work Field Education and Seminar I	6
SOWK 445	Social Work Field Education and Seminar II	6
C. Required Non Social Work Courses		**9**
SOC 201	Introduction to Sociology	3
SOC 202	Social Problems	3
SOC 245	Social Statistics	3
D. Restricted Electives		**3**
SOC 305	Sociology of the African-American	3
OR		
HIST 250	African-American History	3
E. Related Courses		**6**
FREN 101/102	French I/II	6
SPAN 101/102	Elementary Spanish I/II	6
OR		
SPPA 250/251	Sign Language	6
F. Minor*/Electives		**18**
Total Semester Hours Required for Degree		**124**

Curriculum Guide for Majors in Social Work

Freshman Year
First Semester

Course and number		Semester hrs
GE 102	English Comp & Grammar	3
GE 115	College Algebra	3
GE 122	Freshman Seminar	1
GE 135	Introduction to Music Lit	2
GE 140	World Civilization I	3
GE 155	Prin of Biol Sci/Lab**	4
GE	Physical Education Activity	1
		17

Second Semester

GE 103	English Comp & Vocabulary	3
ECON 201	Principles of Economics I	3
GE 185	Health Concepts	2
GE	Natural Science	3
GE 130	Art Appreciation	2
SOC 201	Introduction to Sociology	3
		16

***Only one lab is required*

Sophomore Year
First Semester

Course and number		Semester hrs
GE 201	World Literature I	3
GE	Physical Education Activity	1
PSY 212	General Psychology	3
SOWK 205	Introduction to Social Work	3
SOWK 210	Fundamentals of Interviewing	3
SOWK 220	Human Diversity	3
		16

Second Semester

GE 202	World Literature II	3
SOC 202	Social Problems	3
SOWK 250	Intro to Social Welfare	3
SOWK 260	Human Behav/Soc Environment I	3
POLS 298	American National Government	3
		15

Junior Year
First Semester

Course and number		Semester hrs
SOWK 363	Social Work Practice I	3
SOWK 370	Social Welfare Policy	3
SOWK 372	Human Behav/Soc Env II	3
SOC 245	Social Statistics	3
SPAN 101	Elementary Spanish I	
	OR	
SPPA 250	Sign Language I	3
		15

Second Semester

SOWK 390	Research Methods in SOWK	3
SOWK 442	Social Work Practice II	3
GE 111	Introduction to Computing	3
SOC 305	Soc of the African-American	
	OR	
HIST 250	African American History	3
SPAN 102	Elementary Spanish II	
	OR	
SPPA 251	Sign Language II	3
		15

Senior Year
First Semester

Course and number		Semester hrs
SOWK 444	SOWK Field Education & Sem I	6
	Minor/Electives	9
		15

Second Semester

SOWK 445	SOWK Field Educ. & Sem II	6
	Minor/Electives	9
		15
Total Semester Hours Required for Degree		**124**

MINOR: Criminal Justice

CJ 202	Community Corrections	3
CJ 204	Institutional Corrections	3
CJ 206	Police in American Society	3
CJ 311	Criminal Law	3
CJ 391	Criminology	3
CJ 499	Criminal Justice Internship	6
(or substitute two 400-level criminal justice courses)		
Total Semester Hours Required for Minor		**21**

MINOR: Juvenile Justice

CJ 206	Police in American Society	3
CJ 210	Juvenile Justice System	3
CJ 217	Violent Crime	3
CJ 311	Criminal Law	3
CJ 400	Juvenile Delinquency	3
CJ 499	Criminal Justice Internship	6
(or substitute two 400-level criminal justice courses)		
Total Semester Hours Required for Minor		**21**

MINOR: Sociology

SOC 201	Introduction to Sociology	3
SOC 245	Social Statistics	3
SOC 297	Social Research Methods	3
SOC 305	Sociology of the African-American	3
SOC 306	Urban Sociology	3
SOC 385	Social Theory	3
SOC 412	Social Stratification	3
Total Semester Hours Required for Minor		**21**

MINOR: Interdisciplinary Pre-Law

Interdisciplinary Pre-Law

Students planning to enter law school should be aware of the recommendations of the Association of the American Law Schools, which describe the basic skills and insights it believes are fundamental to legal competence: (a) comprehensive ability and expression in words, (b) critical understanding of human institutions and values with which the law deals, and (c) creative power in thinking. Although no single course of instruction is prescribed by the American Bar Association, pre-law students (in consultation with pre-law advisors) are urged to follow the designed pre-law curriculum. This program will facilitate the student's ability to think clearly, concisely, independently, and persuasively.

CURRICULUM for Interdisciplinary Pre-Law

CJ 310	Constitutional Law	3
CJ 311	Criminal Law	3
CJ 312	Criminal Evidence	3
CJ 314	Criminal Procedure	3
CJ 406	Introduction to Jurisprudence	3
SPCH 314	Public Speaking	3
SPCH 316	Argumentation and Debate	3
ENGL 401	Technical Writing	3
Total Hours Required for Interdisciplinary Program		**24**

Minors Across Curricula

For a student to minor in a discipline, he or she must complete 21 hours. However, the minors are listed outside of each discipline. The new curricula should make it clear that students can minor in disciplines other than the one they are majoring in.

Interdisciplinary Minor in Religious Studies

The minor in Religious Studies is an interdisciplinary program offered by the Departments of Visual and Performing Arts, Social and Behavioral Sciences, and Language, Literature and Communication. It is designed to:

- complement the student's major, including business, counseling, education, foreign service, or social work;
- provide the prerequisites to continue to seminary study if the student chooses or to qualify for graduate school;
- provide students the opportunity to broaden their educational experience;
- enhance cultural awareness and help them to think critically and analytically;
- broaden their understanding of American culture and community and its place in the world.

The overall course of study is designed to provide students the opportunity to concentrate in Religious Studies and to examine and investigate the impact of religious beliefs, texts, symbols, and myths on the Church in America while putting the church in a global context.

- Any major can choose to minor in Religious Studies.
- 21 semester hours are required.

12 hours of core courses are taken by all students. The remaining 9 hours are taken in one of four areas of concentration.

Major Core Courses		**12 Semester hrs**
RELG 200	Introduction to Religion	3
HIST 330	History of Christianity	3
HIST 331	African American Religion and the Church	3
HIST 332	Global Religion	3

Areas of Concentration

9 Semester hours in an area of concentration:

- Art and Religion
- Church Music
- Bible as Literature
- Religion and Social Work

Sociology Degree Program

Mission of the Sociology Program:
The Mission of the Sociology Program at ECSU is to prepare students to be competitive in a global marketplace by teaching the critical thinking skills, theoretical perspectives, and research methods needed to analyze their social world. After completion of this program, students will be prepared to pursue graduate study in the field and to apply their skills to careers in sociology, business, education, nonprofit management, law, social services, and the media.

Goals of the Sociology Program:

1. Prepare students for graduate studies in the discipline of sociology and other related fields;
2. Provide majors a learning experience through academic coursework, educational activities, research, and community service.

Sociology Program Policies:

1. Students must earn a "C" or higher in major core courses;
2. Students must complete all Liberal Arts and General Education courses;
3. Students will not receive course credit for employment or work experiences.

MAJOR: B.A. in Sociology

A. General Education Core.		**46**
B. Major Core Requirements		**39**
SOC 201	Introduction to Sociology	3
SOC 202	Social Problems	3
SOC 245	Social Statistics	3
SOC 297	Social Research Methods	3
SOC 302	Race and Ethnic Relations	3
SOC 305	Sociology of the African-American	3
SOC 306	Urban Sociology	3
SOC 360	Social Psychology	3
SOC 385	Social Theory	3
SOC 401	The Family	3
SOC 412	Social Stratification	3
SOC 481	Population	3
SOC 488	Seminar in Sociology	3
C. Related Courses		**9**
*** These indicate required courses**		
*HIST 255	American History to 1877	3
*HIST 256	American History Since 1877	3
AND		
CJ 400	Juvenile Delinquency	3
OR		
ECON 201	Principles of Economics	3
D. Minor/Electives		**30**
Total Semester Hours Required for Degree		**124**

Curriculum Guide for Majors in Sociology

Freshman Year
First Semester

Course and number		**Semester hrs**
GE 102	English Comp & Grammar	3
GE 115	College Algebra	3
GE 122	Freshman Seminar	1
GE 135	Intro to Music Lit	2
GE 140	World Civilization I	3
GE	Natural Science/Lab	4
		16

Second Semester

GE 103	English Comp & Vocabulary	3
GE 141	World Civilization II	3
GE 185	Health Concepts	2
GE	Natural Science/Math	3
GE	Physical Education Activity	1
PSY 212	General Psychology	3
		15

Sophomore Year
First Semester

Course and number		**Semester hrs**
GE 201	World Literature I	3
ECON 201	Prin of Economics I	3
HIST 255	American History to 1877	3
GE 111	Introduction to Computing	3
SOC 201	Intro to Sociology	3
GE	Physical Education Activity	1
		16

Second Semester

GE 130	Art Appreciation	2
GE 202	World Literature II	3
HIST 256	American History Since 1877	3
SOC 202	Social Problems	3
SOC 245	Social Statistics	3
	Minor/Elective	3
		17

Junior Year

First Semester

Course and number		Semester hrs
SOC 297	Social Research Methods	3
SOC 302	Race and Ethnic Relations	3
SOC 385	Social Theory	3
SOC 306	Urban Sociology	3
	Minor/Electives	3
		15

Second Semester

SOC 360	Social Psychology	3
SOC 305	Sociology of The African Americans	3
	Minor/Electives	9
		15

Senior Year

First Semester

Course and number		Semester hrs
CJ 400	Juvenile Delinquency	3
SOC 401	The Family	3
	Minor/Electives	9
		15

Second Semester

SOC 412	Social Stratification	3
SOC 481	Population	3
SOC 488	Seminar in Sociology	3
	Minor/Electives	6
		15
Total Semester Hours Required for Degree		**124**

DEPARTMENT OF TECHNOLOGY

The Department of Technology is an academic unit within Academic Affairs offering baccalaureate degree programs in Engineering Technology, and Aviation Science. The mission of the Department of Technology is to provide students with educational and research opportunities in an extensive array of rewarding professional careers in engineering, technology, aviation, and technical management by offering a rigorous curriculum to advance scholarship and promote excellence in emerging technologies. The Department of Technology offer degrees in the following:

Engineering Technology

Engineering Technology with concentration in Computer Networking Engineering Technology

Engineering Technology with a concentration in Electrical and Computer Engineering Technology

Engineering Technology With a Concentration in Mechanical Engineering Technology

Aviation Science with a Concentration in Air Traffic Control

Aviation Science with a Concentration in Avionics

Aviation Science with a Concentration in Aviation Management

Aviation Science with a Concentration in Flight Education

Aviation Science with a Concentration in Unmanned Aircraft Systems

Engineering Technology Program

The mission of Engineering Technology is to empower students to become innovative problem solvers and function effectively in today's global, rapidly changing, diverse work environment by offering a dynamic curriculum that provides an academic foundation for lifelong learning in the engineering technology field. The B.S. in Engineering Technology offers concentrations in "Mechanical Engineering Technology", "Computer Networking Engineering Technology", and "Electrical and Computer Engineering Technology."

PROGRAM EDUCATIONAL OBJECTIVES

The B.S. in Engineering Technology program will produce graduates who will:

1: Actively remain aware of the professional and ethical standards in the field of engineering technology through pursuing or completing an advance degree, professional development course, and/or engineering certifications.

2: Effectively use communication skills and tools to productively work in a team environment with others of diverse cultural and interdisciplinary backgrounds

3: Apply fundamental principles of engineering technology to solve complex problems and/or design systems that contribute to the efficiency or effectiveness of their professional organization.

4: Utilize technology and leadership skills to make sound decisions to implement, manage and integrate systems or processes that comply with professional standards

Aviation Science Program

The Aviation Science Program is the only four-year collegiate aviation education program in the State of North Carolina. The mission of the Aviation Science Program is to provide quality aviation education to a diverse student body by offering specializations in areas relevant to the highly competitive aerospace/aviation industry. Students who select Aviation Science as a major will complete the technical, managerial, and aviation courses that are necessary to fulfill the critical aviation personnel needs of local and state governments, the national government, business, and the aviation and aerospace industries. Graduates of the program will receive the Bachelor of Science degree in Aviation Science with a concentration in Aviation Management, Avionics, Air Traffic Control, Flight Education, or Unmanned Aircraft Systems. Majors must earn a grade of "C" or better in each required Aviation Science course.

OPPORTUNITIES FOR GRADUATES

Engineering Technology

The Engineering Technology program prepares its graduates with a blend of technical knowledge, theoretical skills, and the hands-on experience necessary to enter professional careers in design, installation, operation, computer, electronics,

information technology, mechanical, computer aided manufacturing, control, robotics and automated systems. Engineering Technologists use the principles and theories of engineering, science, and mathematics to solve technical problems in engineering and engineering technology related fields. The successful completion of this program will not only provide better job opportunities, but also prepare students who plan on pursuing graduate studies in the related fields.

The graduates of this program are qualified to obtain professional careers in high-tech industries, government, and business or pursue their graduate degree in the related fields. Graduates can obtain positions such as: Computer Engineer, Network Administrator, Computer System Analyst, Computer and Information System Manager, Network Engineer, Mechanical Engineer, Automated Process Engineer, Production Engineer and Plant Supervisor.

Aviation Science

In just over hundred years since the inception of aviation, the world has become dependent on air transportation as a primary system for passenger conveyance and cargo movement. Air transportation has risen to this position because through the years, the men and women who have worked in the air transportation industry have applied the new techniques, technologies, and dedication to keep it ahead of its competition. All areas of aviation and aerospace are expanding. There continues to be a need for motivated individuals to fill the challenging aviation and aerospace positions with government and private industry. The aviation and space science areas of study offered by the Aviation Science Program are designed to educate and train students who want careers in these exciting and rewarding industries.

The Aviation Science Program prepares students for a variety of positions in both the aviation and aerospace industries. Some of these career areas include Airport Management, Air Traffic Control, Aviation Electronics Technology, Airline and Corporate Flight, Unmanned Aerial Systems as operators and program managers, Space Technology, Avionics, Radar Technology, Flight Instruction, Aviation Policy, and Aviation Entrepreneurship. These are a few of the many career areas for which Aviation Science students are preparing themselves.

ACCREDITATIONS

Engineering Technology is accredited by the Engineering Technology Accreditation Commission of Accreditation Board for Engineering and Technology – (ABET-ETAC), http://ww.abet.org

TRANSFER STUDENTS

Transfer students from other accredited universities, community colleges, and the technical institutes may be admitted to the Department with advanced standing. Specific course requirements for these students will be made on an individual basis after their previously earned credits have been assessed.

MAJOR: B.S. Degree in Engineering Technology with concentration in Computer Networking Engineering Technology

A. General Education Core		**47**
B. Major Core Requirements		**39**
ENGT 100	Intro. To Eng. Tech.	2
ENGT 100L	Intro. to Eng. Tech. Lab	1
ENGT 105	CAD	3
ENGT 205	Circuit Analysis	3
ENGT 205L	Circuit Analysis Lab	1
ENGT 210	Materials and Processes	3
ENGT 210L	Materials and Processes Lab	1
ENGT 220	Instrumentation & Measure. System	3
ENGT 235	Analog and Digital Circuits I	3
ENGT 235L	Analog and Digital Circuits I Lab	1
ENGT 245	Intro. To LAN &WAN Technologies	3
ENGT 310	Applied Mechanics	3
ENGT 310L	Applied Mechanics Lab	1
ENGT 360	Control Systems	3
ENGT 360L	Control Systems Lab	1
ENGT 455	Capstone Senior Project I	2
ENGT 499	Capstone Senior Project II	2
ENGT 490	Project Management	3
	Or	
	Production & Operation Manage.	
C. Related Course Requirements		**11**
PHYS 191	University Physics I	3
PHYS 181L	General Physics I Lab	1
	Or	
	General physics I with Lab	
ENGL 401	Technical Writing	3
	Or	
	Business Research & Rep. Writing	
MATH 265	Calculus of Single variable II	4
D. Computer Networking Engineering Technology Concentration		**18**
ENGT 215	PC hardware/software & Oper. Syst.	3
ENGT 215L	PC Hardware/soft. & Oper. Syst. Lab	1
ENGT 255L	Basic Networking Lab	1
ENGT 340	Analog & Digital Communication	
	Or. CSC 410 Net-Centric Computing	

ENGT 345	Routing and Switching Protocols	3
ENGT 345L	Routine and Switching Prot. Lab	2
ENGT 470	Enterprise Network Security	3
ENGT 470L	Enterprise Network Security lab	2

E. Electives (Technical, Restrictive) 9

Total Semester Hours Required for Degree 124

Strongly recommend: Internship course for elective.

These courses must be taken for General Education: GE 118 (Precalculus), MATH 165 (Calculus of Single Variable I), CHEM 101/L (General Chemistry I and Lab), ECON 201 (Principles of Economics I), SPCH 214 (College Speech), and CSC 114 (Introduction to Computer Science) or CSC 115 (Programming I).

Curriculum Guide for Majors in Engineering Technology with concentration in Computer Networking Engineering Technology

Freshman Year
First Semester

Course and number	Semester Hrs
GE 102 English Comp. & Gram.	3
GE 140 World Civilization I	3
GE Physical Ed. Activity	1
GE 122 Freshman Seminar	1
GE 130 Art Appreciation	2
GE 118 Pre-Calculus	3
ENGT 100 Intro. to Eng. Tech.	2
	15

Second Semester

Course and number	Semester Hrs
GE 103 English Comp. & Voca.	3
GE 141 World Civilization II	3
CHEM 101/L Gen. Chemistry I/Lab	4
MATH 165 Calculus I	4
ENGT 105 CAD I	3
ENGT 100L Intro. to Eng. Tech lab	1
	18

Sophomore Year
First Semester

Course and number	Semester Hrs
GE 201 World Literature I	3
ECON 201 Prin. of Economics I	3
PHYS 191/L Univ. Physics I &Lab	4
MATH 265 Calculus II	4
ENGT 205 Circuits Analysis &Lab	4
	18

Second Semester

Course and number	Semester Hrs
GE 202 World Literature II	3
ENGT 210Material and Process & lab	4
ENGT 215 PC Hardware and Software Tech & lab	4
ENGT 235 Analog and Digital Circuits I and lab	4
GE Physical ED. Activity	1
	16

Junior Year
First Semester

Course and number	Semester Hrs
ENGT 245 Intro. To LAN&WAN	3
ENGT 220 Instrum. & Measure.	3
ENGT 255L Basic Networking Lab	1
CSC 115 Programming I	3
ENGT 310 Applied Mechanics &lab	4
	14

Second Semester

Course and number	Semester Hrs
ENGL 401 Technical Writing	3
ENGT 360 Control Systems and lab	4
SPCH 214 College Speech	2
ENGT 340 Analog and Digital Com.	3
ENGT 345 Routine and Switching	3
ENGT 345L Routine and Switching Protocol Lab	2
	17

Senior Year
First Semester

Course and number	Semester Hrs
Restricted Elective	3
ENGT 470 Enterprise Network Security and Mang.	3
ENGT 470L Enterprise Network Security and Mang.lab	2
Restricted Elective	3
ENGT 455 Senior Project I	2
	13

Second Semester

Course and number	Semester Hrs
ENGT 490 Project Management	3
PSY 212 General Psychology	3
ENGT 499 Senior Project II	2
Restricted Elective	3
GE 185 Health Concept	2
	13

Total Requirements for the Degree 124

MAJOR: B.S. Degree in Engineering Technology With a Concentration in Mechanical Engineering Technology

A. General Education Core 47

B. Major Core Requirements 39

ENGT 100	Intro. To Eng. Tech.	2
ENGT 100L	Intro. to Eng. Tech. Lab	1
ENGT 105	CAD	3
ENGT 205	Circuit Analysis	3
ENGT 205L	Circuit Analysis Lab	1
ENGT 210	Materials and Processes	3
ENGT 210L	Materials and Processes Lab	1
ENGT 220	Instrumentation & Measure. System	3
ENGT 235	Analog and Digital Circuits I	3
ENGT 235L	Analog and Digital Circuits I Lab	1
ENGT 245	Intro. To LAN &WAN Technologies	3
ENGT 310	Applied Mechanics	3
ENGT 310L	Applied Mechanics Lab	1

ENGT 360	Control Systems	3
ENGT 360L	Control Systems Lab	1
ENGT 455	Capstone Senior Project I	2
ENGT 499	Capstone Senior Project II	2
ENGT 490	Project Management Or Production & Operation Manage.	3

C. Related Course Requirements **11**

PHYS 191	University Physics I	3
PHYS 181L	General Physics I Lab Or General physics I with Lab	1
ENGL 401	Technical Writing Or Business Research & Rep. Writing	3
MATH 265	Calculus of Single variable II	4

D. Mechanical Engineering Technology Concentration **18**

ENGT 320	Applied Fluid Mechanics ……	3
ENGT 370	Comp. Aided Design & Manufacturing	3
ENGT 385	Strength of Materials	3
ENGT 415	Machine Design	3
ENGT 420	Thermal Systems	3
ENGT 425	Thermal-Fluid Lab	1
ENGT 460	Engineering Software Application	2

E. Electives (Technical, Restrictive) **9**

Total Semester Hours Required for Degree **124**

Strongly recommend: Internship course for elective.

These courses must be taken for General Education: GE 118 (Precalculus), MATH 165 (Calculus of Single Variable I), CHEM 101/L (General Chemistry I and Lab), ECON 201 (Principles of Economics I), SPCH 214 (College Speech), and CSC 114 (Introduction to Computer Science) or CSC 115 (Programming I) must be taken for General Education.

Curriculum Guide for Majors in Engineering Technology With a Concentration in Mechanical Engineering Technology

Freshman Year
First Semester

Course and number	Semester Hrs
GE 102 English Comp. & Gram.	3
GE 140 World Civilization I	3
GE Physical Ed. Activity	1
GE 122 Freshman Seminar	1
GE 130 Art Appreciation	2
GE 118 Pre-Calculus	3
ENGT 100 Intro. to Eng. Tech.	2
	15

Second Semester

Course and number	Semester Hrs
GE 103 English Comp. & Voca.	3
GE 141 World Civilization II	3
GE Physical Ed. Activity	1
CHEM 101/L Gen. Chemistry I/Lab	4
MATH 165 Calculus I	4
ENGT 100L Intro. to Eng. Tech lab	1
	16

Sophomore Year
First Semester

Course and number	Semester Hrs
GE 201 World Literature I	3
ECON 201 Prin. of Economics I	3
PHYS 191/LUniv. Physics I &Lab	4
MATH 265Calculus II	4
ENGT 205 Circuits Analysis &Lab	4
	18

Second Semester

Course and number	Semester Hrs
GE 202 World Literature II	3
ENGT 210Material and Process & lab	4
GE 185 Heath concept	2
ENGT 235 Analog and Digital Circuits I and lab	4
ENGT 105 CAD I	3
	16

Junior Year
First Semester

Course and number	Semester Hrs
ENGT 245 Intro. To LAN&WAN	3
ENGT 220 Instrum. & Measure.	3
ENGT 370 Com. Aided. Design	3
CSC 115 Programming I	3
ENGT 310 Applied Mechanics &lab	4
	16

Second Semester

Course and number	Semester Hrs
ENGL 401 Technical Writing	3
ENGT 360 Control Systems and lab	4
SPCH 214 College Speech	2
ENGT 320Appli. Fluid Mech.	3
ENGT 385 Strength of Material	3
	15

Senior Year
First Semester

Course and number	Semester Hrs
Restricted Elective	3
ENGT 415 Machine Design	3
ENGT 420 Thermal Systems	3
ENGT 425 Thermal Fluid Lab	1
Restricted Elective	3
ENGT 455 Senior Project I	2
	15

Second Semester

Course and number	Semester Hrs
ENGT 490 Project Management	3
PSY 212General Psychology	3
ENGT 499 Senior Project II	2
Restricted Elective	3
ENGT 460Eng. Software Appli	2
	13

Total Requirements for the Degree **124**

MAJOR: B.S. Degree in Engineering Technology with a concentration in Electrical and Computer Engineering Technology

A. General Education Core **47**

B. Major Core Requirements **39**

ENGT 100	Intro. To Eng. Tech.	2
ENGT 100L	Intro. to Eng. Tech. Lab	1
ENGT 105	CAD	3
ENGT 205	Circuit Analysis	3
ENGT 205L	Circuit Analysis Lab	1
ENGT 210	Materials and Processes	3
ENGT 210L	Materials and Processes Lab	1
ENGT 220	Instrumentation & Measure.	3
ENGT 235	System	3
ENGT 235L	Analog and Digital Circuits I	1
	Analog and Digital Circuits I Lab	
ENGT 245	Intro. To LAN &WAN	3
ENGT 310	Technologies	
ENGT 310L	Applied Mechanics	3
	Applied Mechanics Lab	1
ENGT 360	Control Systems	3
ENGT 360L	Control Systems Lab	1
ENGT 455	Capstone Senior Project I	2
ENGT 499	Capstone Senior Project II	2
ENGT 490	Project Management	3
	Or	
	Production & Operation Manage.	

C. Related Course Requirements **11**

PHYS 191	University Physics I	3
PHYS 181L	General Physics I Lab	1
	Or	
	General physics I with Lab	
ENGL 401	Technical Writing	3
	Or	
	Business Research & Rep. Writing	
MATH 265	Calculus of Single variable II	4

D. Electrical and Computer Engineering Technology Concentration 18

ENGT 215 PC hardware/software & Oper. Syst. 3
ENGT 215L PC Hardware/soft. & Oper. Syst. Lab 1
ENGT 335 Analog and Digital Circuits II
ENGT 335L Analog and Digital Circuits II lab 1
ENGT 340 Analog & Digital Communication
Or. CSC 410 Net-Centric Computing
3

ENGT 365 Computer Design & Implementation 3
ENGT 465 Microproc. &Microcontrollers 3
ENGT 465L Microproc. & Microcontrl. Lab 1

E. Electives (Technical, Restrictive) 9

Total Semester Hours Required for Degree **124**

Strongly recommend: Internship course for elective.
GE 118 (Precalculus), MATH 165 (Calculus of Single Variable I), CHEM 101/L (General Chemistry I and Lab), ECON 201 (Principles of Economics I), SPCH 214 (College Speech), and CSC 114 (Introduction to Computer Science) or CSC 115 (Programming I) must be taken for General Education.

Curriculum Guide for Majors in Engineering Technology With a Concentration in Electrical and Computer Engineering Technology

Freshman Year
First Semester

Course and number	Semester Hrs
GE 102 English Comp. & Gram.	3
GE 140 World Civilization I	3
GE Physical Ed. Activity	1
GE 122 Freshman Seminar	1
GE 130 Art Appreciation	2
GE 118 Pre-Calculus	3
ENGT 100 Intro. to Eng. Tech.	2
	15

Second Semester

Course and number	Semester Hrs
GE 103 English Comp. & Voca.	3
GE 141 World Civilization II	3
CHEM 101/L Gen. Chemistry I/Lab	4
MATH 165 Calculus I	4
ENGT 105CAD I	3
ENGT 100L Intro. to Eng. Tech lab	1
	18

Sophomore Year
First Semester

Course and number	Semester Hrs
GE 201 World Literature I	3
ECON 201 Prin. of Economics I	3
PHYS 191/L Univ. Physics I &Lab	4
MATH 265Calculus II	4
ENGT 205 Circuits Analysis &Lab	4
	18

Second Semester

Course and number	Semester Hrs
GE 202 World Literature II	3
ENGT 210Material and Process & lab	4
ENGT 215 PC Hardware and Software Tech & lab	4
ENGT 235 Analog and Digital Circuits I and lab	4
GE Physical ED. Activity	1
	16

Junior Year
First Semester

Course and number	Semester Hrs
ENGT 245 Intro. To LAN&WAN	3
ENGT 220 Instrum. & Measure.	3
ENGT 335 Analog and Digital Circuits II & lab	4
CSC 115 Programming I	3
ENGT 310 Applied Mechanics &lab	4

	17

Second Semester

Course and number	Semester Hrs
ENGL 401 Technical Writing	3
ENGT 360 Control Systems and lab	4
SPCH 214 College Speech	2
ENGT 340 Analog and Digital com.	3
ENGT 365 Computer Design	3
	15

Senior Year

First Semester

Course and number	Semester Hrs
Restricted Elective	3
ENGT 465 Microprocessors	4
ENGT 455 Senior Project I	2
Restricted Elective	3
	12

Second Semester

Course and number	Semester Hrs
ENGT 490 Project Management	3
PSY 212General Psychology	3
ENGT 499 Senior Project II	2
Restricted Elective	3
GE 185 Health Concept	2
	13

MINOR: Electrical and Computer Engineering Technology

ENGT 205/L	Circuit Analysis	4
ENGT 235/L	Analog & Digital Circuits I	4
ENGT 335	Analog & Digital Circuits II	3
ENGT 365	Microprocessors I	3
ENGT 465	Microprocessors II (or any other related course)	3
ENGT 215/L	PC Hw/Sw and OS	4
Total Semester Hours Required for Minor		**21**

MINOR: Computer Networking Engineering Technology

ENGT 215/L	PC Hw/Sw and OS	4
ENGT 245	Intro to LAN and WAN Tech	3
ENGT 255L	Basic Networking Lab	1
ENGT 340	Analog and Digital Communications	3
ENGT 345/L	Enterprise Routing & Switching	5
ENGT 470/L	Enterprise Network Security & Administration	5
Total Semester Hours Required for Minor		**21**

MINOR: Mechanical Engineering Technology

ENGT 105	CAD I	3
ENGT 320	Applied Fluid Mechanics	3
ENGT 310/L	Applied Mechanics	4
ENGT 360/L	Control Systems (or any other ENGT course)	4
ENGT 210/L	Materials and Processes	4
ENGT 370	Computer Aided Design & Manu	3
Total Semester Hours Required for Minor		**21**

Minor in Aviation Science

The Aviation Science minor is designed for students in other academic disciplines who would like to study the aviation and aerospace industries so that they may apply the knowledge of their degree program along with their minor program to a career area within the field of aviation or aerospace. The Aviation Science minor provides the non-Aviation Science student major with an overview of the aviation industry so that they are informed and knowledgeable about the aviation industry to compete for aviation-and aerospace-related job opportunities

Before selecting this minor, it is highly recommended that the student be advised by the Director of the Aviation Science Program. A student who elects to minor in Aviation Science must complete a minimum of 18 A and B credits. Specifically, a student must complete 12 Section A (required Courses) as well as a minimum of 6 hrs. from Section B (Elective Courses). Student s who wish to earn a minor in Aviation science must adhere to all prerequisites and earn a grade of “C” or higher in all AVI and FLT courses.

SECTION A Required Courses		**12**
AVI 100	Introduction to Aviation	3
AVI 220	Air Transportation	3
AVI 232	Aviation Safety	3
FLT 110	Private Pilot Ground	3

SECTION B Elective Courses		**6**
AVI 230	Aviation Management	3
AVI 250	Basic Aerodynamics	3
AVI 315	Aviation Legislation & Ethics	3
AVI 270	ATC in the NAS	3
AVI 260	Aviation Human Factors	3
AVI 420	Crew Resource Mngt	3
AVI 430	Airport Planning & Mngt	3
Total Semester Hours Required for Minor		**18**

AVIATION SCIENCE PROGRAM

*(*Note: Students enrolled in flight courses will be assessed a flight lab fee. Details are discuss on page 172.)*

The Aviation Science Program is the only four-year collegiate aviation education program in the State of North Carolina. The mission of the Aviation Science Program is to provide quality aviation education to a diverse student body by offering specializations in areas relevant to the highly competitive aerospace/aviation industry. Students who select Aviation Science as a

major will complete the technical, managerial, and aviation courses that are necessary to fulfill the critical aviation personnel needs of local and state governments, the national government, business, and the aviation and aerospace industries. Graduates of the program will receive the Bachelor of Science degree in Aviation Science with a concentration in Aviation Management, Avionics, Air Traffic Control, Flight Education or Unmanned Aircraft Systems. Majors must earn a grade of "C" or better in each required Aviation Science course.

MAJOR: B.S. Degree in Aviation Science with a Concentration in Air Traffic Control

A. General Education Core		**47-48**
B. Major Core Requirements		**36**
1. Aviation Science Requirements		36
AVI 100	Introduction to Aviation	3
AVI 122	Orientation Seminar for Aviation Sci	1
AVI 220	Air Transportation	3
AVI 230	Aviation Management	3
AVI 232	Aviation Safety	3
AVI 250	Basic Aerodynamics	3
AVI 260	Aviation Human Factors	3
AVI 270	Air Traffic Control in the NAS	3
AVI 314	Aviation Meteorology	3
AVI 315	Aviation Legislation and Ethics	3
AVI 370	Aviation Research Methods and Stats	3
AVI 410	Transition to the Aviation Industry	2
AVI 460	Aviation Internship	
or AVI 465	Aviation Capstone	3
C. Related Area Courses		**12**
SPCH 201	Voice and Diction	3
SPCH 316	Argumentation and Debate	3
FLT 110	Private Pilot Ground	3
MNGT 221	Principles of Management	3
D. Air Traffic Control Concentration		**18**
ATC 200	Control Tower Operations	3
ATC 200L	Control Tower Operations Lab	3
ATC 250	Terminal Radar Operations	3
ATC 250L	Terminal Radar Operations Lab	3
ATC 300L	Advanced Control Tower Ops Lab	3
ATC 350L	Adv Terml Radar & Non Radar Ops Lab	3
E. Electives (6 hours must be Technical Restrictive)		**12**
Total Semester Hours Required for Degree		**125**

BUAD 115 Must be taken as an elective. GE 118 (Precalclus, PHYS 181/L (Gen Physics 1 with Lab) and CSC 114 Intro to Computer Science **must be taken for General Education.**

Curriculum Guide for Majors in Aviation Science with a Concentration in Air Traffic Control

Freshman Year
First Semester

Course and number		Semester hrs
GE 118	Precalculus	3
GE	Physical Ed. Activity	1
GE 102	English Comp. and Grammar	3
GE 122	Freshman Seminar	1
GE 140	World Civilization I	3
AVI 100	Intro to Aviation	3
GE 185	Health Concepts	2
AVI 122	AVI Orientation Seminar	1
		17

Second Semester

ATC 270	ATC in the NAS	3
CSC 114	Intro to Computer Science	3
GE 103	English Comp. and Vocabulary	3
PHYS 181L	Gen Physics I/Lab	4
GE 141	World Civilization II	3
GE	Physical Ed. Activity	1
		17

Sophomore Year
First Semester

Course and number		Semester hrs
GE 201	World Literature I	3
SPCH 201	Voice and Diction	3
ATC 200	Control Tower Ops	3
GE/L	Math or Science Course	4
GE	Fine Arts & Com	2
		15

Second Semester

GE 202	World Literature II	3
ATC 250L	Terminal Radar Ops Lab	3
AVI 220	Air Transportation	3
ATC 200L	Control Tower Ops	3
GE	Soc. & Behavior Science	3
GE	Fine Arts and Com	2
		17

Junior Year
First Semester

Course and number		Semester hrs
ATC 300L	Adv Control Tower Lab	3
AVI 250	Basic Aerodynamics	3
MNGT 221	Principles of Management	3
SPCH 314	Public Speaking	3
ATC 350L	Adv Radar & Nonradar Lab	3
		15

Second Semester

AVI 232	Aviation Safety	3
AVI 315	Aviation Legislation and Ethics	3
AVI 314	Aviation Meteorology	3
	Social & Behavior Science	3
AVI 260	Aviation Human Factors	3
		15

Senior Year
First Semester

Course and number		Semester hrs
FLT 110	Private Pilot Ground	3
AVI 410	Trans to Av. Industry	2
AVI	Technical Elective	3
AVI 370	Research Methods & Stats	3
AVI 230	Aviation Management	3
		14

Second Semester

AVI	Technical Elective	3
AVI 465	Aviation Capstone	3
SPCH 316	Argument & Debate	3
	Elective	3
	Elective	3

		15
Total Requirements for the Degree		**125**

MAJOR: B.S. Degree in Aviation Science with a Concentration in Avionics

A. General Education Core		**47-48**
B. Major Core Requirements		**36**
1. Aviation Science Requirements		36
AVI 100	Introduction to Aviation	3
AVI 122	Orientation Seminar for Aviation Sci	1
AVI 220	Air Transportation	3
AVI 230	Aviation Management	3
AVI 232	Aviation Safety	3
AVI 250	Basic Aerodynamics	3
AVI 260	Aviation Human Factors	3
AVI 270	Air Traffic Control and NAS	3
AVI 314	Aviation Meteorology	3
AVI 315	Aviation Legislation and Ethics	3
AVI 370	Aviation Research Methods and Stats	3
AVI 410	Transition to the Aviation Industry	2
AVI 460	Aviation Internship	
or AVI 465	Aviation Capstone	3
C. Related Area Courses		**12**
AVNC 100	Basic Avionics	3
FLT 110	Private Pilot Ground	3
ENGT 100	Intro to Engineering Tech	3
or ENGT 105	CAD I	3
AVNC 240	Flight Com Sys	3
or ENGT 340	Analog and Digital Com	3
D. Avionics Concentration		**18**
AVNC 360	Advanced Avionics	3
or Any ENGT 300 or above Electronics Course		3
AVNC 380	Flight Control System	3
or ENGT 360	Control Systems	3
ENGT 235/L	Analog & Digital Circuits I	4
ENGT 335/L	Analog & Digital Circuits II	4
ENGT 205/L	Circuit Analysis	4
E. Electives (6 hours must be Technical Restrictive)		**12**
Total Semester Hours Required for Degree		**125**

MATH 153 Applied Calculus), PHYS 181/L (Gen Physics I with Lab) CSC 114 Intro to Computer Science must be taken for General Education.

Curriculum Guide for Majors in Aviation Science with a Concentration in Avionics

Freshman Year
First Semester

Course and number		Semester hrs
MATH 153	Applied Calculus	3
GE	Physical Ed. Activity	1
GE 102	English Comp. and Grammar	3
GE 140	World Civilization I	3
GE 185	Health Concepts	2
AVI 122	AVI Orientation Seminar	1
AVI 100	Intro to Aviation	3
GE 122	Freshman Seminar	1
		17

Second Semester

CSC 114	Intro to Computer Science	3
AVI 220	Air Transportation	3
GE 103	English Comp. and Vocabulary	3
PHYS 181/L	Gen Physics I w/Lab	4
GE	Physical Ed. Activity	1
AVNC 100	Basic Avionics	3
		17

Sophomore Year
First Semester

Course and number		Semester hrs
GE 201	World Literature I	3
ENGT 100	Intro to Eng. Tech	3
AVI 230	Aviation Management	3
AVNC 240	Flight Com. Systems	3
GE 141	World Civilization II	3
		15

Second Semester

GE	Fine Arts and Com	2
AVNC 360	Advanced Avionics	3
AVI 232	Aviation Safety	3
ENGT 205/L	Circuit Analysis	4
AVI 270	ATC in the NAS	3
		15

Junior Year
First Semester

Course and number		Semester hrs
AVI 250	Basic Aerodynamics	3
ENGT 235/L	Analog & Digital Circuits I	4
AVNC 380	Flight Control System	3
GE	Soc. & Behavior Science	3
GE	Fine Arts & Com	2
		15

Second Semester

AVI 315	Aviation Legislation and Ethics	3
AVI 314	Meteorology	3
ENGT 335/L	Analog & Digital Circuits II	4
GE	Math or Science	3/4
AVI 260	Avi Human Factors	3
		16/17

Senior Year
First Semester

Course and number		Semester hrs
AVI 410	Trans to Avi. Industry	2
AVI	Technical Elective	3
AVI 370	Research Methods & Stats	3
GE	Soc. & Behavior Science	3
ENGT 340	Analog and Digital Comms	3
		14

Second Semester

AVI	Technical Elective	3
AVI 465	Aviation Capstone	3
	Elective	3
GE	Literature and Language	3
	Elective	3
		14

Total Requirements for the Degree	**124**

MAJOR: B.S. Degree in Aviation Science with a Concentration in Aviation Management

A. General Education Core		**47-48**
B. Major Core Requirements		**36**
1. Aviation Science Requirements		36
AVI 100	Introduction to Aviation	3
AVI 122	Orientation Seminar for Aviation Sci	1
AVI 220	Air Transportation	3
AVI 230	Aviation Management	3
AVI 232	Aviation Safety	3
AVI 250	Basic Aerodynamics	3
AVI 260	Aviation Human Factors	3
AVI 270	Air Traffic Control and NAS	3
AVI 314	Aviation Meteorology	3
AVI 315	Aviation Legislation and Ethics	3
AVI 370	Aviation Research Methods and Stats	3
AVI 410	Transition to the Aviation Industry	2
AVI 460	Aviation Internship	
or AVI 465	Aviation Capstone	3
C. Related Area Courses		**12**
BAUD 190	Management info Sys	3
or BAUD 200	Business Communications	3
ECON 201	Principles of Economics I	3
ECON 202	Principles of Economics II	3
ACCT 210	Financial Accounting	3
D. Aviation Management Concentration		**18**
FLT 110	Private Pilot Ground	3
MNGT 221	Principles of Management	3
MNGT 322	Organizational Behavior	3
TECH 410	Project Management	
or TECH 450	Quality Assurance	3
AVI 3451	Airline Ops and Management	
or AVI 340	Corporate Flight Operations	3
AVI 430	Airport Planning and Management	3
E. Electives (6 hours must be Technical Restrictive)		**12**
Total Semester Hours Required for Degree		**125**

BUAD 115 Must be taken as an elective. GE 118 (Precalculus), PHYS 181/L (Gen Physics 1 with Lab) CSC 114 Intro to Computer Science must be taken for General Education.

Curriculum Guide for Majors in Aviation Science with a Concentration in Aviation Management

Freshman Year
First Semester

Course and number		**Semester hrs**
GE 118	Pre-calculus	3
GE	Physical Ed. Activity	1
GE 185	Health Concepts	2
GE 102	English Comp. and Grammar	3
GE 140	World Civilization I	3
AVI 100	Introduction to Aviation	3
AVI 122	AVI Orientation Seminar	1
GE 122	Freshman Seminar	1
		17

Second Semester

CSC 114	Intro to Computer Science	3
GE	Physical Ed. Activity	1
AVI 220	Air Transportation	3
GE 103	English Comp. and Vocabulary	3
PHYS 181/l	Gen Physics I w/Lab	4
GE 141	World Civilization II	3
		17

Sophomore Year
First Semester

Course and number		**Semester hrs**
GE 201	World Literature I	3
BUAD 200	Business Communications	3
AVI 230	Aviation Management	3
GE/L	Math or Science Course	3/4
ECON 201	Principles of Economics I	3
		15/16

Second Semester

GE	Literature & Language	3
AVI 232	Aviation Safety	3
GE	Soc. & Behavior Science	3
GE	Fine Arts and Com	2
ECON 202	Principles of Economics II	3
AVI 270	ATC in the NAS	3
		17

Junior Year
First Semester

Course and number		**Semester hrs**
AVI 250	Basic Aerodynamics	3
MNGT 221	Principles of Management	3
SPCH 314	Public Speaking	3
	Social & Behavior Science	3
ACCT 210	Financial Accounting	3
		15

Second Semester

	Elective	3
AVI 314	Aviation Meteorology	3
AVI 260	Aviation Human Factors	3
AVI 315	Avi. Legislation and Ethics	3
MNGT 332	Organizational Behavior	3
		15

Senior Year
First Semester

Course and number		**Semester hrs**
AVI 410	Trans to Av. Industry	2
AVI	Technical Elective	3
AVI 370	Research Methods & Stats	3
TECH 410	Project Management	3
FLT 110	Private Pilot Ground	3
		14

Second Semester

AVI 430	Airport Planning & Management	3
AVI 465	Aviation Capstone	3
AVI 345	Airline Ops & Management	3
AVI	Technical Elective	3
	Elective	3
		15

Total Requirements for the Degree **125-126**

MAJOR: B.S. DEGREE IN AVIATION SCIENCE WITH A CONCENTRATION IN UNMANNED AIRCRAFT SYSTEMS

A. General Education Core	**47-48 SemHrs**
B. Major Core Requirements	**36 SemHrs**

Aviation Science Requirements	36
AVI 100 Introduction to Aviation	3
AVI 122 Orientation Seminar for Aviation Science	1
AVI 220 Air Transportation	3
AVI 230 Aviation Management	3
AVI 232 Aviation Safety	3
AVI 250 Basic Aerodynamics	3
AVI 260 Aviation Human Factors	3
AVI 270 Air Traffic Control and the NAS	3
AVI 314 Aviation Meteorology	3
AVI 315 Aviation Legislation and Ethics	3
AVI 370 Aviation Research Methods and Statistics	3
AVI 410 Transition to the Aviation Industry	2
AVI 465 Aviation Capstone	
OR	
AVI 460 Aviation Internship	3

C. Related Area Courses	**12 SemHrs**
BAUD 190 Management Information Systems	
OR	
BUAD 115 Introduction to Business	3
MNGT 221 Principles of Management	3
FLT 110 Private Pilot Ground	3
ACCT 210 Financial Accounting	3

D. UAS Concentration	**18 SemHrs**
ENGT 100 Introduction to Engineering Technology	3
UAS 100 Introduction to UAS	3
UAS 200 UAS and the NAS: Laws & Regulations	3
UAS 250 Operational Sensors and Payload	3
UAS 350L UAS App Lab I (Design)	3
UAS 400L UAS App Lab II (Pre Ag /Surveying)	3

E. Electives (6 hours must be Technical Restrictive)	**12**
Total Hours Required for Degree	**125-126**

GE 118 (Precalculus), PHYS 181/L (General Physics 1 with Lab) CSC 114 Intro to Computer Science must be taken for General Education

Curriculum Guide for Majors in Aviation Science with a Concentration in Unmanned Aircraft Systems

Freshman Year
First Semester

Course and number		**Semester hrs**
GE 118	Pre-calculus	3
GE	Physical Ed. Activity	1
GE 185	Health Concepts	2
GE 102	English Comp. and Grammar	3
GE 140	World Civilization I	3
AVI 100	Introduction to Aviation	3
AVI 122	AVI Orientation Seminar	1
GE 122	Freshman Seminar	1
		17

Second Semester

CSC 114	Intro to Computer Science	3
GE	Physical Ed. Activity	1
AVI 220	Air Transportation	3
GE 103	English Comp. and Vocabulary	3
PHYS 181/l	Gen Physics I w/Lab	4
GE 141	World Civilization II	3
		17

Sophomore Year
First Semester

Course and number		**Semester hrs**
GE 201	World Literature I	3
BUAD 190 or 115	MIS or Intro to Bus	3
AVI 230	Aviation Management	3
GE/L	Math or Science Course	3/4
UAS 100	Intro to UAS	3
		15/16

Second Semester

GE	Literature & Language	3
AVI 232	Aviation Safety	3
GE	Soc. & Behavior Science	3
GE	Fine Arts and Com	2
ENGT 100/L	Introduction to ENGT/L	3
AVI 270	ATC in the NAS	3
		17

Junior Year
First Semester

Course and number		**Semester hrs**
AVI 250	Basic Aerodynamics	3
MNGT 221	Principles of Management	3
SPCH 314	Public Speaking	3
	Social & Behavior Science	3
ACCT 210	Financial Accounting	3
		15

Second Semester

	Elective	3
AVI 314	Aviation Meteorology	3
AVI 260	Aviation Human Factors	3
AVI 315	Avi. Legislation and Ethics	3
UAS 200	UAS and the NAS	3
		15

Senior Year
First Semester

Course and number		**Semester hrs**
AVI 410	Trans to Av. Industry	2
AVI	Technical Elective	3
AVI 370	Research Methods & Stats	3
UAS 250	Operational Sen & Payloads	3
FLT 110	Private Pilot Ground	3
		14

Second Semester

UAS 350L	UAS App Lab I	3
AVI 465	Aviation Capstone	3
UAS 400L	UAS App Lab II	3
AVI	Technical Elective	3
	Elective	3
		15

Total Requirements for the Degree **125-126**

MAJOR: B.S. Degree in Aviation Science with a Concentration in Flight Education *(Flight Lab Fees)

A. General Education Core		**47-48**
B. Major Core Requirements		**36**
1. Aviation Science Requirements		36
AVI 100	Introduction to Aviation	3
AVI 122	Orientation Seminar for Aviation Sci	1

AVI 220	Air Transportation	3
AVI 230	Aviation Management	3
AVI 232	Aviation Safety	3
AVI 250	Basic Aerodynamics	3
AVI 260	Aviation Human Factors	3
AVI 270	Air Traffic Control and NAS	3
AVI 314	Aviation Meteorology	3
AVI 315	Aviation Legislation and Ethics	3
AVI 370	Aviation Research Methods and Stats	3
AVI 410	Transition to the Aviation Industry	2
AVI 460	Aviation Internship	
or AVI 465	Aviation Capstone	3
C. Related Area Courses		**12**
AVNC 100	Basic Avionics	3
AVI 340	Airline and Corporate Flight Operations	3
AVI 350	Advanced Aerodynamics	3
AVI 420	Crew Resource Management	3
D. Flight Education Concentration		**18**
FLT 122	Flight Safety Seminar	1
FLT 110	Private Pilot Ground	3
FLT 115L	Private Pilot Flight Lab	2
FLT 225L	Cross Country Flight Lab	2
FLT 320	Instrument Ground	3
FLT 325L	Instrument Flight Lab	2
FLT 330	Commercial Ground	3
FLT 335L	Commercial Flight Lab	2
E. Electives (6 hours must be Technical Restrictive)		**12**
Total Semester Hours Required for Degree		**125**

*Must take AVI 275: Aircraft Systems I and AVI 375: Aircraft Systems II. GE 118 (Precalclus), PHYS 181/L (General Physics I with Lab) CSC 114 Intro to Computer Science must be taken for General Education.

Curriculum Guide for Majors in Aviation Science with a Concentration in Flight Education

Freshman Year
First Semester

Course and number		**Semester hrs**
AVI 122	Avi. Orientation Seminar	1
GE 185	Health Concepts	2
GE 102	English Comp. and Grammar	3
FLT 115L	Private Pilot Flight Lab	2
FLT 122	Flight Safety Seminar	1
FLT 110	Private Pilot Ground	3
AVI 100	Intro to Aviation	3
GE 122	Freshman Seminar	1
		16

Second Semester

CSC 114	Intro to Computer Science	3
AVI 220	Air Transportation	3
GE 103	English Comp. and Vocabulary	3
FLT 225L	Cross Country Flight Lab	2
GE 140	World Civilization I	3
PHYS 181/L	Gen Physics I w/Lab	4
		18

Sophomore Year
First Semester

Course and number		**Semester hrs**
GE 201	World Literature I	3
GE 118	Pre-Calculus	3
AVNC 100	Basic Avionics	3
GE	Soc. & Behavior Sciences	3
FLT 320	Instrument Ground	3
FLT 325L	Instrument Flight Lab	2
		17

Second Semester

AVI 270	ATC in the NAS	3
AVI 260	Aviation Human Factors	3
GE	Physical Ed. Activity	1
GE	Soc. & Behavior Science	3
GE 141	World Civilization II	3
GE	Fine Arts and Com	2
		15

Junior Year
First Semester

Course and number		**Semester hrs**
AVI 250	Basic Aerodynamics	3
FLT 330	Commercial Ground	3
FLT 335L	Commercial Flight Lab	2
GE	Literature and Language	3
AVI 420	Crew Resource Management	3
		14

Second Semester

GE/L	Math or Science Course	3/4
AVI 315	Aviation Legislation and Ethics	3
AVI 232	Aviation Safety	3
AVI 350	Advance Aerodynamics	3
AVI 314	Aviation Meteorology	3
GE	Physical Ed. Activity	1
		16/17

Senior Year
First Semester

Course and number		**Semester hrs**
AVI 410	Trans to Av. Industry	2
AVI	Technical Elective	3
SPCH 314	Public Speaking	3
AVI 370	Research Methods & Stats	3
AVI 230	Aviation Management	3
		14

Second Semester

	Elective	3
AVI	Technical Elective	3
AVI 340	Airline & Corp Flt Ops	3
AVI 465	Aviation Capstone	.3
	Elective	3
		15

Total Requirements for the Degree	**125-126**

* **Estimated Flight Lab Costs** (Flight Lab fees are evaluated periodically and are subject to change.) Flight training completion rates vary based on student comprehension level, frequency of lessons, and the motivation and dedication of the individual student. Students learn at different rates. This is especially true in the challenging field of aviation. The Federal Aviation Administration (FAA) has a set of completion standards for each flight certificate offered by Elizabeth City State University (ECSU). These standards must be

met in order for the student to be eligible to take the FAA practical test also known as a check ride.
The average costs for the various flight labs are as follows:

FLT 115L – Private * $ 6,500.00
FLT 225L – Cross-Country * $ 6,000.00
FLT 325L – Instrument * $ 5,000.00
FLT 335L – Commercial * $ 7,500.00
FLT 345L – Multi-Engine $ 2,500.00
FLT 425L – CFI $ 4,000.00
FLT 435L – CFII $ 1,500.00
FLT 445L – MEI $ 2000.00 or $ 3000.00
(*) Denotes required courses for the Flight Education Concentration.

Flight Lab are assessed at a flat rate and are evaluated periodically. Refund of any fees are subjected to university policy.

Prices are subject to change due to various factors including fluctuating fuel costs.

Prices do not include costs of FAA check ride examiner fee, knowledge test fee, and flight materials (headset, navigational charts, flight kits etc.) These costs are paid directly to individuals or companies that are independent of ECSU.

In order to keep flight training costs as low as possible, ECSU does not charge students for flight and ground instruction. Students receive flight training at cost, paying only for operating and maintenance cost of the aircraft.

Breakdown of Flight Lab Costs

COURSE **HOURLY RATES** **TOTAL COST**

FLT 115L
Private
Syllabus Totals
56 hours C-172 Aircraft use at $ 115/hr
$ 6440.00
TOTAL Syllabus Cost: $ 6440.00

TOTAL AMOUNT REQUIRED IN FLIGHT LAB ACCOUNT:
$ 6500.00

FLT 225L
Cross-Country
Syllabus Totals
50.0 hours C-172 Aircraft use at $ 115/hr
$ 5750.00
15.0 hours Redbird Simulator lab fee
$ 200.00
TOTAL Syllabus Costs: $ 5950.00

TOTAL AMOUNT REQUIRED IN FLIGHT LAB ACCOUNT:
$ 6000.00

FLT 325L
Instrument
Syllabus Totals
40.0 hours C-172 Aircraft use at $ 115/hr
$ 4600.00
20.0 hours Redbird Simulator lab fee
$ 200.00
TOTAL Syllabus Costs: $ 4800.00

TOTAL AMOUNT REQUIRED IN FLIGHT LAB ACCOUNT:
$ 5000.00

FLT 335L
Commercial
Syllabus Totals
40.0 hours C-172 Aircraft use at $ 115/hr
$ 4600.00
15.0 hours PA-28R Aircraft use at $ 165/hr
$ 2475.00
15.0 hours Redbird Simulator lab fee
$ 200.00
TOTAL Syllabus Costs: $ 7275.00

TOTAL AMOUNT REQUIRED IN FLIGHT LAB ACCOUNT:
$ 7500.00

FLT 345L
Multi-Engine
Syllabus Totals
12.0 hours PA-44 Aircraft use at $ 200/hr
$ 2400.00
TOTAL$ 2400.00

TOTAL AMOUNT REQUIRED IN FLIGHT LAB ACCOUNT:
$ 2500.00

FLT 425L
CFI – Initial
Syllabus Totals
5.0 hours C-172 Aircraft use at $ 115/hr
$ 575.00
20.0 hours PA-28R Aircraft use at $ 165/hr
$ 3300.00
TOTAL Syllabus Costs: $ 3875.00

TOTAL AMOUNT REQUIRED IN FLIGHT LAB ACCOUNT:
$ 4000.00

FLT 435L
CFI - Instrument
Syllabus Totals
10.0 hours C-172 Aircraft use at $ 115/hr $ 1150.00
10.0 hours Redbird Simulator lab fee
$ 200.00
TOTAL Syllabus Costs: $1350.00

TOTAL AMOUNT REQUIRED IN FLIGHT LAB ACCOUNT:
$ 1500.00

FLT 445L
CFI – Multi-Engine
Syllabus Totals
10.0 hours PA-44 Aircraft use at $200/hr $ 2000.00
15.0 hours PA-44 Aircraft use at $200/hr (PIC time build)$3000.00
TOTAL (no time build) Syllabus Costs:$2000.00
TOTAL (with time build) Syllabus Costs:$3000.00

If student requires 15 hours Pilot-in-command (PIC) time building in the PA44 that costs will be added to the syllabus costs.

TOTAL AMOUNT REQUIRED IN FLIGHT LAB ACCOUNT:
$ 2000.00 no time build or $ 3000.00 time build

Fees are assessed as flat rate and are based on fuel and maintenance cost and are subject to change at any time.

DEPARTMENT OF VISUAL AND PERFORMING ARTS

The Department of Visual and Performing Arts provides both a solid educational background and a supportive environment for those students who seek professional careers in music or graphic design. It does this while providing courses that ensure all university students have a well-balanced education -- one that includes both the arts and the sciences. The Department offers a Bachelor of Science degree in Graphic Design and a Bachelor of Arts degree in Music.

Mission Statement

The mission of the Graphic Design program is to support ECSU's liberal arts program by providing a challenging and supportive environment for learning and by providing a solid education to prepare students for opportunities in professional careers and/or graduate school.

The department provides a baccalaureate-level sequence of study that leads to a Bachelor of Science in Graphic Design.

Goals

The goals of the Graphic Design program are to provide students with the knowledge and skills necessary to pursue career opportunities or graduate study in graphic design and to provide enriching experiences in the visual arts for Elizabeth City State University students, faculty and citizens of the Albemarle region at large.

Objectives

The objectives are as follows:

A. to provide a graphic design degree program that:
   a. prepares students to pursue successful careers in graphic design.
   b. prepares students for graduate study.

B. to serve students who seek an overview of graphic design and art history as part of their general education

C. to provide graphic design students with a comprehensive education that establishes a solid foundation in graphic design, art history, and art theory, as well as opportunities to exhibit their work.

D. to support the University's liberal arts program by providing engaging courses in art for students majoring in other fields of study.

E. to support the University's community outreach initiatives by hosting a variety of art exhibitions, guest lecturers, and workshops.

F. to provide students with an atmosphere that supports the creative process by providing adequate facilities and equipment, theoretical and practical experience, individualized instruction and thorough advisement.

Admission Requirements

All students seeking to major in graphic design must first gain admission to Elizabeth City State University by applying through the Office of Admissions.

Academic Expectations

Students are required to compile a portfolio and complete an interim exam at the end of their sophomore year to determine if adequate progress is being made. All students are expected to proceed through the required sequence of courses achieving a grade of "C" or better.

Annual Portfolio Review

Students seeking a B.S. in Graphic Design are required to submit a portfolio for review during the Spring semester of their freshman, sophomore and junior year in the program.

Senior Show/Portfolio

Students seeking a B.S. in Graphic Design are required to mount a senior show and assemble a portfolio showcasing work that represents the student's unique style and demonstrates overall artistic skills and abilities.

Student Internships

The Graphic Design program has an active internship program that provides students with opportunities to work with local businesses and arts organizations.

MAJOR: B. S. Degree in Graphic Design

A. *General Education Core		**47**
B. Major Core Requirements		**60**
Core Courses		**54**
ART 100	Art Foundations	3
ART 102	Drawing I	3
ART 103	Drawing II	3

ART 201	Graphic Design II	3
ART 202	Graphic Design III	3
ART 210	Typography I	3
ART 301	Graphic Design IV	3
ART 302	Graphic Design V	3
ART 310	Typography II	3
ART 333	Imaging	3
ART 340	Photography I	3
ART 341	Photography II	3
ART 400	Advanced Studio (Graphic Design)	3
ART 406	Internship in Art (Graphic Design)	3
ART 409	Senior Portfolio/Show	3
ART 498	Graphic Design Theory	3
ART 499	Graphic Design Seminar	3
ARTH 217	History of Graphic Design	3
Related Courses (Required)		**6**
Choose any 6 semester hours from the following courses		
ARTH 315	African American Art	3
ARTH 317	Nineteenth-Century Art	3
ARTH 318	Twentieth-Century Art	3
ARTH 416	Theory of Contemporary Art Design	3
C. Minor/Electives		**18**
Total Semester Hours Required for Degree		**125**

**Graphic Design majors are not required to take GE 130. They may substitute any ARTH course for their General Studies requirement.*

**Graphic Design majors must take ART 101 towards the General Studies requirement.*

Curriculum Guide for Major in Graphic Design

Freshman Year
First Semester

Course and number		Semester hrs
ART 100	Art Foundation	3
ART 102	Drawing I	3
GE 140	World Civilization I	3
GE 185	Health Concepts	2
GE 102	English Composition & Grammar	3
GE	Physical Ed. Activity	1
GE 122	Freshman Seminar	1
		16

Second Semester

ART 101	Graphic Design I	3
ART 103	Drawing II	3
GE 103	English Composition & Vocabulary	3
GE 115	College Algebra	3
GE 141	World Civilization II	3
GE	Physical Ed. Activity	1
		16

Sophomore Year
First Semester

Course and number		Semester hrs
ART 201	Graphic Design II	3
ART 210	Typography I	3
GE	Fine Arts & Communication	2
GE 201	World Literature I	3
GE	Natural Science w/lab	4
		15

Second Semester

ART 202	Graphic Design III	3
GE	Social Behavioral Science	3
GE	Language & Literature	3
GE	Science or Math	3
ARTH 217	History of Graphic Design	3
		15

Junior Year
First Semester

Course and number		Semester hrs
ART 301	Graphic Design IV	3
ART 340	Photography I	3
ART 310	Typography II	3
	Minor/Elective	6
ARTH	Art History Course	3
		18

Second Semester

ART 302	Graphic Design V	3
ART 341	Photography II	3
	Minor/Elective	3
ART 333	Imaging	3
ARTH	Art History Course	3
GE	Social Behavioral Science	3
		18

Senior Year
First Semester

Course and number		Semester hrs
*ART 498	Graphic Design Theory	3
*ART 499	Graphic Design Seminar	3
ART 400	Advanced Studio/Graphic Design	3
	Minor Electives	3
ARTH	Art History Elective	3
		15

Second Semester

ART 409	Senior Portfolio/Show	3
ART 406	Graphic Design Intern	3
	Minor Electives	6
		12

**These classes must be taken at the same time.*

Total Semester Hours Required for Degree **125**

MUSIC

The Music program is fully accredited by the National Association of Schools of Music (NASM). In accordance with the mission of Elizabeth City State University (ECSU), the music department strives not only to create an aesthetic and practical environment that is conducive to learning, but also one committed to the delivery of a quality education to its diverse student body.

Mission Statement

The Music program provides students with opportunities that lead to a Bachelor of Arts degree in Music with concentrations in: Music Education Licensure, Composition, Performance, Music Business, Sound Recording Technology and Music (General). The Music program works to equip each student with the essential tools to become proficient in their area of concentration and to participate in a number of activities for cultural enrichment within Northeastern North Carolina.

Goals

The goals of the program adhere to the following objectives to support the mission and goals of the institution:

A. enhance performing skills and increase performance opportunities;
B. support the University's Liberal Arts curriculum by developing music courses to enhance musicianship;
C. track ECSU music graduates as they enter the workforce or commence their graduate studies; and
D. increase each student comprehensive knowledge and professionalism by building a stronger foundation in music theory, music history, applied skills, music technology, awareness of diverse cultures, and by providing performance opportunities via the Department's ensembles.

Learning Outcomes

Students will be able to demonstrate the following:

- proficiency on/in: (a) a selected instrument of study, (b) piano proficiency, (3) conducting activities, and (d) ensemble performances;
- comprehensive knowledge of music theory and essential aural skills;
- comprehensive knowledge of music history representing various eras and styles;
- ability to demonstrate a synthesis of music knowledge by engaging in a capstone project;
- ability to use music technology to enhance learning; and
- ability to use critical and creative skills.

MUSIC DEGREE PROGRAM WITH CONCENTRATIONS

B.A. in Music with a concentration in Composition, Performance or Music (General):

The program provides a broad liberal arts education for students who have an interest in either music (general), performance or composition. This program provides students with experiences that lead to graduate study and a professional career in the arts as performers, private instructors, and/or other arts-related vocations.

B.A. in Music (Music Education Licensure):

The program offers licensure preparation in music for grades K-12. It provides a foundation for students to become music teachers. This program also prepares education licensure students for graduate work.

B.A. in Music with a concentration in Music Business or Sound Recording Technology:

The program provides a broad liberal arts education for students interested in diverse fields within the music industry.

ADMISSION REQUIREMENTS

All students seeking to major or minor in music must first gain admission to ECSU by applying through the Office of Admissions. Following admission to the University, prospective music majors must complete and pass an audition and take the Music Theory Placement Exam (MTPE). The audition is used as a diagnostic tool by the Music Department faculty to determine the skill level of prospective students. Students who are not at the collegiate performance level may be accepted provisionally. Students are given two semesters to successfully complete an audition at the college level. Students with deficiencies in theory are placed in a rudimental theory course. Upon passing the MTPE, students advance to the first college-level theory course. Students admitted provisionally to the Department have one year to be classified at Performance Level 1. Students who do not progress to Performance Level 1 will not be accepted into the program. Music students must earn a 2.0 G.P.A in music classes by the end of the sophomore year to stay in the music program. Music students admitted

into the Teacher Education Program must maintain the required G.P.A. designated by this program. All music students must earn a grade of "C" or better in all music classes.

AUDITIONS
All prospective students must audition before being accepted into a program of study. Auditions occur before a panel of faculty. Each student must perform works from the standard repertoire for their voice/instrument, and pertinent to his/her instrument and demonstrate a level of proficiency in music reading. Students who successfully pass their auditions are enrolled in applied lessons. Individual instruction is available in piano, voice, woodwinds, brass, percussion, and strings. Audition procedures are the same for those students who wish to minor in music.

NON-MUSIC MAJORS
Non-music majors are permitted to register for applied music if the applied instructor has availability. No additional charges for applied instruction are required. Priority for enrollment is given to Music majors. Students are required to purchase music and other accessories as needed for their instruction.

All students regardless of degree program may take classes authorized by the music department. Non-music students, with guidance from their advisor, may take the following courses:

MUS 110 Piano Class for Beginners I
MUS 111 Piano Class for Beginners II
MUS 116 Introduction to Music Industry Studies
MUS 118 Basic Music Theory Rudiments
MUS 215 Introduction to the Recording Studio
MUS 307 A Study of Non-Western Music

ENSEMBLES
Ensembles contribute to the education of students, cultivate an overall understanding of music, and promote teamwork among students. They provide an understanding of environmental and cultural diversity through performances as they strengthen our community.

Students majoring in music, regardless of concentration, are required to participate in a large ensemble for six semesters. Ensemble directors will address sight-reading and good performance practices. All ensemble classes are available to non-music majors; however, students must audition for acceptance into an ensemble. Two semesters of Marching Band satisfy the two General Education Physical Activity requirements.

- Wind instrumentalists and percussionists may choose between Marching Band, Wind Ensemble, and Symphony Orchestra.
- Voice students must participate in one of the Department's large choral groups.
- Piano students who are not in the Music Education Licensure program may choose any of the Department's ensembles or may enroll in additional semesters of Piano Accompanying to satisfying this requirement.
- String students must register for the University Symphony Orchestra. In addition to large ensemble requirements, instrumental music majors in the licensure program must also register for a small instrumental ensemble course.

Ensemble and applied music courses may be repeated for credit. Large ensembles include the University Choir, Marching Band, Symphonic Wind Ensemble, and Symphony Orchestra. Small ensembles include the Collegians Jazz Ensemble, Choral Ensemble, University Basketball Band, Brass Ensemble, Woodwind Ensemble, String Chamber Ensemble, and Percussion Ensemble. Guitar majors may enroll in the Collegians Jazz Ensemble to complete the large ensemble requirement. Pianists may choose to register for additional credits (beyond the minimum requirements) in Piano Accompanying.

PERFORMANCE LEVELS
All music students are required to advance through the established performance levels to show progress on an instrument of study. Students not meeting the required performance level by the end of the sophomore year will not be allowed to continue in the music program. The Music Student Handbook contains the suggested performance repertoire for each instrument and performance level.

PERFORMANCE REQUIREMENTS
Students with a concentration in Performance are required to perform a Junior Recital (Junior status = 60 credit hours) of 25-30 minutes of music, and a Senior Recital (Senior status = 90 credit hours) of approximately 45-50 minutes of music. Students majoring in Music with Education Licensure are required to perform only a Senior Recital. The department will stipulate specific requirements for the Senior Recital in meeting State Education Standards. All music majors taking applied lessons must perform a solo work once each semester in a general music department student recital assessment. Students must also perform at the end of the semester for the jury assessment. The applied teacher will determine if additional performances are required during a given semester.

PIANO PROFICIENCY
This is a diagnostic tool to determine aptitude in performance and sight-reading at the keyboard. Students who pass piano proficiency will not be required to enroll in class piano. Students who do not

pass piano proficiency will enroll in the piano class sequence of courses. Music education licensure majors will enroll in four class piano courses: MUS 110-113. All other music majors will enroll in two class piano courses: MUS 110-111. Students may retest the exam to complete Piano Proficiency. Applied piano, pending availability, may substitute for class piano.

SENIOR PROJECTS
Students concentrating in Music Business and Sound Recording are required to complete a Senior Project. The project is assessed by a committee/panel of faculty members. Students concentrating in Composition are required to complete a capstone project that may entail a senior recital one hour in length of original works or a composition representing significant contribution to a performance of a large or chamber ensemble. Students in the music (general) concentration may elect to either complete a recital or senior project.

RECITAL ATTENDANCE
All Music students must pass six semesters of recital attendance with a grade of "P". The Department Chair will evaluate recital attendance credit for transfer students.

TEACHER EDUCATION
Music Education licensure students must be formally admitted into the Teacher Education Program, following requirements listed on the Teacher Education website (http://tep.ecsu.edu/) and in the ECSU Catalog. Students will work with the music education instructor/coordinator and with teacher education personnel to ensure eligibility and successful continuance in the program.

STUDENT INTERNSHIPS
Students who choose to apply for a music internship must work with their instructor in preparing and finalizing the necessary paperwork. For a long distance internship, the instructor, with written approval from the Chair and other administrators, may adjust the student's course schedule to accommodate the internship.

STUDENT TEACHING
Music Education Licensure students must work with the University Music Supervisor and the Teacher Education Program for completion of duties and assignments.

SCHOLARSHIPS
For information regarding scholarships, please contact the Department Chair and the appropriate ensemble director (bands, choral, or orchestra, as well as small ensemble directors).

Major: B. A. in Music (General)

A. Required General Studies Courses		**46**
Music majors should register for GE 111.		
B. Major Requirements		**48-50**
Core Courses		**26-28**
MUS 101	Recital Attendance	P/F
MUS 103	Aural Skills I	1
MUS 104	Aural Skills II	1
MUS 203	Aural Skills III	1
MUS 204	Aural Skills IV	1
MUS 108	Music Theory I	2
MUS 109	Music Theory II	2
MUS 208	Music Theory III	2
MUS 209	Music Theory IV	2
MUS	Ensembles (Minus 2 for P.E.)	6
MUS 305	Music History I	3
MUS 306	Music History II	3
MUS 307	A Study of Non-Western Music	1
MUS 309	Form and Analysis	3
Related Courses		**22**
MUSA	Applied Instrument	14
MUS 123	Voice Class (Omit for Vocalists)	1
MUS 126	Voice Diction (Voice majors only)	1
MUS 231	String Class	1
MUS 338	Conducting	1
MUS 345	Brass Class	1
MUS 346	Woodwind Class	1
MUS 347	Percussion Class	1
MUS 400	Senior Recital/Project	1
MUS	Small Ensemble	1
C. Music Electives		**10**
D. Non Music Electives or Minor		**20**
Total Semester Hours Required for Degree		**124-126**

All music students must earn a "C" or better in all music classes.

If students are not enrolled in Marching Band, they must register for P.E. classes to meet the general studies requirement.

Music students who pass piano proficiency will not have to complete the piano class sequence

Curriculum Guide: B.A. in Music (General)

Freshman Year

First Semester

Course and number		**Semester hrs**
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS	Ensemble/P.E. Activity	1
MUS 103	Aural Skills I	1
MUS 108	Music Theory I	2
GE 102	English Composition and Grammar	3

GE 115	College Algebra	3
GE 122	Freshman Seminar	1
GE	Math or Science	3
		15

Second Semester

MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS	Ensemble	1
MUS 104	Aural Skills II	1
MUS 109	Music Theory II	2
MUS	Music Elective	1
GE 103	English Composition and Vocabulary	3
GE 111	Introduction to Computer Applications	3
GE	Natural Science /Lab	4
		16

Sophomore Year

First Semester

Course and number		Semester hrs
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	2
MUS	Ensemble/P.E. Activity	1
MUS 203	Aural Skills III	1
MUS 208	Music Theory III	2
MUS 231	String Class	1
MUS	Music Electives	3
MUS 347	Percussion Class	1
GE 140	World Civilization I	3
GE 201	World Literature I	3
		17

Second Semester

MUS 101	Recital Attendance	P/F
MUSA	Applied Music	2
MUS 204	Aural Skills IV	1
MUS 208	Music Theory IV	2
MUS 345	Brass Class	1
MUS	Ensemble	1
MUS 123/126	Voice Class/Voice Diction (Vocal)	1
MUS	Music Elective	1
GE 185	Health Concepts	2
GE 141	World Civilization II	3
GE	Languages and Literature	3
		17

Junior Year

First Semester

Course and number		Semester hrs
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	2
MUS 305	Music History I	3
MUS 307	A Study of Non-Western Music	1
MUS 346	Woodwind Class	1
MUS	Ensemble	1
MUS 212	The African American in Music	2
GE	Social Science	3
GE 130	Art Appreciation	2
	Non Music Electives	2
		17

Second Semester

MUS 101	Recital Attendance	P/F
MUSA	Applied Music	2
MUS	Ensemble	1
MUS 306	Music History II	3
MUS 309	Form and Analysis	3
MUS 338	Conducting	1
MUS	Small Ensemble	1
	Non Music Electives	4
GE	Social Science	3
		18

Senior Year

First Semester

Course and number		Semester hrs
MUSA	Applied Instrument	2
MUS	Music Elective	3
	Non Music Electives	7
		12

Second Semester

MUSA	Applied Instrument	2
MUS 400	Senior Recital/Project	1
MUS	Music Electives	2
	Non Music Electives	7
		12

Total Semester Hours Required for Degree **124-126**

All music students must earn a "C" or better in all music classes.

If students are not enrolled in Marching Band, they must register for P.E. classes to meet the general studies requirement.

Music students who pass piano proficiency will not have to complete the piano class sequence.

Major: B. A. in Music (Music Education Licensure) Instrumental

A. Required General Studies Courses	**46**
B. Major Requirements	**45**
Core Courses	**26**

MUS 101	Recital Attendance (6 semesters)	P/F
MUS 103	Aural Skills I	1
MUS 104	Aural Skills II	1
MUS 108	Music Theory I	2
MUS 109	Music Theory II	2
MUS 203	Aural Skills III	1
MUS 204	Aural Skills IV	1
MUS 208	Music Theory III	2
MUS 209	Music Theory IV	2
MUS 305	Music History I	3
MUS 306	Music History II	3
MUS 309	Form and Analysis	3
MUS	Ensembles (Two are counted as P.E.)	5

Related Required Courses **19**

Instrumental Emphasis

MUSA	Applied Lessons	12
MUS 312	Orchestration	2
MUS 338	Conducting	1
MUS 446	Instrumental Techniques and Conducting	1
MUS 400	Senior Recital/Project	1
MUS	Small Ensemble	2

C. Music Education **13**

MUS 120	Introduction to Music Education	1

MUS 123	Voice Class	1
MUS 231	String Class	1
MUS 307	A Study of Non-Western Music	1
MUS 345	Brass Class	1
MUS 346	Woodwind Class	1
MUS 347	Percussion Class	1
EDUC 428	Music Methods in the Elementary School	3
EDUC 429	Music Methods in the Secondary School	3

D. Professional Education **24**

EDUC 210	Professional Studies I: Introduction to Education	3
EDUC 211 B	Professional Studies I: Introduction to Education Field Experience	P/F
EDUC 310	Professional Studies II: Special Education and Diverse Learners	3
EDUC 311 B	Professional Studies II: Special Education and Diverse Learners Field Experience	P/F
EDUC 350	Intermediate and Content Reading	3
EDUC 351B	Intermediate and Content Reading Early Field Experience	P/F
EDUC 360	Professional Studies III: Teaching & Assessment	3
EDUC 443	Observation and Supervised Teaching in Music	12
EDUC 478	Seminar in Contemporary Educational Issues	P/F

Total Semester Hours Required for Degree **128**

All music students must earn a "C" or better in all music classes.
Music students who pass piano proficiency will not have to complete the piano class sequence.

Curriculum Guide: B. A. in Music (Music Education Licensure) Instrumental

Freshman Year

First Semester

Course and number		Semester hrs
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS	Ensemble	1
MUS 103	Aural Skills I	1
MUS 108	Music Theory I	2
GE 102	English Composition and Grammar	3
GE 115	College Algebra	3
GE 122	Freshman Seminar	1
GE 155	Principles of Biological Science	3
GE 185	Health Concepts	2
		17

Second Semester

MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS	Ensemble	1
MUS	Small Ensemble	1
MUS 104	Aural Skills II	1
MUS 109	Music Theory II	2
GE 103	English Composition and Vocabulary	3
EDUC 203	Introduction to Computer Instructional Technology	3
GE 130	Art Appreciation	2
GE 152	*Principles of Physical Science/Lab	4
		18

Sophomore Year

First Semester

Course and number		Semester hrs
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	2
MUS	Ensemble	1
MUS 120	Introduction to Music Education	1
MUS 203	Aural Skills III	1
MUS 208	Music Theory III	2
MUS 231	String Class	1
MUS 347	Percussion Class	1
GE 140	World Civilization I	3
PSY 212	General Psychology	3
GE 201	World Literature I	3
		18

Second Semester

MUS 101	Recital Attendance	P/F
MUSA	Applied Music	2
MUS 123	Voice Class	1
MUS 204	Aural Skills IV	1
MUS 209	Music Theory IV	2
MUS 345	Brass Class	1
MUS	Ensemble	1
EDUC 210	Professional Studies I: Introduction to Education	3
EDUC 211B	Professional Studies I: Introduction to Education Early Field Experience	P/F
GE 141	World Civilization II	3
GE	Languages and Literature	3
		17

Junior Year

First Semester

Course and number		Semester hrs
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	2
MUS 212	The African American in Music	2
MUS 305	Music History I	3
MUS 307	A Study of Non-Western Music	1
MUS 346	Woodwind Class	1
MUS	Ensemble	1
EDUC 310	Professional Studies II: Special Education & Diverse Learners	3
EDUC 311B	Professional Studies II: Special Education and Diverse Learners Field Experience	P/F
GE 142	Introduction to Geography	3
		16

Second Semester

MUS 101	Recital Attendance	P/F
MUSA	Applied Music	2
MUS	Ensemble	1
MUS 306	Music History II	3
MUS 309	Form and Analysis	3
MUS 312	Orchestration	2
MUS 338	Conducting	1
MUS	Small Ensemble	1
EDUC 428	Music Methods in the Elementary School	3
		16

Senior Year

First Semester

Course and number		Semester hrs
MUSA	Applied Music	2
MUS	Ensemble	1
MUS 400	Senior Recital/Project	1
MUS 446	Instrumental Techniques and Conducting	1
EDUC 350	Intermediate & Content Read	3
EDUC 351B	Intermediate and Content Reading Field Experience	P/F
EDUC 360	Professional Studies III: Teaching and Assessment	3
EDUC 429	Music Methods in the Secondary School	3
		14

Second Semester

EDUC 443	Observation and Supervised Teaching in Music	12
EDUC 478	Seminar in Contemporary Education Issues	P/F
		12

Total Semester Hours Required for Degree **128**

All music students must earn a "C" or better in all music classes.

Music students who pass piano proficiency will not have to complete the piano class sequence.

**Students may elect GE 152 or GE 155 as the lab component.*

Major: B.A. in Music (Music Education Licensure) Piano Vocal

A. Required General Studies Courses	**46**
B. Major Requirements	**46**
Core Courses	**28**

MUS 101	Recital Attendance (6 semesters)	P/F
MUS 103	Aural Skills I	1
MUS 104	Aural Skills II	1
MUS 108	Music Theory I	2
MUS 109	Music Theory II	2
MUS 203	Aural Skills III	1
MUS 204	Aural Skills IV	1
MUS 208	Music Theory III	2
MUS 209	Music Theory IV	2
MUS 305	Music History I	3
MUS 306	Music History II	3
MUS 309	Form and Analysis	3
MUS	Ensembles	7

Related Required Courses **18**

Piano Vocal Emphasis

MUSA	Applied Lessons (Piano)	10
MUSA	Applied Lessons (Voice)	2
MUS 312	Orchestration	2
MUS 338	Conducting	1
MUS 447	Choral Techniques and Conducting	1
MUS 429	*Piano Accompanying/Literature/Pedagogy	1
MUS 400	Senior Recital/Project	1

C. Music Education **12**

MUS 120	Introduction to Music Education	1
MUS 231	String Class	1
MUS 307	A Study of Non-Western Music	1
MUS 345	Brass Class	1
MUS 346	Woodwind Class	1
MUS 347	Percussion Class	1
EDUC 428	Music Methods in the Elementary School.	3
EDUC 429	Music Methods in the Secondary School	3

D. Professional Education **24**

EDUC 210	Professional Studies I: Introduction to Education	3
EDUC 211 B	Professional Studies I: Introduction to Education Field Experience	P/F
EDUC 310	Professional Studies II: Special Education and Diverse Learners	3
EDUC 311 B	Professional Studies II: Special Education and Diverse Learners Field Experience	P/F
EDUC 350	Intermediate & Content Reading	3
EDUC 351B	Intermediate and Content Reading Field Experiences	P/F
EDUC 360	Professional Studies III: Teaching & Assessment	3
EDUC 443	Observation and Supervised Teaching in Music	12
EDUC 478	Seminar in Contemporary Educational Issues	P/F

Total Semester Hours Required for Degree **128**

**Please select one.*

All music students must earn a "C" or better in all music classes.

Music students who pass piano proficiency will not have to complete the piano class sequence.

Curriculum Guide: B.A. in Music (Music Education Licensure) Piano Vocal

Freshman Year

First Semester

Course and number		Semester hrs
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS	Ensemble	1
MUS 103	Aural Skills I	1
MUS 108	Music Theory I	2
GE 102	English Composition and Grammar	3
GE 115	College Algebra	3
GE 122	Freshman Seminar	1
GE 155	Principles of Biological Science	3
PSY 212	General Psychology	3
		18

Second Semester

MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS	Ensemble	1
MUS 104	Aural Skills II	1
MUS 109	Music Theory II	2
MUSA	Applied Voice	1
GE 103	English Composition and Vocabulary	3
EDUC 203	Introduction to Computer Instructional	3

	Technology	
GE 130	Art Appreciation	2
GE 152	*Principles of Physical Science/Lab	4
		18

Sophomore Year

First Semester

Course and number		Semester hrs
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUSA	Applied Voice	1
MUS	Ensemble	1
MUS 120	Introduction to Music Education	1
MUS 203	Aural Skills III	1
MUS 208	Music Theory III	2
MUS 231	String Class	1
MUS 347	Percussion Class	1
GE 140	World Civilization I	3
GE 185	Health Concepts	2
GE 201	World Literature I	3
		17

Second Semester

MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS 204	Aural Skills IV	1
MUS 209	Music Theory IV	2
MUS 345	Brass Class	1
MUS	Ensemble	1
EDUC 210	Professional Studies I: Introduction to Education	3
EDUC 211B	Professional Studies I: Introduction to Education Early Field Experience	P/F
GE 141	World Civilization II	3
GE	Languages and Literature	3
GE	P.E. Activity	1
		16

Junior Year

First Semester

Course and number		Semester hrs
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	2
MUS 212	The African American in Music	2
MUS 305	Music History I	3
MUS 307	A Study of Non-Western Music	1
MUS 346	Woodwind Class	1
MUS	Ensemble	1
EDUC 310	Professional Studies II: Special Education & Diverse Learners	3
EDUC 311B	Professional Studies II: Special Education and Diverse Learners Field Experience	P/F
GE	P.E. Activity	1
GE 142	Introduction to Geography	3
		17

Second Semester

MUS 101	Recital Attendance	P/F
MUSA	Applied Music	2
MUS	Ensemble	1
MUS 306	Music History II	3
MUS 309	Form and Analysis	3
MUS 312	Orchestration	2
MUS 338	Conducting	1
MUS	Piano Accompanying or Pedagogy or Literature	1
EDUC 428	Music Methods in the Elementary School	3
		16

Senior Year

First Semester

Course and number		Semester hrs
MUSA	Applied Music	2
MUS	Ensemble	1
MUS 400	Senior Recital/Project	1
MUS 447	Choral Techniques and Conducting	1
EDUC 350	Intermediate and Content Reading	3
EDUC 351B	Intermediate and Content Reading Field Experience	P/F
EDUC 360	Professional Studies III: Teaching and Assessment	3
EDUC 429	Music Methods in the Secondary School	3
		14

Second Semester

EDUC 443	Observation and Supervised Teaching in Music	12
EDUC 478	Seminar in Contemporary Education Issues	P/F
		12

Total Semester Hours Required for Degree **128**

All music students must earn a "C" or better in all music classes.

Music students who pass piano proficiency will not have to complete the piano class sequence.

**Students may elect GE 152 or GE 155 as the lab component.*

Major: B.A. in Music (Music Education Licensure) Vocal

A. Required General Studies Courses	**46**
B. Major Requirements	**46**
Core Courses	**28**

MUS 101	Recital Attendance (6 semesters)	P/F
MUS 103	Aural Skills I	1
MUS 104	Aural Skills II	1
MUS 108	Music Theory I	2
MUS 109	Music Theory II	2
MUS 203	Aural Skills III	1
MUS 204	Aural Skills IV	1
MUS 208	Music Theory III	2
MUS 209	Music Theory IV	2
MUS 305	Music History I	3
MUS 306	Music History II	3
MUS 309	Form and Analysis	3
MUS	Ensembles	7

Related Required Courses **18**

Vocal Emphasis

MUSA	Applied Lessons	12
MUS 126	Voice Diction	1
MUS 312	Orchestration	2

MUS 338	Conducting	1
MUS 447	Choral Techniques and Conducting	1
MUS 400	Senior Recital/Project	1

C. Music Education **12**

MUS 120	Introduction to Music Education	1
MUS 231	String Class	1
MUS 307	A Study of Non-Western Music	1
MUS 345	Brass Class	1
MUS 346	Woodwind Class	1
MUS 347	Percussion Class	1
EDUC 428	Music Methods in the Elementary School	3
EDUC 429	Music Methods in the Secondary School	3

D. Professional Education **24**

EDUC 210	Professional Studies I: Introduction to Education	3
EDUC 211 B	Professional Studies I: Introduction to Education Field Experience	P/F
EDUC 310	Professional Studies II: Special Education and Diverse Learners	3
EDUC 311 B	Professional Studies II: Special Education and Diverse Learners Field Experience	P/F
EDUC 350	Intermediate & Content Reading	3
EDUC 351B	Intermediate and Content Reading Field Experience	P/F
EDUC 360	Professional Studies III: Teaching & Assessment	3
EDUC 443	Observation and Supervised Teaching in Music	12
EDUC 478	Seminar in Contemporary Educational Issues	P/F
Total Semester Hours Required for Degree		**128**

All music students must earn a "C" or better in all music classes.

Music students who pass piano proficiency will not have to complete the piano class sequence.

Curriculum Guide: B. A. in Music (Music Education Licensure) Vocal

Freshman Year

First Semester

Course and number		Semester hrs
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS	Ensemble	1
MUS 103	Aural Skills I	1
MUS 108	Music Theory I	2
GE 102	English Comp. and Grammar	3
GE 115	College Algebra	3
GE 122	Freshman Seminar	1
GE 155	Principles of Biological Science	3
		15

Second Semester

MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS	Ensemble	1
MUS 104	Aural Skills II	1
MUS 109	Music Theory II	2
GE 103	English Composition and Vocabulary	3
EDUC 203	Introduction to Computer Instructional Technology	3
GE 130	Art Appreciation	2
GE 152	*Principles of Physical Science/Lab	4
GE	P.E. Activity	1
		18

Sophomore Year

First Semester

Course and number		Semester hrs
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	2
MUS	Ensemble	1
MUS 120	Introduction to Music Education	1
MUS 126	Voice Diction	1
MUS 203	Aural Skills III	1
MUS 208	Music Theory III	2
MUS 231	String Class	1
MUS 347	Percussion Class	1
GE 140	World Civilization I	3
GE 201	World Literature I	3
GE	P.E. Activity	1
		17

Second Semester

MUS 101	Recital Attendance	P/F
MUSA	Applied Music	2
MUS 204	Aural Skills IV	1
MUS 209	Music Theory IV	2
MUS 345	Brass Class	1
MUS	Ensemble	1
EDUC 210	Professional Studies I: Introduction to Education	3
EDUC 211B	Professional Studies I: Introduction to Education Early Field Experience	P/F
GE 141	World Civilization II	3
GE 185	Health Concepts	2
GE	Languages and Literature	3
		18

Junior Year

First Semester

Course and number		Semester hrs
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	2
MUS 212	The African American in Music	2
MUS 305	Music History I	3
MUS 307	A Study of Non-Western Music	1
MUS 346	Woodwind Class	1
MUS	Ensemble	1
EDUC 310	Professional Studies II: Special Education and Diverse Learners	3
EDUC 311B	Professional Studies II: Special Education and Diverse Learners Field Experience	P/F
PSY 212	General Psychology	3
		16

Second Semester

MUS 101	Recital Attendance	P/F
MUSA	Applied Music	2
MUS	Ensemble	1
MUS 306	Music History II	3
MUS 309	Form and Analysis	3
MUS 312	Orchestration	2
MUS 338	Conducting	1
EDUC 428	Music Methods in the Elementary School	3

GE 142	Introduction to Geography	3
		18

Senior Year

First Semester

Course and number		Semester hrs
MUSA	Applied Music	2
MUS	Ensemble	1
MUS 400	Senior Recital/Project	1
MUS 447	Choral Techniques and Conducting	1
EDUC 350	Intermediate & Content Reading	3
EDUC 351B	Intermediate and Content Reading Field Experience	P/F
EDUC 360	Professional Studies III: Teaching and Assessment	3
EDUC 429	Music Methods in the Secondary School	3
		14

Second Semester

EDUC 443	Observation and Supervised Teaching in Music	12
EDUC 478	Seminar in Contemporary Education Issues	P/F
		12

Total Semester Hours Required for Degree **128**

All music students must earn a "C" or better in all music classes.

Music students who pass piano proficiency will not have to complete the piano class sequence.

**Students may elect GE 152 or GE 155 as the lab component.*

Academic Concentration in Music

MUS 101	Recital Attendance (2 semesters)	P/F
MUS 103	Aural Skills I	1
MUS 104	Aural Skills II	1
MUS 108	Music Theory I	2
MUS 109	Music Theory II	2
MUS 203	Aural Skills III	1
MUS 208	Music Theory III	2
MUS 305	Music History I	3
MUS 306	Music History II	3
MUS 338	Conducting	1
MUS	Ensemble	2
MUSA	Applied Instrument	4
MUS	Electives	2

Total Hours Required for Academic Concentration **24**

Minor in Music

MUS 101	Recital Attendance (2 semesters)	P/F
MUS 103	Aural Skills I	1
MUS 104	Aural Skills II	1
MUS 108	Music Theory I	2
MUS 109	Music Theory II	2
MUS 203	Aural Skills III	1
MUS 208	Music Theory III	2
MUS 305	Music History I	3
MUS 306	Music History II	3
MUS 338	Conducting	1
MUS	Ensemble	2
MUSA	Applied Instrument	4
MUS	Electives	2

Total Hours Required for Academic Concentration **24**

Licensure Only

MUS 103	Aural Skills I	1
MUS 104	Aural Skills II	1
MUS 203	Aural Skills III	1
MUS 204	Aural Skills IV	1
MUS 108	Music Theory I	2
MUS 109	Music Theory II	2
[1]MUS	Piano Classes or Proficiency	4
MUS 123	Voice Class (Instrumental Only)	1
MUS 126	Voice Diction (Vocal Only)	1
MUS 212	The African American in Music	2
MUS 208	Music Theory III	2
MUS 209	Music Theory IV	2
MUS 231	String Class	1
MUS	Ensembles	6
MUS 305	Music History I	3
MUS 306	Music History II	3
MUS 307	A Study of Non-Western Music	1
MUS 309	Form and Analysis	3
MUS 312	Orchestration	2
MUS 338	Conducting	1
MUS 345	Brass Class	1
MUS 346	Woodwind Class	1
MUS 347	Percussion Class	1
MUSA	Applied Music	14
MUS 400	Senior Recital/Project	1
MUS 44/446	Instrumental or Choral Techniques and Conducting	1
[2]MUS	Piano Classes (Piano Majors Only)	1

Education Requirements **30**

EDUC 210	Professional Studies I: Introduction to Education	3
EDUC 211B	Professional Studies I: Introduction to Education Early Field Experience	P/F
EDUC 310	Professional Studies II: Special Education and Diverse Learners	3
EDUC 311B	Professional Studies II: Special Education and Diverse Learners Field Experience	P/F
EDUC 350	Intermediate and Content Reading	3
EDUC 351B	Intermediate and Content Reading Field Experience	P/F
EDUC 360	Professional Studies III: Teaching and Assessment	3
EDUC 428	Music Methods in the Elementary School	3
EDUC 429	Music Methods in the Secondary School	3
EDUC 443	Observation and Supervised Teaching in Music	12
EDUC 478	Seminar in Contemporary Educational Issues	P/F

[1] *Students will be required to pass piano proficiency or take the piano class sequence consisting of four courses: MUS 110-113. Applied Piano may substitute for Class Piano.*

[2] *Piano Pedagogy, Piano Accompanying or Piano Literature may be selected.*

SPECIFIC INFORMATION

The Department Chair and/or music education coordinator will review prospective licensure-only students' transcripts. In addition, students will be required to complete a department assessment before being admitted into the Music Licensure-Only program. Based on the assessment, students will be advised to take specific courses as specified by program content need.

Twenty-four credit hours are required in the music content area. However, additional courses may be required pending the assessment of skills and content knowledge needed for teaching music. The Senior Recital is a requirement established by the music education licensure program. With the written approval of the applied teacher, applied lessons may be reduced with the completion of the Senior Recital.

Thirty education credit hours will be required for the professional education sequence of courses.
The Chair and/or music education coordinator may revise the music education licensure curriculum if deemed necessary by accreditation requirements and/or the Department of Education and Psychology.

Major: B. A. in Music Concentration in Performance

A. Required General Studies Courses		**46**
Music majors should register for GE 111.		
B. Major Requirements		**54-56**
Core Courses		**26-28**
MUS 101	Recital Attendance	P/F
MUS 103	Aural Skills I	1
MUS 104	Aural Skills II	1
MUS 203	Aural Skills III	1
MUS 204	Aural Skills IV	1
MUS 108	Music Theory I	2
MUS 109	Music Theory II	2
MUS 208	Music Theory III	2
MUS 209	Music Theory IV	2
MUS	Ensembles (Minus 2 for P.E.)	6
MUS 305	Music History I	3
MUS 306	Music History II	3
MUS 307	A Study of Non-Western Music	1
MUS 309	Form and Analysis	3
Related Courses: Performance		**28**
MUSA	Applied Instrument	16
MUS 126	Voice Diction (Voice majors only)	1
MUS 301	Junior Recital	1
MUS 338	Conducting	1
MUS 400	Senior Recital/Project	1
MUS 446/447	Instrumental or Choral Techniques and Conducting	1
MUS	Literature: Vocal, Strings, Brass, Winds, Keyboard or Percussion	2
MUS	*Small Ensembles (Minus 1 for Vocal)	6
C. Music Electives		**4**
D. Non Music Elective or Minor		**20**
Total Semester Hours Required for Degree		**124-126**

All music students must earn a "C" or better in all music classes.

If students are not enrolled in Marching Band, they must register for P.E. classes to meet the general studies requirement.

Music students who pass piano proficiency will not have to complete the piano class sequence.
**Instead of small ensembles, piano students may enroll in accompanying.*

Curriculum Guide: B. A. in Music with Concentration in Performance

Freshman Year

First Semester

Course and number		Semester hrs
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	2
MUS	Ensemble/P.E. Activity	1
MUS 103	Aural Skills I	1
MUS 108	Music Theory I	2
MUS	Music Elective	1
GE 102	English Composition and Grammar	3
GE 115	College Algebra	3
GE 122	Freshman Seminar	1
GE 185	Health Concepts	2
		16

Second Semester

MUS 101	Recital Attendance	P/F
MUSA	Applied Music	2
MUS	Ensemble	1
MUS 104	Aural Skills II	1
MUS 109	Music Theory II	2
GE 103	English Composition and Vocabulary	3
GE 111	Introduction to Computer Applications	3
GE 130	Art Appreciation	2
GE	Natural Science /Lab	4
		18

Sophomore Year

First Semester

Course and number		Semester hrs
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	2
MUS	Ensemble/P.E. Activity	1
MUS 203	Aural Skills III	1
MUS 208	Music Theory III	2
MUS	Instrumental/Literature, Winds, Percussion or Strings	1
MUS	*Small Ensemble or Voice Diction	1
GE	Math or Science	3
GE 140	World Civilization I	3
GE 201	World Literature I	3
		17

Second Semester

MUS 101	Recital Attendance	P/F
MUSA	Applied Music	2
MUS 204	Aural Skills IV	1
MUS 209	Music Theory IV	2
MUS	Instrumental/Literature, Brass, Voice or Piano	1
MUS	Ensemble	1
MUS	Small Ensemble	1
GE 141	World Civilization II	3
GE	Languages and Literature	3
GE	Social Science	3
		17

Junior Year

First Semester

Course and number		Semester hrs
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	2
MUS 212	The African American in Music	2
MUS 305	Music History I	3
MUS 307	A Study of Non-Western Music	1
MUS	Ensemble	1
MUS	**Small Ensemble	1
GE	Social Science	3
	Non Music Elective	1
		14

Second Semester

MUS 101	Recital Attendance	P/F
MUSA	Applied Music	2
MUS 301	Junior Recital	1
MUS 306	Music History II	3
MUS 309	Form and Analysis	3
MUS 338	Conducting	1
MUS	Ensemble	1
MUS	**Small Ensemble	1
MUS	Music Electives	1
	Non Music Electives	2
		15

Senior Year

First Semester

Course and number		Semester hrs
MUSA	Applied Instrument	2
MUS 446/447	Instrumental or Choral Techniques and Conducting	1
MUS	**Small Ensemble	1
MUS	Music Elective	1
	Non Music Electives	9
		14

Second Semester

MUSA	Applied Instrument	2
MUS 400	Senior Recital/Project	1
MUS	**Small Ensemble	1
MUS	Music Elective	1
	Non Music Electives	8
		13

Total Semester Hours Required for Degree	**124-126**

All music students must earn a "C" or better in all music classes.

If students are not enrolled in Marching Band, they must register for P.E. classes to meet the general studies requirement.

Music students who pass piano proficiency will not have to complete the piano class sequence.

**Voice students must take Voice Diction.*

***Instead of small ensembles, piano students may enroll in accompanying.*

Major: B. A. in Music with Concentration in Composition

A. Required General Studies Courses	**46**
Music majors should register for GE 111.	
B. Major Requirements	**53-55**
Core Courses	**26-28**

MUS 101	Recital Attendance	P/F
MUS 103	Aural Skills I	1
MUS 104	Aural Skills II	1
MUS 203	Aural Skills III	1
MUS 204	Aural Skills IV	1
MUS 108	Music Theory I	2
MUS 109	Music Theory II	2
MUS 208	Music Theory III	2
MUS 209	Music Theory IV	2
MUS	Ensembles (Minus 2 for P.E.)	6
MUS 305	Music History I	3
MUS 306	Music History II	3
MUS 307	A Study of Non-Western Music	1
MUS 309	Form and Analysis	3

Related Courses: Composition	**27**

MUSA 365	Applied Composition	10
MUSA	Applied Instrument	5
MUS 123	Voice Class (Omit for Vocalists)	1
MUS 126	Voice Diction or Small Ensemble for Pianists	1
MUS 231	String Class	1
MUS 309	Tonal Counterpoint	3
MUS 312	Orchestration	2
MUS 338	Conducting	1
MUS 345	Brass Class	1
MUS 346	Woodwind Class	1
MUS 347	Percussion Class	1
MUS 400	Senior Recital/Project	1

C. Music Electives	**6**
D. Non Music Electives or Minor	**20**
Total Semester Hours Required for Degree	**125-127**

All music students must earn a "C" or better in all music classes.

If students are not enrolled in Marching Band, they must register for P.E. classes to meet the general studies requirement.

Music students who pass piano proficiency will not have to complete the piano class sequence.

**Piano students may enroll in accompanying.*

Curriculum Guide: B. A. in Music with Concentration in Composition

Freshman Year

First Semester

Course and number		Semester hrs
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS	Ensemble/P.E. Activity	1
MUS 103	Aural Skills I	1
MUS 108	Music Theory I	2
GE 102	English Composition and Grammar	3
GE 115	College Algebra	3
GE 122	Freshman Seminar	1
GE	Math or Science	3
		15

Second Semester

MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS	Ensemble	1
MUS 104	Aural Skills II	1
MUS 109	Music Theory II	2
GE 103	English Composition and Vocabulary	3
GE 111	Introduction to Computer Applications	3
GE 130	Art Appreciation	2
GE	Natural Science/Lab	4
		17

Sophomore Year

First Semester

Course and number		Semester hrs
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS	Ensemble/P.E. Activity	1
MUS 203	Aural Skills III	1
MUS 208	Music Theory III	2
MUS 231	String Class	1
MUS 347	Percussion Class	1
GE 140	World Civilization I	3
GE 185	Health Concepts	2
GE 201	World Literature I	3
	Non Music Electives	3
		18

Second Semester

MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS 204	Aural Skills IV	1
MUS 209	Music Theory IV	2
MUS 345	Brass Class	1
MUSA 365	Applied Composition	2
MUS 123	*Voice Class (Omit for Voice Majors)	1
MUS	Ensemble	1
MUS	Music Elective	1
GE 141	World Civilization II	3
GE	Languages and Literature	3
		16

Junior Year

First Semester

Course and number		Semester hrs
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS 212	The African American in Music	2
MUS 305	Music History I	3
MUS 307	A Study of Non-Western Music	1
MUS 308	Tonal Counterpoint	3
MUS 346	Woodwind Class	1
MUSA 365	Applied Composition	2
MUS	Ensemble	1
GE	Social Science	3
		17

Second Semester

MUS 101	Recital Attendance	P/F
MUSA 365	Applied Composition	2
MUS	Ensemble	1
MUS 306	Music History II	3
MUS 309	Form and Analysis	3
MUS 312	Orchestration	2
MUS 338	Conducting	1
MUS	Music Elective	1
GE	Social Science	3
		16

Senior Year

First Semester

Course and number		Semester hrs
MUSA 365	Applied Composition	2
MUS	Music Electives	3
	Non Music Electives	9
		14

Second Semester

MUSA 365	Applied Composition	2
MUS 400	Senior Recital/Project	1
MUS	Music Elective	1
	Non Music Electives	8
		12

Total Semester Hours Required for Degree	**125-127**

All music students must earn a "C" or better in all music classes.

If students are not enrolled in Marching Band, they must register for P.E. classes to meet the general studies requirement.

Music students who pass piano proficiency will not have to complete the piano class sequence.

*Voice students take MUS 126 in the fall and piano students may enroll in a small ensemble.

B. A. in Music with Concentration in Music Business

A. General Studies Courses		**46**
B. Major Requirements		**50-52**
Core Courses		**26-28**
MUS 101	Recital Attendance	P/F
MUS 103	Aural Skills I	1
MUS 104	Aural Skills II	1
MUS 203	Aural Skills III	1
MUS 204	Aural Skills IV	1
MUS 108	Music Theory I	2
MUS 109	Music Theory II	2
MUS 208	Music Theory III	2
MUS 209	Music Theory IV	2
MUS	Ensembles (Minus 2 for P.E.)	6
MUS 305	Music History I	3
MUS 306	Music History II	3
MUS 307	A Study of Non-Western Music	1
MUS 309	Form and Analysis	3
Related Courses: Music Business Concentration		**24**
MUSA	Applied Lesson	5
	Small Ensemble	1
MUS 116	Introduction to Music Industry Studies	3
MUS 202	Arts Management	3
MUS 319	Music Merchandising and Marketing	3
MUS 321	Music Multi-Media Applications	2
MUS 400	Senior Recital/Project	1
MUS 431	Music Industry Seminar	3
MUS 417	Music Industry Internship	3
C. Related Course Requirements (Choose 6 hrs. from below)		**6**
BUAD 115	Principles of Business (prerequisite)	3
MRKT 231	Principles of Marketing	3
BUAD 241	Business Law I	3
ACCT 211	Principles of Accounting	3
MNGT 221	Principles of Management	3
D. Music Electives		**4**
E. Non Music Electives or Minor		**18**
Total Semester Hours Required for Degree		**124-126**

All music students must earn a "C" or better in all music classes.

If students are not enrolled in Marching Band, they must register for P.E. classes to meet the general studies requirement.
Music students who pass piano proficiency will not have to complete the piano class sequence.

Curriculum Guide: B. A. in Music with Concentration in Music Business

Freshman Year

First Semester

Course and number		Semester hrs
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS	Ensemble/P.E. Activity	1
MUS 103	Aural Skills I	1
MUS 108	Music Theory I	2
GE 102	English Composition and Grammar	3
GE 115	College Algebra	3
GE 122	Freshman Seminar	1
GE	Math or Science	3
		15

Second Semester

MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS	Ensemble	1
MUS 104	Aural Skills II	1
MUS 109	Music Theory II	2
GE 103	English Composition and Vocabulary	3
GE 111	Introduction to Computer Applications	3
GE 130	Art Appreciation	2
GE	Natural Science /Lab	4
		17

Sophomore Year

First Semester

Course and number		Semester hrs
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS	Ensemble/P.E. Activity	1
MUS 116	Introduction to Music Industry Studies	3
MUS 203	Aural Skills III	1
MUS 208	Music Theory III	2
MUS	Music Elective	1
GE 140	World Civilization I	3
GE 201	World Literature I	3
		15

Second Semester

MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS 202	Arts Management	3
MUS 204	Aural Skills IV	1
MUS 209	Music Theory IV	2
MUS	Ensemble	1
GE 185	Health Concepts	2
GE 141	World Civilization II	3
GE	Languages and Literature	3
		16

Junior Year

First Semester

Course and number		Semester hrs
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS 212	The African-American in Music	2
MUS 305	Music History I	3
MUS 307	A Study of Non-Western Music	1
MUS 319	Music Merchandising & Marketing	3

MUS	Ensemble	1
GE	Social Science	3
BUAD 115	Introduction to Business	3
		17

Second Semester

MUS 101	Recital Attendance	P/F
MUS	Ensemble	1
MUS 306	Music History II	3
MUS 309	Form and Analysis	3
MUS 321	Music Multi-Media Applications	2
MUS	Small Ensemble	1
	Non Music Electives	2
	Restricted Business Management or Marketing Elective	3
GE	Social Science	3
		18

Senior Year

First Semester

Course and number		Semester hrs
MUS 431	Music Industry Seminar	3
MUS	Music Elective	2
	Non Music Electives	8
		13

Second Semester

MUS 400	Senior Recital/Project	1
MUS 417	*Music Industry Internship or Music Electives	3
MUS	Music Elective	1
	Non Music Electives	8
		13

Total Semester Hours Required for Degree	**124-126**

All music students must earn a "C" or better in all music classes.

If students are not enrolled in Marching Band, they must register for P.E. classes to meet the general studies requirement.

Music students who pass piano proficiency will not have to complete the piano class sequence.
**With written approval, music students may choose to register for three music electives instead of the music internship.*

Major: B. A. in Music with Concentration in Sound Recording Technology

A. General Studies Courses	**46**
B. Major Requirements	**53-55**
Core Courses	**26-28**

MUS 101	Recital Attendance	P/F
MUS 103	Aural Skills I	1
MUS 104	Aural Skills II	1
MUS 108	Music Theory I	2
MUS 109	Music Theory II	2
MUS 203	Aural Skills III	1
MUS 204	Aural Skills IV	1
MUS 208	Music Theory III	2
MUS 209	Music Theory IV	2
MUS	Ensembles (Minus 2 for P.E.	6
MUS 305	Music History I	3
MUS 306	Music History II	3
MUS 307	A Study of Non-Western Music	1
MUS 309	Form and Analysis	3

Related Courses: Sound Recording Technology Concentration	**27**

MUSA	Applied Lessons	5
MUS 115	Introduction to the Recording Studio	3
MUS 116	Introduction to Music Industry Studies	3
MUS 125	Music Technology	2
MUS 254	Audio Engineering I	2
MUS 255	Audio Engineering II	2
MUS 321	Music Multi-Media Applications	2
MUS 360	Digital Audio Technology	2
MUS 400	Senior Recital/Project	1
MUS 417	Music Industry Internship	3
MUS 454	Studio Production Seminar I	2

C. Music Electives	**3**
D. Non Music Electives or Minor	**23**
Total Hours Required for Degree	**125-127**

All music students must earn a "C" or better in all music classes.

If students are not enrolled in Marching Band, they must register for P.E. classes to meet the general studies requirement.

Music students who pass piano proficiency will not have to complete the piano class sequence.

Curriculum Guide: B. A. in Music with Concentration in Sound Recording Technology

Freshman Year

First Semester

Course and number		Semester hrs
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS	Ensemble/P.E. Activity	1
MUS 103	Aural Skills I	1
MUS 108	Music Theory I	2
GE 102	English Composition and Grammar	3
GE 115	College Algebra	3
GE 122	Freshman Seminar	1
GE	Math or Science	3
		15

Second Semester

MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS	Ensemble	1
MUS 104	Aural Skills II	1
MUS 109	Music Theory II	2
GE 103	English Composition and Vocabulary	3
GE 111	Introduction to Computer Applications	3
GE 130	Art Appreciation	2
GE	Natural Science /Lab	4
		17

Sophomore Year

First Semester

Course and number		Semester hrs
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS	Ensemble/P.E. Activity	1
MUS 203	Aural Skills III	1
MUS 208	Music Theory III	2
MUS 115	Introduction to Recording Studio	3
MUS 116	Introduction to Music Industry Stu	3
GE 140	World Civilization I	3
GE 201	World Literature I	3
		17

Second Semester

MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS 125	Music Technology	2
MUS 204	Aural Skills IV	1
MUS 209	Music Theory IV	2
MUS	Ensemble	1
GE 141	World Civilization I	3
GE 185	Health Concepts	2
GE	Languages and Literature	3
GE	Social Science	3
		18

Junior Year

First Semester

Course and number		Semester hrs
MUS 101	Recital Attendance	P/F
MUSA	Applied Music	1
MUS 212	The African American in Music	2
MUS 254	Audio Engineering I	2
MUS 305	Music History I	3
MUS 307	A Study of Non-Western Music	1
MUS	Ensemble	1
MUS	Music Electives	2
	Non Music Elective	1
GE	Social Science	3
		16

Second Semester

MUS 101	Recital Attendance	P/F
MUS 255	Audio Engineering II	2
MUS 306	Music History II	3
MUS 309	Form and Analysis	3
MUS 321	Music Multi-Media Applications	2
MUS	Ensemble	1
	Non Music Electives	6
		17

Senior Year

First Semester

Course and number		Semester hrs
MUS 360	Digital Audio Technology	2
MUS 454	Studio Production Seminar	2
MUS	Music Elective	1
	Non Music Electives	8
		13

Second Semester

MUS 400	Senior Recital/Project	1
MUS 417	*Music Industry Internship	3
	Non Music Electives	8
		12

Total Semester Hours Required for Degree	**125-127**

All music students must earn a "C" or better in all music classes.

If students are not enrolled in Marching Band, they must register for P.E. classes to meet the general studies requirement.

Music students who pass piano proficiency will not have to complete the piano class sequence.

*With written approval, music students may register for three music electives instead of the music internship.

COURSE DESCRIPTIONS

Course Abbreviations
Elizabeth City State University has established a set of standardized abbreviations for its departments and courses. These abbreviations should be used in making out class schedule forms and at all times when referring to specific course offerings.

System of Course Numbers
Each course is defined by a Course Abbreviation and a number. The number of each course has three digits. The first digit indicates the classification level. The second and the third digit distinguish the course from other courses in the classification. The parentheses following the course name represent the number of credits being given for the course and the term(s) when it is offered. Courses marked with an asterisk (*) are required courses.

Example:

GE *(General Education)* **106** *(First Level Classification)*: **College Reading** *(Title of Course)* **(2)** *(Credits)* **(F; S; SS)** *(Course offered Fall, Spring, Summer).*

Abbreviations & Corresponding Departments

The following chart represents the courses offered in relation to their Departments:

ACCT	—	Accounting	—	Department of Business & Economics
ART	—	Art	—	Department of Visual and Performing Arts
ARTH	—	Art History	—	Department of Visual and Performing Arts
ATC	—	Air Traffic Control	—	Department of Technology
AVI	—	Aviation Science	—	Department of Technology
AVNC	—	Avionics	—	Department of Technology
BFIN	—	Banking and Finance	—	Department of Business and Economics
BIOL	—	Biology	—	Department of Natural Sciences
BKED	—	Birth-Kindergarten Educ.	—	Department of Education and Psychology
BMIS	—	Management Information	—	Department of Business & Economics
BTEC	—	Biotechnology	—	Department of Natural Sciences
BUAD	—	Business Administration	—	Department of Social and Behavioral Sciences
BUED	—	Business Education	—	Department of Education and Psychology
CHEM	—	Chemistry	—	Department of Natural Sciences
CJ	—	Criminal Justice	—	Department of Social and Behavioral Sciences
CONT	—	Continuing Education	—	Department of Education and Psychology
COOP	—	Cooperative Education	—	Department of Education and Psychology
CR	—	Correctional Recreation	—	Department of Education and Psychology
CSC	—	Computer and Information Science	—	Department of Mathematics and Computer Science
ECON	—	Economics	—	Department of Business & Economics
EDUC	—	Education	—	Department of Education and Psychology
ELEM	—	Elementary Education	—	Department of Education and Psychology
ENGL	—	English	—	Department of Language, Literature, and Communication
ENGT	—	Engineering Technology	—	Department of Technology
ENTR	—	Entrepreneurship	—	Department of Business and Economics
ENSC	—	Environmental Science	—	Department of Natural Sciences
FL	—	Foreign Language	—	Department of Language, Literature, and Communication
FLT	—	Flight	—	Department of Technology
FREN	—	French	—	Department of Language, Literature, and Communication
GE	—	General Education	—	All Departments
GEOG	—	Geography	—	Department of Social and Behavioral Sciences
GEOL	—	Geology	—	Department of Natural Sciences
GLBS	—	Global Studies	—	Department of Social and Behavioral Sciences
HIST	—	History	—	Department of Social and Behavioral Sciences
HLTH	—	Health	—	Department of Physical Education and Health
HPE	—	Health and Phys. Educ.	—	Department of Education, Health & Psychology
JOUR	—	Journalism	—	Department of Language, Literature, and Communication
MAS	—	Marine Environmental Science	—	Department of Natural Sciences

MATA	—	Applied Mathematics	—	Department of Mathematics and Computer Science
MATH	—	Mathematics	—	Department of Mathematics and Computer Science
MCOM	—	Mass Communications	—	Department of Language, Literature, and Communication
MECP	—	Mechanical Power	—	Department of Technology
MECT	—	Mechanical Technology	—	Department of Technology
MIS	—	Military Science	—	Department of Military Science
MNGT	—	Management	—	Department of Business & Economics
MRKT	—	Marketing	—	Department of Business & Economics
MUS	—	Music	—	Department of Visual and Performing Arts
MUSA	—	Applied Music	—	Department of Visual and Performing Arts
PAD	—	Public Administration	—	Department of Social and Behavioral Sciences
PE	—	Physical Education	—	Department of Physical Education and Health
PESM	—	Sports Management	—	Department of Physical Education and Health
PHIL	—	Philosophy	—	Department of Social and Behavioral Sciences
PFIN	—	Retirement Planning	—	Department of Business & Economics
PHIS	—	Public History	—	Department of Social and Behavioral Sciences
PHS	—	Public Health	—	Department of Pharmacy and Health Professions
PHSC	—	Pharmaceutical Science	—	Department of Pharmacy and Health Professions
PHYS	—	Physics	—	Department of Natural Sciences
POLS	—	Political Science	—	Department of Social and Behavioral Sciences
PSY	—	Psychology	—	Department of Education and Psychology
READ	—	Reading	—	Department of Social and Behavioral Sciences
RELG	—	Religion	—	Department of Social and Behavioral Sciences
SADM	—	School Administration	—	Department of Education and Psychology
SOC	—	Sociology	—	Department of Social and Behavioral Sciences
SOWK	—	Social Work	—	Department of Social and Behavioral Sciences
SPAN	—	Spanish	—	Department of Language, Literature, and Communication
SPCH	—	Speech	—	Department of Language, Literature, and Communication
SPED	—	Special Education	—	Department of Education and Psychology
SSCI	—	Space Science	—	Department of Technology
STAT	—	Statistics	—	Department of Mathematics and Computer Science
UAS	—	Unmanned Aircraft Systems	—	Department of Technology

Terms

F — FALL SEMESTER S — SPRING SEMESTER SS — SUMMER SESSION

Other abbreviations used by Departments and in Course Descriptions are:

30–40	—	Section Numbers for Extended Day / Weekend Program
51-52	—	North Carolina Model Teacher Education Consortium
CE	—	Continuing Education
DL	—	Distance Learning
H	—	Honors
M	—	Military Science
S	—	Language Arts Section for Special Programs
QRS	—	Restricted Enrollment
PDP	—	Departmental Permission Required
S/C	—	Language Arts Sections for Special Program/Conference
CRDT	—	Credit
HR	—	Hour
SEC	—	Section
BLDG	—	Building
LAB	—	Laboratory
LEC	—	Lecture
SEM	—	Semester
NFR	—	New Freshman
FR	—	Freshman
SO	—	Sophomore
JR	—	Junior
SR	—	Senior
SDG	—	Second Degree Graduate
SPU	—	Special Undergraduate
SPG	—	Admitted Graduate
CER	—	Certification

LIC	—	Licensure Only
TS	—	Transient Student
GR	—	Graduate
NG	—	Non-matriculating Graduate

Prerequisite Courses — Courses beyond the freshman year usually have "prerequisites." This means that certain courses must be taken before the student can register for the advanced course. The prerequisite may also require "consent of the department chair." The student must secure the permission from the above person(s) before he or she registers for the advanced course. "Consent of the department chair" is usually required for courses in which there is limited laboratory space and/or equipment, or in which specific skills and aptitudes are required.

Co-requisite Courses — This means that certain courses must be taken at the same time.

Each student is advised to obtain a copy of the Handbook from his or her major department. The handbook will provide information about the courses students must take and the entrance and exit requirements for them.

ACCOUNTING COURSE DESCRIPTIONS

ACCT 101: Accounting for Non-business Majors (3) (F)
Introduces non-business majors to the role of business in society and the principles and theories of accounting, including the preparation and use of financial statements; other topics covered: accounting for cash and receivables, fixed assets, payrolls, financial statement analysis, elements of cost, decision-making, and cost-volume-profit analysis. Prerequisite: None

ACCT 210: Financial Accounting (3) (F, S, SS)
This introductory course for the accounting degree program presents the basic framework of accounting to all students majoring in accountancy. It exposes accounting students to underlying accounting concepts and constraints, and it helps them prepare financial records, financial statements, and analyses of major financial statements. Must be taken by all accounting majors. *Prerequisites: BUAD 115, BUAD 190 or equivalent.*

ACCT 220: Managerial Accounting (3) (F, S, SS)
Introduces accounting information that aids managers in planning, controlling, decision-making, and performance evaluation. Some topics are cost classification and behavior, product costing, cost-volume-profit analysis, relevant cost, cost and benefit analysis, and budgeting. *Prerequisite: ACCT 210 with a C or higher*.

ACCT 321: Intermediate Accounting I (3) (F, S)

The foundation course for financial reporting. It discusses the conceptual framework, the regulatory environment, ethical issues, international issues, and behavioral aspects of accounting. Analysis of the content and presentation of financial statements is also included. *Prerequisite*: *ACCT 210 with a C or higher*.

ACCT 322: Intermediate Accounting II (3) (F, S)
This course continues the coverage of the content and presentation of financial statements that are issued by corporations. Topics covered are relatively more complex and more detailed. *Prerequisite*: *ACCT 321 with a C or higher*.

ACCT 323: Intermediate Accounting III (3) (S)
The final course in the intermediate accounting series. It covers more complex topics such as accounting for leases, accounting for taxes, and derivatives. Prerequisite: ACCT 322 *with a C or higher*.

ACCT 335: Federal Income Taxation (3) (F)
Introduction to federal taxes on income. Topics include preparation of income tax returns for individuals, statutory concepts of income, capital gains and losses, basis of property, sales and exchanges, and taxation of retirement annuities. *Prerequisite*: *ACCT 210 with a C or higher*.

ACCT 398: Special Topics In Accounting (3)
Topics of special interest to business students may be offered, or topics requested by a group of students for a specific course not otherwise available. The students conduct a study of these topics as business electives. *Prerequisite: Junior standing, permission of the instructor, and written consent of the department chair*.

ACCT 421: Cost Accounting (3) (F)
This course covers fundamental topics under cost measurement, cost management, planning, and performance measurement. Some topics are product costing, activity-based costing and management, cost-volume-profit analysis, standard costing, budgeting and variance analysis, relevant costs and benefits analysis, and value-chain analysis. *Prerequisite*: *ACCT 321 with a C or higher*.

ACCT 425: Financial Auditing (3) (S)
This course focuses on the process of auditing financial statements. It also discusses the accounting concepts, profession, its regulatory and legal liability environments, plus the need for the audit function, professional standards, and conduct. This is a **Capstone course** for the **Accounting degree** and requires a term paper. *Prerequisite: ACCT 322 with a C or higher*.

ACCT 431: Advanced Financial Accounting (3) (S)
Covers various specialized areas of accounting, including consolidated financial statements, partnerships, and limited liability companies. *Prerequisite: ACCT 322 with a C or higher*.

ACCT 435: Entities Taxation (3) (S)
Building on the principles of individual income taxation, this course addresses the federal approach to taxing for-profit entities, including partnerships, corporations, and trusts. Topics include "flow-through" taxation, the separate legal entities doctrine, and "either/or" taxation. The course concludes with an introduction to the unified federal estate and gift tax. *Prerequisite*: *ACCT 335 with a C or higher*.

ACCT 440: Accounting Information Systems (3) (F)
Study of Accounting Information Systems with an emphasis on information, communication, and networking technology within the context of transaction cycles and internal control structure. Examination of the role of AIS in e-commerce and enterprise software. *Prerequisites: ACCT 321 and BMIS 380, each with a C or higher*.

ACCT 451: Government and Not-For-Profit Accounting (3) (even F)
Comprehensive study of fund accounting theory and concepts used in the financial accounting, budgeting, control, and reporting for governmental and nonprofit organizations. This course includes the standards and regulations applicable to local government units, universities, hospitals, and other nonprofit entities. *Prerequisites: ACCT 321 with a C or higher.*

ACCT 460: Forensic Accounting (3) (odd F)
Application of accounting methods and financial techniques to assist in solving economic-based crimes. Includes discussion of criminal statutes relating to financial crimes, fraud investigation and prevention, techniques used in solving financial crimes, interviewing, rules of evidence, sources of information, forensic accounting procedures, and current issues in financial investigations. *Prerequisites: ACCT 321 with a C or higher.*

ART COURSE DESCRIPTIONS

ART 100: Art Foundations (3) (F)
This course provides all majors in art disciplines a foundation in art history, aesthetics, two dimensional design, and color theory. Students will apply these principles and concepts toward solving projects that address specific design problems. Five contact hours. *No Prerequisite*.

ART 101: Graphic Design I (3) (S)
An introductory course that develops an understanding of fundamental visual concepts through a series of assignments that include visual analysis and development of two-dimensional media for communicating information. Course includes an introduction to computer graphics. Five contact hours. *Prerequisite: ART 100.*

ART 102: Drawing I (3) (F; S)
An introductory course that teaches basic drawing skills and techniques emphasizing direct observation of organic and geometric still life subjects. The primary goals are to learn and visually define in a compositional space, correct proportion, form, space, and depth. Five contact hours. *No Prerequisite*.

ART 103: Drawing II (3) (F; S)
An intermediate course that further develops the skill and techniques of Drawing I. This course introduces the application of design elements and principles through direct observation of still life, architectural elements, and the human form. Students are introduced to a range of drawing materials, techniques, color application, and wet media. Five contact hours. *Prerequisite: ART 102.*

ART 111: Three-Dimensional Design (3) (F)
This course investigates the principle of 3-D design theory by the manipulation of pure elements in space through a series of design problems. Five contact hours. *Prerequisite: ART 100.*

ART 201: Graphic Design II (3) (F)
An intermediate course that applies fundamental visual concepts to professional applications. Students develop an understanding of the communication model and approaches to visual problem-solving skills. Course includes production techniques in computer graphics. Five contact hours. *Prerequisite: ART 101*.

ART 202: Graphic Design III (3) (S)
An intermediate course that develops complex design projects. Students will translate written and statistical information into visual presentations. Students analyze the appropriateness of their design solution and develop written and verbal presentation skills. Five contact hours. *Prerequisite: ART 201*.

ART 210: Typography I (3) (F)
Typography, as a broad study, has been defined as "the art of printing from moveable type, including the skilled planning of typeface and size, composition, and layout, to make a balanced and attractive whole." This course is an introductory to intermediate course that develops a fundamental understanding of typographic organization through the exploration of assigned studies and professional applications. Five contact hours. *Prerequisite*: ART 101.

ART 220: Painting I (3) (F)
Basic studio instruction in the craft, techniques, and philosophy of painting. Emphasis is on learning composition, color, brush manipulation, use of media, and stretching canvases. Five contact hours. *Prerequisites: ART 100, 102, or written consent of instructor*.

ART 221: Painting II (3) (S)
An intermediate level studio course that encourages critical self-assessment through analytical critiques, discussions, and writing assignments. Emphasis is on the development of a personal style and the study of historical masterworks. Five contact hours. *Prerequisite*: ART 220.

ART 230: Sculpture I (3) (F)
This course is an introduction to the fundamentals of sculpture and the safe, appropriate use of tools and materials. The additive, subtractive, and manipulative process will be explored. Five contact hours. *Prerequisite: ART 101 or written consent of the instructor*.

ART 231: Sculpture II (3) (S)
This course will expand on skills and knowledge gained in ART 230. Studio experiences in a broader range of media, techniques, and concepts will be emphasized. This course addresses processes for working in the construction and fabrication methods. Five contact hours. *Prerequisite: ART 101 or written consent of the instructor*.

ART 260: Printmaking I (3) (F)
An introduction to the processes, materials, and equipment of traditional printmaking, with equal emphasis on concept and technique. Students are introduced to a variety of print media and methods, such as monotype, relief, and intaglio printing processes. Five contact hours. *Prerequisites: ART 100, 103*.

ART 301: Graphic Design IV (3) (F)
Internet design course. Students develop design briefs for project planning, usability, and visual communication. Assignments include the design of interfaces, navigation, simple motion graphics, and websites. Open to Graphic Design majors only. Five **contact hours.** ***Prerequisite: ART 202*.**

ART 302: Graphic Design V (3) (S)
Advanced design problems with increased complexity. Assignments will employ the use of visual systems and strengthen the appropriateness of imagery and form used in the design solution. Open to Graphic Design majors only. Five contact hours. *Prerequisite: ART 301*.

ART 310: Typography II (3) (F)
An intermediate to advanced course that develops a systematic approach to typographic organization through the exploration of assigned studies and professional applications. Students use the typographic organization of diagrams, charts, and graphs to translate data into images with understandable visual meaning. Open to Graphic Design majors only. Five contact hours. *Prerequisite: ART 210*.

ART 333: Imaging I (3)
A transition between structured classroom assignments and self-directed study at the Advanced Studio Level. The first half of the term will be spent working in various media at the instructor's discretion. After defending their projects at mid-term, students will spend the remainder of the course developing self-directed projects. Five contact hours. *Prerequisite: ART 100, ART 101, ART 103*.

ART 340: Photography I (3) (F; S; SS)
Introduction to traditional black and white photography with emphasis on darkroom techniques. Five contact hours. *Prerequisite: ART 100 or written consent of the instructor*.

ART 341: Photography II (3) (F; S; SS)
An intermediate course in Photography with an emphasis on digital media. The use of photography as a multi-media tool to communicate visual meaning. Five contact hours. *Prerequisites: ART 101 or written consent of the instructor*.

ART 350: Ceramics I (3) (F)
An introduction to clay and clay bodies. Students become familiar with the nature of clay, its limitations and possibilities. Emphasis is on a variety of hand building techniques. Contemporary models will be referenced. Five contact hours. *Prerequisite: ART 101 or written consent of the instructor*.

ART 351: Ceramics II (3) (F)
An introduction to the creation of pottery through the process of wheel-throwing. Hand-built and wheel-thrown combo techniques will be investigated. Experimentation in surface treatment and decoration will be explored. Five contact hours. *Prerequisite: ART 350*.

ART 376: Glass I (3) (F)
An introduction to the use of glass as an art medium. Students will explore basic glass manipulation techniques. Five contact hours. *Prerequisites: ART 100 and ART 111 or written consent of the instructor*.

ART 380: 3D Animation (3) (S)
This course is an introduction to 3D animation. The topics covered include modeling, rigging, texturing, lighting and keyframe animation. Five contact hours. *Course pre-/co-requisite(s): ART 100, ART 101, ART 102 or the written consent of the instructor*

ART 400: Advanced Studio I (3) (F; S)
This course consists of an individualized, in-depth study of the students' medium of interest. Students prepare a proposal outlining the direction of their study. Five contact hours. *Prerequisite: written consent from academic advisor*.

ART 401: Advanced Studio II (3) (F; S)
A continuation of the exploration of a chosen medium of interest. Preparation of work for presentation/critique will be a component of this course. Five contact hours. *Prerequisite: ART 400*.

ART 402: Advanced Studio III (3) (F; S)
A continuation of the exploration of a chosen medium of interest incorporating advanced techniques. Preparation of work for presentation/critique is an integral component of this course. Five contact hours. *Prerequisite: ART 401*.

ART 403: Advanced Studio IV (3) (F; S)
The development of a heightened understanding of artistic visual solutions and techniques of a chosen media. A professional attitude and work ethic is emphasized. Exhibition of work is required. Five contact hours. *Prerequisite: ART 402*.

ART 406: Internship in Art (A, G, M & T) (3) (F; S; SS)
This course provides students with the opportunity to gain practical experience and perspective in the professional world of art. Internships may be served at art councils, museums, galleries, or with design firms, advertising agencies, or professional artists, etc. which are able to provide students with a well-rounded pre-professional work experience. Supervision will be by a professional in the field and a faculty supervisor from ECSU. Five contact hours. *Prerequisite: Junior status*.

ART 409: Senior Portfolio/Show (3) (S)
This course assists students with preparation and documentation of their artwork. Methods of assembling physical and digital portfolios will be explored. Writing and designing a resume will be emphasized. Students must mount a senior show. Five contact hours.

ART 445: Filmmaking (3) (S)
An introductory course which investigates the history and techniques of film-making as an art form. Students design, produce, and edit their original videos. Five contact hours. *No Prerequisite*.

ART 485: Arts Management (3) (F)
This course covers the business aspects, theories, and legal issues of arts management related to the operation of the arts councils and governmental and nonprofit art agencies, as well as galleries and other for-profit entities. Five contact hours. *No Prerequisite*.

ART 490: Fibers (3) (F; S)
A course in basic weaving techniques, tapestry and loom weaving, and survey of fiber techniques. *Prerequisite: ART 100 or written consent of the instructor*.

ART 498: Graphic Design Applied Theory (3) (F) *
An advanced course that examines the theoretical understanding of visual communication and its application to the practice of graphic design. Open to Graphic Design majors only. Five contact hours. Prerequisite: ART 301. * Class must be taken during the same semester as ART 499.

ART 499: Graphic Design Seminar (3) (F) *
This course examines current topics in graphic design with conceptual and theoretical approaches for analyzing visual communication. Emphasis is on critical reading, research, and writing in a seminar atmosphere. Open to Graphic Design majors only. Five contact hours. *Prerequisite: ART301. * Class must be taken during the same semester as ART 498*.

ART HISTORY COURSE DESCRIPTIONS

ARTH 201: Art and Religion (3) (F; S)
This course examines the relationship of these two expressions of the human experience from prehistory to the present. Religion as an impetus to the activity of image making and the creative process will be explored through the examination of art, artifacts, and architecture. *No Prerequisite*.

ARTH 209: Survey of Art I (3) (F)

A survey of the history of art from the prehistoric era to the end of the Gothic period (c. 1300). *No prerequisite*.

ARTH 210: Survey of Art II (3) (S)

The second of a two-part survey of art from the early Renaissance to the art movements in modern and contemporary art history. *No prerequisite*.

ARTH 217: History of Graphic Arts (3) (S)
A broad survey of the history of graphic design, developing a fundamental understanding of the subject through presentation and discussion. *Open to Art Majors only.*

ARTH 315: African American Art (3) (F; S)
A study and analysis of the influence and contributions of African American artists and artists from the African diaspora on the world of art. *No prerequisite*.

ARTH 317: Nineteenth-Century Art (3) (F; S)
Covers the major art movements and artists of the 19th century, including Neoclassicism, Romanticism, Realism, Impressionism, Post-Impressionism, Fauve, and Les Nabis. Multicultural emphasis on world-wide art. *No prerequisite*.

ARTH 318: Twentieth-Century Art (3) (F; S)
Covers the major art movements and artists/architects of the 20th century including Cubism, Expressionism, de Styjl, Bauhaus, Surrealism, Regionalism, Abstract Expressionism, Pop, Op, Minimal, Conceptual, Post-Modern, Deconstructionism, and Outsider Art with a multicultural emphasis. *No prerequisite*.

ARTH 416: Theory of Contemporary Art and Design (3) (F; S)
Broad introduction to theories of contemporary art and design. Includes: aesthetics, design theory, publications, galleries and museums, and career opportunities in art, etc. *No prerequisite*.

AVIATION SCIENCE COURSE DESCRIPTIONS

ATC 200: Control Tower Operations (3)
Enables students to gain an understanding of the knowledge required to work as a team member in an Air Traffic Control Tower (ATCT). Specifically, this course will cover content in the following areas: control tower equipment and operating positions, airfield marking, VFR traffic patterns, sequencing and separation standards, positional authority and associated responsibilities, standard phraseology, stripmarking, aircraft taxi instructions, control of vehicle movement, aircraft emergency assistance, search and rescue coordination, meteorological aviation reports (METAR), and tower weather observations. *Prerequisite: AVI 100*

ATC 200L: Control Tower Operations Lab
Affords students an opportunity to use the knowledge acquired in ATC 200 with a realistic state of the art simulator. Emphasis is placed on the use of standard procedures as they apply to a VFR tower environment. Student evaluation is performance based through their application of established control procedures which includes: clear and concise communications, standard phraseology, clearances, runway separation, stripmarking and teamwork. *Prerequisite: ATC 200.*

ATC 250: Terminal Radar Operations Lab (3)
Enables students to gain an understanding of the knowledge required to work in a Terminal Radar Approach Control (TRACON). Specifically, this course will cover content in the following areas: TRACON equipment and operating positions, radar identification, radar separation standards, vectoring, instrument traffic patterns, approach clearances, standard phraseology, aircraft emergencies, stripmarking, communications, and teamwork. *Prerequisite: ATC 101.*

ATC 250L: Terminal Radar Operations Lab (3)
Provides students the opportunity to apply knowledge acquired in ATC 250 using a realistic state of the art simulator. Student evaluation is performance based and includes standard phraseology, emphasis on radar identification, vectoring techniques, effective coordination, and stripmarking as well as the control and separation of aircraft in a terminal radar environment. *Prerequisite: ATC 250.*

ATC 300L: Advanced Control Terminal Operations Lab (3)
Expands on the skills acquired and demonstrated during ATC 205 and incorporates the following into the control tower team functions: IFR flights, intrafacility and interagency coordination, aircraft recognition and characteristics, runway incursions, wake turbulence, Special VFR and emergency situations. Simulated scenarios in the tower lab will become progressively more challenging and student evaluation will be performance based. *Prerequisite: ATC 205.*

ATC 350L: Advanced Terminal Radar & Non Radar Operations Lab (3)
Expands on the basic radar skills acquired and demonstrated in ATC 255 and incorporates the following into the terminal radar environment: aircraft emergencies, high-tempo traffic, intrafacility and interagency coordination. Simulated scenarios in the tower lab will become progressively more challenging and student evaluation will be performance based. *Prerequisite: ATC 255.*

AVI 100: Introduction to Aviation (3)
Provides an overview of aviation, and introduces the student to the many opportunities and challenges of the aviation industry. The student will explore the history of flight from early concepts and experimentations to the beginnings of flight, early industry growth, modern jet-powered flight, and space exploration. Significant aviation events, and aviation pioneers and legends will be covered.

AVI 122: Orientation Seminar for Aviation Science (1)

This course is designed as an introduction for new aviation science students. Students will gain an understanding of normal career progression within the industry. Specific degree requirements as well as understanding the academic advisory role in their responsibilities as students. *Prerequisite: None*

AVI 220: Air Transportation (3)
A survey of the U.S. air transportation system including: detailed aspects of the industry's importance to the U.S. economy; the industry's components and their relationships, historical developments and growth, the impact of regulations and legislation, business and commercial operations, airline and general aviation economics, the social impact of aviation, and characteristics of the Federal Aviation Administration and the National Transportation Safety Board. *Prerequisite: AVI 100.*

AVI 230: Aviation Management (3)
An introduction to management practices in the aviation industry. The management of large and small airports fixed base operators and aviation organizations are covered with a focus on current aviation management practices. *Prerequisite AVI 100.*

AVI 232: Aviation Safety (3)
Fundamentals of safe flight operations are covered in this course. It includes psychology of safety, ego vs. safety, accident prevention concepts and methods, accident investigations, procedures for aircraft handling and refueling; weather minimums; flight instrumentation requirements and limitations; the importance of weight and balance, pilot/controller authority and responsibilities, and air crew requirements. NTSB aircraft accident investigation reports will be used to develop accident prevention analytical skills. Prerequisite: AVI 100

AVI 250: Basic Aerodynamics (3)
Designed as a basic study of aerodynamics, including aircraft performance, stability, control, weight and balance, and special flight conditions and configurations. Basic theories of flight, including airfoil design, drag, lift, thrust, weight and velocity as well as calculations of stall speed, drag, and basic performance criteria are covered. *Prerequisite: AVI 100.*

AVI 260: Aviation Human Factors (3)
Basic study of human and machine interface in an aviation environment. The student will study individual and group performances, equipment design, advanced and emerging technologies, physical environments, and procedure development. Course topics include psychology, physiological factors, ergonomics, and human and machine interfacing, including their roles in aviation. *Prerequisite: AVI 100.*

AVI 270: Air Traffic Control in the National Airspace System (3)
A study of the nation's plan to enhance, modernize and expand the National Airspace System. Electronic navigation, communications capabilities, control concepts, and high-tech personnel requirements will be explored. Problems and resolutions concerning implementation of a new airspace system; airspace allocations; safety considerations; economic impact; and social and political implications will be studied. *Prerequisite: AVI 100, AVI 220, AVI 230.*

AVI 275: Aircraft Systems I

This course introduces the student to the basic operation of aircraft systems used in light general aviation aircraft. Students will study and be able to describe the operation of reciprocating aircraft engines, flight control, fuel, electrical, landing gear, propeller operation, flight instrument operation. Emphasis will be placed on system description and theory of operation. Prerequisites: *AVI 100*

AVI 314: Aviation Meteorology (3)
The study of weather and meteorological phenomena as they impact aircraft operations, air traffic control, and flight safety are studied. Topics covered include the atmosphere and atmospheric pressure, altimetry, wind, humidity, cloud formation and precipitation, stable and unstable atmospheric conditions, air masses and fronts; turbulence; icing, thunderstorms and related flight hazards, and wind shear. *Prerequisite: AVI 100.*

AVI 315: Aviation Legislation and Ethics (3)
An introduction to the laws and regulations as they pertain to aviation. Topics include the origin and philosophy of law; the important legislation that has shaped the aviation industry over the years; aircraft ownership; Federal Aviation Regulations; manufacturing responsibilities; and accident and insurance liabilities. *Prerequisite: AVI 100.*

AVI 340: Corporate Flight Operations (3)
The student will be involved in detailed studies of the workings, operations, and management of the corporate flight department, and how it interfaces with the rest of the corporation. The student will learn the duties and responsibilities of the corporate pilot and the flight department manager, including a review of safety practices and the importance of standardization. *Prerequisites: AVI 100, AVI 220.*

AVI 345: Airline Operations and Management (3)

Students are introduced to airline operations and their management. Focus is centered on industry practice, route network design, fleet planning, scheduling, and revenue management. Applicable Federal Aviation Regulations governing air carrier operations also emphasized. *Prerequisite: AVI 100 or AVI-220*

AVI 350: Advanced Aerodynamics (3)

Advanced study of the theories of flight and flight factors, including airfoil shape, drag, velocity, lift and thrust, stability, and control. The student will learn advanced principles of performance, including capabilities and limitations, performance and design criteria, load factors, weight and balance charts, comparative analysis of aircraft, and aircraft certification. Also, the course will cover aerodynamic performance of aircraft powered by reciprocating, turboprop, and jet turbine engines, as well as rotorcraft theory. *Prerequisites: AVI 100, AVI 220, AVI 250.*

AVI 370: Aviation Research Methods and Statistics (3)

This course is designed to equip aviation science students with the theoretical techniques and skills to apply qualitative and quantitative aviation research problems. The course introduces the need for numerical and non-numerical data analysis and allows an in depth analysis of complex issues and relationships. Sampling and data gathering are incorporated into research methodologies; students will learn the statistical significance testing between samples and within samples. The use of numerical analysis on qualitative data is covered to result in significant solutions and recommendations. Additionally, students will learn to report research methods and results in accordance with the American Psychological Association format. *Prerequisite: junior level student or instructors written consent.*

AVI 375: Aircraft Systems II (3)

This course introduces the student to basic operation of aircraft systems used in transport aircraft. Students will study and be able to describe the operation of gas turbine engines, hydraulic and pneumatic power, pressurization, electrical, environmental control and ice protection systems. Emphasis is placed on theory of operation. This course will prepare pilots for future study of advanced systems used by the military, corporate aviation, and airlines. *Prerequisites: AVI 250, AVI 275*

AVI 410: Transition to the Aviation/Aerospace Industry (2)

A junior- and senior-level course designed to help the student to focus on a particular career path in the aviation or aerospace industry. Directed discussions, individual and group assignments, and guest speakers may be incorporated to provide increased knowledge about career opportunities in the field of aviation. Course topics include defining "the professional," the "professional in aviation," resume writing, interviewing skills, setting goals, public speaking and presentation skills, and networking. *Prerequisites: AVI 100, AVI 220, Aviation major with junior standing or written consent from the Program Director/or the instructor.*

AVI 420: Crew Resource Management (3)

Fundamentals of CRM and the decision–making processes that challenge crewmembers in the complexities of modern day aircraft and airspace. The student will research and analyze CRM-related aircraft accidents as reported by the NTSB and other sources. CRM issues will be demonstrated and studied, and a flight training device may be used when applicable. *Prerequisites: AVI 100, AVI 220, AVI 232*

AVI 430: Airport Planning and Management (3)

This course presents an overview of how airports are designed and planned and covers both the development and management of airports. Development issues such as airport site characteristics, layout of runways, design of passenger buildings, and analysis of environmental impacts. Management topics cover congestion and queues, peak-hour traffic, air traffic control, and demand management. Prerequisites: AVI-100 and AVI-220

AVI 460: Aviation Internship (3)

An academic internship is an opportunity for the student to apply classroom knowledge to the real world of work. An academic internship is required by all aviation science students. It is an opportunity for the student to broaden their horizons and to gain real work experience. The internship is a work experience that leads to academic credit. Evaluations are based in part on written reports from the employee. *Prerequisite: Written consent by the Program Director.*

AVI 465: Aviation Capstone (Senior Project) (3)

Integrates, extends, and applies knowledge learned in earlier aviation courses and readings. The course is designed for senior-level students with emphasis on projects and special aviation topics supported by faculty in cooperation with a governmental or aerospace industry partner. This course will culminate with a senior project and presentation. *Prerequisite: Senior status or written consent of Program Director.*

AVI 470: Independent Study in Aviation (3)

On a one-to-one basis and under direct guidance of the instructor, the student will be given the opportunity to complete independent and directed studies on selected topics in general, corporate, commercial, and military aviation, as well as topics in the aerospace industry. *Prerequisites: Consent of instructor and written*

consent from the Program Director.

AVI 475: Topics in Aviation/Aerospace (3)
Selected topics and issues in the field of aviation or aerospace are explored so that the student is aware of past, current, and potential issues. Presents significant issues in aviation and aerospace and is designed so that the student will have a fuller understanding and appreciation of both industries. The student will learn how to analyze an issue to determine its reasons for existing and will be able to project the issue into the future to anticipate how it might affect other issues and concerns. *Prerequisites: Consent of instructor and written consent from the Program Director.*

Avionics Course Descriptions

AVNC 100: Basic Avionics (3)
Provides basic knowledge of the subject of avionics. Topics include: radio frequency spectrum displays and technologies, fundamentals of instrumentation systems, air data systems and sensors, radio systems, fundamentals of radio propagation, and radio navigational aids. Also, the course includes ADF, VOR, DME, NDB, ILS, MLS, HSI, marker beacon, and transponder operation and functioning. The Theory of GPS, flight control systems, and the basics of radar systems will also be covered. *Prerequisites: None.*

AVNC 240: Flight Communication Systems (3)
Study of the basic principles of communication systems used in modern aircraft, including avionics transmission and reception systems, HF, VHF, UHF, and satellite systems. Further the course will explore basic RF systems, RF transmitters, signal generation, signal detection and amplification, carrier modulation AM, FM, SSB, antenna theory, antenna systems, and related test equipment. In addition, information on maintenance levels, FAA and FCC requirements, aircraft drawing and various manufacturers' support manuals will be used.
Prerequisite: AVNC 100.

AVNC 360: Advanced Avionics Systems (3)
Topics include avionics digital and microwave systems, microwave theory, and radar with application to airborne systems. Also included are on-board navigation and display systems including computer-based components, GPS, digital avionics buses, flight management systems, and avionic system integration in current aircraft. Avionics package design, heads-up displays, and surveillance systems, including weather radar, radar altimeter, transponder, TCAS, and GPWS are also included. *Prerequisite: AVNC 240.*

AVNC 380: Aircraft or Flight Control Systems (3)
Topics include discussion on the early history of aircraft dynamics and control, mathematical models of linear system elements, feeD.B.A.ck system analysis, vehicle equations of motion, longitudinal and lateral dynamics, and elementary longitudinal and lateral feeD.B.A.ck control. The course includes such topics as the system design process, inputs and system performance assessment, the root locus analysis of a generic acceleration autopilot, multi-loop flight control systems, methods for modeling the human pilot, and the integration of the human pilot into an aircraft flight control system. *Prerequisite: AVNC 240.*

Flight Course Descriptions (*Flight Lab fees are associated with all flight Lab courses*)

FLT 110: Private Pilot Ground (3)
Provides the student with the knowledge necessary to pass the FAA Private Pilot Knowledge Test and to be a certified Private Pilot. Topics include aviation weather, airplane performance, cross-country planning and navigation, flight computers, aviation physiology, aeronautical decision-making, and Federal Air Regulations.

FLT 115L: Private Pilot Flight Lab (2)
Provides the student with the practical in-flight instruction and minimum flight time to complete all maneuvers and operations required by the Federal Aviation Regulations to earn the FAA Private Pilot Certificate. The course includes all dual and solo flights, evaluation flights, and preparations for the oral and flight examinations administered by the FAA or a FAA Designated Examiner. *Prerequisites: FLT 110 and Permission from the Program Director or his assignee.*

FLT 122: Flight Safety Seminar (1)
Students within the Flight Education concentration are introduced to federal and university policies and procedures as they pertain to the flight program and student pilots. Co-requisites: FLT 110

FLT 225L: Cross Country Flight Lab (2)
Prepares students to pass the FAA Instrument Knowledge Test and to be a certified Instrument Pilot. Topics include FARs and AIM, ATC system and procedures, IFR navigation and approaches, enroute and instrument approach charts, weather, safe and efficient aircraft operations in adverse weather conditions, and CRM. *Prerequisite: FLT 110 and FLT 115L.*

FLT 320: Instrument Ground (3)
Prepares students to pass the FAA Instrument Knowledge Test and to be a certified Instrument Pilot. Topics include FARs and AIM, ATC system and procedures, IFR navigation and approaches, enroute

and instrument approach charts, weather, safe and efficient aircraft operations in adverse weather conditions, and CRM. *Prerequisite: FLT 110.*

FLT 325L: Instrument Flight Lab (2)
Provides the student with the practical in-flight instruction and minimum flight time to complete all maneuvers and operations required to earn the FAA Instrument Rating. The course includes all dual and solo flights, evaluation flights, and preparations for the oral and flight examinations administered by the FAA or an FAA Designated Examiner.
Prerequisites: FLT 110, 115L, 225L; pre- or co-requisites: FLT 320 and written consent from the Program Director or his assignee.

FLT 330: Commercial Ground (3)
Provides the student with the knowledge necessary to pass the FAA Commercial Pilot Knowledge Test and to be a certified Commercial Pilot. Topics include FARs and AIM, aerodynamics and the principles of flight, meteorology and critical weather situations, weight and balance, performance charts, aircraft systems, National Airspace System, aeronautical decision making, safe and efficient aircraft operations, and aircraft limitations. *Prerequisite: FLT 110.*

FLT 335L: Commercial Flight Lab (2)
Provides the student with the practical in-flight instruction and the minimum flight time to complete all maneuvers and operations required by the federal Aviation regulations to earn the FAA Commercial Pilot Certificate. The course includes all dual and solo flights, evaluation flights, and preparations for the oral and flight examinations administered by the FAA or a FAA Designated Examiner. *Prerequisites: FLT 110, 115L, 225L; pre- or co-requisites FLT 330; and written consent from the Program Director or his assignee.*

FLT 340: Multi-Engine Ground (2)
The students will study the design, construction, and flight characteristics of multi-engine aircraft. The course provides the student with the ground instruction to safely operate multi-engine aircraft complete the oral examination for the FAA Airplane Multi-engine Class Rating and be a certified Multi-engine Pilot. P*rerequisites: Meet minimum FAA Requirements and written consent from the Program Director*.

FLT 345L: Multi-Engine Flight Lab (2)
Through ground and flight sessions, the student will develop the knowledge and skills necessary to safely operate multi-engine aircraft and to earn the FAA Airplane Multi-engine Class Rating. The course includes all dual and solo flights, evaluation flights, and preparations for the oral and flight examinations administered by the FAA or an FAA Designated Examiner. *Prerequisites: FLT 110, 115L, 225L, 330, 335 Land written consent from the Program Director or his assignee.*

FLT 420: Flight Instructor Ground (2)
Develops knowledge required to successfully complete the FAA Knowledge Test for the Airplane Flight Instructor certification. Topics include the learning process, effective teaching, student evaluation and testing, course development, lesson planning, aeronautical knowledge areas for recreational, private, and commercial pilots. *Prerequisites: Meet minimum FAA Requirements and written consent from the Program Director or his assignee.*

FLT 425L: Flight Instructor Flight Lab (2)
Provides the student with the practical in-flight instruction and flight experience to complete all maneuvers and operations required to earn the FAA Certified Flight Instructor Airplane Certificate. The course includes all dual flights and evaluation flights. *Prerequisites: Meet minimum FAA Requirements and written consent from the Program Director or his assignee.*

FLT 430: Advanced Flight Instructor Ground (2)
Provides students desiring to be flight instructors with the knowledge to train advanced flight students. For the flight instructor interested in teaching instrument and multi-engine students, this course goes into greater detail about instructing in the classroom, conducting effective briefing and debriefing sessions, being effective in flight simulators and FTDs, recognizing learning styles, identifying and correcting subtle error patterns in students, and better understanding the role of the flight instructor. *Prerequisites: FLT 420 & 425, flight instructing experience, and written consent from the Program Director or his assignee.*

FLT 435L: Instrument Flight Instructor Flight Lab (2)
Provides the student with the ground instruction, practical in-flight instruction, and flight experience to complete all maneuvers and operations required to earn the FAA Certified Flight Instructor Instrument Rating. The course includes all dual flights and evaluation flights. *Prerequisites: Meet minimum FAA Requirements and written consent from the Program Director or his assignee.*

FLT 445L: Multi-Engine Flight Instructor Lab (2)
Provides the student with the ground instruction, practical in-light instruction, and in-flight experience to complete all maneuvers and operations required to earn the FAA Certified Flight Instructor Multi-engine Rating. The course includes all ground instruction, dual flights and evaluation flights. *Prerequisites: Meet minimum FAA Requirements and written consent from the Program Director or his assignee.*

Unmanned Aerial Systems Course Descriptions

UAS 100: Unmanned Aerial Systems (3)
This course is an overview of various available unmanned aerial systems (UAS) and their role in the aviation industry. Instruction will provide a comprehensive overview of the capabilities, requirements, and business opportunities associated with the UAS industry. It covers the background and impact of UAS, the legislation and regulatory requirements, concerns and considerations, business opportunities for civilian applications, and the future of UAS. *Prerequisite: None*.

BIOLOGY COURSE DESCRIPTIONS

BIOL 101: General Biology for Majors I (4) (F)
An introductory course of a two-semester sequence in conjunction with BIOL102 and required of all Biology majors as a prerequisite to all core courses. Covers fundamental concepts in biology with emphasis on cell structure, organization and metabolism, classical and molecular genetics, sexual and asexual reproduction, photosynthesis and respiration mechanisms, and relating these topics to the concepts of inheritance and biodiversity. Lecture: three hours; laboratory: two hours; may include tutorial: one-two hours. *Prerequisite: Must be Biology Major or have Department Chair's written consent*.

BIOL 102: General Biology for Majors II (4) (S)
An introductory second course of a two-semester sequence in conjunction with BIOL 101 and required of all Biology majors as a prerequisite to all core courses. Covers fundamental concepts in biology with emphasis on evolution, ecology, taxonomy and biodiversity, with overview of microbiology, botany, zoology, and comparisons of the anatomy and physiology of diverse animals and the human body. Lecture: three hours; laboratory: two hours; may include tutorial: one-two hours. *Prerequisites: BIOL 101*.

BIOL 201: Comparative Vertebrate Anatomy (4) (F)
A comparative study of structural features and development of organ systems of various classes of vertebrates with emphasis on their evolutionary sequence. Lecture: three hours; laboratory: two hours. *Prerequisites: BIOL 101, BIOL102.*

BIOL 204: Instrumentation in Biology (1) (S)
Acquaints students with equipment and procedures utilized in biological research. Laboratory: two hours. *Prerequisites: BIOL 101, BIOL 102*

BIOL 208: Human Nutrition (3) (F; S)
Covers basic knowledge of food and its relationship to human nutrition. Special emphasis on the role of carbohydrates, proteins, fat, energy, vitamins, and minerals. Lecture: three hours.
Prerequisites: BIOL 101, BIOL102 or BIOL 215, BIOL 216 and CHEM 101, CHEM 101L, or CHEM 115, CHEM116.

BIOL 210: Genetics (4) (F; S)

Covers basic genetic principles through integration of classical and molecular genetics, including the physical nature of genetic material, transmission of genetic information, patterns of inheritance, gene mapping via linkage and association studies, gene regulation including epigenetics, and recombinant DNA technology. Lectures: three hours; laboratory: three hours. *Prerequisites: BIOL 101, BIOL 102*.

BIOL 215: Anatomy & Physiology I (4) (F)
First course of a two-semester sequence in conjunction with BIOL 216. Students are exposed to a basic foundation in normal physiology and functional anatomy of human organ systems. Topics covered are: cell physiology, histology, integument, and skeletal, muscular, nervous, and sensory systems. Emphasis on the interaction of structure and function and the homeostasis mechanisms in the human body. Lecture: three hours; laboratory: two hours. *Prerequisites: Must have Department and instructor's written consent.*

BIOL 216: Anatomy & Physiology II (4) (S)
Second course of a two-semester sequence in conjunction with BIOL 215. In-depth discussions of the concepts introduced in BIOL 215, particularly in regard to human systems and homeostasis mechanisms of the human body. Lecture: three hours; laboratory: two hours. *Prerequisites: Must have Department and instructor's written consent.*

BIOL 220: General Zoology (4) (F; S) (formerly BIOL 301)

A course in basic animal biology that emphasizes and examines in a phylogenetic framework the origin, structure and function, reproduction and development, and comparative anatomy of representative animal phyla. Required laboratory component consisting of specimen dissection and identification. Lecture: three hours; laboratory two hours. *Prerequisites: BIOL 101, BIOL102* and *CHEM 101/L*.

BIOL 221: General Botany (4) (F; S) (formerly BIOL 302)

Covers basic biological phenomena of plant life including anatomy, physiology, growth, development, distribution, classification and economic relevance. Laboratory exercises include plant morphology and metabolism. Lecture: three hours; laboratory: two hours. *Prerequisites: BIOL 101, BIOL102, and CHEM*

101/L.

BIOL 250: Biological Orientation (1) (F; S)
Prepares Biology majors for entry into the Department. Emphasizes laboratory report writing, oral presentations, practical examination techniques, sketching, instrumentation, terminology, note-taking skills, and career development activities. Lecture: one hour. *Prerequisites: Must be Biology major.*

BIOL 255: Fundamentals of Clinical Microbiology (4) (F; S)
The study of bacteriology, parasitology, mycology, and virology. Students study methods and perform techniques used in isolating and identifying microorganisms and demonstrate basic good laboratory procedures. Other topics studied include susceptibility testing, food and human disease, epidemiology and quality control. Lecture: three hours; laboratory: two hours. *Prerequisites: BIOL 101, BIOL 102.*

BIOL 300: General Ecology (4) (F)

Introduces major ecological concepts. Discusses physical, chemical and biological factors affecting the spatial distribution and abundance of organisms; and population, community and ecosystem structure, function and dynamics. Lecture: three hours; laboratory/field activity: two hours. *Prerequisites: BIOL 220, BIOL 221 and CHEM 101/L.*

BIOL 302: General Botany (4) (F; S)

Covers basic biological phenomena of plant life, including anatomy, physiology, growth, development, distribution, classification, and economic relevance. Lecture: Three hours; laboratory: two hours. *Prerequisites: BIOL 220 , BIOL 221 102.*

BIOL 303: Parasitology (3) (F; S)
Provides up-to-date information on the basic biology, pathology, and epidemiology of important human parasites. Topics covered include parasite characteristics, host/parasite interactions, life cycles, distribution, pathogenicity, diagnosis, treatment, and control of parasite groups from protozoa to arthropods. The course also explores evolutionary aspects of host-parasite interactions. Lecture: This course is currently offered as Distance Learning. *Prerequisites: BIOL 101, BIOL102.*

BIOL 304: Organic Evolution (3) (F;S) (formerly BIOL 211)

Covers topics such as mutation, adaptation, selection, cooperation, competition, speciation and phylogeny. Other areas of discussion include factors that influence population genetics, evolutionary ecology, and macroevolution changes above the species level. Lecture: 3 hours. *Prerequisites: BIOL101, BIOL102.*

BIOL 305: Histology (3) (S)
Microscopic structure of plant and animal tissues. Emphasizes distinguishing characteristics of various tissues. Lecture, two hours; laboratory, two hours. *Prerequisites: BIOL 101, 102; CHEM 101, 101L, 102, and 102L.*

BIOL 306: Human Anatomy (4) (S) (formerly BIOL 207)

Comprehensive coverage of form and structure of the human body. Lecture: three hours; laboratory: two hours. *Prerequisites: BIOL 101, BIOL102, and BIOL 220.*

BIOL 307: Human Physiology (4) (F; S)

Comprehensive coverage of the functional aspects of the organs and organ systems of the human body including disease, repair mechanisms and medical advances. Lecture: three hours; laboratory: two hours. *Prerequisites: BIOL 101, BIOL 102, and BIOL 220.*

BIOL 308: Introduction to Molecular Forensic Science (3) (S)
An introductory course that covers DNA replication, transcription, and translation, and how these concepts are applied to forensic science. Investigations into DNA, RNA, and protein-based fingerprinting using human, animal, plant, and microbe models. Lecture: two hours; Laboratory: two hours. *Prerequisites: BIOL 101 or GE 155 and one other Biology course instructor's written consent.*

BIOL 341: Microbiology (4) (F; S)
Biology of microorganisms with special emphasis on bacteria, their detection, isolation, and culturing techniques. Also covered are general principles of infection and immunity with emphasis on select human diseases. Lecture: three hours; laboratory: two hours. *Prerequisites: BIOL101, BIOL102, CHEM 101, CHEM 101L, CHEM 102, CHEM 102L.*

BIOL 342: Topics in Applied Microbiology (3) (F; S)
Experimental exploration of advanced topics in applied microbiology, such as fermentations, clinically and environmentally relevant biofilms, quorum sensing, biodegradation, and biotechnology. Emphasis given to current issues in applied microbiology. Lecture: two hours; Laboratory: two hours. *Prerequisites: BIOL 341, CHEM 401, CHEM 401L.*

BIOL 345: Plant Systematics (3) (S)
Special emphasis on diagnostic features and criteria used in classifying plants. Investigations involve representatives of local, regional, and national flora. Lecture: two hours; Laboratory: two hours. *Prerequisites: BIOL 302.*

BIOL 350: Introduction to Experimental Methods (3) (F; S)
Acquaints students with the concepts and procedures utilized in modern biological research. Designed to enhance the student's ability to understand and utilize

various research techniques. Combined lecture and laboratory: four hours. *Prerequisites: BIOL 101, BIOL102, CHEM 102, CHEM 102L and at least one other 200 level or higher Biology course with instructor's written consent.*

BIOL 352: Molecular Biology/Lab (4) (F; S)

Introduces the molecular structure and enzymatic mechanisms that underlie the utilization of genetic information by prokaryotic and eukaryotic organisms, including control of RNA and protein synthesis. Special emphasis on fundamental, theoretical, and applied effects of recombinant DNA, RNA, and protein technology; and molecular techniques such as fingerprinting, sequencing and blots. Lecture: three hours, Laboratory: 2 hours and additional lab time scheduled as necessary. *Prerequisites: BIOL 210, BIOL 221, and CHEM 301.*

BIOL 355: Career Entry Seminar (2) (F; S)
Designed to enhance the preparedness of science majors to deal with pre-professional entry examinations. Special emphasis on MCAT, DAT, GRE (Specialty Area), and preparation of resumé and application cover letters. Lecture: two hours. *Prerequisites: Must be junior or senior classification Biology major or have Department Chair's written consent.*

BIOL 380: Cell Biology (3) (F; S)
Covers details of the fine structure of cells, their physical/chemical composition, organization and metabolism. Lecture: three hours. *Prerequisites: BIOL 101, BIOL102, CHEM 302, CHEM 302L.*

BIOL 394: Biodiversity (3) (F; S)
An account of the cause and state of global biological diversity and the impact of environmental change on past diversity. Topics include molecular and organismal level biodiversity and speciation, conservation, and effect of human activities on biodiversity. Special emphasis on biomedical research, genetic engineering of foods, and human infectious diseases. Lecture: three hours. *Prerequisites: BIOL 210, BIOL 341.*

BIOL 395: Introduction to Neuroscience (3) (F)
Focus on the neuron and its biological interactions in the nervous system. Topics will include the anatomy, development, chemistry, and physiology of the human nervous system and brain. *Lecture: three hours. Prerequisites: BIOL 307, CHEM 302.*

BIOL 401: Plant Physiology (3) (S)
Focus on aspects of plant cells, including their general physiology; metabolic transformation; functions of leaves, roots, stems, flowers, and fruit; photosynthesis; respiration; and growth hormones activities. Lecture: two hours; laboratory: two hours. *Prerequisites: BIOL 302, CHEM 101, CHEM 101L.*

BIOL 405: Animal Biotechnology (4) (F)
Places emphasis on technologies that specifically use animal models to expose students to scientific discovery and applied laboratory techniques in biotechnology. Topics include ethics, pharmaceuticals, medicines and vaccines, diagnostics, transgenic animals, and animal cloning. Lecture: two hours; Laboratory: three hours and additional lab time scheduled as necessary. *Prerequisites: BIOL 101, BIOL 102, BIOL 350.*

BIOL 406: Plant Biotechnology (4) (S)
This course acquaints students with the concepts and procedures involved in plant tissue culture, transgenic plant production, patents and copyrights associated with plant sciences; and the ethical questions surrounding the use of this technology. Lecture: two hours; Laboratory: three hours; and additional lab time scheduled as necessary. *Prerequisites: BIOL 101, BIOL102, BIOL350.*

BIOL 442: Developmental Biology (3) (S)
Early developmental processes of anatomical and physiological significance with particular emphasis on developmental stages of the frog, chick, and mammalian embryos. Combined lecture and laboratory: four hours. *Prerequisites: BIOL101, BIOL102, BIOL 201, BIOL 307.*

BIOL 443: Principles of Immunology (3) (S)
A survey of the basic concepts and principles on acquired resistance of higher animals and humans to infection by microorganisms. Lecture: three hours. *Prerequisites: BIOL 341, CHEM 101, CHEM 101L, CHEM 102, CHEM 102L, CHEM 301, CHEM 301L.*

BIOL 450: Advanced Techniques in Biotechnology (4) (F)
This course focuses on the theoretical concepts and emphasizes "hands-on" experience with advanced techniques including, but not limited to, polymerase chain reaction, cDNA cloning and expression screening, and aspects of plant molecular biology, and biotechnology. Lecture: two hours; laboratory: four hours. *Prerequisites: BIOL 352, Must be junior or senior classification Biology major or have instructor's written consent.*

BIOL 460: Advanced Experimental Methods (4) (S)
Increases the student's knowledge and practice of experimental techniques in a specific area of the biological sciences. Final written reports of experimental results is required. Lecture: two hours; laboratory: four hours; and additional lab time scheduled as necessary. *Prerequisites: BIOL 350, Must be junior or senior classification Biology major*

or have instructor's written consent.

BIOL 485: Medical Terminology (1) (F; S)
Designed for the pre-medical and pre-dental program to give students an opportunity to systematically build a medical vocabulary. Emphasis on Greek and Latin prefixes, suffixes, word roots, and combining forms. Lecture: one hour. *Prerequisites: BIOL101, BIOL102.*

BIOL 486: Scientific Communication and Capstone (3) (F)

This Capstone course evaluates the student's ability to understand and communicate complex scientific concepts in written and verbal formats. Emphasizes critiquing scientific articles, scientific writing, use of the library, writing professional documents; and conducting scientific presentations. Standardized knowledge and critical thinking exams may be conducted outside the meeting period. Lecture: three hours. *Prerequisites: Senior classification Biology major or Marine Environmental Sciences major or Instructor's written consent.*

BIOL 487: Statistical Applications in the Sciences (3) (F; S)
Designed to enhance the student's ability to apply statistical techniques in the analysis of routine biological data. Emphasis on numerical methods, basic statistics, testing, significance, regression, correlation, experimental design, and variance, etc. Lecture: three hours. *Prerequisites: BIOL101, BIOL102.*

BIOL 488: Computer Applications in the Sciences (1) (F; S)
Consideration of computer-related issues and applications in the sciences. Emphasis given to special topics that require the use of the computer in problem-solving. Lecture: one hour. *Prerequisites: Must be junior or senior classification Biology major or have the Department Chair's written consent.*

BIOL 489: Special Problems in Biology (1-3) (F; S)
Provides students the opportunity to address current topics in biological science via resource development, field studies, and library usage. Emphasis on student independent research and presentation. Lecture: one hour. *Prerequisites: Must be junior or senior classification Biology major or have the Department Chair's written consent.*

BIOL 490: Ethics in Biotechnology (1) (F; S)
This seminar course provides students the opportunity to address the impact of biotechnology on human society and the environment via readings, written critiques, discussions, and debates. Lecture: one hour. *Prerequisite: Must be junior or senior classification Biology major or have Department Chair's written consent.*

BIOL 491: Bioethics in Healthcare (3) (F; S)
The course provides an overview of most of the major areas of biomedical ethics. Participants will gain familiarity with terminology, resources, and major frameworks of ethical analysis in biomedical ethics. Issues that will be analyzed include physician-assisted suicide, pediatric ethical dilemmas, resource allocation, and problems posed by managed care and research ethics. Extensive use of case studies will develop the participants' ethical problem solving skills. Lecture: three hours. *Prerequisite: Must be junior or senior classification Biology major or have the Department Chair's written consent.*

BIOL 492: Methods in Life Sciences Instruction (3) (F; S)
Principles of instructional strategies and laboratory techniques associated with teaching life sciences at the level of Intermediate Education (4–6). *Prerequisites: BIOL 101, 102; CHEM 101, 101L, 102, 102L.*

BIOL 493 Field Experience in Biological Science (3) (F; S)
Designed to give Biology majors on-the-job training experiences in such areas as medicine, pharmaceutical science, biotechnology, veterinarian medicine, health, environment, and research. The student is responsible for arranging the internship, shadow, or other field experience prior to enrolling in this course. May be repeated once for credit for a unique field experience with Department consent. Meeting hours are approved by instructor and field mentor and are typically 5-10 hours per week. *Prerequisites: Sophomore, junior or senior level classification Biology major*

BIOL 495: Biology Seminar (1) (F; S)

This course evaluates the ability of the student to research and present data in a scientific oral presentation. Content focuses on recent advances and problems in biology with strong emphasis on participation and discussion. Lecture: one hour. *Prerequisites: Senior classification Biology major or Marine Environmental Science major or the Department Chair's written consent.*

BIOL 496: Science and Human Values (1 or 2) (F; S)
Covers the impact of science on our society and the implications of emerging ideas on the shaping of future societies. Emphasis on student independent research and presentation. Lecture: two hours. *Prerequisites: Must be junior or senior classification Biology major or have the Department Chair's written consent.*

BIOL 499: Biological Research (1 or 2 or 3) (F; S)

Investigational work on a select topic in biology under the guidance of faculty members in the department. Laboratory: two - four hours and additional lab time scheduled as necessary. *Prerequisites: BIOL 220, BIOL 221, and CHEM 301. Must have junior or senior classification. Requires department chair and instructor written consent.*

BUSINESS ADMINISTRATION COURSE DESCRIPTIONS

BUAD 115: Introduction to Business (3) (F, S, SS)
Surveys the various business disciplines and provides exposure to current issues such as globalization, entrepreneurial management, diversity, and ethics. Emphasizes the importance of the business sector on the dynamic market-driven economy. Serves as an **introductory course** to the field of business and as prerequisite for all other business courses. *Prerequisite: None*.

BUAD 190: Management Information Systems I (3) (F, S)
Emphasizes personal productivity concepts using functions and features in business computer software including Operating Systems, Internet, WEB and E-commerce; Word-processing, Spreadsheets, Database Management Systems and Presentation Graphics. Students learn to apply information technologies to problem situations and to use small information systems for individuals and groups. *Prerequisite: None*.

BUAD 200: Business Communication (3) (F, S, SS)
Emphasizes and enhances the importance of communication skills in the business world. Covers the foundations of communication for business -- writing, speaking, listening and reading as well as nonverbal communication and impression management. Builds communication skills with technologies and practical business applications addressing inter-cultural communication skills for the global business community. *Prerequisite: BUAD 115 and GE 103*.

BUAD 240: Ethics (3) (F, S, SS)
Covers the theories of ethics and the practice of ethical leadership in dynamic business environment. *Prerequisites: MNGT 221, MRKT 231*.

BUAD 241: Business Law (3) (F, S, SS)
Study of law and its application to business and business transactions. A survey course designed to familiarize today's business student with the legal process, specific laws, and the legal reality facing business people in the increasingly diverse and complex workplace. *Prerequisite: BUAD 115*.

BUAD 260: Career Development Seminar (1) (F)
Covers resume writing, job preparation, interviewing techniques, graduate and professional school preparation, test-taking skills, and related career development issues. Guests from the world of business practice will be invited as presenters. *Prerequisite: BUAD 115*.

BUAD 322: Entrepreneurship (3) (F, S)
Covers how to start a new enterprise and the requirements for its successful operation. Topics include the legal forms of organizations, financing, risks, and operations in small business. Emphasis is on the development, presentation, and use of the business plan. *Prerequisites: BUAD 115, ECON 202, and ACCT 101 or ACCT 210, with a C or higher*.

BUAD 360: Quantitative Methods for Business and Economics (3) (F, S, SS)
Exploration of mathematical techniques used in economics and business management with emphasis on applied problems and the relationship between technique and theory. *Prerequisite: ECON 260 with a C or higher*.

BUAD 365: Business Research and Report Writing (3) (F, S)
Comprehensive techniques of business reporting, which include surveying markets, summarizing findings, and writing analytical and informative reports. *Prerequisite: ECON 260 with a C or higher*.

BUAD 425: Franchising (3) (even F)
A survey of franchises, royalties and fees, legal implications of franchising, selection among franchise opportunities, franchise application process, franchise training, and operations. *Prerequisite: None*.

BUAD 426: Supply Chain Management (3) (S)

This course explores the functions of supply chain management. Topics discussed in this course include distribution network, sourcing, forecasting and integrated planning, supply chain coordination and information technology, global supply chain, outsourcing, logistics and transportation, inventory and warehousing, and supply chain performance measurement. *Prerequisite: MNGT 221 with a C or higher*.

BUAD 455: Strategic Management (3) (F, S, SS)
A capstone course that examines the managerial tasks of developing and implementing both domestic and international organizational strategies. This is a case method course. Cases are used from the text and from current business situations. Students learn to apply the tools of analysis and critical thinking to the strategic challenges managers face. *Prerequisites: Senior standing, BFIN 311, MNGT 221, and MRKT 231, each with a C or higher; should be taken during student's final semester.*

BUAD 456: International Business (3) (F, S, SS)
A study and investigation of environmental, policy-making, and cultural aspects of international business with focuses on business and managerial implications of each issue on the actual practice of international business. Many issues in international business are complex; they necessitate exploration of pros and cons of economic theories, government policies, business strategies, organizational structures, and social settings. *Prerequisites: Senior standing, BFIN 311, MNGT 221,*

MRKT 231, each with a C or higher; should be taken during the student's final semester.

BUAD 490: Internship I (3) (F, S, SS)
Develops student awareness of the business environment, the real world of work as it relates to their majors, providing visibility and hands-on experience in various business settings, stimulating entrepreneurship, and exploring various business and career opportunities. May require weekly class attendance. Requires working 150 hours to earn 3 semester hours credit. *Prerequisites: Junior or Senior standing, minimum 2.0 GPA.*

BUAD 491: Internship II (3) (F, S, SS)
Emphasis is on developing student awareness of the business environment, the real world of work as it relates to their majors, providing visibility and hands-on-experience in various business settings, stimulating entrepreneurship, and exploring various business and career opportunities. Students may be required to attend weekly classes and must work 150 hours to earn 3 semester hours credit. *Prerequisites: Junior or Senior standing, minimum 2.0 GPA. Prerequisite or Corequisite: BUAD 490; Course may only be taken in addition to BUAD 490; if not taken the same semester, internship must be different than prior internship.*

BUAD 495: Independent Studies (3) (F, S, SS)
Students to explore topics of current interest or specialized research topics under the guidance of a faculty advisor. Course topics are intended to be flexible and creative, varying form each semester. *Prerequisites: Junior or Senior standing; permission of instructor; permission of department chair*.

CHEMISTRY COURSE DESCRIPTIONS

CHEM 101: General Chemistry I (3) (F; S; SS)
The first part of the general chemistry course in the two-semester sequence. Topics such as matter and measurement; atoms, molecules and ions; stoichiometry – calculations with chemical formulas and equations; types of chemical reactions, aqueous reactions and solution stoichiometry; thermochemistry; and electronic structure of atoms; will be discussed.
Corequisite: CHEM 101L.

CHEM 101L: General Chemistry I Lab (FS; SS)
Provides the student with an introduction to general chemical principles and reinforces concepts of the General Chemistry101 lecture. Laboratory experiments will provide the student with opportunities to collect and analyze data and identify unknowns. One hour per week. *Corequisite: CHEM 101.*

CHEM 102: General Chemistry II (3) (F; SS)
The second part of the general chemistry course in the two-semester sequence. Topics such as periodic properties of the elements; basic concepts of chemical bonding; molecular geometry and bonding theories; gases; intermolecular forces; liquids, solids, and modern materials will be discussed. *Prerequisite: CHEM 101/L; Corequisite: CHEM 102L.*

CHEM 102L: General Chemistry II Lab (1) (F; SS)
Fundamental chemistry laboratory skills are emphasized for continued study of chemistry and related sciences and reinforce concepts of the General Chemistry102 lecture. After successful completion of this course, the student will have an understanding of basic chemical concepts. One hour per week. *Prerequisite: Chem101L.*

CHEM 115: Basic General, Organic, Biochem I (4) (F; S)
A course in general chemistry with special emphasis on organic chemistry and biochemistry. A terminal course that does not meet requirements as a prerequisite for any higher level chemistry course. General, organic, and biochemistry and chemical applications in health professions. Introduces lab techniques in general, organic, and biochemistry.

CHEM 116: Basic General, Organic, Biochem II (4) (F; S)
Continuation of CHEM 115.

CHEM 200: Additional Topics in General Chemistry (3) (F; S)
Provides the biological, and /or the physical science major the opportunity to fill in any gaps that may exist in terms of the chemical topics needed to successfully pursue advanced knowledge in his or her chosen field of study. Needed topics not normally covered during enrollment in CHEM 101, and CHEM 102 will be undertaken. Topics such as acid-base equilibria, intermolecular forces, liquids, solids; modern materials; properties of solutions; chemical kinetics; chemical equilibrium will be discussed. Lecture: Three hours per week. *Prerequisite: CHEM 102.*

CHEM 202: Quantitative Analysis (2) (F; S)
Introduction to fundamentals of analytical chemistry including: statistical methods for processing of analytical data, volumetric and gravimetric titrations, acid-base equilibriums, spectrophotometric methods of analysis, chromatographic separation, and analysis. Thorough coverage of topics on activity and chemical equilibrium, solubility products, and redox reactions will also be provided. Lecture: two hours per week. *Prerequisite: CHEM 101L; Corequisite: CHEM 202L.*

CHEM 202L: Quantitative Analysis (2) (F; S)
Covers laboratory experiments and spreadsheet based data processing exercises to reinforce the techniques of quantitative chemical analysis. This course must be taken with CHEM 202. Laboratory: one hour per week. *Corequisite: CHEM 202.*

CHEM 205: Inorganic Chemistry/Lab (4) (F; S)
An introduction to modern concepts of inorganic chemistry including electronic structures, molecular structures and periodic classification of the elements. Additional topics will be selected from the following areas: bonding theories, quantum theory, solid state theory, transition metal complexes, methods of structural determination, bioinorganic chemistry and instrumental techniques currently used in inorganic chemistry. The experiments chosen are to illustrate inorganic synthetic techniques, method of purification, and methods of characterization.

CHEM 301: Organic Chemistry I (3) (F; SS)
Introduces the biomedical science discipline as the application of chemistry and biology-based science to medical use. The biochemical processes that occur in the human body in health and diseases such as cancer, diabetes, and Alzheimer's disease, and the body's response to infection are explored.

CHEM 301: Organic Chemistry I (3) (F; SS)
Explains the essence of science by introducing the core principles of practical research in chemistry and learning to prepare a research article. Aimed at fostering ethical practices in chemistry research and teaching research as an ongoing process. Focus is directed at responsible conduct of research, valid and reliable information retrieval skills, experimental skills including data collections and methods of analysis, and the development of effective communication skills both oral and written.

CHEM 301: Organic Chemistry I (3) (F; S; SS)
Serves as an introductory course to organic chemistry for students majoring in chemistry and other fields in which organic molecules and reactions have fundamental importance. The course covers nomenclature, preparation, physical, and chemical properties and synthesis of organic compounds, particularly aliphatic and alicyclic hydrocarbons such as alkanes, alkenes, alkynes as well as alcohols and alkyl halides. Lecture: three hours per week. *Prerequisite: CHEM 102/L; Corequisite: CHEM 301L*

CHEM 301L: Organic Chemistry I Lab (F; S; SS)
Focuses on experimental techniques of modern organic chemistry with emphasis on separation, simple preparation, reactions and identification of organic compounds such as alkanes, alkenes, and alkyl halides. Three hours of laboratory per week. *Prerequisite: CHEM 102/L; Corequisite: CHEM 301.*

CHEM 302: Organic Chemistry II (3) (F; S; SS)
Builds on basic concepts introduced in Organic Chemistry I and expands on it to encompass a systematic and in-depth study of the nomenclature, properties, preparation, and reactions of various classes of organic compounds. These include aromatic hydrocarbons, alcohols, ether, sulfides, epoxides, aldehydes, ketones, carboxylic acids and their derivatives. Spectroscopic techniques such as NMR, FT-IR, and MS etc., used in the determination of the structure of organic compounds will also be discussed. Lecture: three hours per week. *Prerequisite: CHEM 301/L; Corequisite: CHEM 302L.*

CHEM 302L: Organic Chemistry II Lab (1) (F; S; SS)
Emphasizes the instruction of experimental methods of modern organic chemistry such as preparation, synthesis, identification, and reactions of organic compounds such as alcohols, ketones, carboxylic acids aromatic compounds, and their derivatives. Laboratory: three hours per week. *Prerequisite: CHEM 301/L; Corequisite: CHEM 302.*

CHEM 350: Chemistry Seminar
Assessment of a student's oral and written communication skills in the discussion and presentation of multifaceted chemical concepts and current topics of interest. Course content will focus on recent advancements in chemistry.

CHEM 395: Introduction to Neurochemistry (3) (F)
Investigates the biological and chemical processes involved in central nervous system functioning and communication. It is a study of the nervous system from its structure, chemical, molecular and cellular biology, and function through to the consequences of its action, which is behavior. Emphasis will include the chemical aspects of synthesis, metabolism, and release of neurotransmitters and how drugs (legal or illegal) affect behavior. The neurodegeneration in such behavioral and neurological disease states as Alzheimer's disease, Parkinson's disease, multiple sclerosis and diabetic neuropathy will be discussed. Current research topics in this area will also be presented. Lecture: three hours per week. *Prerequisite: CHEM 302 or BIOL 307.*

CHEM 401: Biochemistry: (3) (F; S)
Covers the chemistry of essential biological molecules focusing on protein chemistry, while covering lipids and carbohydrates. It presents a systematic and methodical application of general and organic chemistry principles. Examines the structure of proteins and folding, their function, their binding to other molecules. Enzymes, mechanisms, kinetics, and allostery; bioenergetics; vitamins and coenzymes; introduction to intermediary metabolism are discussed in detail. Metabolic pathways are examined from thermodynamic and regulatory perspectives. This course provides the connection between the inert world of chemistry and the living world of biology. *Prerequisite: CHEM 301/L; Corequisite: CHEM 401L.*

CHEM 401L: Biochemistry Lab (1) (F; S)
Focuses on the fundamental techniques of protein biochemistry. The course will cover assay methods; separation of macromolecules by electrophoresis and chromatography; isolation, purification, analysis of enzymes, and methods for probing protein-ligand interactions

CHEM 402: Biochemistry II (3) (F; S)
Provides a broad overview of the key concepts in biochemistry. Topics to be covered include lipids and amino acids metabolism and metabolic diseases processes. The nucleic acid structure and function, DNA replication, transcription, translation, signal transduction, and regulation of gene expression in prokaryotes and eukaryotes will be covered widely. The course also covered topics include cell cycle regulation and cancer biology. Lecture: three hours per week. *Prerequisite: CHEM 401/401L.*

CHEM 402L: Biochemistry II Lab (1) (F; S)
Focuses on the fundamental techniques of biochemistry. The course will cover assay methods; separation of macromolecules by electrophoresis and chromatography; isolation, purification, and analysis of enzymes; recombinant DNA procedures; and polymerase chain reaction (PCR).

CHEM 403: Physical Chemistry I (3) (F; S)
Provides students with an overview of the basic laws and theories of physical chemistry. Reviews the mathematics, and physics needed for physical chemistry, the three states of matter, perfect and real gases, the gas laws, the four laws of chemical thermodynamics and their applications, and equilibrium thermodynamics. *Prerequisites: CHEM 200; MATH 158; PHYS 181L or 192; Corequisite: CHEM 403L.*

CHEM 403L: Physical Chemistry I Lab (1) (F; S)
Experiments pertinent to the gas laws, Beer's law, and thermal conductivity of industrial materials. Laboratory: three hours per week. *Corequisite: CHEM 403.*

CHEM 404: Physical Chemistry II (3) (S)
Gives students an overview of the basic laws and theories of Physical Chemistry: Chemical Kinetics, Electrochemistry, Quantum Chemistry, and Statistical Thermodynamics. Lecture: three hours per week. *Prerequisite: CHEM 403L:Corequisite: CHEM 404L.*

CHEM 404L: Physical Chemistry II Lab (1) (S)
Laboratory experiments are designed to reinforce the concepts covered in CHEM 404. Laboratory: one hour per week. *Corequisite: CHEM 404.*

CHEM 405: Instrumental Methods of Chemical Analysis (2) (S)
Introduction to fundamental principles of modern instrumental analysis including: instrumentation and analytical applications of atomic and molecular spectroscopy, mass spectrometry, analytical separations, and electrochemistry instruments. Discussion of instrument design and capabilities as well as real-world problem solving with an emphasis on environmental applications. Hands-on laboratory work using modern instrumentation and independent projects involving environmental sampling and problem solving. Lecture: two hours per week. *Prerequisite: CHEM 202L; Corequisite: CHEM 405L.*

CHEM 405L: Instrumental Methods of Chemical Analysis Laboratory (2) (S)
Covers laboratory experiments and spreadsheet based data processing excises to reinforce the techniques of instrumental methods of chemical analysis. This course must be taken with CHEM 405. Laboratory: three hours per week. *Corequisite: CHEM 405*

CHEM 407: Applied Biochemistry: (4) (F; S)
Reviews the chemistry of macromolecules in living systems with emphasis on biotechnological and biomedical methods. The first part of the course will focus on the relationship between the chemistry, structure, and function of proteins, nucleic acids, carbohydrates, lipids, and membranes. Critical methods used in modern biochemistry to analyze macromolecules in biotechnological, biomedical and research interests will be covered. The final topics will be concerned with informational biochemistry, DNA replication, DNA recombinant technology and cloning methods, transcription factors analysis, sequencing techniques (DNA and protein), microarrays, and SiRNA. Extensive use of the Internet's resources (Pubmed etc.) and on-line journals will be also expected. This approach will assist the student to make the connection between abstract ideas and concrete applications.

CHEM 425: Selected Topics in Organic Chemistry (4) (F; S)
Serves as a bridge between a yearlong organic chemistry courses and graduate courses in organic chemistry for those students who plan to go to graduate school. It is an in-depth treatment of the fundamentals and topics not covered in the two semester organic chemistry courses. The course focuses on structure and bonding, physical and chemical properties of various families of organic compounds as well as reaction mechanisms and synthesis. 3 hours of lecture per week. *Prerequisite: CHEM 302/302L.*

CHEM 430: Introduction to Medicinal Chemistry (3) (F)
Introduce undergraduate seniors and juniors to a complete course in medicinal chemistry, from first principles of drug action, to design and development, and to specific drugs. The course covers the structures and functions of important drug targets such as receptors, enzymes and nucleic acids, as well as pharmacodynamics and pharmacokinetic properties of

drugs. General principles that apply in the discovery, design, and development of new drugs as well as classes of drugs will be discussed.

CHEM 435: Special Topics In Physical Chemistry (3) (F)
Covers one or more of the following areas of Physical Chemistry: quantum chemistry, spectroscopy, statistical thermodynamics, and chemical kinetics. Three hours of lecture per week.
Prerequisite: CHEM 404/404L, MATH 257; PHYS 182/182L.

CHEM 450: Chemistry: An Integrated Approach (3) (F; S)
Test the upper-level student's understanding and mastery of Chemistry as a discipline and subject matter in terms of the five main branches of the subject. It is not intended to be a chalk-and-talk course in the traditional sense. The main goal of the course is to determine how well the aspiring Chemistry major has been prepared in making the transition from being a major to being a professional in the field at the work place, and/or has been prepared for Graduate /Professional Schools at the next level of his/her educational career. Essential topics in General Chemistry, Analytical Chemistry, Biochemistry, Inorganic Chemistry, Organic Chemistry, and Physical Chemistry will be tabled for discussions and testing purposes.
Prerequisites: Prior knowledge of chemistry is required, and so are relevant concepts in mathematics and physics. It is assumed that the student has seen/learned most, if not all, of the material covered in the course at an earlier date.

CHEM 499: Chemical Research (1-3) (F; S)
Faculty supervision of student research in chemistry. Open to junior and senior students with demonstrated ability to carry out independent work in chemistry. Students may re-enroll for up to three semester hours of credit. *Prerequisite: Consent of Instructor/Department Chairperson.*

COMMUNICATIONS STUDIES COURSE DESCRIPTIONS

See other Course Listings under Mass Communications.

COM 200: Interpersonal Communication (3) (F)

Focuses on communication as a means of building and sustaining interpersonal relationships. Concepts of perception, attraction, self-disclosure, listening, verbal and non-verbal messages, conflict management, and gender communication. *Prerequisites: GE 102, 201, 202.*

COM 201: Intercultural Communication (3) (S)

Analyzes variables across intercultural contexts, including culture and meaning, nonverbal styles, patterns of symbolic transfer, and the influence of values on intercultural dialogue. Diversity issues and identity politics are also explored as a basis for understanding interracial communication and interfaith dialogue.

COMPUTER SCIENCE COURSE DESCRIPTIONS

CSC 114: Introduction To Computer Science (3) (F; S; SS)
Provides students with a basic understanding of programming practices and problem-solving skills. Concepts covered include number systems, the history and components of computers, flowcharting, pseudocode methodologies, understanding of programming practices, algorithms, test cases, and software development concepts.

CSC 115: Programming I (3) (F; S; SS)
This course provides an introduction to programming and is taught in a high level programming language. The topics covered are data types, expressions, assignment, selection, repetition, introduction to arrays, functions, and recursion. Students are required to do programming projects.
Prerequisite: CSC 114 or ENGT 100 and GE 115

CSC 160: Computer Science Majors Orientation Seminar (1) (F; S)
A survey of computer and information science as a discipline and a profession with a focus on the mastery of useful modules for becoming an efficient and an effective computer specialist in both academia and the workplace.

CSC 215: Programming II (3) (F; S)
This is the second course in the programming series and covers I/O file stream objects and methods, classes and objects, operators, inheritance and polymorphism, dynamic objects, the string class and exception handling, standard template library and structures, dynamic and static arrays, reference variables.
Prerequisite: "C" or better in CSC 115.

CSC 218: Data Structures (3) (F; S)
Introduction to Algorithmic Complexity; Object-Oriented Concepts; Container Class and Templates; Pointers; Linked Lists; Stacks; Queues; Recursion; Trees; Bubble; Insertion; and Merge Sort; Linear and Binary Searching; Graphs. *Prerequisite: "C" or better in CSC 215 or CSC 230.*

CSC 230: Object-Oriented Programming (3) (F, S)
Understand and use object-oriented programming concepts using a high-level programming language. Students learn fundamental data types, basic control structures, classes, objects, methods, arrays, string processing, file I/O, templates, recursion, lists, searching, sorting, inheritance, polymorphism, graphics, GUI, and multithreading. *Prerequisite: CSC 114 and GE 115.*

CSC 260: Sophomore Seminar in Computer Science (1) (S)
History of Computing; Social Context; Analytical tools; Professional Ethics; Risks; Security Operations, Intellectual Property, and Privacy and Civil Liberties. Designed to give students an introduction to the major and to provide the basic knowledge, overview, and foundation for the curriculum. *Prerequisite: CSC 215 or CSC 230.*

CSC 300: Introduction to Mobile Robotics (3) (S)
Design, construction, and programming of mobile robots. Topics include computational hardware, sensors, motors, power, locomotion, kinematics, perception, and localization.
Prerequisites: CSC 218.

CSC 314: Computer Architecture and Organization (3) (F; S)
Digital Logic and Data representation; Computer Architecture, Organization, and Abstraction; Interfacing and I/O Strategies; Instructions; Computer Arithmetic; Processor; Memory Architecture; Storage Multiprocessing; Performance; Distributed Architectures. *Prerequisite: CSC 215 or CSC 230 and MATH 262.*

CSC 315: Programming Languages Concepts (3) (F)
Programming Languages Overview; Different Phases of Language Translation; Parsing; Syntax Analysis; Semantic Analysis; Declarations and Types; Scopes; Concurrency; Code Improvement; Abstraction and Object Oriented Programming; Functional Programming; Logic Programming; Scripting and Markup Languages. *Prerequisite: CSC 218.*

CSC 318: Algorithms (3) (F)
Function Growth and Complexity; Divide and Conquer, Heapsort; Quicksort, Linear-Time Sort, Hash Tables, Binary Search Trees, Red-Black Trees, Dynamic Programming; Greedy Algorithms, Breadth-First Search; Depth-First Search, Minimal Spanning Tree, Single-Source Shortest Path, All-Pair Shortest Paths, Linear Programming, NP Completeness, and Approximation Algorithms. *Prerequisite: "C" or better CSC 218 Data Structures.*

CSC 325: Database Systems (3) (F; S)
Provides an introduction to database systems. Topics include data models, with a focus on relational database models, database design, transaction management, and SQL using a readily available database management system and applicable languages to reinforce concepts. *Prerequisite: CSC 218.*

CSC 335: Introduction to Web Design (3) (Upon Request)
This course will provide a basic understanding of the methods and techniques of developing a moderately complex web site using client-side and server-side programming languages. Students will produce a project that consists of a medium design effort. *Prerequisites: CSC 325 Database Systems.*

CSC 409: Artificial Intelligence (3) (S)
An introduction of the basic concepts and problem-solving techniques of artificial intelligence, the study of computers in context with human thought processes. Topics include heuristic programming, knowledge representation, natural language understanding, expert systems, and search strategies. One or more computer languages will be used. *Prerequisite: CSC 315.*

CSC 410: Net-Centric Computing (3) (F)
Introduction to Networks, Network Communication, Network Security, Web Organization, Networked Applications, Network Management, Compression, Multimedia Technologies, and Mobile Computing. *Prerequisite: CSC 314.*

CSC 412: Software Engineering (3) (F)
Discusses topics related to software design including various software lifecycle methodologies. Students are expected to complete a software design effort that models the phases of a software lifecycle. *Prerequisite: CSC 325.*

CSC 413: System Analysis and Design (3) (S)
A survey of techniques for performing system analysis and system design tasks. Includes sources of error in developing software, fundamental steps in developing software, duties and responsibilities of the System Analyst, automation of software development, problems in software development, the software life cycle, standard software development models, object-oriented software development, trends in software development, and metrics. Students will produce a term project that consists of a medium/large design effort. *Prerequisite: CSC 325.*

CSC 415: Computer Graphics (3) (Upon Request)
Fundamental Techniques; Graphic Systems; Graphic Communication; Geometric Modeling; Basic Rendering; Advanced Rendering; Advanced Techniques; Computer Animation; Visualization; Virtual Reality; Computer Vision; Computational Geometry; and Game Engine Programming.
Prerequisites: CSC 218, MATH 351.

CSC 420: Operating Systems (3) (S)
Overview of Operating Systems; Operating Systems Principles; Concurrency; Scheduling and Dispatch; Memory Management; Device Management; Security and Protection; File Systems; Real Time and EmbEd.D.ed Systems; Fault Tolerance; System Performance Evaluation; Scripting; Security Models; and Device Management. *Prerequisite: CSC 218.*

CSC 421: Topics In Computer Science (3) (Upon Request)
Topics of current interest in Computer Science that would aid in the development of student's growth and development as a Computer Specialist. *Prerequisites: Consent of Instructor and junior or senior classification.*

CSC 430: Undergraduate Research in Computer Science (3) (Upon Request)
Directed study in an existing area of computer science resulting in a research project. *Prerequisite: Consent of Instructor and Junior or Senior classification.*

CSC 451: Numerical and Symbolic Computing (3) (S)
Solving mathematical models using various algorithms; implementing algorithms using symbolic software such as Mathematica; error analysis; sources, propagation and measurement; differentiation; nonlinear equations; systems of equations (non-iterative and iterative methods); interpolation and extrapolation; numerical solutions of differential equations, and eigenvalue problems. *Prerequisites: MATH 265 and either CSC 115 or CSC 230.*

CSC 452: Internship (3-6) (F; S; SS)
Students engage in supervised experience with business, industry, or government. Evaluation to be based on written reports by employer and University supervisor. *Prerequisite: Consent of Instructor.*

CSC 460: Senior Seminar in Computer Science (2) (F)
Provides students the opportunity to demonstrate their accumulated knowledge, skills, and growth in the major. *Prerequisite: Senior status or instructor's written consent.*

CRIMINAL JUSTICE COURSE DESCRIPTIONS

CJ 201: Introduction to Criminal Justice (3) (F; S)
An introduction to the administration of criminal justice in a democratic society through its primary agencies: police, courts, and corrections. This course emphasizes the theoretical and historical development of law enforcement through the influences of human behavior and the resulting impact on social, economic, and environmental factors. *No Prerequisite.*

CJ 203: Criminal Justice Ethics (3) (F or S)
Overview of the major philosophical schools of ethics and the application of ethical systems and standards to decision making by professionals working in every part of the criminal justice system. *No Prerequisite.*

CJ 204: Institutional Corrections (3) (F; S)
Examination and development of managerial concepts of correctional institutions and study of rehabilitation programs at state and federal levels. *No Prerequisite.*

CJ 206: Police in American Society (3) (F; S)
Examines the role of the police in society, including police organization and functions, subculture, and police power and authority. Police problems and issues, and the recruitment, training, and careers of police officers are also discussed. *No Prerequisite.*

CJ 208: Drugs, Alcohol, and Crime (3) (F or S)
Explores the relationship of crime to alcohol and narcotics use. Characteristics of individuals likely to use illicit drugs will be examined in the conflict between individual freedom and society's desire to control drug use, as well as facts and myths regarding the role alcohol and other drugs play in criminal behavior. Strategies to combat the growing problem will be identified. *No Prerequisite.*

CJ 210: Juvenile Justice System (3) (F; S)
Procedural and substantive aspects of the juvenile justice system as it relates to intake, hearings, corrections, and rehabilitation programs. *No Prerequisite.*

CJ 217: Violent Crime (3) (F or S)
Research studies dealing with control of these issues: terrorism, homicide, gangs, serial crimes of violence, interpersonal violence, and sexual assault. Emphasizes crimes involving weapons. *No Prerequisite.*

CJ 310: American Constitution Law (3) (F; S)
Study of basic principles of the American Constitutional System. Emphasizes judicial interpretation and application of these principles in construing powers of the government and the rights of the people. Historical background and analysis of major federal court decisions. *Prerequisite: CJ 201.*

CJ 311: Criminal Law (3) (F; S)
Presents a basic concept of criminal law and creates an appreciation of the rules under which one lives in our government. Particular emphasis upon the definitions of crime against the person, property, and specific offenses. *Prerequisite: CJ 201.*

CJ 312: Criminal Evidence (3) (F or S)
Familiarization with the rules of evidence as well as reasons for the rules; instruction in collecting, protecting, and presenting evidence so that its admissibility will be assured. *Prerequisite: CJ 201.*

CJ 313: Research Methods in Criminal Justice (3) (F; S)
An introduction to research design as applied to

problems in crime and criminal justice. Includes an introduction to the scientific method, basic research designs, and data collection techniques. *Prerequisite: CJ 392*.

CJ 314: Criminal Procedure (3) (F or S)
An in-depth survey of pre-trial and post-trial procedures. Considers applications of constitutional principles. *Prerequisite: CJ 201*.

CJ 315: Introduction to Homeland Security (3) (F; S)

An overview of the history, organization, and the functions of the Department of Homeland Security. Examines and explores the theories, concepts, and case studies that are a part of homeland security in the United States. *No Prerequisite*.

CJ 391: Criminology (3) (F; S)
Nature, origin, and development of crime. Various scientific explanations of criminal behavior. Modern institutionalized crime and current programs for treatment and prevention. *Prerequisite: CJ 201.*

CJ 392: Statistics in Criminal Justice (3) (F)
An introduction to elementary statistical methods as applied to problems in crime and criminal justice. Includes an introduction to problems of data description, data analysis, hypothesis testing and inference, and an introduction to the use of computers. *Prerequisite: CJ 201*.

CJ 400: Juvenile Delinquency (3) (F; S)
Conceptions and theories of juvenile delinquency, treatment of juvenile offenders, and preventive programs. *Prerequisite: CJ 201*.

CJ 406: Introduction to Jurisprudence (3) (F or S)
Study of the various schools and theories of jurisprudence, historical development of legal systems, legal reasoning, and juristic processes. *Prerequisite: CJ 201*.

CJ 410: Prosecution and the Courts (3) (F or S)
Reviews the functions and practices of the prosecutor with special reference to an analysis of the interrelationships among charging, convicting, and sentencing, and in relation to the functions of police and probation staff. Provides an overview of court goals, functions, and potential for system reform. *Prerequisite: CJ 201*.

CJ 489: Problems and Practice in Criminal Justice (3) (F; S)
Evaluation of criminal justice agencies. Review of actual applied issues and research-based solutions. Deployment of intellectual and academic skills to find solutions to problems. *Prerequisite: CJ 201 and 100 credit hours towards the Criminal Justice degree.*

CJ 492: Public Policy in Criminal Justice (3) (F or S)
A study of the nature, development, and utilization of public policy within agencies of the criminal justice system. Topics include policy formulation, constraints on policy makers, influence of constituencies, and the role of research information. Case studies of issues such as crime control, prison overcrowding, police use of deadly force, the death penalty, and parole guidelines will be undertaken. *Prerequisite: CJ 201*.

CJ 496: Comparative Criminal Justice (3) (F or S)
A general introduction to the world's main legal systems. Comparative study of the administration of justice, procedural problems, and selected substantive legal institutions. *Prerequisite: CJ 201.*

CJ 498: Directed Study in Criminal Justice (3) (F or S)
Independent reading and research in Criminal Justice. Papers and oral reports as appropriate. *Prerequisites: CJ 201*.

CJ 499: Criminal Justice Internship (6) (F or S)
Internship designed to combine theoretical knowledge with practical work by allowing students to participate in Criminal Justice agencies in the community. In addition, students must complete 200 work hours and submit work logs and a research paper or report on some aspect of the agency. *Prerequisites: One hundred hours of course work towards the Criminal Justice degree. Contract must be filed the semester before the internship begins. (A criminal justice major may waive the internship requirement and take two 400 level elective criminal justice courses).*

ECONOMICS & FINANCE COURSE DESCRIPTIONS

BFIN 210: Personal Financial Management (3) (F, S, SS)
Overview of personal financial management and creation of wealth. Develops personal financial management skills in budgeting, income, expenditures, and planning for financial security and retirement. Explains savings and investments alternatives, financing, and credit sources, the role of insurance in protecting income and assets, and federal income tax issues. *Partially fulfills GE requirement in Social & Behavioral Sciences Prerequisites: None*

BFIN 311: Principles of Finance (3 credit hours) (F, S, SS)
An introduction to the study of finance with an emphasis on managerial or corporate finance. Also introduces financial institutions and investment fundamentals. *Prerequisites: ACCT 210, ECON 201 and ECON 202, each with a C or higher.*

BFIN 315: Entrepreneurial Finance (3) (S)
The financial management of entrepreneurial ventures and the problems associated with incubating and growing new ventures using the theories, knowledge, and financial tools needed to start, build, and harvest a successful venture. *Prerequisite: BUAD 322 with a C*

or higher.

BFIN 320: Financial Management (3) (F)
Provides an advanced coverage of major topics in managerial or corporate finance. Topics include corporate and project valuation, financing decisions, and working capital management. *Prerequisite: BFIN 311 with a C or higher.*

BFIN 350: Investments (3) (F)
Principles of security investments, analysis of specific studies, portfolio construction, and management. *Prerequisite: BFIN 311 with a C or higher.*

BFIN 398: Special Topics in Finance (3) (F, S, SS)
Topics of special interest to business students may be offered, or in response to a request by a group of students for a specific course not otherwise available. The students conduct a study of these topics as business electives. *Prerequisite: Business Administration major, junior standing, and department chair's written consent.*

BFIN 415: Financial Management Policy and Strategy (3) (S)

This course is designed to study the value creation process that generates superior economic performance for the firm over the long run in a corporation. The course will analyze value creation both conceptually and in terms of the challenges it poses for the top-management of a corporation. The analytical framework will employ precepts from finance, economics, and competitive strategy. Topics will be covered through a series of case studies and reading assignments. *Prerequisite: BFIN 320 with a C or higher.*

BFIN 420: Portfolio Construction and Management (3) (S)

A comprehensive coverage of investment topics including bond analysis, option valuation, commodities, futures and option contracts, and portfolio analysis, evaluation and management. Use of derivatives as a financial risk management tool is emphasized. *Prerequisite: BFIN 350 with a C or higher.*

BFIN 425: Commercial Bank Management (3) (F)
Focuses on operation, management, and analysis of commercial banks and other financial institutions. *Prerequisites: BFIN 311 with a C or higher.*

ECON 201: Principles of Economics I (3) (F, S, SS)
An introduction to macroeconomics, including a study of economic institutions and relationships in society. Resource allocation, the market system, national income accounting and analysis, the banking system, and monetary and fiscal policy are analyzed and discussed. *Partially fulfills GE requirement in Social & Behavioral sciences.*

ECON 201H: Principles of Economics I Honors (3) (F)
An introduction to macroeconomics including the economic system as a whole. Covers aggregate economic relationships and institutions; discusses and analyzes resource allocation, the market system, national income measurement, the banking system, monetary and fiscal policy, inflation, recession, economic growth and international exchange markets in the context of a private enterprise system. *Prerequisite: Membership in Honors Program.*

ECON 202: Principles of Economics II (3) (F, S, SS)
An introduction to microeconomics including a study of the individual firm, supply and demand, market structures, the pricing of resources, and the theory of distribution. Contemporary economic problems such as the farm problems, market structures and the public interest, and international trade are discussed. *Prerequisite: None. Partially fulfills GE requirement in Social & Behavioral Sciences.*

ECON 260: Business/Economics Statistics (3) (F, S)
Statistical methods, including measures of central tendency, dispersion, sampling, probability, and regression analysis. *Prerequisites: GE 115 with a C or higher.*

ECON 318: Money, Credit, and Banking (3) (S)
Study of subjects from the viewpoint of the businessman, banker, and the public. Examines development and present status of the American money market, credit controls, monetary policy, debt management, and monetary theory. *Prerequisites: ECON 201 and ECON 202, each with a C or higher.*

ECON 325: Current Economic Problems (3) (F)
Study of domestic and international economic problems and proposed solutions. Trends such as employment, inflation, poverty, the gold flow, and farm problems are analyzed. *Prerequisites: ECON 201, ECON 202.* each with a C or higher.

ECON 376: Public Finance (3) (F)
Public expenditures, federal and state revenue systems, financial administration, budgeting, and public debt management. *Prerequisites: ECON 201 and ECON 202, each with a C or higher.*

ECON 398: Special Topics in Economics (3) (F, S, SS)
Topics of special interest to business students may be offered, or a request by a group of students for a specific course not otherwise available. The students conduct study of these topics as business electives. *Prerequisites: Junior or Senior standing and the department chair's written consent.*

ECON 455: International Economics (3) (S)
Analysis of the flow of goods and services between countries and the financial aspects of international trade. Includes benefits from trade, restraint of trade,

terms of trade, financial trade, and the balance of payments analysis. *Prerequisites: MNGT 221, MRKT 231 and BFIN 311, each with a C or higher.*

ECON 470: Microeconomic Analysis (3) (S16, then F)
Development of methods in economic analysis and the application of these methods to problems of price and production under conditions of competition, monopoly, monopolistic or imperfect competition, and oligopoly. *Prerequisites: ECON 201, and ECON 202, each with a C or higher*.

ECON 480: Macroeconomics Analysis (3) (S)
Study of determinants of income, employment, and interest rates with emphasis on government policy to stabilize economic conditions. *Prerequisites: ECON 201, and ECON 202, each with a C or higher.*

EDUCATION COURSE DESCRIPTIONS

EDUC 160: Pre-Professional Studies III: Praxis I Reading (2) (F; S; SS)
Assists students as they prepare to enter the Teacher Education program. A special focus is on preparing students for the Reading section of Praxis I. Students will learn and practice reading strategies, as well as test taking strategies, necessary for future success as teachers. 2 credits.

EDUC 170: Pre-Professional Studies III: Praxis I Mathematics (2) (F; S; SS)
Assists students as they prepare to enter the Teacher Education program. A special focus is on preparing students for the Mathematics section of Praxis I. Students will learn and practice mathematics concepts, strategies, and procedures, as well as test taking strategies, necessary for success as future teachers. 2 credits.

EDUC 180: Pre-Professional III: Praxis I Writing (2) (F; S)
Assists students as they prepare to enter the Teacher Education program. A special focus is on preparing students for the Writing section of Praxis I. Students will learn and practice writing strategies, as well as test taking strategies, necessary for success as future teachers. 2 credits.

EDUC 203: Introduction to Computer Instructional Technology (3) (F; S)
Provides pre-service teachers with an introduction to the instructional use of technology. Emphasizes current computer competencies as set forth by the North Carolina Department of Public Instruction and standards of the International Society for Technology in Education.

EDUC 210: Professional Studies I: Introduction to Education (3) (F; S; SS)
First course in a required four-course sequence which addresses advocating for diversity, effective classroom facilitation, reflective practice, critical thinking, instructional technology, and competent evaluation. Students will understand the required Evidences of Professional Competency. Students also will understand the social, historical, and philosophical foundations of education. Required: criminal background check and 15-hour field experience.

EDUC 225: Exploration in Mathematics (3) (F; S; SS)
This hands-on course develops in-depth conceptual understanding of the underlying principles of elementary mathematics. Students create hands-on mathematical materials appropriate to various developmental levels of learning.

EDUC 250: Introduction to Reading (3) (F; S; SS)
This foundational reading course provides students with an overview of the scientifically-validated processes involved in the teaching of reading, including alphabetics, fluency, and comprehension. Upon the completion, students will be able to describe and demonstrate phonological and phonemic awareness, phonic and structural analysis, fluency-building strategies, vocabulary instruction, and text comprehension strategies.

ELEM 300: Reading & Language Arts (3) (F, S, SS)
Candidates learn to assess and teach beginning reading using research-validated strategies. Emphasizes phonemic awareness, phonic and structural analysis, vocabulary development, fluency, and comprehension. *Co-requisite: SPED 301 Reading Practicum.*

EDUC 310: Professional Studies II: Special Education & Diverse Learners (3) (F; S; SS)
The second in a four-course sequence. Each course addresses issues related to human development, diversity, leadership, classroom management, and technology. After completion, students will be able to describe the legal and ethical requirements of the Individuals with Disability Act, identify appropriate multicultural practices and materials, implement differentiation of instruction, and participate in professional collaboration to meet the needs of diverse learners and their families.

EDUC 350: Teaching Intermediate & Content Reading (3) (F; S; SS)
Addresses the requirements of reading across a wide range of texts, including content reading. Upon completion, candidates will be able to articulate and implement a variety of scientifically-validated instructional strategies for comprehension, vocabulary development, and decoding. Candidates investigate ways to motivate and engage the 21st century student using the multiple intelligences, and they utilize technology to support 21st century literacy skills and strategies.
Prerequisite: Admission into the Teacher Education

Program.

EDUC 351A: Intermediate and Content Reading Field Experience for Elementary Ed. (2) (F; S)
A 30-hour supervised field experience. Students will be placed as a group at a designated school with a faculty supervisor. Students will complete specific assignments and tasks and will keep a reflection journal throughout the courses. *Prerequisites: 1) a criminal background check, 2) satisfactory dispositions evaluations, 3) admittance into teacher education program, and 4) EDUC 350.*

EDUC 360: Teaching and Assessment (3)
In this required course, students develop knowledge of the relationship between teaching and assessment, and they learn how to plan for classroom assessment to improve student learning. *Prerequisite: Admission to the Teacher Education Program.*

EDUC 410: Professional Studies IV: Instructional Leadership and Methods (3) (F; S)
Upon completion of this course, candidates will demonstrate skill in a variety of instructional methods and team collaboration. Candidates work collaboratively with peers and P-12 partners to interpret school improvement data and implement a project related to the School Improvement Plan that will positively impact student learning. Candidates should plan to take this course during the semester prior to student teaching. A criminal background check and a 45-hour field experience/internship are required. Admission to the Teacher Education Program is a prerequisite.

EDUC 411: Professional Studies IV: Instructional Leadership and Methods Field Experience (3) (F; S)
A 30-hour supervised field experience. Students will complete specific assignments and tasks and will keep a reflection journal throughout the course. *Prerequisites: 1) a criminal background check, 2) satisfactory dispositions evaluations, and 3) admission to teacher education program.*

EDUC 412: The Middle School: Methods, Materials and Observation (3) (F)
Integrated methods course designed to meet the developmental needs of youth in various subjects in the curriculum of middle schools. Objectives, principles, practices of instruction, classroom techniques, and procedures; selection and use of instruments for evaluating achievement and measuring growth. Study of traditional and new techniques and innovations, including unit planning, team teaching, non-graded arrangements, and appropriate computer applications. Directed laboratory experiences in public schools. Classroom observation required. *Prerequisites: PSY 302, 309; Admission to the Teacher Education Program.*

EDUC 424: Art Education Materials and Methods (3) (F)
Materials, equipment, curricula, philosophy, and techniques for teaching art and the use of appropriate computer technology at all levels, especially grades K–12. Classroom observation required. *Prerequisites: Department Chair's written consent; Admission to Teacher Education.*

EDUC 428: Music Methods in the Elementary School (3) (F; S)
Methods course designed for elementary school level (K-6). Music education theories of learning and development: methods, materials, assessment, curricula, philosophy, lesson planning, advocacy, strategies teaching reading, and techniques for teaching music. Introduction of classroom instruments, recorder, guitar, and computer literacy. Classroom observation required. *Prerequisites: Department Chair's written consent; admission to Teacher Education.*

EDUC 429: Music Methods in the Secondary School (3) (F; S)
Methods course designed for the secondary school level. Music education theories of learning and development: methods, materials, curricula, philosophy, lesson planning, strategies, assessment, financial management, and techniques for teaching music. Introduction of classroom instruments, recorder, guitar, and computer literacy. Classroom observation required. *Prerequisites: Department Chair's written consent; Admission to Teacher Education.*

EDUC 430: Secondary Instructional Methods (9-12) (3) (F; S)
An integrated approach emphasizing competencies related to teaching at the secondary level regardless of content area(s). Includes modules such as computer application, school law, audiovisual aids, voice and diction, and lesson planning; culminates with a major teaching presentation. Classroom observation required. *Prerequisites: Department Chair's written consent; Admission to Teacher Education.*

EDUC 430A: Secondary Instructional Methods (9-12) Social Studies/History (3) (F)

An integrated approach emphasizing those competencies related to teaching at the secondary level for the Social Studies content area. The course will include modules such as computer application, school law, audiovisual aids, presentation, and lesson planning; and culminate with a major teaching presentation. Classroom observation required (30 hours minimum). *Prerequisites: Written consent of History Education Coordinator; Admission to Teacher Education.*

EDUC 433: Observation and Supervised Teaching in Elementary Education (K-6) (12) (F; S)
A complete clinical experience. Students teach children in grades K–6 in actual classroom situations. They are appropriately supervised in approved elementary schools in a public school system. In this challenging and supportive environment, the student further develops in the dynamic practice of making effective instructional decisions. The student begins to apply all appropriate teaching models with expert flexibility and develops into a competent practitioner ready to prepare a widely diverse student population for lifelong learning. *Prerequisites: Department Chair's written consent; Admission to Teacher Education*.

EDUC 437: Observation and Supervised Teaching in the Middle School (6-9) (6) (F; S)
Complete clinical experience, giving students the opportunity to teach under supervision in actual classroom situations in the middle grades in a public school system. *Prerequisites: Consent of Department Chair; Admission to Teacher Education.*

EDUC 440: Methods and Materials of Teaching Physical Education (3) (F; S)
Prerequisite to student teaching in physical education; all students must pass this course with a minimum grade of "C." The course provides an understanding of the methods and techniques necessary to effectively teach physical education. Classroom observation required. *Prerequisites: Department Chair's written consent; Admission to Teacher Education*.

EDUC 441: Clinical Praxis I: Elementary Placement (PreK - 5) (1) (F; S)
Introduces prospective teachers to the unique movement forms, movement concepts, fitness, physical activity and personal and social needs of elementary (PreK-5) school children. Students participate in 15 hours of applied clinical experiences in a physical activity program, which focuses on developing the motor skills of young children.

EDUC 442: Clinical Praxis II: Secondary Placement (6-12) (1) (F; S)
Introduces prospective teachers to the movement forms, movement concepts, fitness, physical activity and personal and social needs of middle and high school students. Students participate in 15 hours of applied clinical lab experience with students in a physical activity program in the 5-12 setting.

EDUC 443: Observation and Supervised Teaching in Music (6) (F; S)
Complete practicum experience which gives the student the opportunity to teach, under supervision, in actual classroom situations in a public school system. *Prerequisites: Department Chair's written consent; Admission to Teacher Education.*

EDUC 460: Professional Studies V: Portfolio Development (3) (F; S; M)
Candidates utilize critical thinking and reflective practices to ensure their electronic evidences and portfolios are aligned with the SOEP conceptual framework, DPI requirements, and other appropriate standards and accrediting bodies. After completion, candidates submit electronically their Evidences of Professional Competency. *Prerequisites: Admission to Teacher Education; written consent of the program coordinator and/or advisor*.

EDUC 464: Observation and Supervised Teaching in Mathematics (6) (F; S)
Complete clinical experiences giving secondary mathematics majors the opportunity to demonstrate, in actual classroom control, expertise in human relations and those professional, personal, and social characteristics exemplified by professional teachers. Experiences: the role of positive reinforcement and frequent review in learning with understanding and retention and transfer of learning; use of appropriate examples, illustrations, equipment, and materials; teaching a unit relative to computer literacy and computer programming in Basic Language; and remediation and questioning skills. *Prerequisites: Department Chair's written consent; Admission to Teacher Education*.

EDUC 466: Observation and Supervised Teaching in Social Studies (12) (F; S)
Complete clinical experience giving students opportunity to teach in actual classroom situations, under supervision, in a public school system. *Prerequisites: Consent of the Department Chair and History Education Coordinator; Completion of all other academic requirements for graduation/licensure; Admission to Teacher Education Program*.

EDUC 467: Observation and Supervised Teaching in Language Arts/English (6) (F; S)
Complete clinical experience giving secondary education majors the opportunity to teach Language Arts/English in actual classroom situations, under supervision, in a public school system. *Prerequisites: Department Chair's written consent; Admission to Teacher Education*.

EDUC 469: Observation and Supervised Teaching in Art (6) (F; S)
Complete clinical experience which gives the student the opportunity to teach, under supervision, in actual classroom situations in a public school system. *Prerequisites: Department Chair's written consent; Admission to Teacher Education*.

EDUC 473: Observation and Supervised Teaching in Special Education/General Curriculum (K-12) (6) (F; S)
Experience in teaching under the supervision and guidance of personnel certified in Mental Retardation. Observation of teaching methods and procedures, emphasizing individualized planning. The student teacher has an opportunity to take full teaching responsibility with daily evaluation and conferences. *Prerequisites: Consent of the Department Chair; Admission to Teacher Education*.

EDUC 474: Observation and Supervised Teaching in Health and Physical Education (6) (F; S)
Complete clinical experience giving students the opportunity to teach in actual classroom situations, under supervision, in a public school system. *Prerequisites: Consent of the Department Chair; Admission to Teacher Education*.

EDUC 476: Observation and Supervised Teaching in Biology (6) (F; S)
Complete clinical experience giving students the opportunity to teach in actual classroom situations, under supervision, in a public school system. *Prerequisites: Consent of Department Chair; Admission to Teacher Education*.

EDUC 478: Seminar in Contemporary Educational Issues (P/F) (F; S)
Provides student teachers with an update on current issues, trends, and research in teaching strategies and learning styles. As a part of the orientation, this seminar assists in refining reflective decision-making in the transition from student to professional educator. In addition, this course focuses on identified areas needing reinforcement prior to student teaching, such as planning, classroom management, multicultural education, and computer-assisted instruction. *Prerequisites: Senior status; Admission to Teacher Education*.

EDUC 490: Internship: Teacher Preparation (3) (F; S; SS)
Designed for the "non-traditional" student with documented evidence of successful classroom experience seeking area and level certification. *Prerequisites: Consent of Chair; Admission to Teacher Education*.

EDUC 491/492/493: Independent Study (1; 2; 3)
Individual study or research under direction of a faculty member. Study plan must be approved by the department chair and dean. *Prerequisite: Consent of instructor*.

EDUC 499: Problems in Education (1-3) (F; S; SS)
Develops awareness of and reflection on current problems, issues, and trends in education, especially American education. Students conduct an in-depth study of a selected topic and report the results of the study in writing and orally. *Prerequisites: EDUC 201; Admission to Teacher Education*.

Birth - Kindergarten Course Descriptions

BKED 201: Introduction to Birth-Kindergarten (1)
An overview of the field of early care and education. Emphasizes the elements of high-quality programs, governing standards and regulations, and historical perspectives. The course focuses on career options in the field of birth through kindergarten education.

BKED 301: Child Growth and Development I: Infants and Toddlers (3)
An overview of physical, cognitive/language, and social and emotional development in children from birth through two. Students explore prevailing philosophies and theories of child development. Directed field experiences with children ages birth to two will help students to begin to understand the dynamics of early childhood environments and infant/toddler development.

BKED 302: Child Growth and Development II: Preschool and Kindergarten (3)
An overview of physical, cognitive/language, and social and emotional development in children ages three to five. Students will explore prevailing philosophies and theories of child development. Directed field experiences with children ages three to five will help students to begin to understand the dynamics of early childhood environments serving preschool and kindergarten children.

BKED 305: Early Childhood Literacy Development (3) (F)
Emphasizes the process of developmental literacy skills in children ages birth to kindergarten. The course is an in-depth experience providing students with the opportunity to recognize and describe the developmental stages in literacy acquisition. Participants identify factors that influence early literacy development (readiness, family, medical) and design a literacy program. Students examine different literary genres and themes appropriate to young children with an emphasis on resources for children of culturally and linguistically diverse backgrounds. Guidelines for the implementation of appropriate literature-based activities will be addressed throughout the course. Students present a professional development session (including session portfolio) for a selected audience.

BKED 325: Infant and Toddler Curriculum and Development (3) (F)
Emphasizes curriculum development and assessment from birth to kindergarten. This course introduces students to important frameworks for planning, implementing, and evaluating curriculum as it affects development and the various subject-matter disciplines. Significant details are placed on the methods and

strategies that inform the development of meaningful and relevant curriculum. Students engage in in-depth studies of developmentally appropriate curriculum modes. The course also examines the influence of family and culture on curriculum and provides models of how to incorporate these and other variables into a well-rounded curriculum.

BKED 330: Educational Assessment of Infants, Toddlers & Preschools (3) (S)
Addresses the acquisition of knowledge and skills related to the development, as well as the interpretation, of assessments used in Early Childhood Classrooms (infant, toddlers and preschool). Observing, documenting, and assessing young children (birth-five years) using formal and informal assessment tools across all areas of development is also addressed. Twenty-five hours of field experience is required. *Prerequisite(s): Admission to Teacher Education; an approved application form the Office of Student Services (all materials must be complete and on file.)*

BKED 335: Communication and Collaboration in Schools and Communities (3)
Promotes the ability to communicate effectively in diverse school and community settings. Students explore the relationship between culture and communication and understand the importance of collaboration in schools and communities to support optimal learning in children. *Prerequisite(s): Admission to Teacher Education; an approved application from the Office of Student Services (All materials must be complete and on file.).*

BKED 340: Early Childhood Intervention (3)
An overview of screening and assessment, interdisciplinary family service planning, and intervention strategies for children ages birth-three. Students become familiar with the processes of screening and assessment, development of Individualized Family Service Plans, and implementation of intervention strategies.

BKED 345: Exploration of Early Childhood Settings (3)
Explores the settings in which services are provided to children ages birth-five. Settings include public school programs, private childcare, federal programs, and community agencies. Students are required to observe in various settings for a minimum of 10 hours.

BKED 420: Preschool Curriculum (3) (F; S)
Emphasizes the planning of an integrated curriculum for child from birth to kindergarten to include preschool classrooms with emphasis on science, social studies, creative activities and technology. Focuses on planning integrated curriculum for working with parents and parent education. The course also explores theoretical principles of the play-based curriculum, which includes typical and atypical infant and child learning, design and adaptation of environments to promote development and learning, positive guidance, and effective teacher roles. Students learn how observation and analysis of children's play provide the foundation for curriculum development, meeting the needs of children with diverse backgrounds and abilities. *Prerequisites: Admission to Teacher Education; an approved application from the Office of Student Services (all materials must be complete and on file.).*

BKED 454: Inclusive Preschool Environments (3) (F; SS)
Uses task analysis and systematic instruction in individualization. Adapting, modifying, and evaluating curricula and methods, planning physical space appropriate to children's cognitive, physical, and socio-emotional development. Developing an understanding of the role of environments on children's learning and behavior including schedules, materials, room arrangement, and center-based learning. Incorporating diversity through the environment. This course also examines children in the context of the families in which they live to assist parents in determining appropriate educational plans from the preschool environment to transition to kindergarten. *Prerequisites: Admission to Teacher Education; an approved application from the Office of Student Services (all materials must be complete and on file.*).

BKED 455: Administration of Early Childhood Programs (3)
Focuses on the administration of early childhood programs as well as the educational requirements of the administrator and staff. Students will observe in an early childhood program for 10 hours and interview an early childhood administrator.

BKED 460: Issues and Trends in Early Childhood Education (3) (S)
Study of how knowledge in early childhood education is created, organized, and linked to other disciplines through a critical review of current literature and research. *Prerequisites: Admission to Teacher Education; an approved application from the Office of Student Services (All materials must be complete and on file.).*

BKED 465: Community Agencies and Resources (3)
Explores the purpose and function of agencies serving young children within the local community. Visits to local agencies will be made and a list of resources available to the early childhood community will be compiled.

BKED 470: Kindergarten Curriculum and Standards (3)
Introduces students to the kindergarten curriculum and standards for students in the public school setting. Twenty hours of field experiences are required.

BKED 490: Student Teaching (12) (F; S)
This supervised field experience requires at least 14 weeks of student teaching. Student teachers are placed with individual mentor teachers or with teams of supervising teachers in approved, public classrooms or clinical settings. Student teachers are monitored and supported by Elizabeth City State University Supervisors. Placement priority is given to settings that serve culturally, linguistically, and socio-economically diverse student populations. Professional Development Sessions are scheduled by the Office of Student Services prior to placement to address professional issues related to the clinical semester and to provide support and assistance with the completion of the required portfolio. *Prerequisites: Admission to Teacher Education; an approved application from the Office of Student Services (all material must be complete and on file.); Taskstream must be completed*.

BKED 491: Internship in Early Childhood (3)
Students will intern in an early childhood center. Knowledge gained through coursework will be applied to the early childhood setting.

BKED 492: Internship in Community Agency (3)
Students will intern in a community agency that serves children ages birth-five. Knowledge gained through course work will be applied to the community setting.

Special Education Course Descriptions

SPED 291/292/293: Independent Study (1, 2, 3)
Gives the candidate the opportunity for individual focused study or research under direction of a faculty member. The student must submit a research or study plan, which must be approved by the department chair. *Prerequisite: Consent of instructor*.

SPED 300: Assessing and Teaching Reading (2) (F)
Candidates learn to assess and teach beginning reading using research-validated strategies. Emphasizes phonemic awareness, phonic and structural analysis, vocabulary development, fluency, and comprehension. Co-requisite: SPED 301.

SPED 301: Reading Practicum (2) (F)
Candidates work individually with K-12 learners who are experiencing challenges in learning to read. They will implement the research-validated strategies that they learn in SPED 300 Assessing and Teaching Beginning Reading. Co-requisite: SPED 300.

SPED 334: Assessment in Special Education (3) (F, SS)
Provides students with a basic overview of standardized and teacher-constructed assessment tools. Class discussions emphasize the possible uses, application, underlying concepts, and issues associated with standardized and teacher-constructed tests. Acceptable methods of selecting, administering, and interpreting an array of tests will be addressed.

SPED 370: Introduction to Positive Behavior Support (3) (S)
Provides students with the knowledge and skills to conduct functional behavior assessments, develop and implement behavior plans based on results of those assessments, and utilize the principles of positive behavior support. Research-validated instructional strategies will be utilized to facilitate learning across the curriculum. *Prerequisite: Consent of Department Chair or Advisor*.

SPED 390/ELEM 390: Social Studies Methods in the Inclusive Classroom (3) (S)
Addresses major concepts in Social Studies, such as problem-solution-effect, multiple perspectives, and factors of group success. Students plan, modify, and adapt instruction that assumes a global perspective on content and calls for distinct and developmentally appropriate pedagogies for 21st century learning. Technology use will be required. *Prerequisite: Admission to Teacher Education*.

SPED 395: Science Methods in the Inclusive Classroom (3) (S)
Addresses major concepts in Science, utilizing scientifically-validated strategies to assist learners struggling in content area courses. Technology use will be required. *Prerequisite: Admission to Teacher Education*.

SPED 400: Methods of Assessing & Teaching Writing to Diverse Learners (2) (F)
Focuses on research-validated strategies in writing instruction. Concepts include: author versus secretary; writing process; writing workshops and peer-mediated instruction; embEd.D.ed mechanics instruction; and assessing writing using scoring rubrics. *Prerequisite: Admission to Teacher Education*.

SPED 430: Assessing & Teaching Mathematics to Diverse Learners (3) (S)
Candidates learn to assess and teach mathematics to diverse learners. Candidates provide multi-sensory instruction that moves from the concrete to the abstract and utilize formative assessment data (including error analysis) to make instructional decisions. A special focus will be on addressing underlying basic concepts while meeting grade level competencies. *Co-requisite: SPED 431. Prerequisite: Admission to Teacher Education*.

SPED 431: Mathematics Practicum (2) (S)
A 30-hour field experience in a K-12 setting in which candidates will implement strategies learned in SPED 430. *Co-requisite: SPED 430*.

SPED 450: Implementing Positive Behavior Support (3) (S)
This course builds on SPED 370. Candidates utilize their knowledge, skills, and dispositions to conduct Functional Behavior Assessments and to develop and

implement a Behavior Change Plan in the K-12 setting. *Prerequisites: SPED 370 and Admission to Teacher Education.*

SPED 460: Methods of Management & Organization (2) (F; S)
Putting it all together: developing interdisciplinary instructional units that include research-based strategies; managing the case load; organizing the resource room; and special education process and procedures from RTI to ITP. *Prerequisite: Admission to Teacher Education.*

SPED 461: Advanced Practicum: Secondary Schools (2) (F; S)
Candidates practice and implement the skills and strategies they learn in SPED 460 and 465. *Co-requisite: SPED 460 and/or SPED 465*.

SPED 465: Advocacy & Collaboration (2) (F)
Assists candidates to develop the leadership and communication skills required to be effective advocates of diverse students who struggle to successfully access the general curriculum. A special emphasis will be on post-secondary transitions. *Prerequisite: Admission to Teacher Education*.

SPED 491/492/493: Independent Study (1; 2; 3)
Provides the candidate the opportunity to engage in individual study or research under direction of a faculty member. The department chair must approve the study plan. *Prerequisite: Written consent of instructor*.

ELEMENTARY EDUCATION COURSE DESCRIPTIONS

ELEM 300: Reading & Language Arts (3) (F; S; SS)
A reading methods course examining research-based language arts frameworks that candidates will encounter in the elementary school. Candidates implement strategies that build upon their understandings of the reading research in phonemic awareness, phonic and structural analysis, and comprehension. Candidates will begin a major reading research project which will be considered as one of the required Evidences of Professional Competency. *Prerequisite: Admission to the Teacher Education Program and EDUC 250*.

ELEM 390: Social Studies Methods in the Inclusive Classroom (3) (S; M)
Addresses the following concepts in Social Studies: 1) culture and cultural diversity; 2) time, continuity, and change; 3) civic ideals and practices; 4) economic, scientific, and technological development; and 4) individuals, groups, and institutions. Students plan instruction that assumes a global perspective on content and calls for distinct and developmentally appropriate pedagogies for 21st century learning. Technology use will be required.

ELEM 395: Science Methods in the Inclusive Classroom (3) (S; M)
Addresses major concepts in the life, physical, and earth sciences: designing and demonstrating hands-on lesson plans and appropriate strategies to assist diverse learners. Candidates will demonstrate knowledge of inquiry-based science and effective use of science process skills. Technology use will be required.

ELEM 430: Mathematics Methods in the Inclusive Classroom (3) (F; M)
Mathematical assessment and instruction of diverse students, including numbers and operations, algebra, geometry, measurement, data analysis, and probability. Instructional approaches will include inquiry and direct instruction and will emphasize systematic presentation that moves from concrete to abstract and utilizes multi-sensory activities.

ELEM 431: Mathematics Methods in the Inclusive Classroom Field Experience (3) (F: S)
A 30-our supervised field experience. Students complete specific assignments and tasks and will keep a reflection journal throughout the course. *Prerequisites: 1) a criminal background check, 2) satisfactory dispositions evaluations, and 3) admission to the teacher education program*.

ENGINEERING TECHNOLOGY COURSE DESCRIPTIONS

See Course Listings under Technology.

ENGLISH COURSE DESCRIPTIONS

ENGL 200: Introduction to Literature (3) (F, S)
This is a course in the basics of literary genres (poetry, fiction, and drama) and literary analysis and research. Topics include literary devices and common research contexts. A sourced research paper is a part of this course.

ENGL 301: British Literature I (3) (F)
This survey course covers works from the Anglo-Saxon period to the beginning of the Romantic period. *Prerequisites: GE 201, 202 or GE 203H, 204H*.

ENGL 302: British Literature II (3) (S)
This survey course covers works from British Romanticism to the present. *Prerequisites: GE 201, 202 or GE 203H, 204H, ENGL 299*.

ENGL 303: Literary Criticism (3) (S)
An introduction to the schools of literary criticism important to English studies. *Prerequisites: GE 201, 202 or GE 203H or 204H, ENGL 299*.

ENGL 305: American Literature I (3) (F)
This survey course emphasizes the continuity of historical and cultural elements in the works of major American writers from the Colonial Period through 1865. *Prerequisites: GE 201, 202, or GE 203H, 204H, ENGL 299*.

ENGL 306: American Literature II (3) (S)
This course covers major American writers from 1865 to the present. *Prerequisites: GE 201, 202, or GE 203H, 204H, ENGL 299*.

ENGL 316: Introduction to Rhetoric and Composition (3) (F)

The history of classical rhetoric and its influence on the theories and practice of literary analysis and composition studies. *Prerequisites: GE 103, GE 201, GE 202*.

ENGL 317: Advanced Composition (3) (F; S; SS)
Principles and skills of composition are developed; understandings and competencies are refined. Extensive practice in writing of various types of expository compositions. Class discussion on analyses of student writings and literary models. *Prerequisites: GE 103 or GE 105H, ENGL 299*.

ENGL 319: Children's Literature (3) (F; S; SS)
Survey of world literature for children. *Prerequisites: GE 201, GE 202 or GE 203H, GE 204H, ENGL 299*.

ENGL 322: Advanced English Grammar (3) (S)
Study of modern English grammar. Analysis of current English usage and sentence patterns. Prerequisites: GE 103 or GE 105H, ENGL 299.

ENGL 327: History of the English Language (3) (F)
The development of English sounds, pronunciations, spellings, etymology, syntax, and usage, from Old English to the present. *Prerequisites: GE 201, 202 or GE 203H, 204H, ENGL 299*.

ENGL 336: Literature for Adolescents (3) (S)
Reading interests of adolescents. *Prerequisites: GE 201, 202 or GE 203H, 204H, ENGL 299*.

ENGL 399: Creative Writing (3) (S)
Laboratory course: short story, poetry, the formal essay, and/or drama writing. Student writings are read and criticized informally by members of the class. *Prerequisite: GE 103 or GE 105H*.

ENGL 401: Technical Writing (3) (S)
Fundamentals of English usage as essential criteria and background of modem technical writing. Exercises in the development of major types of technical reports are assigned. For practical application of the rhetoric of technical writing, students prepare several formal reports and complete reports related to their major. Oral presentations of written reports and technical materials are also assigned. *Prerequisites: GE 103 or GE 105H and Junior or Senior status*.

ENGL 411: New Literatures in English (3) (alternating S)
Studies the impact of the aesthetic, colonial, psychological, and discursive conditions of imperialism and colonialism in a postcolonial theoretical and literary perspective. *Prerequisites: GE 102, 103, ENGL 299*.

ENGL 425: Shakespeare (3) (F)
Selected Shakespearean plays and poetry in relation to the literary history and culture of the period. *Prerequisites: ENGL 299, 301, 302*.

ENGL 427: English Literature of the Renaissance
Poetry, prose, and drama (exclusive of Shakespeare) of representative authors studied against the background of historical and cultural forces shaping Renaissance thought. *Prerequisites: ENGL 299, 301, 302*.

ENGL 428: English Literature of the 18th Century
Poetry and prose (exclusive of the novel) of the eighteenth century. Emphasis on the triumph and decline of Neoclassicism and approach of Romanticism, with review of historical and cultural forces affecting both. *Prerequisites: ENGL 299, 301, 302*.

ENGL 429: English Literature of the 19th Century
Major writings of the nineteenth century (exclusive of novel). Triumph of Romanticism and Victorian Age studied against historical and social influences of the times. *Prerequisites: ENGL 299, 301, 302*.

ENGL 430: The British Novel (3) (F)
Development of the novel as a genre studied, in form and style, from seventeenth century to the nineteenth century. *Prerequisites: ENGL 299, 301, 302*.

ENGL 440: Bible As Literature (3) (S)
Introduction to the Bible as literature. Students read the major books of the Hebrew Bible (Old Testament) and the four Gospels, Acts, major Epistles, and Revelation in the New Testament. Rather than focusing on doctrine, the course accents aesthetic values in scripture. *Prerequisites: GE 201, 202 or GE 203H, 204H*.

ENGL 458: Black Writers in American Literature I (3) (F)
A survey course of Black American writers. Emphasizes genres, literary tempers, and major movements influenced by historical, social, literary, and cultural factors. Covers the Colonial American Period to Reconstruction. *Prerequisites: GE 201, 202, ENGL 299*.

ENGL 459: Black Writers in American Literature II (3) (S)
A continuation of the survey of Black American writers. Emphasizes the Post-Reconstruction to Post-modernist periods. *Prerequisites: GE 201, 202, ENGL 299*.

ENGL 465: Contemporary American Literature (3) (S)
Historical, social, literary, and cultural study of selected works by contemporary American writers. *Prerequisites: GE 201, 202 or GE 203H, 204H, ENGL 299*.

ENGL 466: The American Novel (3) (S)

The development of the American novel from the nineteenth century to the present. *Prerequisites: ENGL 299, ENGL 305, ENGL 306*.

ENGL 467: Modern British Literature (3) (Alternating years S)

Authors such as Conrad, Lawrence, Woolf, Yeats and Joyce. The literature of Britain, including Anglo-Irish writing, from the close of the Victorian age to the mid-twentieth century. *Prerequisites: ENGL 299, ENGL 301*.

ENGL 479: Special Studies & Research in Language and Literature (1-3) (F; S; SS)
Independent or small group study in selected areas of language or literature, culminating in an approved project or research paper. May be repeated up to six semester hours. *Prerequisite: Consent of Department Chair*.

ENGL 480: Junior-Senior Honors Project (3) (S)
Junior and Senior English majors who are Honors students may, with faculty approval, engage in creative, independent-study projects. Non-English majors who are Honors students may request permission to enroll in this course. Project work is conducted on or off campus; project presentations are made to the department. *Prerequisite: Junior or Senior Honors Program status and Department Chair's written consent*.

ENGL 495: Internship--English (F, S, SS)

An opportunity for students to work one-on-one with designated faculty to conduct research in the field of English Studies. *Prerequisites: Completion of five upper level courses*.

ENGL 498: Research Methods in English--Capstone (3) (S)
Examines practical and theoretical issues in finding and using sources for scholarly research in English. This course is compulsory for English majors. An academic paper of publishable quality and length (15 + pages) is required for assessment. *Prerequisite: Graduating Senior*.

ENGL 499: Capstone in Biblical Literature
Provides students with the opportunity to integrate the knowledge gained from the core and specialty areas of the Religious Studies minor. Successful completion of the Capstone in Biblical Literature involves the written presentation of a research project that demonstrates mastery of some aspect of Biblical literature. *Prerequisites: ENGL 441, 442*.

Environmental Science Course Descriptions

ENSC 101: General Environmental Science (3) (F; S; SS)
Critical examination of population, resources, and environment as they relate to the well-being of man. Comprehensive analysis and evaluation of environmental issues in terms of present and future generations of the world. Lecture: three hours. *Prerequisites: none*.

ENSC 101L: General Environmental Science Laboratory (1) (F; S; SS)
Analysis and experiments geared toward understanding the underlying principles involved in determining the health of the environment. Includes the analysis for common pollutants in water, air, and soil. Laboratory: (2) hours. *Prerequisites: suggested taken in conjunction with ENSC 101*

ENSC 440: Global Environmental Issues Seminar (3) (S)
Covers significant global environmental issues using case studies, debating and video conference format. Students assume "roles" of parties that have a stake in the outcome of issues that generally have no clear-cut solution and defend the position. The position is also defended through posting of position papers on electronic forums. Lecture: meets three hours; and video conference scheduled outside the formal meeting period as needed. *Prerequisites: GE 102, GE 103, and instructor written consent.*

Flight Course Descriptions

See Course Listings under Aviation Science.

Foreign Languages Course Descriptions

CHIN 101: Introduction to Chinese I

Students learn and master basic grammatical structure, in addition to being introduced to increasingly complicated forms of expression. Students will use Chinese at a basic introductory level after this course.

CHIN 102: Introduction to Chinese II

A continuation of CHIN 101. Students continue to learn and master basic grammatical structures, in addition to being introduced to increasingly complicated forms of expression. Students will use Chinese with greater regularity to communicate in class. *Prerequisite: CHIN 101*.

FL 479: Special Studies in Non-English Languages and Literature (1-3) (F; S; SS)

Topics may include linguistics, languages and/or textural analysis in original languages, translation/interpretation, and language development. May be repeated up to 6 semester hours. *Prerequisite: Written Consent of the Department Chair*.

FRENCH COURSE DESCRIPTIONS

FREN 101/102: Elementary French (3/3) (F; S; SS)
Basic grammar, punctuation, pronunciation, and reading for vocabulary building, cultural aspects, and conversation. Laboratory practice required of all students.

FREN 201/202: Intermediate French (3/3) (F; S)
Review of grammatical principles; development of reading, writing, and conversational skills. Reading and interpretation of selected works; introduction to aspects of French culture. Laboratory practice required of all students. *Prerequisites: FREN 101, 102*.

FREN 301/302: *Survey of French Literature (3/3) (F; S)
Great works of literature studied as representatives of French civilization and culture. *Prerequisites: FREN 201, 202 or advanced placement. *Recommended for students who anticipate graduate study requiring foreign language reading proficiency*.

LATN 101: Introductory Latin (3) (F,S)
This course introduces students to the basics of basic Latin vocabulary, syntax, and grammar, as well as translation skills from Latin to English and English to Latin.

LATN 102: Introductory Latin II (3) (F,S)
This course builds upon the concepts of vocabulary, grammar, and syntax taught in Introductory Latin I, and introduces students to more complex concepts such as the subjunctive mood, participles and infinitives, as well as more advanced readings and translations.

GENERAL EDUCATION COURSE DESCRIPTIONS

GE 122/122T: Freshman Seminar (1) (F; S; SS)
Assists students with adjustment to the University and provides them with both knowledge of and practice in the skills necessary for successful academic performance. Provides applications of skill development in note-taking, test-taking, textbook reading, study, time management, concentration, and listening. This course is required of all students and meets one 50-minute period per week.

GE English Course Descriptions

GE 102: English Composition and Grammar (3) (F; S; SS)
Emphasizes the development of basic and intermediate writing skills: Mechanics, sentence clarity, coherence, organization, and vocabulary. Special emphasis on revision in the writing process. Develops an understanding of the connection between writing and reasoning, writing and culture, and style and rhetorical contexts. Topics include narration, process analysis, argument, and oral presentations. Students write a minimum of fifteen pages, including at least one essay requiring research and documentation.

GE 103: English Composition and Vocabulary (3) (F; S; SS)
A continuation of essay writing. Emphasizes advanced academic writing assignments including cultural and societal analyses, persuasive writing, interpreting and evaluating literature, and writing in the workplace. Research methods and the development of a major research paper with appropriate documentation is a primary focus of the course. The course takes an interdisciplinary approach to writing and highlights the interrelationships among writing, reading, and critical thinking. A minimum of fifteen pages of written work is required.

GE 104H: English Composition and Grammar Honors I (3) (F)
Instruction in oral and written composition, correlated with a study of selected literary models. Special emphasis on experiences, assignments, and enrichment activities designed, by virtue of quality, depth, and scope, to challenge the academically talented student; anticipates a high level of proficiency and achievement in all areas of the language arts. *Prerequisites: Admission to the University Honors Program or by written consent from the Honors Program Director*.

GE 105H: English Composition and Vocabulary Honors II (3) (S)
A continuation of GE 104 in terms of correlation with literary models. Highlighting of a formal introduction to the literary genres, the basic critical approaches, creative experiences, and research skills — including the major systems of documentation — culminating in a major paper. *Prerequisite: GE 104H, or 102 by written consent of the Honors Program Director*.

GE 201/202: World Literature I, II (3/3) (F; S; SS)
Selected masterpieces of world literature read, discussed, and critiqued for their comments on life and the meaning of existence. Emphasizes genres and literary tempers (Classicism, Romanticism, Realism). Students are required to maintain satisfactory standards of written and spoken expression. *Prerequisite: GE 103 or GE 105H*.

GE 203H/204H: World Literature Honors Seminar I, II (3/3) (F; S)
A study of selected masterpieces of world literature with emphasis on the genres, tempers, and major literary movements. Opportunities for enrichment through special literary studies, in-depth research, independent study, creative writing, analytical thinking, and oral reporting. *Prerequisites: GE 104H, GE 105H, or written consent from the Honors Program Director*.

GE Math Course Descriptions

GE 109: Introduction to College Mathematics (3) (F; S; SS)
Reviews the fundamentals of algebra, including operations on real numbers, first-degree equations, and inequalities with applications, polynomials and exponents, rational expressions, rational exponents and radicals. Three contact hours per week. Mathematics/independent lab sessions will be scheduled by the specialists. Students are assigned based on the Mathematics Placement Test. A minimum grade of "C" is required. Course credits cannot be used to fulfill graduation requirements.

GE 111: Introduction to Computer Applications (formerly CSC 111) (3) (F; S; SS)
Introductory course for non-computer science majors about computers and how they work. Gives students hands-on experience with personal computers and productivity software. Applications covered include word processing, electronic spreadsheets, a database management system, and graphic presentation packages.

GE 114: Math for Liberal Arts (3) (F; S)
A survey course in mathematics for liberal arts students. Course covers an introduction to many topics including problem-solving, consumer mathematics, sets, algebra, geometry, probability, and statistics, voting methods and flaws of voting methods. STUDENTS MUST PURCHASE MATHXL FOR THIS COURSE.

GE 115: College Algebra (3) (F; S; SS)
Fundamental algebraic ideas; equations and inequalities, functions and graphs, linear and quadratic functions, and polynomial and rational functions. Emphasizes calculator and computer use and modeling of problems. *Prerequisite: GE 109 or Mathematics Placement Test*. STUDENTS MUST PURCHASE MATHXL FOR THIS COURSE.

GE 118: Precalculus (3) (F;S;SS)
Exponential and logarithmic functions, trigonometric functions, analytic trigonometry, trigonometric applications, and sequences and series. Emphasizes calculator and computer use and modeling of problems. *Prerequisite: GE 115 or Mathematics Placement Test*. STUDENTS MUST PURCHASE MATHXL FOR THIS COURSE.

GE Art Course Descriptions

GE 130: Art Appreciation (2) (F, S, SS)
Analysis of selected examples of major art works. Gives students an understanding of the purposes and historical roles of the visual arts in Western and Non-Western cultures.

GE 130H: Art Appreciation Honors (2) (F)
Designed especially for Honors Program students, offering opportunities for independent study, research, analytical thinking, oral reporting, and other special activities emphasizing the purpose and historical roles of the visual arts in Western and Non-Western cultures.

GE Music Course Descriptions

GE 135: Introduction to Music Literature (2) (F; S)
Study of elements of music and brief historical survey of musical style periods with discussion of major composers and types of compositions written in each. No previous musical knowledge assumed. Emphasizes listening.

GE 135H: Introduction to Music Literature Honors (2) (S)
A study of music in Western and non-Western cultures through selected masterpieces. Emphasizes perceptive listening by providing an introduction to the elements of music, a brief survey of historical periods in music, major composers, and the major genres from each period. Designed especially for Honors Program students, offering opportunities for enrichment through independent study, research, analytical thinking, oral reporting, and other special activities. No previous musical knowledge assumed. Emphasizes listening. *Prerequisite: admission to the University Honors Program or written consent from the Honors Program Director*.

GE History Course Descriptions

GE 140: History of World Civilization, Prehistoric to 1500 (3)
World Civilization from prehistoric times to the beginning of early modern times. Survey of political, economic, social, and intellectual history of major civilizations before the period of Western domination. Particular attention is devoted to ancient Egypt and Mesopotamia, ancient India and China, native cultures in the Americas, Islam at its height, Afro-Islamic kingdoms of West Africa, classical Mediterranean civilizations, medieval Europe, Renaissance, Reformation, and Age of Discovery. **This course will also include the use of technology, critical reading, critical thinking, and critical writing assignments.**

No Prerequisite.

GE 140H: History of World Civilization, Prehistoric to 1500, Honors (3)
World Civilization from prehistoric times to the beginning of early modern times. Survey of political, economic, social and intellectual history of major civilizations before the period of Western domination. Particular attention is devoted to ancient Egypt and Mesopotamia, ancient India and China native cultures in the Americas, Islam at its height, Afro-Islamic kingdoms of West Africa, classical Mediterranean civilizations, medieval Europe, Renaissance, Reformation, and Age of Discovery. **This course will also include the use of technology, critical reading, critical thinking, and critical writing assignments.** *No Prerequisite*.

GE 141: History of World Civilization, 1500 to the Present (3)
World Civilization from 1500 to the present. Survey of the political economic, social, and intellectual history of European, American, African, and Asian societies. Particular attention is devoted to the growth of nationalism, the age of revolution, new achievements in science and art, the effects of European colonialism on the indigenous peoples of Africa, Asia, Latin America, and the Middle-East, and the causes and results of the First World War, Second World War. **This course will also include the use of technology, critical reading, critical thinking and critical writing assignments.** *No Prerequisite.*

GE 141H: History of World Civilization, 1500 to the Present, Honors (3)
World Civilization from 1500 to the present. Survey of the political economic, social, and intellectual history of European, American, African, and Asian societies. Particular attention is devoted to the growth of nationalism, the age of revolution, new achievements in science and art, the effects of European colonialism on the indigenous peoples of Africa, Asia, Latin America, and the Middle-East, and the causes and results of the First World War, Second World War. **This course will also include the use of technology, critical reading, critical thinking and critical writing assignments.** *No Prerequisite.*

GE Geography Course Descriptions

GE 142: Introduction to Geography (3) (F: S: SS)
Study of basic terms and concepts in geography, study of maps with spatial variation. Study of the physical world and the forces that forged it. Patterns of weather and climate and their impact on vegetation, soils, and the distribution of the earth's resources. Review of human geography including population, culture, urbanization, and industrialization. *No Prerequisites.*

GE Physical Science Course Descriptions

GE 152: Principles of Physical Science (3) (F; S; SS)
Gives students some of the major basic concepts of physics, chemistry, astronomy, geology, and meteorology with particular emphasis on their relevant applications. Emphasizes the role of physical science in the framework of contemporary society. Lecture: three hours per week. *Co-requisite: GE 152L*.

GE 152L: Principles of Physical Science Lab (1) (F; S; SS)
Experiments are designed to help students learn laboratory skills and allow them to experience how scientific models are usually verified. Two hours of laboratory per week. *Co-requisite: GE 152*.

GE 152H: Principles of Physical Science Honors (3) (F)
Designed especially for students with high academic potential. Includes essential elements of system measurements, physics, chemistry, astronomy, and earth science. Challenge students to develop the spirit of scientific investigation and an appreciation for the physical universe. Lecture: three hours per week. *Co-requisite: GE 152L*.

GE Biology Course Descriptions

GE 155: Principles of Biological Science (3) (F; S; SS)
Introduction to the basic principles of modern biology with emphasis on aspects of human biology as applied to daily living. Lecture, three hours. *No Prerequisites.*

GE 155L: Principles of Biological Science Lab (1) (F; S;SS)
Basic laboratory experiences in biology that reinforce concepts introduced in the lecture. Laboratory, two hours.

GE Geology Course Descriptions

GE 158: Principles of Geological Science (3) (F; S; SS)
Study of the Earth and the composition of the earth's crust. Included are internal and external processes that account for geomorphological features and their characteristics, mountain-building forces, mineral and energy resources, and the earth's internal composition. Lecture, three hours. *No Prerequisites.*

GE 158L: Principles of Geological Science Lab (1) (F; S; SS)
Hands-on study of minerals; sedimentary, igneous, and metamorphic rocks; and understanding of geomorphological features using topographic maps and cross-sections. Laboratory, two hours. *Prerequisite or Co-requisite: GE 158*.

GE Physical Education Course Descriptions

GE 160: Basketball (1) (F; S)
Focuses on the essential skills and techniques of

basketball, as well as the fundamentals of the game. An elective course for the general student body that can be used to meet the Physical Education requirements in General Education.

GE 161: Dance (Elementary Modern) (1) (S)
Designed to develop creativity, strength, coordination, and flexibility through Modern Dance. Dance techniques, spatial relationships and design, dynamic and movement qualities are explored in order to enhance the student's understanding of dance as an art form. This is an elective course for the general student body that can be used to meet the Physical Education requirements in General Education.

GE 163: Golf (1) (F; S)
Designed to acquaint students with history, relevant terminology, and rules of golf. Equips the student with fundamental skills of scoring, playing, and strategies of golf. This elective course for the general student body can be used to meet the Physical Education requirements in General Education.

GE 164: Jogging (1) (F; S)
Assists students interested in developing a personalized conditioning program and better fitness for health through jogging. This elective course for the general student body can be used to meet the Physical Education requirements in General Education.

GE 168: Volleyball (1) (F)
Broadens the scope of knowledge about skills and techniques of the sport as well as to develop the spirit of fun, good fellowship, and sportsmanship. This course is open to all students. One semester hour of credit. This course can be used to meet the Physical Education requirements in General Education.

GE 169: Weight-Training (1) (F; S)
A controlled program of weight-training exercises for students interested in developing individualized programs for fitness and strength improvements. This course is a part of the General Education sequence and may be used to fulfill the Physical Education requirements.

GE 172: Badminton (1) (F)
Designed for beginning players. Covers beginning skills and knowledge that will enable one to be proficient in the game. This elective course for the general student body meets Physical Education requirements in the General Education Program.

GE 173: Swimming I (1) (F; S; SS)
Beginning swimming, elementary techniques, and safety procedures. Develops basic water safety skills and knowledge. This course or its equivalent is required of all Physical Education majors. This is elective course for the general student body can be used to meet the Physical Education requirements in General Education.

GE 174: Swimming II (1) (F; S; SS)
Provides an opportunity to develop skills in breath control, rhythmic breathing, survival floating, treading, changing positions, elementary backstroke, crawl stroke, diving, and underwater swimming. This elective course for the general student body meets the physical education requirements in General Education. *Prerequisite: GE 173 or instructor's written consent*.

GE 175: Intermediate Swimming (1) (F; S)
Provides opportunities to learn the elements of good swimming by providing a wide variety of strokes, treading, sculling, underwater swimming, and basic elements of rescue. This is an elective course for the general student body but a physical education requirement for majors. *Prerequisite: GE 174 or consent of the instructor*.

GE 180: Bowling (1) (F; S)
Develops skills in scoring, ball selection and grip, approaches, releases, methods of aiming, and the etiquette of bowling. This elective course for the general student body can be used to meet the physical education requirements in General Education.

GE 183: Beginning Tennis (1) (F; S; SS)
Familiarizes students with basic rules, regulations, and skills necessary to enjoy tennis as a recreational activity. Instruction includes proper grips, forehand and backhand strokes, and the serve. This elective for the general student body meets the physical education requirement for the General Education Program.

GE 184: Dance (Folk and Square) (1) (S)
Enhances the student's physical, cognitive, and social development through folk and square dance. History, terminology, and dance steps used in American square dance and international folk dance. This elective course for the general student body can be used to meet the Physical Education requirements in General Education.

GE 185: Health Concepts (2) (F; S; SS)
Basic knowledge and behavior change techniques which allow the student to make intelligent decisions related to health and wellness. The course is usually taken during the freshman year and is a required course in the General Education program.

GE 186: Exercise and Health-Related Fitness (1) (F; S)
Develops knowledge and skills toward the attainment of physical fitness through appropriate, regular exercise, nutrition, stress management, weight control, good posture, and body mechanics. This course is required of all Physical Education majors and is an elective course for the general student body that can be used to meet the Physical Education requirements in General Education.

GE 187: Intermediate Tennis (2) (F; S)
Develops a high degree of efficiency in advanced skills and strategies. Skill instruction includes volley, lob, drop, smash, and half-volley shots. Advanced students should know strategy and tactics for rallies, games, sets, and matches, along with developing single and double elimination tournaments. *Prerequisite: GE 183 or instructor's written consent*.

GE 191: Racquetball (1) (F; S; SS)
Develops the basic knowledge, skills, strategy, and safety practices of racquetball. Instruction includes lecture, demonstration, practice, and competition. This elective course for the general student body can be used to meet the Physical Education requirements in General Education.

GE 195: Outdoor Activities (1) (F)
Promotes knowledge and skills of contemporary recreational outdoor leisure activities such as hiking, orienteering, cycling, tubing and rafting, canoeing, and camping. Emphasizes noncompetitive activities suitable for participation throughout life. This course is required of all Physical Education majors. This is also an elective course for the general student body that can be used to meet the Physical Education requirements for General Education.

GEOGRAPHY COURSE DESCRIPTIONS

GEOG 201: World Geography (3) (F)

Surveys the social, economic, demographic, cultural, and physical elements of major geographic regions in the world. Serves students in different disciplines with various interests. Completion of this course gives the student an appreciation for the lifestyles of people in various regions of the world and an added awareness of the physical environments where these people live and work. *No Prerequisites.*

GEOG 204: Geography of the US and Canada (3)

This course surveys the social, economic, demographic, cultural, and physical aspects of major cities in the world. It focuses specifically on cities and urban development in North America, but it also considered cities in other regions of the developed world as well as cities in regions that are less developed. Completion of this course should give the student an appreciation for how cities originated and grow, their structure, and mobility between and among them. In addition, the course should benefit the student in terms of greater awareness of lifestyles and activities within urban environments. *No Prerequisites.*

GEOG 221: Cartographic Principles (3) (S)
Planning and construction of thematic maps for use in communicating the spatial relations of geographic and geologic information. Includes topographic, geographic, and thematic maps, and various grid location systems, computer printouts of data collections, and aerial photos. Elements of map design and introduction to computer mapping (GIS) are also covered. Lecture, two hours; laboratory, two hours. *Prerequisite: GE 142*.

GEOG 305: Economic Geography (3) (F)
A regional and systematic analysis of the principal economic production systems in the world, including: 1) present regional and global patterns of economic activities; and 2) explanations for the location of these activities. *Prerequisite: GE 142 or written consent from the Instructor or Department Chair*.

GEOG 308: Weather and Climate (3) (S)
Elements and principles of meteorology involved in understanding daily weather patterns with regional study of the world's climate controls and the relation between these factors. *Prerequisite: GE 142*.

GEOG 406: Geography of the U.S. and Canada (3)
The historical creation and expansion of North America from African, Asian, and European influences. Explores the contemporary geography of the continent, which includes cultural regions, economic characteristics, and political variations. Also includes the study of the continent's physical and human geography and the interactions between these two elements of the discipline. *Prerequisites: GE 142 and 9 hours of Geography courses*.

GEOG 409: Urban Geography (3)
The study of human interaction in urban environments including the ways in which people perceive, define, and behave in world cities and metropolitan areas. Cultural and social differences among ethnic and racial groups are discussed. Also reviews the city as a physical phenomenon, its historical growth patterns, and the consequences of this growth in various regions of the world. *Prerequisites: GE 142 and 9 hours of Geography courses*.

GEOLOGY COURSE DESCRIPTIONS

GEOL 110: General Oceanography (3) (S; SS)
Study of physical and chemical properties of the sea's water, tides and their causes, current and wave action, ocean environments, and configuration of the ocean floor. Lecture: three hours and one field trip to observe wave and tidal action.

GEOL 135: The Age Of Dinosaurs (3) (S)
A survey of the major dinosaur groups, including

origins, diversification, physiology, classification, life habits, and extinction theories. Also covered is a discussion of animals contemporary with the dinosaurs and the environment in which they all lived. Lecture: three hours.

GEOL 140: Introduction to Earth Science (4) (S)
An introductory course for non-science majors that surveys basic concepts in geology, oceanography, meteorology, and astronomy including laboratory exercises.

GEOL 142: Physical Geology (3) (F)
Introduction to physical aspects of the Earth and to factors responsible for shaping the earth, including internal and external forces. Lecture, three hours.

GEOL 142L: Physical Geology Lab (1) (F)
Laboratory includes techniques of identifying minerals and rocks, map interpretation, and field trips. Laboratory, two hours.

GEOL 143: Historical Geology (4) (S)
Study of Earth history through interpretation of sedimentary, metamorphic, and igneous rock sequences, tectonics, and fossils. Lecture, three hours; laboratory, two hours. *Prerequisite: GE 158 or consent of Chairperson.*

GEOL 331: Aerial Photo Interpretation
Methods and techniques used in gathering geological, environmental, physical, and political information from aerial photographs. Lecture, three hours. *Prerequisite: GE 158 or consent of Chairperson.*

GEOL 332: Geomorphology (3) (S)
Reviews the fundamental geomorphic principles that govern the development and modification of landforms. Lecture and lab, three hours. *Prerequisites: GE 158 or consent of Chairperson.*

GEOL 341: Mineralogy (3) (F)
Physical and chemical characteristics and crystal chemistry of minerals and their use and occurrence. Lecture, two hours; laboratory, two hours. *Prerequisites: GE 158.*

GEOL 342: Optical Mineralogy (3) (S)
Identification of minerals with the polarizing microscope using optical properties of minerals including index of refraction and birefringence, uniaxial, and biaxial characters. Lecture, two hours; laboratory, two hours. *Prerequisite: GEOL 341.*

GEOL 343: Sedimentology (3) (F)
Principles of sedimentology and sedimentation; analysis of depositional environments; mineralogy, textures, structures, and classification of sediments and sedimentary rocks. Lecture, two hours; laboratory, two hours. *Prerequisites: GE 158*

GEOL 344: Stratigraphy (3) (S)
Principles and methods of stratigraphy, including lithologic, seismic, and biologic methods. Interpretation of earth history through the study of layered sedimentary rocks. Graphic presentation of stratigraphic information. Lecture, two hours; laboratory, two hours. *Prerequisites: GE 158; GEOL 343.*

GEOL 345: Paleontology (3) (F)
Principles of paleontology and evolution, morphology, and classification of major groups of invertebrate fossils, including their use in correlation and identification of paleoclimates and paleogeography. *Prerequisites: GEOL 143 or MAS 421 or BIOL 101 or GE 155.*

GEOL 348: Hydrogeology (3) (F)
Sources, occurrence, movement, quality, and recovery of ground water. Investigation of aquifer systems, rock properties that regulate flow of ground water, contamination sources, and remediation techniques. Lecture, three hours. *Prerequisite: GE 158.*

GEOL 360: Principles of Geographic Information System (GIS) (4) (F)
The course includes learning the basic GIS operations, design, preliminary exposure to geographic data structures, and hands-on experiences with several GIS programs through exercises. Lecture and laboratory, four hours. *Prerequisites: CSC 111 or familiarity with computer usage.*

GEOL 365: Introduction to Remote Sensing and Digital Image Processing (4) (S)
Basic principles of remote sensing and image analysis using a computer system with the end result of producing a map. Discussed are the introduction and basic principles, electro-optical sensors and imagery obtained, data acquisition and image processing, geo-referencing, and terrain corrections. Lecture and laboratory, four hours. *Prerequisites: CSC 111 or familiarity with computer usage.*

GEOL 395: Individual Study in Geology (1-3) (F; S; SS)
Allows students to pursue specialized study in geology that is outside general course offerings. Students carry out reading assignments, do laboratory work, and participate in discussions with the instructor. *Prerequisites: Instructor's written consent.*

GEOL 440: Structural Geology (3) (S)
Analysis of earth's structure including folds, faults, joints, cleavage, fracture patterns, and petrofabrics. Structure of mountain systems and theories of mountain-building and plate tectonics. Lecture, two hours; laboratory, two hours. *Prerequisites: GE 118; GEOL 143.*

GEOL 441: Petrology (3) (F)
Fundamentals of igneous and metamorphic rock classification, identification, petrogenesis, and evolution. Microscopic and macroscopic (thin sections and hand specimens) study of rocks and evaluation of their minerals, structures, and textures in relation to their origin. Lecture, two hours; laboratory, two hours. *Prerequisite: GEOL 341.*

GEOL 442: Economic Geology (3) (S)
Origin, emplacement, structure, mineralogy, and petrology of metallic and non-metallic economic deposits and fossil fuels. Evaluation of economic and environmental factors for the development of resources. Lecture, two hours; laboratory, two hours. *Prerequisites: GEOL 341, 344, and 440.*

GEOL 444: Field Geology (3) (S)
Methods and techniques used in geological field investigations including geological mapping, preparation of subsurface cross-sections and maps; introduction to geophysical exploration techniques. A field trip is required. *Prerequisites: GEOL 143, 344, and 440.*

GEOL 446: Summer Practical Internship (6) (SS)
Minimum of six weeks of training in field geology including field techniques, data collection, interpretation, preparation, and report writing. *Prerequisites: GE 118; GEOL 332, 344, 440, 441, 444. The course requires expenses for the field trip. Students must see the Chairperson before enrolling in the course.*

GEOL 448: Practicum in Geology (1) (F, S)
Practical experiences in the teaching of freshman laboratories under faculty supervision. An elective open to those students expecting to go to graduate school and who have the approval of the Chairperson.

GEOL 449: Principles of Geochemistry (3) (S)
Topics covered include basics of major and trace element geochemistry, petrogenesis and mantle evolution, weathering and soil formation, geochemistry of ground and surface waters, geochemistry of pollutants, and petroleum and coal geochemistry. Lecture, three hours. *Prerequisites: GE 158, GEOL 341, 441; CHEM 101L, 102L.*

GEOL 461: Advanced Geographic Information System (4) (F)
An advanced GIS course with emphasis on students' individual projects. Laboratory complements lecture, and will be a hands-on study of the discussion above, but the course concentrates mainly on individual projects. Lecture and laboratory, four hours. *Prerequisites: GEOL 360 and 365.*

GEOL 496: Seminar in Geology (1) (F; S)
A review of all of the courses in the core areas of geology: physical, historical, mineralogy, petrology, sedimentology, stratigraphy, geomorphology, structural geology, paleontology, and field methods. This Capstone course is a requirement for graduating seniors in geology, and will serve as preparation for professional licensure. The course will integrate all of the fundamental concepts and skills that a geologist should have. Included will be problem solving, and other practical applications that will involve fieldwork. Lecture and field exercises: Three hours per week. *Pre-requisite: Senior Standing.*

GEOL 499: Research in Geology (1-3) (F;S;SS)
An introduction to the mechanics of scientific research with actual hands-on projects. Students must design the investigation; research the problem in the field, in the library, and the laboratory as called for; and submit a written report of research project. *Prerequisite: Open to advanced Geology majors with written consent from Department Chair (Six semester credit hours maximum.)*

GLOBAL STUDIES COURSE DESCRIPTIONS

***GLBS 200: Introduction to Global Studies (3) (F; S)**
Introduction to globalization and a broad range of cultural, economic, political, and social issues confronting the globalized world today. Examines the current structure of globalization. Thematic categories: culture and society, governance and conflict, and markets. Designed to capture principal dimensions of diverse and complex connections among nation-states, nongovernmental organizations, ethnicities, cultural and religious groups, and populations around the world. *No Prerequisites, open to all students.*

***GLBS 320: World Societies and Cultures (3) (F; S)**
A historical and cultural examination of Africa, Asia, the Middle East, the Americas, and Europe from 1650 to the present. Emphasizes the dynamic evolution of modern society by emphasizing religious, intellectual, economic, and political aspects of life and history. *Prerequisites: GE 140 and GE 141.*

HEALTH COURSE DESCRIPTIONS

HLTH 367: First Aid, CPR and Safety (3) (S)
First Aid, CPR and Safety provides essential information that leads to certification for administering emergency care. Certification is a departmental requirement. The course is offered to all students.

HLTH 369: Principles of Nutrition (S) (3)
Fundamentals of human nutrition, including the functions and essential nutrients necessary for optimum growth and the maintenance of physical and mental health. Open to all students.

HLTH 373: Health in the Elementary School (2) (F)
Required for Elementary Education majors (K-6). This course develops an understanding of the purposes and duties of the teacher in implementing a school health education program. It provides students with knowledge, methods, and materials necessary to teach Health in grades K-6.

HLTH 460: Contemporary Health Education (2) (F)
A review of the techniques and principles relevant to the study of current health issues and problems in today's society. Health education methods and materials, instructional strategies, and the selection of resource materials are emphasized. This course is required of all Physical Education majors. Open to all students.

HLTH 465: Drug Education (3) (S)
Study of social, psychological, and physiological aspects of drug use, misuse, and abuse. Open to all students.

HISTORY COURSE DESCRIPTIONS

HIST 200: Introduction to History (3) (F; S)
An introduction to the methods of historical research, historical terminology and historical theory with an emphasis on the use of technology in research and digitization, critical thinking, and critical writing. The portfolio for history majors is started in the sophomore year. *No Prerequisite.*

HIST 250: African American History to 1877 (3) (F; S)
Survey of African backgrounds of African Americans and the part they played in the exploration and development of America. Studies African Americans' relationships with the constitutional, political, economic, social, and cultural development of the United States to 1877. *No Prerequisite.*

HIST 251: African American History since 1877 (3) (S)
Survey of African Americans in America from the end of Reconstruction to the present. Examines constitutional, political, economic, social, and cultural developments related to the African American presence in America. Also included: the Diaspora. *No Prerequisite.*

HIST 255: American History to 1877 (3) (F; S; SS)
General political, constitutional, cultural, social and economic development of the United States from first contact with native cultures to the end of Reconstruction. This course utilizes active learning strategies such as Reacting to the Past to engage students in the learning process. *No Prerequisite.*

HIST 256: American History Since 1877 (3) (F; S; SS)
Continuation of HIST 255. Analysis of the political, constitutional, social, and economic growth of United States from 1877 to present. Emphasizes industrial development, economic depressions, the two World Wars, and social movements for equality as factors in American growth and development. This course utilizes active learning strategies such as Reacting to the Past to engage students in the learning process. *No Prerequisite.*

HIST 330: History of Christianity
Examines the history of Christianity, its stages of development, major themes, and significant historical events from the Apostle's Council in 48 through the present. *No Prerequisite.*

HIST 331: African-American Religion and the Church (3)
A thematic approach to the contributions of Africans and Christians to African American religions. Analyzes the role of religion in resisting oppression and racial injustice as well as the role of religion and the church. *Recommended prerequisite: HIST 250 or 251.*

HIST 332: Global Religion (3)
Studies the major religions of the world and takes a comparative approach to the examination of religion and its role in cultural, economic, and political development around the world. *Prerequisites: GE 140 and 141.*

HIST 341: Colonial American Studies in the Greater Atlantic World, 1492-1763 (3) (S, Odd)
Examination of the colonial American era in an Atlantic World environment, using an ethno-historical approach to assessing the origins and interactions of varying national and cultural groups (Native, European and African). The course examines how these groups affected the major events and environment of the American colonial period with an emphasis on North America. *Prerequisites: HIST 200 (for History majors), HIST 255 (for all majors).*

HIST 351: Early America: From Colonies to Early Republic, 1607-1815 (3) (S, Even)
The interactions of varying groups of people in British colonial America, including the exchange of cultures, political and economic views, and military conflicts. Follows the development of the colonies through the American Revolution to the development of the Early Republic, focusing on the cultural and political interchanges that combined to create the diverse society that existed at the onset of the Era of Good Feelings. *Prerequisite: HIST 200 (for History majors), HIST 250 or HIST 255 (for all majors).*

HIST 352: 19th Century America: Struggle of States Rights and Federalism, 1800-1877 (3) (F, Odd)
Studies the increasing sectionalism in America as regional interests, states' rights, and federalism alternately compromised and clashed politically and militarily. Focuses on the understanding of the differing causes and interpretations of the sectional and

political interests that led to Civil War. Students also study the Civil War and the resulting conflicted movements toward reunification and reconstructing the nation. *Prerequisites: HIST 200 (for History majors), HIST 250, or HIST 255 (for all majors)*.

HIST 358: The Making of Modern America: 1930-Present (3) (S)
American History from the Great Depression to World War II, Internationalism, the Welfare State, and the Cold War. Within this context students study modern social movements, liberalism and conservatism, and they consider current trends and topics in America. *Prerequisites: HIST 200 (for History majors), 256 or 251 (for all majors).*

HIST 361: History of American Foreign Relations since 1914 (3) (S)
U.S. foreign relations, primarily focusing on the period from World War I to the present. U.S. military, diplomatic, economic, and cultural involvement in world affairs. Much of the course deals with the two world wars, the Cold War, and the Persian Gulf War, with emphasis on Woodrow Wilson and Franklin D. Roosevelt's postwar plans and their impact on twentieth-century American foreign relations and beyond. Attention will be given to America's economic, ideological, and cultural influence aboard. *Prerequisites: HIST 200 (for History majors), HIST 256 (for all majors).*

HIST 376: History of North Carolina (3) (F; S)
General survey of political, economic, and social history of North Carolina. Problems of North Carolina's growth and development and their relationship to other southern states and to U.S. History. *Prerequisites: HIST 255*.

HIST 383: Ancient and Medieval Civilization (3) (F, Odd)
Examination of the historical development of the Western world from 800 B.C.E. to 1350. Topics include the political culture of the Greek city-state, the Roman republic and empire, feudalism, the rise of Christianity, the Norman Conquest, and the Black Death. *Prerequisites: GE 140, GE 141*.

HIST 384: The Birth of Modern Europe, 1350-1789 (3) (S, Even)
Examination of European history from the Italian Renaissance to the outbreak of the French Revolution. Topics include Renaissance art, exploration, the Reformation, absolute monarchy, the reign of Louis XIV, Russia, the English Civil War and Revolution, and the Enlightenment. *Prerequisites: GE 140, GE 141, (all majors), and HIST 200 (for History majors)*.

HIST 385: Modern European History 1789-1918 (3) (F, Even)
Examination of the social, political, intellectual history of Europe between the French Revolution and the end of World War I. Topics include the rise and defeat of Napoleon, liberalism versus conservatism, the social effects of the Industrial Revolution, and the growth of Nationalism, Marxism, Imperialism, and Militarism. *Prerequisite: GE 140, GE 141, (for all majors), and HIST 200 (for History majors).*

HIST 386: Europe Since 1918 (3) (S, Odd)
Examination of some of the major developments in Europe from the end of World War I to the present: rise of Fascism in Germany and Italy, the political careers of Lenin and Stalin, World War II, the Cold War, the birth of Solidarity, the rise to power of Gorbachev, the collapse of the Iron Curtain and the U.S.S.R., the reunification of Germany, and post-Soviet Russia. Emphasizes the origins of modern political crises. *Prerequisites: GE 140, GE 141, (for all majors) and HIST 200 (for History majors)*.

HIST 389: Oral History (3)
Methodology, application, and usage; historic and current literature; and identification and examination of available resources in the methods of documenting history through the use of interviews. *Prerequisite: HIST 200 (for History majors).*

HIST 395: Independent Readings in History (1) (2) (3)
Course requires student and faculty to develop reading list to be completed and analyzed by the student under faculty supervision. *Prerequisites: HIST 200, Junior or Senior status and Instructor*'s *written consent*.

HIST 396: Focused Research in History (1) (2) (3)

Requires a written research paper on a specific topic under the guidance of a faculty member of the department. The topic is determined in consultation with the faculty member under whose supervision the project is to be accomplished. The topic must be specified, in writing, by the student and must be approved by both faculty member and the department chair. *Prerequisites: HIST 200, Junior or Senior Status and instructor's written consent*.

HIST 397: Historical Methods and Historiography (3)
Trains History majors and Social Studies Education students in the approach and methods of the historian, emphasizing fundamentals of research and writing as well as the basic schools of historical thought. **Course includes use of technology. The portfolio is evaluated. Students will begin a major research paper to be completed in HIST 499.** *Prerequisite: Junior status, completion of HIST 200 with a "C" or higher.*

HIST 465: History of Modern Asia (3) (F)
Survey of the political, religious, social, cultural, economic, and intellectual development of Asia, in particular, China, Japan, India, and Southeast Asia. Special emphasis is on events taking place after 1850: the Meiji Restoration in Japan, the rise of the Indian

National Congress, Indian independence from the British Empire, the rise of Nationalism and Communism in China and Vietnam, World War II in Asia, the People's Republic of China postwar economic growth to the present. *Prerequisites: HIST 200 (for History majors), Junior Status; GE 140 and GE 141 (for all majors).*

HIST 473: Africa: Past and Present (3) (F)
Survey of geography, history, and present-day problems of Africa south of the Sahara. *Prerequisites: GE 140, 141, (for all majors), HIST 200 (for History majors), Junior status*.

HIST 475: History of the Middle East (3)
Survey of the political, religious, social, cultural, economic, and intellectual development of the Middle East. Special emphasis is on the role of Islam, the rise and fall of the Ottoman Empire, the role of oil, the origins of the Arab-Israeli conflict, and the history of terrorism. *Prerequisites: GE 140, GE 141 (for all majors), HIST 200 (for History majors), Junior status*.

HIST 477: History of Latin America (3) (F)
Origin and development of Latin American states from colonial times to present. European background: conquest and settlement; political, social, economic, and military aspects of causes of revolution; nature of political institutions and systems in the Latin American republics. *Prerequisites: HIST 200, (for History majors), Junior status; GE 140, GE 141 (for all majors).*

HIST 490: Internship in History (3) (6)
Can be offered as a three-hour course or a six-hour course. Student is placed in an internship by the instructor, working with an agency relating to public history. Student must complete 75 contact hours of engaged internship activities approved by the agency supervisor and the instructor. *Prerequisite: HIST 200 and with permission of Instructor.*

HIST 494: Special Topics in African American History (3)
A study of one or more selected historical topics in the Instructor's specialty of African American History. *Prerequisite: At least 12 hours of History courses for all majors, HIST 200 (for History majors).*

HIST 495: Special Topics in American History (3)
A study of one or more selected historical topics in the Instructor's specialty of American History. *Prerequisite: At least 12 hours of History courses for all majors, HIST 200 (for History majors).*

HIST 496: Special Topics in European History (3) (F; S)
A study of one or more selected historical topics in the Instructor's specialty of European History. *Prerequisite: At least 12 hours of History courses for all majors, HIST 200 (for History majors).*

HIST 497: Special Topics in World History (3)
A study of one or more selected historical topics in the Instructor's specialty of World History. *Prerequisite: At least 12 hours of History courses for all majors, HIST 200 (for History majors).*

HIST 498: Special Topics in African History (3) (S)
A study of one or more selected historical topics in the Instructor's specialty of African History. *Prerequisite: At least 12 hours of History courses for all majors, HIST 200 (for History majors).*

HIST 499: History Seminar (3) (F)
A continuation of HIST 397. It is the capstone course. Students complete the major research paper begun in HIST 397 that will demonstrate proficiency in historical research, critical thinking, critical analysis, historical writing techniques, use of appropriate technology; and presentation of research in the Program Research Day activities. The completed portfolio is due. History majors are required to earn a "C" or higher in this class to successfully complete the course. *Prerequisite: Senior status, successful completion of HIST 200 and HIST 397 with a grade of "C" or higher.*

JOURNALISM COURSE DESCRIPTIONS

JOUR 200: Broadcast Laboratory (1) (F; S; SS)
Hands-on experience at WRVS campus radio station. Laboratory setting where students work in area of special interest under supervision of a radio station staff member. Students meet with instructor by appointment to discuss work. Students design the semester's work with faculty approval.

JOUR 346: Journalism Laboratory (1) (F; S)
Practical laboratory for News Media Concentration students and staff members of student publications. Provides basic learning and direct application to school/college newspapers, particularly in writing, editing, layout, and production of *The Viking Times*, the university newspaper. May be repeated. *Prerequisite: Consent of the instructor*.

JOUR 347: Publications Laboratory (1) (F; S)
Practical laboratory for students at all academic levels. Provides basic learning and direct application to university/departmental publications. May be repeated. *Prerequisite: Instructor's written consent*.

JOUR 349: Mass Media (3) (F)
Introduction to the history, techniques, and psychology of mass media and their impact on society. *Prerequisite: GE 103 or GE 105H.*

JOUR 351: Journalism I (3) (F)
Basic elements of journalism, format of newspapers, and organization and writing of news and feature stories. *Prerequisite: GE 103 or GE 105H.*

JOUR 352: Journalism II (3) (S)
Study and practice of news writing, copy editing, proofreading, page makeup, type structure, headlining, and arranging of stories, and feature writing. *Prerequisite: JOUR 351 or Instructor's written consent*.

JOUR 449: Photojournalism (3) (S)
Covers basic and advanced techniques and principles of contemporary photojournalism, including film processing and printing, use of the camera, metering, action and sports photography, feature and spot news photography, use of the flash unit, and the photo essay. *Prerequisites: Photography I (ART 340) or equivalent experience, or instructor's written consent*.

JOUR 451: Broadcast Journalism (3) (F)
Develops the critical thinking and decision-making skills needed to identify, research and develop dynamic news and feature stories for radio and television broadcasting. Covers news judgment, advanced broadcast writing and scripting, interviewing techniques, and developing and utilizing sources within a variety of environments, including news beats, computer-assisted reporting, and investigative journalism. *Prerequisites: JOUR 351 and MCOM 350 or instructor's written consent*.

JOUR 499: Seminar Internship (3-6) (F; S; SS)
Supervised field experience in news media. Includes newspaper and broadcast journalism, seminar sessions, and independent study. *Prerequisite: Completion of News Media sequence or the Department Chair's written consent*.

MANAGEMENT COURSE DESCRIPTIONS

MNGT 221: Principles of Management (3) (F, S, SS)
Study of management principles that apply to all types of business, government, and nonprofit organizations with special emphasis on planning, organizing, leading, controlling, and working in teams. *Prerequisite: BUAD 115 with a C or higher*.

MNGT 321: Human Resource Management (3) (F, S, SS)
Introduction to fundamental theory and practices relating to interviewing, hiring, training, scheduling, placing, supervising, compensating, evaluating, promoting, and dismissing personnel. *Prerequisites: MNGT 221 with a C or higher.*

MNGT 322: Organizational Behavior (3) (F, S)
Emphasis on development of the understanding and knowledge of organizational settings. Instruction directed toward organizational behavior as a necessary ingredient of managerial effectiveness and understanding major theoretical and methodological approaches to studying behavior in organizations. *Prerequisite: MNGT 221 with a C or higher.*

MNGT 345: Leadership and Teamwork (3) (F15, then S)
Provides an understanding of the theory and practice of leadership in organizations, as well as the theory and practice of teamwork. Provides opportunities to expand leadership skills and learn more about working in and leading teams. *Prerequisites: MNGT 221, and MNGT 322, each with a C or higher.*

MNGT 398: Special Topics in Management (3) (F, S, SS)
Topics of special interest to business students may be offered, or in response to a request by a group of students for a specific course not otherwise available. The students conduct study of these topics as business electives. *Prerequisite: Junior or Senior standing and permission of the instructor and department chair*.

MNGT 421: Operations Management (3) (F, S, SS)
Principles and techniques underlying production and operations management. Topics include inventory/materials control, quality control, production methods and control, facilities, and supply chain management. These topics will be integrated using a systems approach to organizations' operations. *Prerequisites: ECON 260 or MATH 165 with a C or higher.*

MANAGEMENT INFORMATION SYSTEMS COURSE DESCRIPTIONS

BMIS 380: Management Information Systems II (3) (F, S)
Covers the theory and practice of Management Information Systems in today's digital, business organization. Applies case studies and teamwork in a variety of business problem situations. Emphasizes practical case studies involving real corporate MIS problem scenarios, teamwork, and application of business software to develop practical business solutions. MIS II is the second preparatory course toward the Microsoft Office Specialist Certification (MOSC) examination. *Prerequisites: BUAD 190, with a C or higher.*

BMIS 386: Business Systems Analysis and Design (3) (S)
Studies tools and techniques required for analysis, design, and implementation of business systems. It systematically describes entire life cycle of creating information systems, including requirements analysis, interface design, and management issues. It covers traditional System Development Life Cycle (SDLC) together with emerging development methods such as Agile and Object Oriented. *Prerequisites: BMIS 380 with a C or higher.*

BMIS 398: Special Topics in Management Information Systems (3) (F, S, SS)
Topics of special interest to business students may be offered, or if there is a request by a group of students for a specific course not otherwise available. The students conduct study of these topics as business electives. *Prerequisite: Business Administration major, junior or senior standing, and permission of the department chair.*

BMIS 475: Database Design and Management (3) (F starting F16)
Studies relational database architecture, design and implementation in the context of various organizations. Includes issues of data normalization, queries, programmable queries, and use of relational database technologies for building business-oriented applications. Students will also get hands-on experience with leading SQL and RDBMS tools currently popular in business and government settings. *Prerequisites: BMIS 380 with a C or higher.*

BMIS 485: Business Intelligence and Analytics (3) (F16, then S)
Studies ways in which enterprises can use data to make better decisions in different business functions. It provides introduction to different aspects of Business Intelligence and Analytics, including processes, methodologies, infrastructure, and current practices used to transform business data (including unstructured "Big data") into useful information to support business decision-making. *Prerequisites: BMIS 380 and ECON 260, each with a C or higher.*

BMIS 489: Project Management (3) (F, starting F16)
Lays foundation for understanding of project management concepts and principles. Prepares students to address challenges of managing business projects effectively through industry standard tools and technology. Covers key components including project integration, scope, time, cost, risk, and human resource management, and communications. Also prepares for Project Management Institute (PMI) certification. *Prerequisites: BUAD 190 or equivalent.*

Marine Environmental Science Course Descriptions

MAS 111: Introduction to Marine Sciences (3)
An introduction to the physical, chemical, geological, and biological processes of the ocean and interactions with adjacent waters, ocean environment, and configuration of the ocean floor. Lecture: (3) hours.

MAS 224: Marine and Coastal Resources (3) (F)
An introduction to the resources and economic potential of the marine and coastal environment. Topics include the search for and recovery of petroleum, metals, gemstones, bulk materials for construction, and agriculture and the ocean's biological wealth. Lecture three (3) hours.

MAS 226: Beach and Island Environments (3) (S)
Examines the marine processes to which these coastal ecosystems are constantly subjected. Explores the importance of these regions to the human population and delicate balance that is needed to achieve the sustainable development of these regions. Lecture three (3) hours.

MAS 330: Marine Geology (3) (F)
The formation and evolution of the world's ocean and coastal regions, focusing on their geologic setting and their responses to natural processes and human activities. Lecture three (3) hours. P*rerequisites: GE 155 or GE 158L.*

MAS 331: Marine Biology (3) (S)
Physical, chemical, and biological processes emphasizing adaptation of marine organisms. Lecture: (3) hours. *Prerequisites: BIOL 101, BIOL 102.*

MAS 333: Wetland and Ocean Chemistry (4) (S)
An overview of the various chemical processes that determine the environmental characteristics of wetland and ocean waters. Lecture three (3) hours; Lab two (2) hours. *Prerequisites: CHEM 101L; CHEM 102L.*

MAS 340: Field Internship (4) (SS)
Field work at an accredited facility such as a Marine Laboratory. *Prerequisites: MAS 331 and instructor's written consent.*

MAS 401: Global Geochemical Cycles (3) (F)
A seminar course evaluating the global geochemical cycle of carbon, nitrogen, water, and sulfur with emphasis on their impact of global climate. Lecture: (3) hours. *Prerequisites: CHEM 101L; CHEM 102L.*

MAS 402: Physical Oceanography (3) (S)
Physical processes of the oceans, the dynamics of waves, tides, current, and transmission of light and sound. Lecture (3) hours; Field Trips. *Prerequisites: MAS 331; PHYS 182L or PHYS 191L.*

MAS 420: Marine Vertebrates (3) (F)
Comparative physiology of marine animals with emphasis on responses of organisms to environmental factors. Lecture three (3) hours. *Prerequisite: BIOL 101, BIOL 102.*

MAS 421: Marine Invertebrates (3) (F)
Structure, function, and development of marine invertebrates. Lecture three (3) hours. *Prerequisite: BIOL 101, BIOL 102.*

MAS 422: Marine Microbiology (3) (S)
Morphology, reproduction, life history, and environment for the growth of benthic and planktonic marine life. Lecture: (3) hours. *Prerequisite: BIOL 101, BIOL 102.*

MAS 425: Independent Study (3) (S)
Prerequisite: At least junior level with written consent from the appropriate instructor.

MAS 433: Geological Oceanography (3) (F)
The geology of ocean basin, including origin, bottom physiography, sediment distribution, and sedimentary processes. Lecture: (3) hours; Field Trips. *Prerequisites: GE 158L or MAS 111 and PHYS 181L; PHYS 182L.*

MAS 440: Hydrology of Coastal Water (3) (F)
The discharge and current activity of coastal waters including estuaries, wetlands, and marine environment factors affecting water quality and ecological imbalance. Field oriented seminar course. *Prerequisite: CHEM 101L; CHEM 102L; MAS 331.*

MAS 441: Estuarine Environment (3) (F)
Chemistry, microbiology, and pollution of estuaries, wetlands, and marine coastal waters. Lecture three (3) hours. *Prerequisite: CHEM 101L; CHEM 102L; MAS 331.*

MAS 442: Coastal Urbanization and Land Use Planning (3) (S)
Review of the growth of the coastal urban areas, particularly North Carolina problems, practice, and policies of developing coastal urban area. Lecture three (3) hours. *Prerequisites: MAS 331and GEOL 331 or MAS 330; Field Trips.*

MAS 443: Coastal and Marine Conservation (3) (F)
Study of the resources found in coastal and marine waters; how human activities affect those resources; and the science and policies used to manage those resources. Lectures three hours. *Prerequisites: GE 158; GEOL 332 or MAS 331.*

MAS 450: Research in Marine Science I (1-3) (F; S; SS)
Directed research in marine science supervised by the faculty *(written consent of instructor).*

MAS 451: Research in Marine Science II (1-3) (F; S; SS)
Directed research in marine science supervised by the faculty *(written consent of instructor).*

MARKETING COURSE DESCRIPTIONS

MRKT 231: Principles of Marketing (3) (F, S, SS)
Survey of marketing organization and methods in the socio-economic system with discussion on pricing, promotion, production, distribution of goods and services, consumer problems, institutions, and methods and policies. *Prerequisites: BUAD 115 with a C or higher.*

MRKT 331: Advertising and Promotion (3) (F)
Studies promotions as persuasive communication. Examines promotion management and its relationship to the overall marketing program. Primary emphasis on advertising, sales promotion, personal selling, consumer and market information, message appeals, media selection and scheduling, and measuring effectiveness. *Prerequisite: MRKT 231 with a C or higher.*

MRKT 332: Consumer Behavior (3) (F; S)
Analysis of the social, cultural, and psychological factors influencing the behaviors of consumers. Special emphasis on behavioral patterns, market segmentation research, attitude formation and change, brand loyalty, adoption of innovations, and store choice decisions. *Prerequisites: MRKT 231 with a C or higher.*

MRKT 333: Sales (3) (F)
Covers the role and activities of the sales manager in modern marketing. Nature and importance of the selling function in organization, effective sales techniques, and managerial tasks of designing, developing, directing, and compensating sales force. Management activities include recruiting, testing, selection, training, motivation, compensation, and evaluation for effectiveness. *Prerequisites: MRKT 231 with a C or higher.*

MRKT 398: Special Topics in Marketing (3) (F, S, SS)
Topics of special interest to business students may be offered, or a request by a group of students for a specific course not otherwise available. The students conduct study of these topics as business electives. *Prerequisites: Business Administration major, junior or senior standing and the department chair's written consent.*

MRKT 365: Marketing Research (3) (F)
Students gain hands-on experience in the understanding and use of appropriate tools and techniques for analyzing, interpreting, and presenting information derived from marketing databases. Includes problem definition and solution approach to marketing research decisions. *Prerequisite: ECON 260 with a C or higher.*

MRKT 431: Retailing (3) (S)
Analysis of factors underlying successful operation of retail store including location and design, stock arrangement, buying and selling, advertising and display, merchandise planning and control, retail market and financial analysis, personnel management, customer relations, and non-store and service retailing. *Prerequisites: MRKT 231 with a C or higher.*

MRKT 432: Marketing Management (3) (S)
Studies the marketing function and its relationship to the total business organization and its environment. Emphasis is placed on the design of marketing strategies and systems. This is a case method course with readings from trade and academic journals to enhance understanding. Students learn application of

the tools of analysis and critical thinking to the strategic challenges marketers face. *Prerequisites: MNGT 221, MRKT 231 MRKT 332,and either MRKT 331, or MRKT 431, each with a C or higher.*

MASS COMMUNICATIONS COURSE DESCRIPTIONS

MCOM 250: Introduction to Broadcasting (3) (S)
An introduction to modern electronic media including radio and television, cable, home video, the Internet, and new media. Examines the historical foundations of broadcast media formats. Other topics include how media are regulated, ratings and audience feeD.B.A.ck, media effects, and the international media scene. *Prerequisite: GE103 or GE105H.*

MCOM 347: Mass Communication Theory and Research (3) (F)
Review of communication concepts and theories in communication research methodology. Introduction to theory construction, mass communication research, literature, and related research techniques. *Prerequisites: ENGL 317, MCOM 250.*

MCOM 353: Radio Production (3) (S)
Exposure to every facet of radio production. This course familiarizes students with the care and upkeep of production equipment and the proper way to use each piece of equipment in the studio. Students will be given various production assignments, beginning with simple tasks and progressing to intermediate and advanced assignments. *Prerequisite: MCOM 250.*

MCOM 354: Advanced Radio Production (3) (F)
Exposes students to a more technical level of radio production. This course begins where Radio Production 353 concluded. By mid-semester students will be able to perform all production tasks, including sound effects, hominizer techniques, and fully computerized production. *Prerequisite: MCOM 353.*

MCOM 355: Television Production (3) (F)
An introduction to the fundamentals of operating audio and video equipment in the studio. The course provides a basic understanding of the terms used and the crew position responsibilities in a studio setting. Operational skills are developed through several structured laboratory exercises. *Prerequisite: MCOM 250.*

MCOM 356: Advanced Television Production (3) (S)
Allows students to work individually and gain more in-depth knowledge of all phases of television production. Students learn the advanced features and functions of audio and video equipment, focusing on post-production activities that emphasize editing and graphics. *Prerequisite: MCOM 355.*

MCOM 357: Introduction to Public Relations (3) (F; S)
Introduction to the theories and practices of public relations, advertising and writing for public relations and advertising. *Prerequisite: JOUR 351.*

MCOM 358: Advanced Public Relations and Advertising (3) (S)
Advanced theory and practice of public relations and advertising development. Practical application of management to public relations and advertising techniques, strategies, and campaign development. *Prerequisite: MCOM 357.*

MCOM 359: Interactive Video (3) (S)
Introduction to visual and graphic communication in the print media involving perception, typography, picture editing, and basic computer skills. Techniques of editing video and writing for electronic publishing. *Prerequisite: JOUR 349.*

MCOM 360: Film Appreciation (3) (F; S)
An introduction to the appreciation of feature films, with concentrations on film genres and criticism. Emphasizes representative American films from the early 20th century to the present. Includes viewing representative films from various film genres and eras. *Prerequisites: MCOM 250 and JOUR 349, or instructor's written consent.*

MCOM 361: Television Appreciation (3) (F; S)
An introduction to the appreciation of feature television, with concentrations on genres and criticism. Emphasizes representative American television programming from the "golden age" of television of the mid-20th century to the present. Includes viewing representative television programs from various genres and eras. *Prerequisites: MCOM 250 and JOUR 349, or instructor's written consent.*

MCOM 400: Print & Broadcast Management (3) (F)
Provides detailed descriptions of job positions in the print and broadcast industry. Students tour print and broadcast facilities to learn about print and broadcast managers and how they do their jobs. Role-playing activities will demonstrate how managers handle particular situations. *Prerequisites: MCOM 350; MCOM 354; MCOM 356.*

MCOM 420, Genders of Popular Culture (3) (F)
This course will engage students with a range of feminist, queer, critical race, and Marxist media studies and cultural studies theorizations to consider the politics and functions of popular culture.

MCOM 450: Media Law and Ethics (3) (F)
Introduces First Amendment doctrines and issues that impact freedom of expression. While international standards and variations are also covered, the course focuses on applications of the law with respect to the challenges and responsibilities of the working journalist

in the U.S. *Prerequisites: JOUR 349, MCOM 250; MCOM 347.*

MCOM 479: Special Topics and Studies in Mass Communications (3) (F; S)
Advanced study and analysis in Mass Communication, including problems and case studies. This course features different topics and may be repeated for credit. *Prerequisites: JOUR 349; MCOM 250; MCOM 347; or instructor's written consent.*

MCOM 498: Internship (3-6) (F, S)
Supervised field experience in mass communication: television and radio broadcasting. *Prerequisite: Instructor's written consent.*

MCOM 499: Broadcast Seminar (3) (F, S)
Advanced study and analysis of broadcasting, including problems and situations involving management of a broadcast enterprise. Topics include legal and ethical questions, personnel matters, government regulations, programming, and sales. *Prerequisite: Graduating senior*

MATHEMATICS COURSE DESCRIPTIONS

MATH 121: Number Systems and Algebra (3) (F; S)
Designed for prospective elementary and middle school teachers. Emphasis on numeric and algebraic concepts, with applications to teaching. Topics include: sets; number systems and operations and properties of number; equations and inequalities; functions and graphs; appropriate use of technology; historical/cultural perspectives. *Prerequisite: Department Chair's written consent.*

MATH 122: Geometry and Data Analysis (3) (F; S)
A second course designed for prospective elementary and middle school teachers. Topics covered include: basic data analysis and statistics; measurement and problem in solving geometry; a study of geometric concepts and construction of geometric figures; logical arguments. *Prerequisite: Math 121.*

MATH 153: Applied Calculus (3) (F; S; SS)

Limits, differentiation, indefinite, and definite integrals with applications in business, economics, management, and behavioral sciences. The emphasis will be on an intuitive understanding gained from a graphical approach as opposed to a rigorous mathematical treatment. *Prerequisite: C or better in GE 118. STUDENTS MUST PURCHASE MATHXL FOR THIS COURSE*

MATH 165: Calculus of Single Variable I (4) (F; S)
Limits and their properties, differentiation, definite integrals, fundamental theorem of calculus, applications of derivatives and integrals and use of computational tool. *Prerequisites: C or better in GE 118. STUDENTS MUST PURCHASE MATHXL FOR THIS COURSE*

MATH 262: Discrete Methods (3) (S)
Sequences, summations, algorithm design and analysis including computational complexity, counting techniques, mathematical induction and recursion, recurrence relations/functions and recursive algorithms, combinatorics, graphs, trees, and applications. *Prerequisite: GE 118 Precalculus and CSC 114 Introduction to Computer Science. STUDENTS MUST PURCHASE MATHXL FOR THIS COURSE*

MATH 265: Calculus of Single Variable II (4) (F; S)
Techniques and applications of integration, indeterminate forms, Improper integrals, conic sections, parametric equations and polar coordinates, sequences, series, power series, Taylor's Theorem, and use of computational tools. *Prerequisite: MATH 165 or 3 and above score in AP Calculus AB exam. STUDENTS MUST PURCHASE MATHXL FOR THIS COURSE*

MATH 267: Calculus of Several Variables III (4) (F; S)
Vector algebra, and vector functions. Functions of several variables, partial derivatives, gradients, directional derivatives, maxima, and minima. Multiple integration and use of computational tools. *Prerequisite: MATH 265 or 3 and above score in AP Calculus BC exam. STUDENTS MUST PURCHASE MATHXL FOR THIS COURSE*

MATH 275: Foundations of Mathematics (3) (S)
Development of theoretical tools for rigorous mathematics; Topics include: proof techniques, sets, logic, functions, relations, countable and uncountable sets. Gives students an introduction to the major and to provide the basic knowledge, overview and foundation for the curriculum. *Prerequisites: MATH 165.*

MATH 345: History of Mathematics (formerly MATH 451) (3) (S)
A survey of the historical development of mathematics. The emphasis will be on mathematical concepts, problem solving, and pedagogy from a historical perspective. *Prerequisite: MATH 153 or MATH 165.*

MATH 350: Number Theory (3) (F)
Integers, numbers in other bases, primes, greatest common divisors and Euclidean Algorithm, Diophantine Equations, congruences, applications of congruences, Wilson's, Fermat's, and Euler's theorems, multiplicative functions, and continued fractions. *Prerequisites: GE 118.*

MATH 351: Linear Algebra (3) (F; S)
Systems of linear equations and matrix theory, finite dimensional vector spaces, and linear transformations.

Applications of linear algebra to social, biological, and physical sciences.
Prerequisites: MATH 153 or MATH 165.

MATH 352: College Geometry (3) (F)
A survey of topics in advanced geometry from three historical perspectives: synthetic, analytic, and transformational. Topics include advanced results in Euclidean geometry, axiomatics of Euclidean geometry, axioms and results in non-Euclidean geometry, an introduction to projective geometry, the use of coordinates, and insights gained from transformations. Use of Geometric Sketchpad software. *Prerequisite: GE 118.*

MATH 354: Abstract Algebra I (3) (F)
Binary operations, equivalence relations, groups, cyclic and symmetric groups, subgroups, Lagrange's theorem, homomorphisms and normal subgroups, factor groups, isomorphism theorem, and direct products. Prerequisite: MATH 275 and MATH 351

MATH 358: Differential Equations (formerly MATH 458) (3) (S)
Ordinary differential equations of first order, higher order linear equations, Laplace transform methods, and numerical solution of differential equations. Applications to physical sciences and engineering. of solution of ordinary differential equations of the first order and of higher orders. Applications of ordinary differential equations in physics, geometry, chemistry and biology. Use the computer for the numerical solution of differential equations. *Prerequisites: MATH 267.*

MATH 365: Exit Seminar for Juniors (2) (S)
This course is designed to review all junior-level mathematics courses. *Prerequisites: Junior standing or Consent of Department Chairperson.*

MATH 366: Complex Variables (3) (F)
Analytic functions, elementary functions, integrals, power series, residues, and conformal mapping. *Prerequisites: MATH 267.*

MATH 400: Operations Research Techniques (3) (S)
Linear and non-linear programming, decision-making under uncertainty, some models for networks, inventory management, and waiting lines. *Prerequisite: MATH 351 and STAT 251/STAT 351.*

MATH 450: Advanced Calculus (3) (S)
Vector Algebra, Differentiation and integration of vectors, scalar and vector field, line integral, Green's theorem, Divergence theorem, Stoke's theorem, and Fourier series. *Prerequisite: MATH 267*

MATH 452: Internship (3) (SS)
Students engage in supervised mathematics-related experience with academia, industry or government. Evaluation to be based on written reports by instructor. *Prerequisite: Internship offer, Junior standing, and consent of chairperson.*

MATH 454: Abstract Algebra II (3) (S)
Fundamental Theorem of Finite Abelian Groups, Sylow theorem and its application, introduction to rings and fields, ideals, factorization, extension of fields, automorphisms, and Galois theory. *Prerequisite: MATH 354.*

MATH 455: Elements of Real Analysis (3) (S)
Rigorous development of the real number system and the theory of Calculus on the real number line. Topics include: sequences and series, limits and continuity, the derivative, and the Riemann Integral. *Prerequisite: MATH 267 and MATH 275.*
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MATH 459: Special Studies/Seminars in Mathematics (1-3) (Upon Request)
Independent or small-group study in selected areas of mathematics, culminating in approved project or research paper. (This also may be used for organizing workshops or academic-year institutes for mathematics teachers of high schools and junior high schools.) These courses may be repeated. *Prerequisite: Consent of Department Chairperson.*

MATH 462: Mathematical Modeling (3) (F)
Basic techniques for model formulation and model analysis in physical phenomena, engineering applications as well as biological systems will be considered. The main focus is on modeling dynamical systems using differential equalities and a system of differential equations. *Prerequisite: MATH 358*

MATH 465: Exit Seminar in Mathematics (3) (F)
The Capstone course for Mathematics majors. Designed to give students the opportunity to demonstrate their accumulated knowledge, skills, and growth in the major. Review of upper-level mathematics topics culminating in an exit test. Written and oral report required. *Prerequisites: Senior standing.*

MILITARY SCIENCE COURSE DESCRIPTIONS

MIS 101: Basic Military Science I (2) (F, S)
Study of the mission of the Reserve Officers' Training Corps and an orientation to the organization and roles of the U.S. Army and the customs and traditions of the service, leadership, and basic first aid. One and one-half hours of Leadership Laboratory per week.

MIS 102: Basic Military Science II (2) (S)
Study of basic map reading, military correspondence, preventive medicine, and first aid. One and one-half hours of Leadership Laboratory per week.

MIS 201: Applied Leadership and Management I (2) (F)
Study of basic military skills, organization for teamwork, and practical application to develop leadership and management techniques. Emphasizes self-discipline, knowledge of military subjects, and development of military skills. One and one-half hours of Leadership Laboratory per week.

MIS 202: Applied Leadership and Management II (2) (S)
Study of Army leadership doctrine, oral and written communication, basic military skills, and practical application to develop leadership skills. Emphasizes self-discipline and application of military knowledge during realistic practical exercises. One and one-half hours of Leadership Laboratory per week.

MIS 236: Leader's Training Course (4) (SS)
Four-week summer course conducted at a military installation. Provides training in lieu of the Basic Course and is designed to qualify students for the ROTC Advanced Course. *Application for Leader's Training Course (LTC) must be submitted to the Department of Military Science.*

MIS 301: Leadership and Management I (3) (F)
Instruction in and application of military leadership, physical training, military training, and land navigation. One and one-half hours of Leadership Laboratory per week. *Prerequisite: Basic Course or equivalent credit*.

MIS 302: Leadership and Management II (3) (S)
Study of small-unit tactics, oral and written communication, advanced military skills, and practical application to develop leadership skills. Emphasizes teamwork, self-discipline, confidence, and application of leadership skills during realistic practical exercises. One and one-half hours of Leadership Laboratory per week. *Prerequisite: Basic Course or equivalent credit*.

MIS 303: U.S. Military History (3) (F, S)
Survey of American military history from 1759 to present. Study of the American attitude toward war, the European influence, civil-military relationships and the impact of technology on operations and tactics. May be taken by non-cadets for elective course credit without military obligations.

MIS 401: Advanced Leadership and Management I (3) (F)
Study of training management, Army officer professionalism and ethics, and the conduct of unit meetings and conferences to develop leadership and management techniques. Emphasizes the importance of prior preparation and self-confidence during realistic practical exercises. One and one-half hours of Leadership Laboratory per week. *Prerequisites: MIS 301, 302*.

MIS 402: Advanced Leadership and Management II (3) (S)
Leadership and management in the contemporary military environment, including oral communications, the administration of Military Justice, the rules of war, and an orientation to U.S. Army personnel support activities. Improves the student's ability to prepare effective staff studies, battle analysis, and briefings. Learn military commanders, strategies, and tactics. Leadership Laboratory periods continue to develop the practical experiences begun in earlier courses. *Prerequisites: MIS 301, 302, 401*.

MUSIC COURSE DESCRIPTIONS

MUS 015: University Basketball Band (0 or 1) (S)
The University Basketball Band fosters school spirit at basketball games and other athletic events. The Basketball Band is open to all interested instrumentalists at the university. Admission is by selection of the University Band Staff.

MUS 101: Student Recitals (0) (F; S)
Departmental student recitals give students an opportunity to perform for one another and the faculty. Performance Health and Recital Etiquette will be discussed. All students must perform at least once in a recital per semester. Students must successfully pass six semesters of Recital Attendance in order to graduate.

MUS 103: Aural Skills I (1) (F; S)
Develops ability in sight singing and music dictation, including recognition of intervals and rhythmic, melodic dictation. The course is taken concurrently with MUS 108: Music Theory I. *Prerequisite: Music Theory Placement Exam*.

MUS 104: Aural Skills II (1) (S)
A continuation of MUS 103, the course develops aural and visual techniques through ear training, dictation, and sight singing. The course is taken concurrently with MUS 109: Music Theory II. *Prerequisite: MUS 103*.

MUS 108: Music Theory I: Introduction To Functional Harmony (2) (F; S)
A brief review of the elements of music (notation, meter, and major and minor key signatures) leads to an introduction of the function of primary chords in a tonal context. Skills include analysis and composition of homophonic music using tonic, dominant, and subdominant harmony. The course is taken concurrently with MUS 103: Aural Skills I. *Prerequisite: Music Theory Placement Exam*.

MUS 109: Music Theory II: Diatonic Harmony (2) (S)
A study of two-voice counterpoint using a modified species technique develops an understanding of voice leading during the common practice period. The

second half of the course completes a survey of diatonic, functional harmony including triads built on all scale degrees and the dominant seventh chord. Skills include analysis and composition of music using all course materials. The course is taken concurrently with MUS 104: Aural Skills II. *Prerequisite: MUS 108*.

MUS 110: Piano Class for Beginners I (1) (F; S)
Group instruction in beginning piano for music majors whose principal performing medium is voice, or an orchestral or band instrument. Sight-reading and improvisation are included. This course is open to all majors.

MUS 111: Piano Class for Beginners II (1) (F; S)
Group instruction in Class Piano II is for music majors whose principal performing medium is voice, or an orchestral or band instrument. Sight-reading and improvisation are included. Continuation of the skills introduced in MUS 110.

MUS 112: Piano Class for Beginners III (1) (F)
Group instruction in Piano Class III is for music majors whose principal performing medium is voice, or an orchestral or band instrument. Sight-reading and improvisation are included. Continuation of the skills introduced in MUS 111. *Prerequisite: MUS 111 or consent of instructor*.

MUS 113: Piano Class for Beginners IV (1) (S)
Group instruction in Piano Class III is for music majors whose principal performing medium is voice, or an orchestral or band instrument. Sight-reading and improvisation are included. The final exam in the course is the keyboard proficiency exam for non-piano majors in the Music Education Licensure Program. *Prerequisite: MUS 112 or instructor's written consent*.

MUS 115: Introduction to the Recording Studio (3) (F)

Provides an insightful look into modern record production. Students are exposed to recording technology history and current careers. Classes are primarily lecture-oriented with some hands-on experience in the on-campus professional 24-track recording studio. No previous knowledge of audio recording is required.

MUS 116: Introduction to Music Industry Studies (3) (F)
Examines the overall function and structure of the music industry. Topics include the business of music, creative rights, publishing, music licensing, music law, arts management, concert promotion, record companies, and marketing. Corresponding activities may include advertising, jingle production, and film music as it pertains to the music industry. Open to all majors.

MUS 118: Music Theory Rudiments I (1) (F; S)
An introduction to the fundamental materials of music theory, including an introduction to music notation, including pitch identification in various clefs, major and minor key signatures, as well as melodic intervals, triads, and meter.

MUS 120: Introduction to Music Education (1) (F)

An orientation to the field of music education. It is a prerequisite to EDUC 428 and EDUC 429. This course explores the history of music education, careers in music education, and philosophical trends in the field. Students examine the roles of a music teacher; the role and importance of music in society; music advocacy; professionalism of the music educator; music curricula; basic music learning processes; and preparation for Praxis I. Students are expected to demonstrate critical thinking as it relates to the evolution of their personal philosophies regarding music education.

MUS 123: Voice Class (1) (S)
A one-semester course instructing singers with little or no formal training in the development of fundamental principles and techniques of singing. Emphasizes correct posture, consistent breath control, a free, yet ringing tone, and diction that is clear and articulate through the performance of selected literature.

MUS 125: Music Technology (2) (S) (Music Majors Only)
Technology and MIDI applications including sequencing are introduced; topics include the MIDI language, early synthesizers and the fundamentals of sound synthesis, oscillators, envelope generators, digital synthesizers, and drum machines. Hands-on experiences take place in the music theory lab. *Prerequisites: MUS 111, MUS 115*.

MUS 126: Voice Diction (1) (F)
Required of all vocal majors in the music education licensure program and in the performance concentration. Discussion and practice focus on the fundamentals of correct pronunciation and enunciation for singing in English, Italian, German, and French, utilizing the International Phonetic Alphabet. In-class performance of selected literature is required.

MUS 200: University Marching Band (0 or 1) (F)
This course develops instrumental pedagogy and performance skills of students within the marching band setting. This course will emphasize music and marching maneuvers with a difficulty level of 3 and above. This course is open to students in all majors. Seven contact hours. *Prerequisite: Successful audition before the university band staff*.

MUS 201: University Concert Band (0 or 1) (S) (Offered on Demand)
A continuation of MUS 200 during the spring semester with emphasis placed on the study of light standard

band repertoire and the enhancement of students' musicianship. *Prerequisite: Successful audition before the university band staff.*

MUS 202: Arts Management (3) (S) (Music Majors Only)
A study of Arts Management, Presentations, and Research Techniques in preparation for the Senior Project. Topics include development, the professional management of arts organizations, foundations, arts education presentations, and research. *Prerequisites: MUS 116, MUS 208.*

MUS 203: Aural Skills III (1) (F)
A continuation of MUS 104, adding chromatic lines, modulation and more complex rhythms. It is taken concurrently with MUS 208: Music Theory III. *Prerequisite: MUS 104.*

MUS 204: Aural Skills IV (1) (S)
The course concludes the aural skills sequence, emphasizing more difficult rhythmic and melodic patterns and harmonic dictation. *Prerequisite: MUS 203.*

MUS 208: Music Theory III: Chromatic Harmony (2) (F)
A study of part-writing using chromatically altered chords of the common practice period, the course examines substitutiary harmony, borrowed chords, secondary dominants, augmented sixth chords, and modulation. Includes analysis and composition of music using the course materials. It is taken concurrently with MUS 203: Aural Skills III. *Prerequisite: MUS 109.*

MUS 209: Music Theory IV: Chromatic And Post-Tonal Music (2) (S)
Encompasses analysis and composition of music using techniques first developed in the 20th century, including extended and non-functional tertian harmony, exotic scales and modes, polytonality, quartal harmony and serialism, and an exploration of alternative systems of analysis. *Prerequisite: MUS 208.*

MUS 210: Brass Ensemble (0 or 1) (F; S)
The study and performance of chamber music for combinations of brass instruments.

MUS 211: Jazz Theory (2) (S) (Offered on Demand)
Exploration of contemporary diatonic and chromatic chord progression and root motion found in current popular music styles. Focus is on Chord Symbols and Roman Numeral analysis, and principles of chord progressions and linear harmonic continuity. Substitute dominant chords, modulations, and blues progressions. Diminished chord patterns and appropriate substitutions are also examined. *Prerequisites: MUS 108, MUS 109, MUS 208.*

MUS 212: The African American in Music (2) (F; S; SS) (Open to All Majors)

Emphasizes U.S. composers and performers, with a focus on the development and contributions of African American music from the 17th through 21st centuries. Covers the study of spirituals, folk music, ragtime, blues, gospel, jazz, rhythm and blues, rock and roll, and rap/Hip-Hop music.

MUS 220: Woodwind Ensemble (0 or 1) (F; S)
The study and performance of chamber music for combinations of woodwind instruments.

MUS 221: String Chamber Ensemble (1) (F; S) (Offered on Demand)
A study and performance of string chamber ensemble literature. *Prerequisite: Consent of the instructor.*

MUS 230: Percussion Ensemble (0 or 1) (F; S)
The study and performance of chamber music for combinations of percussion instruments.

MUS 231: String Class (1) (F)
Focus is on techniques used in teaching orchestral stringed instruments, including playing and pedagogical techniques appropriate for young players, methods, materials, history, maintenance, and repair. *Prerequisite: Instructor's written consent.*

MUS 240: Collegians (Jazz Ensemble) (0 or 1) (F; S)
The Collegians Jazz Ensemble is the university's big band musical ensemble dedicated to performing and experiencing jazz. The repertoire includes standard and contemporary jazz literature and provides opportunities for students to learn to improvise. Guitar music majors must take Collegians Jazz Ensemble as part of the large ensemble requirement. Performances occur on and off campus. *Prerequisite: By audition only and by permission of instructor.*

MUS 254: Audio Engineering I (2) (F) (Music Majors Only)

Study of recording fundamentals, including the acoustics of sound, microphone design and placement, signal processing, audio console theory, digital signal processing, and basic mixing techniques. Students use the on-campus professional recording studio and music theory lab for individual projects and assignments. *Prerequisites: MUS 115, MUS 125.*

MUS 255: Audio Engineering II (2) (S) (Music Majors Only)

Critical listening and multi-track recording techniques such as studio and console set-up, tracking, overdubbing, and mixing will be developed. Students use the on-campus professional recording and music theory lab for individual projects and assignments. Prerequisites: MUS 115, MUS 125, MUS 254.

MUS 260: Orchestra (0-1) (F; S)
The ensemble studies and performs works

representative of a broad spectrum of string orchestra and symphonic orchestra literature. Participation by string majors is required. *Prerequisite: Audition only and by instructor's written consent*.

MUS 301 Junior Recital (1) (F; S)

The final performance requirement for the B.A. in music; Education and Performance majors perform recitals, Composition and Industry Studies students present a creative project that emphasizes the organization of musical ideas into logical homogeneous forms. *Prerequisite: Senior status; Department Chair's written consent and/or Applied Instructor*.

MUS 300: University Choir (0 or 1) (F; S)
A mixed ensemble designed to instill innovative thinking and leadership through the study and performances of diverse choral literature. The ensemble promotes cooperative group effectiveness and utilizes repertoire techniques aimed primarily at performances on and off campus. Five contact hours. *Prerequisite: By audition only and by instructor's written consent*.

MUS 305: Music History I - Early through Classical (3) (F)
A survey of developments in Western Art Music from its early beginning through 1825. Includes study of styles, forms, contributions of major composers, extensive in-class listening, and study of scores. *Prerequisite: MUS 108 or permission of Chair*.

MUS 306: Music History II - Classical to Contemporary (3) (S)
Traces the development of the major forms/genres from 1825 to present, through study of major European and American composers and representative pieces. An introduction to avant-garde techniques as well a variety of music representing various cultures. *Prerequisite: MUS 108 or Department Chair's written consent.*

MUS 307: A Study of Non-Western Music (1) (F) (Open to all Majors)
An introduction to the music and characteristics of non-western music. Music in various cultures will be explored. *This course is open to all majors.*

MUS 308: Tonal Counterpoint (3) (F)
An analysis of contrapuntal writings of the outstanding composers of the 18th century, especially J. S. Bach leads to the distillation of appropriate rules for contrapuntal writing. Involves the writing of counterpoint for two and three voices. *Prerequisite: MUS 208*.

MUS 309: Form And Analysis (3) (S)
Presents methods to analyze the structure of various classical forms in music delineated by harmonic, contrapuntal and textural characteristics. Students write music using a predefined form as the central pre-compositional tool. *Prerequisite: MUS 208*.

MUS 310: Choral Ensemble (0 or 1) (F; S)
This small ensemble is required of all vocal performance majors and is devoted to vocal performances on and off campus. This ensemble will focus on Patriotic, Broadway, Jazz and Gospel literature. Three contact hours. Prerequisite: Open by audition.

MUS 312: Orchestration (2) (F or S)
Study of the art of writing for the orchestra and various instrumental ensembles. Focuses on the instruments, ranges, transpositions and clef notation, timbre, technical limitations, special effects, and the art of combining instrumental colors. Studies include vocal/instrumental arranging, score reading, and transcription. *Prerequisite: MUS 208*.

MUS 319: Music Merchandising & Marketing (3) (F) (Music Majors Only)
Covers the techniques and methods of salesmanship and marketing. Focuses on an in-depth examination of the principles of successful music manufacturing, marketing, planning, budgeting, retailing, promoting, and inventory selection. *Prerequisite: Junior status, MUS 202, 209*.

MUS 321: Music Multimedia Applications (2) (S)
An introduction and overview of the creation of multimedia projects for digital presentations. Students will be introduced to sound design for radio, foley studios, automatic dialogue replacement (ADR), sound effects for video, spotting cues, video editing and DVD creation, and synchronization. *Prerequisite: MUS 215, MUS 225 or the instructor's written consent*.

MUS 322: Chamber Music Literature for Strings (1) (F; S) (Open to all Majors; Offered on Demand)
An historical study of chamber music literature for strings alone, strings with keyboard, and strings with other instruments from Baroque through the contemporary. *Prerequisite: Instructor's written consent*.

MUS 338: Conducting (1) (S)
Basic technical problems involved in conducting and interpreting instrumental and choral music are explored. Practical experiences are provided. *Prerequisite: MUS 208 or consent of Department Chair*.

MUS 345: Brass Class (1) (S) (Music Majors Only)
Focuses on brass pedagogy for young players. Topics may include performance, methods, materials, history, maintenance, and repair. *Prerequisite: Instructor's written consent*.

MUS 346: Woodwind Class (1) (F) (Music Majors Only)
This course examines the technique of teaching woodwind instruments, including playing and pedagogical techniques appropriated for young players, methods, materials, history, maintenance and repair.

MUS 347: Percussion Class (1) (F) (Music Majors Only)
The techniques of teaching percussion instruments, including playing and pedagogical techniques appropriate for young players, methods, materials, history, maintenance, and repair.

MUS 357: String Pedagogy (1) (F; S) (Music Majors Only; Offered on Demand)
A study of current and historical pedagogy concepts, materials, and techniques for teaching beginning through advanced string students in a private studio setting. *Prerequisite: Department Chair*'s *written consent.*

MUS 360: Digital Audio Technology (2) (F) (Music Majors Only)
The principle of digital audio and its application in the current recording industry is discussed including digital audio fundamentals, recording and reproduction systems, and digital media encompassing compact disc, optical disk, mastering software and digital interfaces. *Prerequisites: MUS 125 and MUS 254.*

MUS 400: Senior Recital/Project (1) (F; S)
This is the final performance/project requirement for the B.A. in Music. Education and Performance majors perform on recitals, and Composition and Industry Studies students present a creative project that emphasizes the organization of musical ideas into logical homogeneous forms. General (Liberal Arts) music students may perform on a recital or present a project. *Prerequisite*: *Senior status; Department Chair and/or Applied Instructor's written consent*.

MUS 401: University Symphonic Wind Ensemble (0 or 1) (F; S)
The University Symphonic Wind Ensemble is a select ensemble of musicians, dedicated to a rigorous curriculum, excellent performances and diverse repertoire encompassing a wide variety of styles and composers. Membership is determined by audition and is open to all majors. Six contact hours.

MUS 417: Music Industry Internship (3) (F; S; SS) (Music Majors Only)
A six-week internship in the music industry studies field. *Prerequisite: Senior status, the Music Industry Studies Instructor and the Department Chair's written consent*.

MUS 428: Piano Literature (1) (Offered on Demand)
Composers, forms and styles of literature for piano and its ancestors from 17th century to present are studied. Audiovisual experiences are provided. *Prerequisite: MUS 306 or Department Chair's written consent*.

MUS 429: Piano Accompanying (1)
Techniques in the art of piano accompanying. Practical experiences in sight-reading and transposition along with accompanying soloists and various combinations of voices are examined. May be repeated for credit.

MUS 430: Piano Pedagogy (1)
Emphasizes piano teaching problems and methods and materials used in teaching the instrument. Practical experiences in giving piano instruction to pupils at various levels of advancement are included.

MUS 431: Music Business Seminar (3) (F) (Music Majors Only)
An advanced practicum that examines principles and practices of the music business. Topics include copyright, publishing, licensing, royalties, artist management, venue management, concert promotion, production and practices associated with the arts, including board development, fund raising, and grant writing. Prerequisites: MUS 116, MUS 202, MUS 319.

MUS 435: Special Topics in Music Education (1-2) (F; S; SS)
This course focuses on one or more chosen music topics in Music Education. *Prerequisites: Junior or Senior status; consent of Department Chair*.

MUS 436: Special Topics in Music Business (1-2) (F; S; SS)
This course focuses on one or more chosen music topics in Music Business. *Prerequisites: Junior or Senior status; Department Chair's written consent*.

MUS 437: Special Topics in Sound Recording Technology (1-2) (F; S; SS)
This course focuses on one or more chosen music topics in Sound Recording Technology. *Prerequisites: Junior or Senior status; Department Chair's written consent*.

MUS 438: Special Topics in Music with Emphasis in Performance (1-2) (F; S; SS)
This course focuses on one or more chosen music topics in either Performance. *Prerequisites: Junior or Senior status; Department Chair's written consent*.

MUS 439: Special Topics in Music with Emphasis in Composition (1-2) (F; S; SS)
This course focuses on one or more chosen music topics in Composition. *Prerequisites: Junior or Senior status; consent of Department Chair*.

MUS 440: Independent Study (1-3) (F; S; SS) (Music Majors Only)
Individual study or research under the guidance of a music faculty member is required. The Department Chair must approve the study plan. *Prerequisite: Senior Status*.

MUS 446: Instrumental Techniques and Conducting (1) (F)

Addresses methods of directing ensemble management, pedagogical practices and selection of literature and materials. Conducting experiences are provided. *Prerequisite: MUS 338.*

MUS 447: Choral Techniques and Conducting (1) (F)
A cappella and accompanied literature for youth and adult choirs are examined. Conducting, styles and

interpretation, development of tone, vocal problems, rehearsal procedures, and program building are discussed. Practical experiences are provided. Prerequisite: MUS 338.

MUS 454: Studio Production Seminar (2) (F) (Music Majors Only)
An advanced studio practicum integrating student-recording projects with discussion on advanced audio production techniques, audio and video production, and critical reviews of recordings from the 1940s to present day. Students plan, organize, budget, produce, and engineer a recording project. Emphasizes meeting current industry standards in artistic and technical proficiency. A studio project is required. *Prerequisite: MUS 254, MUS 255*.

MUS Ensemble: (Small or Large) (1)

Participation in all musical ensembles is by audition only. Ensembles may be repeated for credit.

MUSA 011 through MUSA 094 Applied Music for Non-Music Majors (1) (F, S)
Private instruction for the following instruments: piano, voice, winds, percussion and strings covering stylistic interpretation, performance health, sight-reading and improvisational techniques. One-hour credit will be given based on one 25-minute lesson and four hours practice per week.
Prerequisite: By audition only and the instructor's written consent.

Piano MUSA 011
Voice MUSA 025
Flute MUSA 039
Oboe MUSA 043
Clarinet MUSA 048
Bassoon MUSA 054
Saxophone MUSA 058
Trumpet MUSA 062
French Horn MUSA 090
Trombone MUSA 070
Cello MUSA 076
Baritone Horn MUSA 066
Tuba MUSA 094
Percussion MUSA 033
Double Bass MUSA 077
Violin MUSA 074
Guitar MUSA 088
Viola MUSA 075

Music, Applied Course

Music, Applied Course Descriptions

MUSA 011 through MUSA 094 Applied Music for Non-Music Majors (1) (F, S)
Private instruction for the following instruments: piano, voice, winds, percussion and strings covering stylistic interpretation, performance health, sight-reading and improvisational techniques. One-hour credit will be given based on one 25-minute lesson and four hours practice per week.
Prerequisite: By audition only and by permission of instructor.
Piano MUSA 011
Voice MUSA 025
Flute MUSA 039
Oboe MUSA 043
Clarinet MUSA 048
Bassoon MUSA 054
Saxophone MUSA 058
Trumpet MUSA 062
French Horn MUSA 090
Trombone MUSA 070
Cello MUSA 076
Baritone Horn MUSA 066
Tuba MUSA 094
Percussion MUSA 033
Double Bass MUSA 077
Violin MUSA 074
Guitar MUSA 088
Viola MUSA 075

MUSA 311 through MUSA 394: Applied Music for Majors, Minors, and Special Students (1 or 2) (F; S)
Private instruction for the following instruments: piano, voice, winds, percussion and strings covering stylistic interpretation, performance health, sight-reading and improvisational techniques. Two credit hours = 50 - minute lesson, One-hour credit = 25-minute lesson. Music faculty members adjudicate all Final Examinations.
Piano MUSA 311
Voice MUSA 325
Flute MUSA 339
Oboe MUSA 343
Clarinet MUSA 348
Bassoon MUSA 354
Alto Saxophone MUSA 358
Trumpet MUSA 362
French Horn MUSA 390
Trombone MUSA 370
Baritone Horn MUSA 366
Tuba MUSA 394
Percussion MUSA 333
Violin MUSA 374
Viola MUSA 375
Cello MUSA 376

Double Bass MUSA 377
Guitar MUSA 388
Prerequisite: By audition only and the instructor's written consent.

MUSA 365: APPLIED COMPOSITION (2) (F OR S)

Private instruction for composition covering writing for solo instruments, voice, chamber ensembles, and/or large ensembles. Emphasis on aesthetic choices, melodic forms and organization of musical ideas. Performance of composition projects is integral. Two credit hours= 50 minute lesson. Prerequisites: By audition only and by permission of instructor; prerequisites are identical to the prerequisites for all MUSA courses.

NEWS MEDIA COURSE DESCRIPTIONS

See Course Listings under Journalism and Mass Communications.

PHARMACEUTICAL SCIENCE COURSE DESCRIPTIONS

PHSC 200: Foundations of Pharmaceutical Sciences (1) (F, S)
Presents an overview of pharmaceutical sciences as a group of related biomedical disciplines with functional relevance to all aspects of drug discovery, development, production and use. Students will gain basic knowledge in physical, chemical, and biological sciences as related to use, administration, effects, manufacturing, and preservation of drugs. The course will give students overview of the major and provide basic knowledge and foundation for the curriculum. *Prerequisites: CHEM 101/L, BIOL 101/L.*

PHSC 210: Pharmaceutical Calculations: (2) (F)
Exposes students to the principles, methods, and strategies that are employed in solving mathematical problems in pharmacy and pharmaceutical sciences. Lectures: 2 hours; Recitation: one hour. *Prerequisite: GE 118.*

PHSC 300: Principles of Pharmacology I (3) (S)
Provides an introduction to the principles of toxicology and drug therapy, including safety, management of medication administration, drug actions, adverse drug reactions, and patient dosing (receptors, pharmacodynamics, pharmacokinetics, biotransformation, and toxicology, etc.). *Prerequisites: BIOL 307.*

PHSC 302: Principles of Pharmacology II
Focuses on the key concepts in relation to cellular actions, therapeutic uses, side effects, and toxic actions of specific drug classes used in humans. An in-depth understanding of how various drugs exert beneficial therapeutic and adverse actions as well as drug interactions and the risks associated with drug abuse will be discussed in details. *Prerequisite: PHSC 300.*

PHSC 320: Pharmaceutical Analysis I (3) (F, S)
Focus on modern methods used in analyzing drugs and drug products that are routinely encountered in the pharmaceutical industries and research laboratories. Techniques include UV/Visible spectroscopy, mass spectroscopy, NMR, gas chromatography, HPLC, and capillary electrophoresis etc. *Prerequisite : PHSC 210, CHEM 302/L.*

PHSC 321: Pharmaceutical Analysis II/Lab
Focuses on the characterization of drug and drug products commonly encountered in the pharmaceutical laboratories using advanced analytical techniques. The laboratory experiments provide students with hands-on experience in drug analysis and competency in various analytical skills. *Prerequisite PHSC 320.*

PHSC 355: Healthcare Informatics (2) (F, S)
Introduction to Healthcare Informatics, broadly construed. Healthcare Informatics studies the organization of medical information, the effective management of information using computer technology, and the impact of such technology on medical research, education, and patient care. *Prerequisite: CSC 115.*

PHSC 360: Pathophysiology (3) (F, S)
Designed to introduce the student to altered physiologic concepts affecting individuals and the biologic basis for disease. The course begins with the basics of cellular biology, cancer, the infection process, and the immune system. A focus on specific body systems and common disorders will be covered. *Prerequisite: PHSC 300.*

PHSC 370: Genomics & Proteomics (3) (F; S)
Fundamentals of Genomics and Proteomics. Specifically, linkage and SNP analyses (DHPLC, micro sequencing, 3rd wave), and statistical and computational aspects of linkage and association, as well as automated sequencing, high throughput fluidics, genomics database resources and use will be covered. Topics in expression profiling including Affymetrix chip arrays, and spotted cDNA and oligonucleotide arrays as well as manipulation of large data sets in expression profiling will be discussed. Proteomics is the large-scale study of proteins, their partners and post-translation modification such as phosphorylation,

glycosylation, and sulphation as well as other modifications that can determine activity, stability, localization and turnover protein function. *Prerequisite: CHEM 401/L.*

PHSC 380: Drug Discovery, Design & Development (4) (F; S)
Covers the principles of how new drugs are found with emphasis on the drug discovery pipeline, target identification, screening methodologies and assays, mechanism-based design, structure-based design, in vitro and in vivo testing, chemical analogs and development issues. Connections to genomics, bioinformatics, pharmacokinetics and pharmacodynamics, immunology and parasitology will be explored and appropriate health science, pharmaceutical industry and clinical issues will be discussed. *Prerequisite CHEM 302/L.*

PHSC 401: Drug Regulatory Affairs (2) (F, S)
Provides a general introductory overview of the key role that Regulatory Affairs plays in a pharmaceutical company's launching of new drugs in the market. The laws, regulations, policies and procedures, and the FDA's Standard operating procedures (SOP's) that the FDA issues to drug companies to better understand FDA's expectations. *Prerequisite: PHSC 380.*

PHSC 402: Basis Pharmaceutics with Lab (4) (F, S)
Introduces the student to the principles and technologies that are applied in the preparation of pharmaceutical dosage forms and drug delivery systems. It covers the design, preparation, properties, stability, and evaluation of solutions, semisolids dispersions, and solid dosage forms. It also covers the characteristics and use of excipients. Three hours of lecture. Three hours of lab per week. *Prerequisite: PHSC 210.*

PHSC 403: Pharmaceutical Biochemistry I
Focuses on the basic principles of protein structure and function, and an introduction to molecular mechanisms of drug action. Review of key concepts in general and organic chemistry, properties of drugs, amino acid, protein structure, enzyme function (catalysis), carbohydrates and their metabolism, electron transport and some regulatory mechanisms will be discussed.

PHSC 404: Pharmaceutical Biochemistry II
Focuses on the structure and function of biological membranes, metabolism of lipids, amino acids, nucleic acids, and some regulatory mechanisms. Selected human disease states, their biochemical origins, and pharmaceutical treatment are also discussed in relation to all of the above, when applicable.

PHSC 410: Clinical Trials Management & Research Methods (3) (F; S)
Introduces students to the three phases of clinical trials involved in drug development; development of research questions, basic elements of experiments and researches involving human subjects, government and institution mandated protocols, clinical trials methodology and practical and theoretical overview of the principles of managing and monitoring clinical trials. *Prerequisite: PHSC 380.*

PHSC 420: Biopharmaceutics/Pharmacokinetics (3) (F, S)
Introduces students to the following: routes of drug administration, absorption, distribution, metabolism, and excretion (ADME) and the concepts of bioequivalence, bioavailability, half-life, and drug product testing. Quantitation of factors affecting the ADME and mathematical models to calculate the rates of drug and metabolite concentrations will be introduced.
Prerequisite: PHSC 210.

PHSC 421: Methods in Biotechnology
Uncovers presents fundamental concepts in applied biotechnology, fundamental laboratory skills, exploratory data analysis, safety, and ethics. *Prerequisite: Department Chair's written consent.*

PHSC 430: Ethics in Biomedical Research (1) (F, S)
Discusses a comprehensive analysis of the major ethical issues raised by scientific research on animal and human subjects. It will emphasize emergence of an international dialogue about research resulted in the adoption of extensive official policies on a broad set of ethical issues. Cases will be discussed. *Prerequisite: PHSC 451.*

PHSC 432: Advanced Medicinal Chemistry
Focuses on applications of foundational concepts of drug chemistry. Discusses chemical and pharmaceutical features of drugs and targets by evaluating molecular basis of actions from representative drug classes. Fundamental concepts in contemporary medicinal chemistry including computational chemistry and combinatorial/parallel methods of synthesis are covered in this course. *Prerequisite CHEM 430.*

PHSC 451: Independent Research I (1) (F, S)
Faculty supervision of students in research related to pharmaceutical sciences. Open to Junior students that have the ability to carry-out independent work in the laboratory. Laboratory: one hour and additional lab time scheduled as necessary. *Prerequisite: PHSC 380.*

PHSC 452: Independent Research II (1) (F, S)
Faculty supervision of students in research related to pharmaceutical sciences. Laboratory: one hour and

additional lab time scheduled as necessary. *Prerequisite: PHSC 451.*

PHSC 453: Independent Research III (1) (F, S)
Faculty supervision of students in research related to pharmaceutical sciences. Laboratory: one hour and additional lab time scheduled as necessary. *Prerequisite: PHSC 452.*

PHSC 460: Clinical Technology (2) (F; S)
Covers major types of clinical information technology with a focus on practical issues in design, implementation, enterprise integration, and iterative refinement in clinical care delivery settings. These systems include the electronic medical record (EMR), Computerized Practitioner Order Entry (CPOE), Clinical Decision Support Systems (CDSS), Clinical Data Repository (CDR), and ancillary systems (e.g., PACS, Pharmacy, Lab). This course will train how to operate, calibrate and manage the technology, equipment, and instrumentation used in clinical settings. The course will provide Hands-on experience in a hospital or clinic with equipment used with Intravenous dosing, drug calculations and measurement, palm pilots, etc. *Prerequisite: PHSC 210.*

PHSC 499: Capstone Seminar (1) (F, S)
Designed to evaluate student's accumulated knowledge, ability, and skills in the major. Content focuses on recent advances and problems in pharmaceutical science research with strong emphasis on student participation and general discussion. *Prerequisite: PHSC 452 Corequisite: PHSC 453.*

PHILOSOPHY COURSE DESCRIPTIONS

PHIL 250: Introduction to Philosophy (3) (F, SS)
Introductory study of core topics of philosophical concerns, human knowledge, the world, God, human freedom, morals, and politics to develop philosophic interests and skills in analysis of concepts basic to value decisions in education, art, religion, and life. *No prerequisite.*

PHIL 251: Social and Political Philosophy (3) (S)
Contemporary and traditional problems concerned with moral evaluation of political power; individual rights, social responsibility, legal and civil authority, civil disobedience, war, and peace. *No prerequisite.*

PHIL 252: Critical Thinking and Logic (3) (F)
Introduction to the principles of critical reasoning and argumentative skills. Emphasizes evaluation of arguments, identification of logical fallacies, deductive inference, and elementary symbolic logic. These skills help students prepare for post-graduate standardized tests, such as GRE, LSAT, GMAT, and MCAT. *No Prerequisite.*

PHYSICAL EDUCATION COURSE DESCRIPTIONS

PE 200: Theory of Coaching Football (3) (F; S)
Defensive and offensive strategies. Emphasizes team conditioning, care and purchase of equipment, and public relations. Open to all students.

PE 201: Coaching Basketball (3) (F; S)
Fundamental concepts of coaching basketball. Emphasizes offensive and defensive play, playing strategies, team conditioning, and learning rules. Open to all students.

PE 206: Coaching Baseball/Softball (2) (S)
Fundamental knowledge needed to coach basketball and softball. Emphasizes team organization, basic techniques, terminology, player selection, and game strategies. Open to all students.

PE 208: Step Aerobics (2) (F; S; SS)
Provides a cardio-respiratory workout using muscles that are utilized in basic locomotor movements and various step-and-arm combinations to develop flexibility, strength, and muscular endurance. Low-impact or high-impact routines adjusted to music for the release of emotional and mental tension. This course is required of all majors in Physical Education. *Prerequisite: GE 173. Open to all students.*

PE 209: Water Aerobics (2) (S; SS)
Provides choices for exercisers who benefit from water buoyancy, which reduces joint stresses associated with weight-bearing exercise. Emphasizes adapting land-based aerobics to water as well as familiarizing students with the psychological benefits of water aerobics. *Prerequisite: Teacher's written consent.*

PE 210: Applied Anatomy and Physiology (3) (F)
Survey of the interrelationships between specialized human body structures and their functions. Emphasizes skeletal, muscular, respiratory, circulatory, and nervous systems. Offered for Physical Education majors. Lecture: three hours. *Prerequisites: GE 155 and 155L.*

PE 210L: Applied Anatomy and Physiology Lab (1) (F)
Laboratory investigations which stress anatomical and physiological aspects of humans. Laboratory: one hour. *Prerequisites: GE 155 and 155L.*

PE 239: Introduction to Physical Education (2) (F)
Freshman Orientation class in Physical Education orients students to the history of physical education and the nature and scope of the field. The first theory course in the major course sequence. *Introductory course required of all majors.*

PE 240: Team Sports I (2) (F)
Provides experience and practice in the skills and techniques of team sports. Includes football (flag), basketball, soccer, team hanD.B.A.ll, volleyball, and softball. *Required for Physical Education majors. Open to Physical Education majors only*.

PE 241: Individual Sports I (2) (F)
Provides experience and practice in the skills and techniques of individual sports. Included are badminton, golf, and other individual and dual sports. *Required for all Physical Education majors. Open to Physical Education majors only*.

PE 274: Fundamentals of Self Defense (1) (F; S)
Required course in martial arts for physical education majors. *Open to all students.*

PE 276: Taekwon-Do (1) (F; SS)
Required Course for physical education majors. *Open to all students*.

PE 279: Pilates (1) (F; SS)
Introduction to the beginner and intermediate mat Pilates method of body conditioning. Pilates mat work emphasizes core musculature as it applies to everyday movement. Introduces a series of low impact resistance-based conditioning exercises designed to develop core strength, posture, breath control, body alignment, and flexibility. Benefits include balance, body awareness, injury prevention, stress reduction and increased self-confidence. *No previous movement experience required.*

PE 300: Exercise Physiology (3) (F; SS)
Analysis of human functions under stress of muscular activity. Provides a basis for study of physical fitness and athletic training. *Prerequisites: BIOL 207, 307*.

PE 302: Movement Education (2) (F; S)
Required for Elementary Education majors (K-6). Designed to identify structure of the foundational knowledge of movement and the process of becoming physically educated. Emphasizes selection of material, teaching, and skill development of K-6 students.

PE 303: Fitness through Weight Training (2) (F; SS)
Part of the General Education sequence and may be used to fulfill the physical education requirements.

PE 307: Teaching Lifetime Leisure Pursuits (1) (F: S)

Teaches prospective physical education teachers how to teach lifetime leisure pursuits. Includes a variety of individual, dual, and team sports; cultural and social recreational activities; managing and planning leisure time; and an introduction to health-related fitness benefits associated with lifetime leisure pursuits.

PE 316: Teaching Fitness Education (2) (F: S)

Introduces prospective physical education teachers to health-related fitness foundations and components, basic training principles, appropriate curriculum for K-12 and effective teaching and assessment principles. Physical Best Health/Fitness Specialist Certification is an option for an extra fee.

PE 363: Group Games and Rhythms (1) (F; S)
Focuses on the role of physical education in the lives of elementary school children (grades K-6) and the responsibilities of the teacher. Special attention is given to the characteristics of elementary school children and how physical education meets the needs as expressed by these characteristics. Emphasizes activities meeting the needs at the elementary level (grades K-6) in the areas of group games and rhythms. Usually taken in the junior year by Physical Education majors as well as Elementary Education (grades K-6) majors.

PE 368: Prevention and Care of Athletic Injuries (2) (F)
Offers theory in conditioning and training for the prevention of athletic injuries as well as diagnostic procedures, massage, taping, hydrotherapy, and the handling of emergencies involving athletic injuries.

PE 370: Kinesiology (3) (S; SS)
Action of muscles involved in fundamental movements, calisthenics, sports, and gymnastics. *Prerequisites: BIOL 207; BIOL 307; PE 300*.

PE 371: Psychology of Coaching (3) (F)

Deals with the psychological aspects of motivation and personality management as they relate to the coaching profession. Emphasizes the role of the coach in determining the behavioral conduct of the team and staff.

PE 375: Management of Physical Education and Athletic Programs (3) (F)
An introduction to the basic processes of management in physical education and athletics. Special emphasis on the problem solving/decision making process as related to managerial control, budgetary procedures, cost containment techniques, and the selection, utilization, and control of physical space, supplies, equipment, and environment.

PE 380-381: Sports Officiating I, II in Football & Basketball (3, 3) (F; S; SS)
The psychology and techniques of officiating. Mastery of knowledge of the rules will be required on a written test and in a practicum situation. Open to all students.

PE 383: Aquatic & Fitness (3) (S; SS)
Emphasizes endurance swimming, water activities, games and sports to develop a cardiovascular fitness program in aquatics. Required for all PE majors entered into the Aquatic Fitness Track. Open to all students. *Prerequisite: GE 175*.

PE 388: Lifesaving (3) (F; S)
Provides an opportunity to develop skills and knowledge in water safety swimming and rescue techniques that will enable students to save themselves and others in the event of accident. An elective course for the general student body that can be used to meet the physical education requirements in General Education. *Prerequisite: GE 175 or Department Chair's written consent. Taught by ARC guidelines*.

PE 389: Water Safety (2) (F; S; SS)
Provides students with theory and practice in the use of methods, materials, and techniques in teaching swimming. Required course for students in the Aquatics & Fitness track. Open to other students. Taught according to ARC guidelines. *Prerequisite: PE 388 or Teacher's written consent*.

PE 401: Motor Learning and Motor Behavior (3) (F; SS)
Basic concepts underlying motor learning including neurophysical bases, feeD.B.A.ck, perception, and other factors influencing rate, behavior, and amount of learning. Normally taken during the senior year, it is required of all Physical Education majors. *Prerequisites: BIOL 207, PE 382, 370, and 300*.

PE 403: Research in Physical Education (3) (F; S; SS)
Conducting and evaluating research as an independent study opportunity on special problems or issues relating to physical education or other areas of interest. For individuals needing elective or refresher credits. *Prerequisite: Instructor's written consent. Open to all students*.

PE 447: Exercise Prescription and Testing (3) (F; S)
Required course for all PE majors, to reinforce the basic principles of exercise physiology and to acquire skills necessary for exercise testing and conducting fitness assessments to be used for writing exercise prescriptions based on the needs of the individual. A three hour lab accompanies this course. *Prerequisites: BIOL 207, 307; PE 300*.

PE 447L: Exercise Prescription and Testing Lab (1) (F; S)

Required course for all PE majors, to reinforce the basic principles of exercise physiology and to acquire skills necessary for exercise testing and conducting fitness assessments to be used for writing exercise prescriptions based on the needs of the individual. This is a three hour lab which accompanies the three (3) credit course PE 447. *Prerequisites: BIOL 207, 307; PE 300*.

PE 470: Adapted Physical Education (3) (S; SS)
The Capstone course for Teaching Physical Majors. Assists the physical educator in developing skills and adaptive behaviors needed to determine and integrate the appropriate mechanics needed to maximize student potential. *Normally taken during the junior year, it is required of all Physical Education majors. Open to all students*.

PE 471: Professional Seminar In Health Care Management (3) (F)
Provides opportunity to identify and discuss common problems and possible solutions of current and emerging challenges in organizing and financing the managerial functions in health care, more specifically, physical and occupational therapy. *Prerequisites: Restricted to students who are enrolled in the internship course (PE 495) or have the instructor's written consent.*

PE 495: Practicum In Physical/Occupation Therapy (8) (F; S; SS)
Supervised field placement in a health care institution under a qualified PT, OT, or physician for a minimum of 125 hours. An additional 75 hours will be spent in a health care facility related to the student's career interest.

PE 496: Supervised Field Work In Coaching and Officiating (8) (F; S; SS)
Practical experience in coaching on the club level for 100 hours or the equivalent subject to the discretion of the site supervisor. An additional 100 hours will be spent officiating seasonal sports on an intramural varsity or club level under a certified official or supervisor.

PE 499: Aquatic & Fitness Internship (8) (F; S; SS)
A supervised field experience of 200 hours in applied commercial or institutional private fitness centers. *Prerequisite: Teacher's written consent*.

PE 307: Teaching Lifetime Leisure Pursuits (1) (F: S)

Teaches prospective physical education teachers how to teach lifetime leisure pursuits. Includes a variety of individual, dual, and team sports; cultural and social recreational activities; managing and planning leisure time; and an introduction to health-related fitness benefits associated with lifetime leisure pursuits.

CR 201: Introduction to Correctional Recreation (2) (S)
Explores theories of supervision and covers various theories of organizing and administering athletic programs and events in prisons, half-way houses, and reformatories. How to utilize non-institutional resources and personnel in the production of athletic programs. *Prerequisite: PE 240*.

CR 202: Intramural Sports (2) (S)
Theory and practice in developing and conducting intramural sports programs.

CR 301: Athletic Programs in Penal Institutions (2) (F)
Theory of organizing and administering athletic

programs and events in prisons, half-way houses, and reformatories. How to utilize non-institutional resources and personnel in the production of athletic programs. *Prerequisite: Department Chair's written consent.*

CR 303: Supervision of Correctional Recreation and Athletic Facilities (2) (S)
Study of the basic philosophy and concepts of Correctional Recreation with emphasis on the value of such programs in the rehabilitative process. Emphasizes analyzing recreational theories, appraising existing needs of penal institutions, and developing an understanding of the administration and organization of penal recreation and athletics. *Prerequisite: PE 240*.

CR 304: Cooperative Training in Correctional Recreation and Athletics (1-6) 'Optional Elective' (S; SS)
A summer work experience in a correctional unit. (See Department Chair for arrangements.) *Prerequisites: CR 202, 301*.

CR 406: Seminar in Correctional Recreation (3) (S; SS)
Course coordinated with supervised field experience. Prepares advanced students for a comprehensive field practice in Correctional Recreation. *Co-requisite: CR 408 or consent of Department Chair*.

CR 408: Internship in Correctional Recreation (6) (S; SS)
Supervised field placement in a local, state, or federal correctional center for a period of 10 weeks. Interns work under the direction of an assigned site supervisor. *Co-requisite: Department Chair's written consent.*

PE 316: Teaching Fitness Education (2) (F: S)

Introduces prospective physical education teachers to health-related fitness foundations and components, basic training principles, appropriate curriculum for K-12 and effective teaching and assessment principles. Physical Best Health/Fitness Specialist Certification is an option for an extra fee.

HPE 201: Principles of Nutrition (3)
Basic course on the essentials of good nutrition, requirements of various food elements and diet patterns for specific age groups.

HPE 291/292/293: Independent Study (1; 2; 3)
Individual study or research under direction of a faculty member. Study plan must be approved by the department chair. *Prerequisite: Consent of instructor*.

HPE 491/492/493: Independent Study (1; 2; 3)
Individual study or research under direction of a faculty member. Study plan must be approved by the department chair. *Prerequisite: Consent of instructor*.

Sport Management Course Descriptions

PESM 110: Introduction to Sport Management (3)
Introduces the sports industry, different kinds of opportunities involving sports, and the economical impact of sports in the world and America in particular.

PESM 210: Introduction to Sport Sociology (3)
Introduces the concept of sport sociology. Considers the culture of sports, sport and socialization, sport and politics, religion and sport, sport education, and social change.

PESM 211: Introduction to Sport Psychology (3)
Studies the psychological factors which impact behavior in management skills. Includes an analysis of learning process, motivation, adjustments, perception, memory, cognition, and behavior.

PESM 300: Sport Finance (3)
Provides an introduction to financial strategies related to sport entities and organizations.

PESM 310: Sport Management Practicum (3)
Provides majors with hands-on experience in an area of sport management. Selected off-campus experiences in physical education, leisure activities, and sport programs that will enable students to become more actively involved with field-based professionals. *Prerequisites: Permission of the instructor, Junior standing*.

PESM 311: Sport Marketing and Promotion (3)
Examines competitive market strategies as they apply to the sport industry. Emphasizes the relationship between sport products and sport markets. *Prerequisite: Junior standing*.

PESM 312: Legal Issues of Sport/Rec (3)
Introduces the legal structures, major laws, regulations, and precedents in law in amateur athletics, professional sports, and recreational sport programs.

PESM 313: Governance in Sport (3)
Topics and issues involve the organizational theory, behavior, and structure of various sport organizations. Examines the evolution of power and political activity engulfing sport organizations. Concepts on leadership and management related to the sport industry are presented.

PESM 410: Organization and Management (3)
Provides majors with comprehensive and contemporary information as it applies to managing sport organization. Emphasizes human resource management, supervision, program development, and office management.

PESM 411: Facilities Management (3)
Presents the guidelines for designing, constructing, maintaining, scheduling, and managing an athletic facility. Emphasizes the factors involved in obtaining, running, and managing athletic events.

PESM 415: Sport Sponsorship (3)
Provides a detailed examination of the relationship

between sport and corporate sponsorship. *Prerequisite: Junior standing*.

PESM 416: Sport Management Internship (8)
Supervised field placement in an approved sport-related agency. Interns work under the direction of an assigned site supervisor in their respective area of emphasis. *Prerequisites: Senior standing, and completion of all required courses in their area of concentration*.

PHYSICS COURSE DESCRIPTIONS

PHYS 181: General Physics 1(3) (F; S)
Fundamental principles of physics based on elementary algebra and trigonometry. Deals with vectors, mechanics of particles and rigid bodies covering kinematics and dynamics; heat and kinetic theory of gases. Lecture: three hours per week. *Prerequisite: GE 115 or equivalent. Co-requisite: PHYS 181L*.

PHYS 181L: General Physics I Lab (1) (F; S)
Laboratory experiments reinforce the concepts covered in PHYS 181C and develop skills in the experimental set-up, data collection, and data analysis and interpretation of experimental data. Laboratory: two hours per week. *Prerequisite: PHYS 181 or PHYS 191*.

PHYS 182: General Physics II (3) (F; S)
A continuation of PHYS 181. Topics include electrostatics and electromagnetism; and wave motions involving light and sound. Lecture: three hours per week. *Prerequisite: PHYS 181L; Co-requisite: PHYS 182L*...

PHYS 182L: General Physics II Lab (3) (S)
Laboratory experiments reinforce the concepts covered in PHYS 182 and PHYS 192 and develop skills in the experimental set-up, data collection, data analysis and interpretation of experimental data. Laboratory: two hours per week. *Co-requisite: PHYS 182 or PHYS 192*.

PHYS 191: University Physics I (3) (F)
An introductory physics course based on calculus. Covers vectors and mechanics of particles and rigid bodies covering kinematics and dynamics. Lecture: three hours per week. *Prerequisite: MATH 157. Co-requisite: MATH 158 and PHYS 181L*.

PHYS 192: University Physics II (3) (S)
A continuation of PHYS 191. Topics include heat and kinetic theory of gases, electrostatics, and electrodynamics. Lecture: three hours per week. *Prerequisites: PHYS 191L; MATH 158. Co-requisite: PHYS 182L*.

PHYS 193: University Physics III (3) (F)
A continuation of Phys 192. Topics include Optics, modern physics, and other physics topics not covered in PHYS 191 and PHYS 192. Lecture: 3 hours per week. *Prerequisite: PHYS 192*.

PHYS 201: Mechanics I (3) (F)
Introduces the vector calculus and kinematics of particles. It also deals with dynamics of particles in one-dimensional problems. Lecture: 3 hours per week. *Prerequisites or Co-requisites: PHYS 193; MATH 256.*

PHYS 202: Mechanic II (3) (S)
Develops further, concepts built in PHYS 201. Deals with two-and three-dimensional motions more rigorously. The basic concepts of rigid body dynamics are also developed. Lecture: 3 hours per week. *Prerequisite: PHYS 201*.

PHYS 203: Astronomy (3) (F; S)
For both science and non-science majors. Presents a clear, vivid, non-mathematical treatment of the frontiers of modern astronomy. Students become conversant and acquainted with new developments regarding pulsars, black holes, quasars, and controversies surrounding redshifts and other phenomenological concepts concerning astronomy. Lecture: 3 hours per week.

PHYS 203L: Astronomy Lab (1) (F; S)
Laboratory exercises, demonstration exercises, and elementary calculations to illustrate methods used in astronomy. Some constellation study with planetarium visits and occasional evening observation. Laboratory: 2 hours per week. *Co-requisite: PHYS 203.*

PHYS 211: Principles of Biophysics (3) (F)
The biological principles of physics. Discussions include optics of sight, corrective lenses for long and short sightedness, physics of heart pacers, nerve impulse conduction, cell membrane integrity and function, mechanics of muscle function, elasticity in cell biology, the physics of biological locomotion, and electromagnetism of the human body, a very efficient conductor of electricity (a basis for electrocution). Lecture: 3 hours per week. *Prerequisites or Co-requisites: PHYS 193, BIOL 102 and PHYS 211L*.

PHYS 211L: Principles of Biophysics Lab (1) (F)
Students carry out experiments that illustrate physics in biological systems and how designs of various medical devices such as heart pace makers and hearing aids are based on the principles of biophysics. *Co-requisite: PHYS 211*.

PHYS 212: Principles of Biophysics (3) (S)
The biological principles of Physics. Discussions include a review of diffusion and random walk, Entropy, Temperature, and Free Energy, Entropic Forces, and Chemical Forces, Enzyme kinetics, force generation by kinesin, Mitochondria, proton pumps, ATP synthase, and flagellar motor. Lecture: 3 hours per week. *Prerequisite: PHYS 211, Co-requisite: PHYS 212L*.

PHYS 212L: Principles of Biophysics Lab (3) (S)
Students carry out experiments that illustrate Physics in biological systems and learn how to operate various bio-physical instruments such as spectroscopy, electron microscopy, X-ray diffraction, crystallography, and NMR. *Co-requisite: PHYS 212*.

PHYS 301: Electricity and Magnetism I (3) (F)
Introduces principles of electricity based on vector calculus. Laplace's equation and simple solutions are derived. Lecture: 3 hours per week. *Prerequisite or Co-requisite: PHYS 193; MATH 158*.

PHYS 302: Electricity and Magnetism II (3) (S)
Principles introduced in PHYS 301 are further developed. The theory of magnetism is developed and the Maxwell's Equations of electrodynamics are derived. The solutions of such equations which lead to electromagnetic waves are also demonstrated. Lecture: 3 hours per week. *Prerequisite: PHYS 301*.

PHYS 310: Optics (3) (F)
Basic ideas of propagation of light, first considered as rays and then as waves. Such topics as interferences, diffraction, and polarization treated in detail. Knowledge of electricity and magnetism is desirable, but not necessary. Lecture: 3 hours per week. *Prerequisite or Co-requisite: PHYS 193; MATH 158*.

PHYS 320: Thermodynamics (3) (S)
Concepts of thermodynamics systems and laws of thermodynamics. Also treats the basis of kinetic theory of gases. Lecture: 3 hours per week. *Prerequisite or Co-requisite: PHYS 192.*

PHYS 321: Electronics (3) (S)
Intermediate course in applied electronics. Study of basic components, circuits and systems in modern electrical instrumentation. Emphasizes transistors, Field Effect Transistors (FET), and Silicon Controlled Rectifier (SCR). Lecture: 3 hours per week. *Prerequisite or Co-requisite: PHYS 302.*

PHYS 330: Junior Laboratory (2) (F)
Introduces experiment verification of some principle of physics which could not be done in General Physics/University Physics Laboratory. Laboratory: 4 hours per week. *Prerequisite: PHYS 192*.

PHYS 433: Senior Laboratory (2) (S)
Acquaints students with advanced experiments. Laboratory: 4 hours per week. *Prerequisite: PHYS 330.*

PHYS 441: Mathematical Methods of Physics I (3) (F)
Mathematical methods and applications necessary for work in theoretical physics. Lecture: 3 hours per week. *Prerequisites: PHYS 193; MATH 158*.

PHYS 442: Mathematical Methods of Physics II (3) (S)
Further mathematical methods and applications used in theoretical physics. Lecture: 3 hours per week. *Prerequisite: PHYS 441*.

PHYS 470: Medical Physics (3) (F)
Basic knowledge of atomic Physics and Quantum Mechanics as well as basic interactions of ionizing and non-ionizing radiation important in medicine. Topics include photon, electron, and neutron interactions, high LET radiation, radioactivity, ultrasound interactions, and laser interactions. Also includes conventional X-ray radiology, digital radiography, computed tomography, ultrasound, and magnetic resonance imaging. *Prerequisite: PHYS 193*.

PHYS 481: Modern Physics I (3) (F)
Elementary modern aspects of physics involving wave packets, special relativity theory, and photo electric efforts. Lecture: 3 hours per week. *Prerequisite: PHYS 202*.

PHYS 482: Modern Physics II (3) (S)
The concepts developed in PHYS 481 are further developed. Topics involve X-ray, Compton Effect, pair production, classical quantum theory, Schrödinger equations, quantum mechanical treatment of hydrogen atom and some basic ideas of solid-state physics. Lecture: 3 hours per week. *Prerequisite: PHYS 481*.

PHYS 484: Quantum Mechanics (3) (F; S)
Basics principles of quantum mechanics covering the Schrödinger Wave Equations, operators and transformation theory, angular momentum, atomic structure, and perturbation theory. Lecture: 3 hours per week. *Prerequisites: PHYS 481; MATH 458*.

PHYS 486: Physics Seminar (1-3) (F; S)
Covers subjects related to current developments in physics. *Prerequisite: Department Chair's written consent*.

PHYS 487: Sound (3) (F; S)
Fundamentals of periodic phenomena wave motion in solid, liquid, gaseous media; introduction to acoustics. Lecture: 3 hours per week. *Prerequisites or Co-requisites: PHYS 193; MATH 256*.

PHYS 490: Physics: An Integrated Approach (3) (F; S)
This Physics Capstone course is a requirement for all graduating seniors majoring in physics. It is a consolidation of fundamental concepts in classical mechanics, relativity, electromagnetism, optics, waves, thermodynamics, statistical mechanics, quantum mechanics, atomic physics and special related topics. Lecture: 2 hours per week; Seminar: 1 hour per week. *Prerequisite: Senior Standing*.

PHYS 499: Physics Research (1-2) (F; S)
Faculty supervision of student research in current topics of Physics. Open to juniors and seniors with demonstrated ability to carry out independent work in

Physics. Students may enroll for up to two semester hours credit. *Prerequisite: Instructor/Department Chair's written consent*.

POLITICAL SCIENCE COURSE DESCRIPTIONS

POLS 200 Prerequisite applies to Political Science majors only.

POLS 200: Introduction to Political Science (3) (F)

Basic study of political science, its scope, methodology, structure of government, political institutions, and ideologies. Emphasizes technology, critical thinking, and critical writing. Portfolio started. POLS 200 Prerequisite applies to Political Science majors only. *No Prerequisite.*

POLS 298: American National Government (3) (F; S; SS)
Structure and functions of the national government. Nature of the federal system, the Constitution, citizenship, and popular participation in governing. Extent and character of national power. Changing nature of relations of national government to the states and to the individual. Working knowledge of good citizenship in everyday life. *No Prerequisite*.

POLS 299: State and Local Government (3) (F; SS)
Critical examination of state and local governments and their governing capacities. Examination of the social and economic characteristics, legal structures, political processes, fiscal strength, leadership resources, and policy choice of state and local governments. Emphasizes the similarities and differences among the states and their importance in the federal system of government. Discussion of topical issues pertaining to states would form a basis of additional discussion. *No Prerequisite.*

POLS 305: Political Theory (3) (S)
Examines, evaluates and possibly alters students' personal value commitments through an exposure to varying positions that have been adopted in addressing persistent problems in political theory. Topics such as the obligation a person owes to political associations; the role of politics in personal growth, competing theories of justice; liberalism; conservatism; feminism; freedom and self-actualization, representation, social cohesion; the idea of moral communities. *No Prerequisite*.

POLS 307: American Political Ideas (3) (F)
Analysis of American ideas on law and government, authority and civil liberty, oligarchy and democracy, from the Puritans to the present time. Emphasizes the thoughts of Hamilton, Jackson, Calhoun, Lincoln, Thoreau, Belany, Henry George, Wilson, Hoover, Roosevelt, Holmes, Dewey, and others. *No Prerequisite*.

POLS 309: Minorities and Women in American Politics (3) (F)
Deals with the emerging role of minorities and women in U.S. politics and its impact on public policy. *No Prerequisite*.

POLS 310: American Presidency (3) (S)
Covers the development of presidential power and functions, the contemporary operations of the presidency and the challenges which may confront the presidency in the future. *No Prerequisite*.

POLS 311: Political Science Methods (3) (F; S)
Introduces fundamental methods and procedures in collecting and analyzing political data as well as interpretation and use of technology. Research on a specific political data is required. Portfolio is evaluated. *Prerequisite: POLS 200*.

POLS 402: Politics and Problems of Contemporary Africa (3) (S)
A broad overview of politics and society in Africa, organized thematically to explore issues such as colonialism, ethnicity, nationalism, class, ideology, legitimacy, sovereignty, and democracy. Investigation of the role of the state in economic and political development, global political economy, international division of labor, international development, and the challenges and contradictory implications of globalization for African politics. *No Prerequisite.*

POLS 403: American Foreign Policy (3) (S)
Study of the United States' political, economic, social, and cultural involvements in the international arena, and major foreign policy decisions, including their short- and long-range impact on United States relations with other countries of the world. *No Prerequisite*.

POLS 404: Comparative Politics (3) (F)
Search for similarities and differences between political systems, their environments, and structures. Examination of the functions of political systems (such as socialization, recruitment, and communications), process functions (such as interest articulation, interest aggregation, policy making, and policy implementation and adjudication), and policy functions (such as extraction, regulation and distribution). Systematic evaluation of how and why capitalist democracies differ and how differences in political representation, political design, and historical experience produce widely differing patterns of policy making. Discussion of area studies (Britain, France, Germany, Japan, China, Mexico, Brazil, Nigeria, Russia, India, Egypt, and the United States. *No Prerequisite.*

POLS 483: International Relations (3) (F)
Surveys major theoretical approaches to international relations, the nature of world politics, methods and

goals of diplomacy, and controls of State behavior. *No Prerequisite*.

POLS 484: International Organization (3) (S)
Explores membership in international and regional organizations, their genesis and historical evolution. Examines the activities of governmental and non-governmental organizations; their logic of design; their objectives; and some of the ways these organizations respond to global challenges such as threats to international peace and security and, in particular, terrorism; egregious international crimes; endemic poverty; global warming; and persistent underdevelopment among some members of the international community. *No Prerequisite.*

POLS 485: Internship Seminar (1)
Prior to departing for fieldwork, students enroll in a one-credit course focusing on the mechanics of working in large organizations and personnel practices. *Prerequisite: Instructor's written consent*.

POLS 486: Internship Fieldwork In Political Science (3) (6)
Students enroll in internship or fieldwork programs under the direction of a faculty member. Students prepare and read substantial bibliography, write a major research paper or its equivalent on the internship assignment and confer regularly with the professor. *Prerequisite: Instructor's written consent*.

POLS 490: Independent Study or Special Problems in Political Science (1) (2) (3)
May be used as an elective in the major on special projects or research agenda proposed by a student working in consultation with faculty members. Faculty member provides a detailed synopsis of the work to the Departmental Chair for approval before student embarks on independent study.

POLS 499: Seminar/Research in Political Science (3) (S)
A capstone course which utilizes knowledge accrued by the student throughout the four years of study. Students demonstrate competence and readiness in applying knowledge, skills and abilities in the professional world. Students formulate their own research topic and write research reports of a substantive nature. Students demonstrate their complete understanding of the major paradigms within the discipline and their own world view of political and social phenomena. The completed portfolio is due at the end of the semester. *Prerequisite*: *POLS 200, POLS 311, and Senior status or Department Chair's written consent*.

PSYCHOLOGY COURSE DESCRIPTIONS

PSY 212: General Psychology (3) (F; S; SS)
An introductory course that promotes an understanding of scientific methods and application to the study of basic concepts of human behavior. Topics include motivation, sensory processes, perception, thinking, learning, personality, and social factors. This course is a prerequisite to all other courses offered by the department. *No prerequisite*.

PSY 220: Basic Research Skills in Psychology (3) (F; S)
This writing intensive course focuses on written and oral skills used in the study of psychology. Workload includes reviewing and summarizing journal articles and writing research papers. Skill development in the utilization of library resources and American Psychological Association (APA) guidelines occurs. **This course is the first core course requirement for completion of the major in psychology.** *Prerequisites: GE 102, GE 103, and PSY 212.*

PSY 250: Developmental Psychology I (3) (F)
A comprehensive study of development from birth through adolescence. An examination of psychological and biological factors that impact development is viewed within theoretical and cultural frameworks. *Prerequisite: PSY 212*.

PSY 251: Developmental Psychology II (3) (S)
A comprehensive study of development from young adulthood through senescence. Changes in biological, intellectual, personality, and social process factors that impact development is explored within theoretical and cultural frameworks. *Prerequisite: PSY 212*.

PSY 260: Psychology of Adjustment (3) (S)
An examination of personal growth and adjustment processes related to the demands of modern life. Theories, research, and real-life applications on adjustment and growth issues. Includes self-concept, stress, mental and physical health, gender and sexuality, relationships, marriage and family, work, aging, and cultural diversity. *Prerequisite: PSY 212*.

PSY 295: Topics in Psychology (3) (F)
A lecture/seminar/research series which focuses upon various selected topics in the field of psychology. *Prerequisite: PSY 212 and the* instructor*'s written consent*.

PSY 300: Statistics and Research Design (3) (F; S; SS)
An introduction to psychological research, including research design, descriptive and inferential statistics, and the use of computers in psychology. Statistical techniques are utilized to describe the data and the testing of hypotheses in psychological research. *Prerequisites: GE 115, PSY 212, and PSY 220*.

PSY 311: Psychological Tests and Measurement (3) (S)
Surveys the field of psychological tests with attention to measures of intelligence, attitude, personality, and interest. Test construction, validation, and standardization. Laboratory experiences include the administration, scoring, interpretation, and use of test results. *Prerequisites: PSY 212, PSY 220, and PSY*

300.

PSY 330: Psychology of Personality (3) (F)
Study of the basic theories underlying the structure, organization, and adjustment mechanism of personality. Examines the development of "normal" personality with an emphasis on principal factors controlling human behavior. Historical and contemporary theories are investigated. *Prerequisite: PSY 212*.

PSY 340: Psychology of Cultural Diversity (3) (F)
Survey of concepts, theories and research that have contributed to the field of psychology. Historical and contemporary perspectives of diversity within psychology are examined in relation to theory, practice, social justice and social policy. Prerequisite: PSY 212, PSY 250 or PSY 251.

PSY 350: Experimental Psychology (3) (F; SS)
An introduction to the methods of science in psychology. Through lecture and laboratory experiences, the development, design, interpretation, and reporting of psychological research are examined. *Prerequisites: PSY 212, PSY 220, PSY 300*.

PSY 360: Abnormal Psychology (3) (S)
A systematic appraisal of the development of human behavior that focuses on the contribution of biological and social factors to psychopathological thinking and behavior. Includes an examination of the formation of deviancy and current diagnostic procedures. Also presents clinical cases, treatment modalities, and legal and social issues. *Prerequisite: PSY 212*.

PSY 370: Physiological Psychology (3) (S)
The study of anatomical and physiological bases of behavior. Emphasizes the function of nervous, sensory, motor, and endocrine systems in motivation, emotion, perception, and learning. *Prerequisites: GE 155, PSY 212, and PSY 350.*

PSY 380: Psychology of Group Behavior and Inter-group Conflict (3) (S)
Examines how human behavior is influenced by group membership. Application to the group influence in business, industry, politics, and education. Topics include group development and structure, group leadership and decision-making, crowd behavior and group conflict. Students can expect to participate in small group activities during the course. *Prerequisite: PSY 212*.

PSY 400: Sensation and Perception (3) (F; S)
A study of sensory input function and the processes of interpreting and evaluating sensory information. Research methodology, theories, and research are examined in a way that emphasizes the major sensory system and its relationship to human perceptual processes. *Prerequisites: PSY 212, PSY 220, and PSY 300.*

PSY 407: Community Psychology (3) (F)
A comprehensive survey of the community as a functioning entity of the social environment with an emphasis on mental health problems, life stresses, and inter-group relations. The history, development, and current trends in community mental health. This course considers the application of psychological principles to overall community interaction. *Prerequisites: PSY 212/SOC 201*.

PSY 410: Industrial/Organizational Psychology (3) (F)
The application of psychological principles to a variety of human problems in industry and organizations. Topics covered are personnel selection, training, and evaluation; human factors and engineering psychology; and the organizational and social context of human work. *Prerequisite: PSY 212*.

PSY 420: Counseling Principles and Practices (3) (S)
An introduction to current counseling theories and expanded treatment practices. Provides a conceptual framework for implementing representative approaches in diverse counseling settings. Emphasizes meeting client needs by maximizing personal and academic development through the counseling process. *Prerequisite: PSY 212, PSY 330 or PSY 360*.

PSY 450: Learning and Cognition (3) (S)
An investigation of the manner in which new information is acquired and retained and how this affects learning acquisition. Emphasizes research methodology, findings, and the appropriate application to human learning and thinking. *Prerequisites: PSY 212, PSY 220, and PSY 350.*

PSY 480: Practicum in Psychology (3) (S)
Participants spend 36 hours of laboratory/field experience under the joint supervision of a field supervisor and a member of the departmental faculty. Emphasizes the application of concepts and principles from coursework to applied field experiences. Students must attend orientation sessions prior to placement as well as debriefing and evaluation sessions during and following the practicum. *Prerequisite: Psychology major in senior year and Departmental Chair's written consent*.

PSY 490: Senior Seminar in Psychology (3) (F; S)
Explores psychological concepts and issues through research projects. Students present individual reports of findings and defend research results. **This course is the capstone course for completion of the major in psychology.** *Prerequisites: PSY 350 and Psychology major in senior year and Departmental Chair's written consent.*

PSY 495: Topics in Psychology (3) (F)
A lecture/seminar/research series which focuses upon various selected topics in the field of psychology.

Prerequisite: PSY 212.

PUBLIC HEALTH COURSE DESCRIPTIONS

PHS 110: Introduction to Public Health (3) (F; SS)
Study of the field of public health, covering a broad spectrum of community health services concerned with personal and environmental factors affecting the health status of individuals and populations. *No Prerequisites.*

PHS 210: Community Health, Safety, and Disease (3) (S; SS)
Health, safety, and disease trends and challenges in various communities. This course requires students to study and research in diverse or unfamiliar communities via direct experiences. *Recommended prerequisites: Any physical, natural, or social science course.*

PHS 310: Environmental Health and Sanitation (3) (F; SS)
Air, water, soil, on-site sewage, radiation, consumer product safety, occupational health, transportation safety, hearing and sight, waste water, housing, ergonomics, disease transmission, disaster preparedness and response, and portable toilets. Participation in direct experiences is required. *Prerequisites: PHS 110 or PHS 210. Can be taken concurrently with PHS 110.*

PHS 322: Principles of Epidemiology (3) (F; S; SS)
Covers basic epidemiological principles, concepts and procedures and provides a basis for an understanding of the concepts and methodological skills necessary for designing and interpreting observational studies. These include validity (random error, bias and confounding), measures of disease occurrence and impact, measures of association, reliability and generalizability, causal inference, and critically reviewing evidence.

PHS 410: Public Health and Bioterrorism (3) (S; SS)
Explores bioterrorism and related topics via direct experiences. Study, research, and integration into diverse or unfamiliar communities are required. Can be taken concurrently with PHS 410. *Prerequisites: Professional health care or community service experience or PHS 110 or PHS 310. Requirement: An ability to develop, use, and interpret a wide variety of graphical material.*

PHS 420: Local Public Health Agency Field Experience (3) (F; S; SS)
Placement in a local public health agency of the student's choice. Each student assists in the development of his or her placement which reflects the student's particular areas(s) of interest. *Prerequisite: Consent of instructor and participating agency and completion of the PHS series: PHS 110, PHS 210, PHS 310, and PHS 410.*

PHS 421: State PHS Agency Field Experience (3) (F; S; SS)
Placement in a state public health related agency of the student's choice serving health, safety, or sanitation needs of a targeted population. Each student assists in the development of his or her placement which reflects the student's particular areas(s) of interest. *Prerequisite: Written consent of instructor and participating agency, completion of 12 hours of Public Health courses.*

PHS 422: Federal PHS Agency Field Experience (3) (F; S; SS)
Placement in a Federal public health related agency of the student's choice serving health, safety, or sanitation needs of a targeted population. Each student assists in the development of his/her placement which reflects the student's particular areas(s) of interest. *Prerequisite: Consent of instructor and participating agency, completion of 12 hours of Public Health courses.*

PHS 423: Non-Profit Organization Field Experience (3) (F; S; SS)
Placement in a nonprofit organization of the student's choice serving health, safety, or sanitation needs of a targeted population. Each student assists in the development of his/her placement which reflects the student's particular areas(s) of interest. *Prerequisite: Consent of instructor and participating agency, completion of 12 hours of Public Health courses.*

PHS 424: Private Corporation PHS Field Experience (3) (F; S; SS)
Placement in a private corporation of the student's choice serving health, safety, or sanitation needs of a targeted population. Each student assists in the development of his/her placement which reflects the student's particular areas(s) of interest. *Prerequisite: Consent of instructor and participating agency; completion of 12 hours of Public Health courses.*

PHS 425: International PHS Field Experience (3) (F; S; SS)
Placement abroad through an international agency of the student's choice serving health, safety, or sanitation needs of a targeted population. Each student assists in the development of his/her placement which reflects the student's particular areas(s) of interest. *Prerequisites: Written consent of instructor and participating agency, completion of 12 hours of public health courses. Requirements: valid passport, updated and complete immunization record, ECSU travel waiver, life insurance, international travel insurance, demonstrated cultural familiarity, and demonstrated commitment toward promoting improvements in health, safety, and sanitation in diverse communities.*

RELIGION COURSE DESCRIPTIONS

RELG 200: Introduction to Religion (3)
Religion as historical and cultural phenomenon,

explored in its aesthetic, anthropological, ethical, historical, literary, philosophical, political, psychological, and sociological dimensions. This course is one of four required courses needed for the Religious Studies Minor (HIST 330, HIST 331, HIST 332). *No Prerequisites.*

RETIREMENT PLANNING COURSE DESCRIPTIONS

See Course Listings under Banking & Finance.

SOCIAL WORK COURSE DESCRIPTIONS

SOWK 205: Introduction to Social Work (3) (F; S)
This course provides an overview of the profession of social work and introduces students to the history, mission, methods, and value base of the profession. Emphasis is on vulnerable and disadvantaged populations, generalist practice, and diverse fields of practice where professional social workers are employed. *No Prerequisite.*

SOWK 210: Fundamentals of Interviewing (3) (F; S)
This course introduces the various skills needed in conducting professional interviews. Students gain knowledge and practice skills to interact and engage with individuals and families. Specials emphasis is placed on communication skills, verbal and non-verbal behaviors, and professional observations (first course in the professional social work practice sequence). *No Prerequisite (Non-Majors), Prerequisite SOWK 205 (Social Work Majors).*

SOWK 220: Human Diversity (3) (F; S)
This course introduces students to the various dimensions of human diversity. These dimensions include, but are not limited to, race, ethnicity, gender, sexual orientation, age, and social class. *No Prerequisite (Non-Majors), Prerequisite SOWK 205 (Social Work Majors).*

SOWK 247: Rural Social Work Practice (3) (S)

This course introduces students to social work practice in rural communities. The course examines problems, issues, needs, strengths, challenges, and other conditions unique to rural and isolated communities. Emphasizes community-based service providers and public policies that impact rural and isolated communities. *Prerequisite: SOWK 205.*

SOWK 250: Introduction to Social Welfare (3) (S)
This course provides an overview of the historical and contemporary development of social welfare in the United States. It also examines social problems, social policies, and service delivery systems. *Prerequisite: SOWK 205 and 210.*

SOWK 255: Faith-Based Organizations (S)

This course explores and examines the historical and contemporary roles of faith-based organizations as informal social welfare providers. The course introduces students to the different types of faith-based organizations and newly enacted social welfare policies such as Charitable Choice and other faith-based initiatives developed to increase church-state partnerships. Emphasis is placed on the role of faith-based organizations in social service delivery and community development. *Prerequisite: SOWK 205.*

SOWK 260: Human Behavior in the Social Environment I: Childhood and Adolescence (S)
Part one of a sequence of two courses that examines human behavior from a generalist social work practice perspective within the context of cultural, biological, psychological and sociological dimensions of human development. This course focuses on stages of human development from infancy to adolescence. *Prerequisites: SOWK 205.*

SOWK 280: Introduction to Gerontology (3) (F)
This course introduces students to basic knowledge concerning the elderly. It is designed to demystify myths and provides realities about the aging process. Students are introduced to aging demographics, housing arrangements, financial services, and various organizations that assist the elderly population. *No Prerequisites.*

SOWK 333: Social Work in Health Care (3) (S)

This course introduces students to the specialized knowledge, skills, and ethical standards central to effective social work practice in health care settings. Special attention will focus on advanced practice skills and strategies relevant to health care settings with individual, families, groups, interdisciplinary teams, and service providers. This course also examines the roles and functions of health and medical social workers working in a variety of health care settings. Social work practice will be explored in the context of the psychosocial crisis of short and long term illnesses, disabilities and community-wide disasters, crisis related to injury, and loss throughout the lifespan. *Prerequisites: SOWK 205, 210, and 220.*

SOWK 342: Crisis Intervention (3) (S)
This course provides students with knowledge and skills needed to recognize and intervene appropriately in crisis situations. Special attention is given to the history of crisis intervention. Various crisis situations (i.e. homelessness, divorce, injury, unemployment, and natural disasters) will be explored. *Prerequisites: SOWK 205, 210, or written consent from the Instructor.*

SOWK 343: Social Work with Children (3) (F)
This course focuses on problems, needs and services for children. Psychosocial development, intervention skills, theories, and techniques for working with children are emphasized in this course. *Prerequisites: SOWK 205, 210, 220, or Instructor's written consent*.

SOWK 363: Social Work Practice I: Organizations and Communities (3) (F)
This course introduces students to the generalist social work practice with organizations and communities in rural areas. Emphasis is placed on community organizing and development, community resources, supervisors and supervision, and Macro theories. *Prerequisites: SOWK 205, 210, 220, 250, and 260 and Admission to the Social Work Program.*

SOWK 370: Social Welfare Policy (F)
This course examines national and international social welfare policies and programs that impact populations-at-risk. Students will be provided with an analytical framework for examining social welfare policies and programs. *Prerequisites: SOWK 205, 210, 220, 250 and 260 and Admission to the Social Work Program*.

SOWK 372: Human Behavior in the Social Environment II: Adulthood (F)

This course is Part two of a sequence of courses that examine human behavior from a generalist social work practice perspective within the context of cultural, biological, psychological and sociological dimensions of human development. Focuses on young to later adulthood. *Prerequisites: SOWK 205, 210, 220, 250, 260 and Admission to the Social Work Program*.

SOWK 377: Social Work in the School (3) (S)

This course is designed to help prepare students for social work in the public school system. A special focus is placed on educational services to diverse groups of students including special needs immigrants, physically and mentally challenged and homeless individuals. A range of contemporary issues relevant to school-based services are explored (i.e. bullying, weapons in school and school violence). This course also addresses current federal and state (NC) laws and school social work ethics as they relate to practice with children and their families. *Prerequisites: Admission to the Social Work Program or Instructor's written consent*.

SOWK 385: Spirituality and Social Work Practice (3) (S)
This course provides an opportunity for students to explore the role of spirituality in social work practice. This course provides an overview of the specialized knowledge, values, and skills needed to prepare students for spiritually-sensitive and culturally competent social work practice. Emphasis is on the various definitions of spirituality, the difference between spirituality and religion, major world religions and spiritual traditions, spiritual assessment tools, and how to conduct spiritual assessments across cultures. *Prerequisite: SOWK 205*.

SOWK 390: Research Methods in Social Work (S)
Introduces the social work research process. Topics include basic principles in social work research, problem formulation, research questions and hypotheses, data collection and analysis, single subject designs and social work research ethics. *Prerequisites: SOWK 205, 210, 220, 250, 260, SOC 245 and Admission to the Social Work Program*.

SOWK 395: Women and Religion (3) (F)
This course examines women's historical and contemporary beliefs, practices, and roles as they relate to religion and gender issues. *No Prerequisite*.

SOWK 400: The Aged and Society (3) (S)
This course focuses on the social development of the elderly. Emphasis is on social security, housing, long-term care, Medicaid, Medicare, and activities of daily living as it impacts the elderly population. *Prerequisites: SOWK 205, 280 and 372 or written consent from the Instructor*.

SOWK 405: Social Work and the Law (3) (F)

Emphasis is placed on crime and domestic violence, delinquency and juvenile justice, child welfare education, guardianship, mental health, and disabilities. Students will be given the opportunity to review legal documents, read case laws and statutes, and observe courtroom proceedings. *Prerequisites: Admission to the Social Work Program, SOWK 372, or Instructor's written consent*.

SOWK 440: Perspectives on Death and Dying (3) (F)
This course provides historical and contemporary perspectives on death, dying, and bereavement. Students will explore various cultural, religious, and spiritual beliefs and practices used to embrace the death and dying process. *Prerequisites: SOWK 260 and 372 or Instructor's written consent*.

SOWK 442: Social Work Practice II: Individuals, Families, and Groups (3) (S)
Focuses on generalist social work practice with individuals, families and groups in the rural context. Students apply the Generalist Intervention Model to work with various sized systems. This course must be successfully completed before enrollment in SOWK 444. *Prerequisites: SOWK 205, 210, 220, 250, 260, 363, 370, 372 and Admission to the Social Work Program*.

SOWK 444: Social Work Field Education and Seminar I (6) (F)
Students work in selected human service agencies. 220

hours are required for the completion of the first half of the Field Education Experience. The Field Seminar is designed to enhance the field education experience. Students gain an opportunity to integrate theory and practice, discuss pertinent issues and concerns, and to share new insights as they relates to the social work profession. Emphasizes the knowledge, values, and skills of generalist social work practice. *Prerequisites: Completion of all pre-professional and professional social work courses, Admission to the Social Work Program, and written consent from the Director of Field Education*.

SOWK 445: Social Work Field Education and Seminar II (6) (S)
A continuation of the Field Education Experience (SOWK 444). 220 hours are required for the completion of the second half of the Field Education Experience. Students gain an opportunity to discuss pertinent issues and concerns. Emphasizes the application of theory, intervention techniques, policy, research, and the use of the professional self. *Prerequisites: Completion of SOWK 444 with a "C" or higher and written consent from the Director of Field Education*.

SOWK 450: Life and Living: Coping with Dying (3) (S)
This course is part two of a sequence of courses focused on dying and bereavement. It is designed to provide intervention techniques to help individuals cope and adapt to life after the death of a loved one. Emphasis is placed on cultural, religious, and legal issues facing survivors readjusting to society. *Prerequisites: SOWK 260, 372, and 440 or written consent from the Instructor.*

SOWK 469: Independent Research for Special Populations (3) (F; S)
This course is designed to assist students in independent research on a selected special population of interest with emphasis on older adult issues and concerns. *Prerequisites: SOC 245 and SOWK 390 or related research course or written consent from the Instructor*.

499- Capstone Course In Religion and Social Work (3) (F:S)
Students will engage in Directed Independent Study that emphasizes an area of interest in religion and social work. Students will work with a Professor on an individual basis who have an interest in the selected topic

SOCIOLOGY COURSE DESCRIPTIONS

SOC 201: Introduction to Sociology (3) (F; S)
Explore the nature of sociology as a social science, the sociological perspective or "sociological imagination," the key concepts and theories of sociological analysis, and the structure and changing nature of America's culture and social institutions. *No Prerequisite.*

SOC 201H: Introduction to Sociology Honors (3) (S)
Sociology is the systematic and scientific study of human social behavior. Introduces sociological concepts, theories, methods, and research findings and includes topics such as social stratification, race relations, sex roles, and deviance. Entails self-directed study and in-class discussion of independent research projects.

SOC 202: Social Problems (3) (F; S)
Defining and analyzing social problems, including the social construction of social problems, the nature and the extent of different social problems such as drugs and alcohol, poverty, unemployment health care, aging, crime and delinquency, prejudice and discrimination, and social problem research or policy connections. *No Prerequisite.*

SOC 245: Social Statistics (3) (F)
Explore the nature of scientific methods and the art of scientific research, significance of statistics for social research and social policy-making, methods of data collection, organization, analysis, and interpretation including different descriptive and inferential statistical principles. *Prerequisite: SOC 201.*

SOC 297: Social Research Methods (3) (S)
Examine the nature and the methodology of social sciences, the nature of causality in social sciences, theory-research connections, competing methods of social research, techniques of social surveys, GSS (General Social Survey) data, and research-policy connections. *Prerequisite: SOC 245.*

SOC 302: Race and Ethnic Relations (3) (F; S)
Examine the evolving nature of America's social and cultural diversity in terms of different race and ethnic groups (Whites, Blacks, Hispanics, Asian-Americans, and American-Indians), the social and cultural differences between and among different races and ethnic groups; issues of racial prejudice, hatred, and discrimination, and the emerging laws and policies for a more inclusive society and culture in America in the 21st century. *No prerequisite.*

SOC 305: Sociology of the African-American (3) (S)
Explore the historical nature of the formation of African-American families, the shifting structure and nature of African-American families in the post-civil rights era, and the emerging service economy in the United States. *No prerequisite.*

SOC 306: Urban Sociology (3) (F)
Examine the emergence and the evolution of cities, the historical nature of urbanization in America, theories of urbanization and "urbanism as a way of life," the

emergence of new cities in the context of globalization, and the social and cultural impact of cities and suburbanization. *Prerequisite: SOC 297.*

SOC 345: Introduction to SPSS (3) (F)

This course is an introduction to the Statistical Package for the Social Sciences (SPSS), a computer software for data processing and statistical analysis, enabling students without knowledge of programming or without programming aspirations to utilize the computer for scientific research. *No prerequisite.*

SOC 360: Social Psychology (3) (S)
Examine individuals and society from a socio-psychological perspective, particularly focusing on the influence of society on individuals, personality development, adult socialization, role behavior, self-evaluation, and conformity. *Prerequisites: SOC 201, PSY 212.*

SOC 385: Social Theory (3) (F)
Examine the role of theorizing in science and the history of social theory, the rise of classical sociological theories including the writings of Comte, Marx, Durkheim, Simmel and Weber, and the nature of the contemporary sociological theories of Parsons, Merton, C.W. Mills, Goffman and Wallerstein. *Prerequisite: SOC 201.*

SOC 401: The Family (3) (S)
Examine the history, origin, structure, functions, and roles of families as a core social institution. *Prerequisite: SOC 385.*

SOC 412: Social Stratification (3) (S)
Examine the characteristics of social stratification, theories of social stratification, the rise of a new professional and corporate class, forms of social stratification; equal opportunities and the growth of civil rights issues and legislation; and the changing nature of class structure in America. *Prerequisite: SOC 201.*

SOC 480: Seminar in Human Terrain Systems in South Asia (3) (S)

Examine the nature of the Human Terrain Systems (HTS) in South Asia, which is now a diaspora of many conflicting and contrasting ideals and ideologies in the socio-political-cultural spheres of the region, to enhance the socio-political-cultural knowledge base for effective operational decision making of the US military. *Prerequisite: SOC 201.*

SOC 481: Population (3) (S)
Examine the composition and characteristics of population and population processes such as fertility, mortality, migration trends in population growth, the nature of contemporary global migration, identify social and economic impact of population changes, and the nature of problems of the graying of America. *Prerequisite: SOC 385.*

SOC: 488: Seminar in Sociology (3) (F; S)
This course is a comprehensive survey of the fields of sociology with emphasis on independent study and group discussion of recent developments and trends. Students will complete independent reading and research on a topic to be selected under the supervision of an instructor. (Papers and oral reports as appropriate.) *Prerequisites: SOC 297 and 385.*

SPACE SCIENCE COURSE DESCRIPTIONS

See Course Listings under Aviation Science.

SPANISH COURSE DESCRIPTIONS

SPAN 101/102: Elementary Spanish (3/3) (F; S; S)
Basic grammar, pronunciation, and reading for vocabulary building, cultural aspects and conversation.

SPAN 111/112: Conversational Spanish (3/3) (F; S; S)

Emphasizes the development of skills needed for oral communication. Practical vocabulary is applied to everyday activities through conversation.

SPAN 201/202: Intermediate Spanish (3/3) (F; S)
Review of grammatical principles; development of reading, writing, and conversation skills. Reading and interpretation of selected works; introduction to aspects of Spanish culture. Laboratory practice required of all students. *Prerequisites: SPAN 101, 102 or advanced placement (as determined by the instructor).*

SPAN 303/304: Grammar and Composition (3/3) (F; S)

Advanced study of Spanish grammar with emphasis on intensive practice writing and composition. A two semester course sequence. It is required for the minor in Spanish. *Prerequisites: SPAN 201, 202 or written consent of the department chair*.

SPAN 401/402: *Survey of Spanish Literature (3/3) (F)
Great works of literature representing Spanish and Spanish American writers as representatives of Spanish civilization and culture. *Prerequisites: SPAN 303, and SPAN 304 or advanced placement (as determined by the instructor). *Recommended for students who anticipate graduate study requiring foreign language reading proficiency*.

SPEECH COURSE DESCRIPTIONS

SPCH 201: Voice and Diction (3) (F)
Introduces principles of enunciation, elocution, voice

development and improvement, vocal variety and expressiveness. Focuses on using the voice effectively, including volume, projection, rate and phrasing, inflection, and resonance. A cursory study of the International Phonetic Alphabet is presented.

SPCH 214: College Speech (2) (F; S)
An introductory course in the principles of rhetoric, organization, style, and delivery as employed in formal public speaking.

SPCH 312: Oral Interpretation of Literature (3) (F)
Study and practice in analysis and presentation of literature through oral interpretation. Techniques of oral reading studied and applied in classroom assignments and demonstrations. Designed for future teachers of English and language arts, as well as students of drama. *Prerequisites: GE 103 or GE 105H; GE 201, 202 or 203H, 204H and speech proficiency as determined by instructor*.

SPCH 314: Public Speaking (3) (F; S; SS)
A study of the principles of rhetoric, organization, style, and delivery as employed in the formal public speaking mode. Students present speeches that inform and persuade. Delivery techniques and impromptu theories of public address are introduced.

SPCH 316: Argumentation and Debate (3) (F)
Enhances learning skills in the areas of writing, speaking, critical thinking, research, and analysis by utilizing principles of planned discussion and persuasion. It is specifically intended to improve the oral expression of students through the delivery of arguments in debates and critiquing the arguments of others.

STATISTICS COURSE DESCRIPTIONS

STAT 251: Basic Statistics (3) (F; S)
Introduction of display of data, numerical descriptive measures of data, basic idea of probability and probability distributions, sampling distribution of mean, estimation and hypothesis testing of one mean and one proportion, simple linear regression, and correlation. *Prerequisite: GE 115.* STUDENTS MUST PURCHASE MATHXL FOR THIS COURSE.

STAT 351: Probability and Statistics I (3) (F)
Calculus-based course in probability and statistics covering random variable, probability distributions, probability densities, distribution functions, sampling distributions, expectation, and moment generating functions. Also covers introduction of multivariate distribution including regression and correlation. *Prerequisite: MATH 165 or MATH 153.*

STAT 352: Probability and Statistics II (3) (S)
Estimation and hypothesis testing theory. Analysis of variance. Simple and multiple regression. Analysis of categorical data. Non-parametric methods. *Prerequisite: STAT 351.*

ENGINEERING TECHNOLOGY COURSE DESCRIPTIONS

ENGT 100: Introduction to Engineering Technology (2) (F)
An introduction to the different disciplines within engineering technology: computer literacy, mathematics, problem solving techniques, use of scientific calculators, communication, the application of computers in preparing documents and plots, basic analysis of electronic circuits, and introduction to ethics and diversity in the engineering field.

ENGT 200: Introduction to Renewable Energy Technologies (3) (F)
This is an interdisciplinary course suitable for both science and non-science majors who would like to learn about energy, renewable energy resources, and potential solutions to energy crisis. Topics include, in part, fossil fuel and nuclear energy, combined heat and power and renewable energy resources such as wind, hydro, tidal, photovoltaic solar, solar thermal, geothermal, fuel cell, and bioenergy. Prerequisite: none.

ENGT 205: Circuit Analysis (4) (F)
Introduces fundamentals of direct and alternating current circuits. Topics include principles of DC and AC electrical systems, passive electrical components, circuit fundamentals, circuit theorems and conversions, and complex analysis techniques, magnetism, transformers, RC, RL, LC, and RLC series/parallel circuits, and passive filter design techniques. Computer-based circuit modeling and circuit drawing are covered. (3 hrs lecture, 2 hrs lab) *Prerequisite: GE 118 or ENGT 100L.*

ENGT 210: Materials and Processes (4) (S)
This course provides an introduction of basic engineering materials (metals, polymers, ceramics, and composites) and their manufacturing processes. Topics include classifications, structure, properties, and treatment of metals, inspection and testing techniques for engineering materials. Manufacturing topics include casting, cold and hot metal forming, machining and joining processes. Related laboratory activities include experiments with technical reports. (3 hrs lecture, 2 hrs lab)

ENGT 215 PC Hardware & Software Support Technology w/Lab (formerly PC Support Technology) (3) (S)

Covers basic personal computer system support including installation, configuration, and preventive maintenance, and troubleshooting and upgrading of hardware and software components. Topics include safety practices, configuration and documentation, use of diagnostic and recovery software, peripheral installation and testing, operating system and application software installation and support. Students taking this course are expected to know how to operate a PC computer. (2 hrs lecture, 2 hrs lab) *Prerequisite: ENGT 100 or CSC 115*.

ENGT 220 Instrumentation and Measurement System (3) (F)

Covers the basics of graphical programming and adopts LabVIEW as design software to introduce basics of programming for data acquisition. Students implement data acquisition/measurement systems using DAQ devices and Virtual instruments. *Prerequisite: ENGT 100*.

ENGT 225: Introduction to Bioenergy (3) (S)

This course prepares students for careers in green technology through investigating current techniques used in biofuel production and addressing energy business information. Topics include, in part, overall survey of bioenergy techniques, feedstock sustainability, biodiesel, methane, plant-based oils and pollution considerations. Prerequisite: none

ENGT 230: Material Science (3) (F)

Emphasizes the relationship between structure and properties of industrial materials and their control through composition, mechanical processing, and thermal treatment.

ENGT 235: Analog Circuits (4) (S)

Covers topics in analog devices and circuits. Analog devices such as diodes, BJT, FET, UJT, thyristors (SCR, TRIAC, DIAC), and operational amplifiers. The analog circuit applications such as rectifiers, doublers, multistage amplifiers, basic op-amp circuits, oscillators, A/D and D/A converters are also covered. In addition, a course project introduces students to computer-based circuit design, simulation, and layout. (3hrs lecture, 2hrs lab) *Prerequisite: ENGT 205*.

ENGT 240: Applied Statics (3) (S)

Scalars and vectors, parallelogram law, equilibrium, trusses, friction theory, center of gravity and moment of inertia, and Newton's law of motion applied to linear and circular motion. *Prerequisite: PHYS 191*.

ENGT 245: Introduction to LAN & WAN Technology (3)

An overview of network communications terminology, protocols, and technologies. Students will construct and assess simple LANs and WANs networks and associated networking devices. Topics include TCP/IP and OSI models, TCP/IP fundamentals, network topologies, network classification, networking protocols, propagation media, data encoding and transmission, networking devices, routing techniques, subnetting, ATM and VoIP, wireless LAN (WLAN), virtual LAN (VLAN), and basic network security. Theory covered will be complemented by labs using network simulation tools.

ENGT 250: Introduction to Wind and Hydro Power Systems (3) (S)

This course introduces concepts, designs, tools, techniques, and material requirements for systems that convert wind and water energy into electricity and other usable energy. Topics include, in part, wind science, wind power, hydropower, site assessment, estimating output, economics, wind turbine technology, and systems types and installation. Prerequisite: none.

ENGT 300: Solar Photovoltaic Systems (3) (S)

Photovoltaic system is a method of generating electricity directly from sunlight using semiconductor devices called solar cells. The goal of this course is that students understand the operation of photovoltaic devices, systems and applications. Topics include, in part, introduction to photovoltaic systems, semiconductor basics, solar radiation, site surveys and preplanning, system components and configurations, system sizing, mechanical integration, utility interconnection, economic analysis, and PV system safety. Prerequisite: none.

ENGT 305: Introduction to Autonomous Mobile Robotics (3)

This course introduces students to the field of mobile robotics. Topics include robotic sensors, collision detection and avoidance, locomotion, mobile robot kinematics, mobile robot architecture, manipulation, basics of machine learning, path planning, and localization. Course will include lab experiments using educational mobile robotic platform. *Prerequisite: ENGT 220*.

ENGT 310: Applied Mechanics (4) (F)
This course is divided into two parts. The first part includes vector mechanics of forces and moments, free-body diagrams, equilibrium of particles and rigid bodies, forces in members and structures, distributed forces, friction, centroids and center of gravity and moment of inertia. The second part covers topics on rectilinear motion, angular motion, plane motion, kinetics, work, energy, power, impulse and momentum. *Prerequisite: PHY 191 or MATH 165*.

ENGT 315: Network Operating Systems & Server Technology (formerly Operating Systems for Technology) (3) (F)
Covers operating system concepts and procedures for installing and supporting computer systems. Topics include modern Windows OS, disk storage, and UNIX user commands, file system and management, Network Operating Systems, basic scripting, system support and security issues. (2hrs lecture, 2hrs lab) *Prerequisite: ENGT 100 or CSC 115*.

ENGT 320: Applied Fluid Mechanics (3) (S)
Principles of static and dynamic behavior of incompressible fluids, buoyancy and stability of body fluids, momentum and energy consideration in fluid flow, and as introduction to compressible gas dynamics. *Prerequisite: ENGT 310*.

ENGT 335: Digital Circuits (4) (F)
Introduces basic digital gates and Boolean algebra. Topics involve designing and testing both combinational and sequential digital logic circuits such as counters, oscillators, memory systems, and switches. Students also learn programming logic circuits design using PLDs. Students implement Combinational logic and sequential logic designs using gates, MSI and LSI IC's. Emphasizes hands-on activities, real-world equipment, and current digital technology. (3hrs lecture, 2hrs lab) *Prerequisite: ENGT 205*.

ENGT 340: Analog & Digital Communications (formerly Network Communication I) (3) (S)
Covers topics from modern communication system. Topics include antenna theory, source coding, signals and systems, carriers and symbol synchronization algorithms, channel capacity and coding, cyclic redundancy checks, adaptive equalization, multichannel and multicarrier systems, and modulation schemes: ASK, PSK, FSK, and GMSK. Optical fiber communications and dense wavelength division multiplexing (DWDM). (2hrs lecture, 2hrs lab) *Prerequisite: ENGT 235*.

ENGT 345: Routing Protocols & Access Control w/Lab (formerly Network Communications II) (4) (S)
Covers TCP/IP Local Area Network (LAN) and basic Wide Area Network (WAN) connections using CISCO Discovery and Exploration as a guide and using Cisco routers and switches in laboratory. Topics include basic host and router configuration, static routing, TCP/IP configuration, cabling, basic LAN switching, wireless LAN, Distance Vector Protocol, RIPv1, RIPv2, CISCO IOS, WAN connections, and IP troubleshooting. Labs cover using Windows XP laptops/tablet-PCs as hosts and CISCO Catalyst 2950 switches and 2600 routers. (3hrs lecture, 2hrs lab) *Prerequisite: ENGT 340*.

ENGT 350: Programmable Logic Controllers (PLC) (3) (S)
Covers control of systems and industrial processes. Topics include I/O modules, binary concepts, programming languages, addressing, control relays, latching relays, sensors, programming timers, counters and troubleshooting, control instructions, and data compare instructions. (2 hrs lecture, 2 hrs lab) *Co-requisite: ENGT 335*.

ENGT 360: Control Systems and Instrumentation (4) (S)
Covers control systems terminology, feeD.B.A.ck control systems, PID, PD, PI and relay controllers, lag-lead compensation, data-acquisition systems, stability, thermal, mechanical and optical sensors. (3 hrs lecture, 2 hrs lab) *Prerequisite: ENGT 235 or MATH 265*.

ENGT 365: Computer Design and Implementation (4) (S)
Studies the internal design of computer systems including data representation, registers, addressing techniques, processor organization. Topics include ALU data path design, arithmetic circuits, memory hierarchy, input/output device interfacing, and programming models. Topics also include multiplication and division algorithms, hardware description language (HDL) modeling, and RISC and CISC architectures. (3 hrs lecture, 2 hrs lab) *Prerequisite: ENGT 335*.

ENGT 385: Strength of Materials (3) (S)
Students will have the opportunity to learn how to apply the fundamentals of strength of materials as relate

to concepts of stress, strain, shear, bending, torsion, and deflection of deformable bodies such as bars, shafts, beams, columns, and pressure vessels. Students are required to demonstrate proficiency in calculating stresses and strains in bars, beams, and shafts when subjected to axial forces, torsional/ bending moments, thermally induced forces and combinations of these loadings; analyzing external and internal forces and moments; calculating deflections of beams; calculating angles of twist of shafts; and design of bars, shafts, and beams. **Prerequisite: ENGT 310 Applied Mechanics**

ENGT 400 Advanced Mobile Robotics: UGV (3)

Introduces the advanced mobile robotics system. Students learn fundamental of sensor fusion and estimation techniques, occupancy grid mapping, optimal control and motion planning. Course includes lab experiments leading to case studies in autonomous robotic vehicle system. *Prerequisite: CSC 300*.

ENGT 405: Automation and Robotics (4) (F)

Covers theory and practice of systems used in an automated manufacturing environment to perform industrial functions. Topics include vision systems, application of control programming, CNC, and robotics programming. (3 hrs lecture, 2 hrs lab) *Prerequisites: ENGT 350 and CSC 115*.

ENGT 410 Mechatronics System Design

Introduces the field of mechatronics, synergy between electronics and mechanical systems. Topics include modeling and simulation of real-time embEd.D.ed system, prototyping and programming of mechatronics systems, design of computer control system with sensor and actuator interfaces, and hardware-in-loop testing. Includes lab experiments using graphical programming, reconfigurable hardware and real-time hardware targets. *Prerequisite: ENGT 360*.

ENGT 415: Machine Design (3) (F)

Covers topics related to stress analysis, the strength of mechanical elements, design of machine elements such as gears, belt drives, chain drives, screws, fasteners, connectors, and springs, welded, brazed, and bonded joints, bearings, shafts, cams and flexible mechanical elements, and statistical considerations in design. *Prerequisite: ENGT 385*.

ENGT 420: Thermal Systems (3) (s)

This course provides a study of the fundamental laws of thermodynamics and heat transfer. Topics include thermodynamic system properties, properties of pure substances, ideal gases, open and closed systems, 1st and 2nd law of thermodynamics and their application to various ideal and real life thermal systems, and analysis of heat exchangers. Heat Transfer topics include analysis of 1-D heat transfer in solids and liquids by various heat transfer mechanisms (conduction, convection, and radiation). Prerequisite: *PHYS 191/L Univ. Physics I*

ENGT 425: Thermal-Fluid Lab (1) (S)

This course is composed of a number of laboratory experiments that are designed to reinforce the principles of thermodynamics, heat transfer, and fluid power (concepts covered in ENGT 420 and ENGT 320) and develop skills in experimental set-up, data collection and analysis, interpretation of results, and writing reports. (2 hrs lab). **Co-requisite: ENGT 420 Thermal Systems.**

ENGT 430: Heating, Ventilation and Air Conditioning (HVAC) (3) (F)

Principles of heating, ventilation, and air conditioning and their applications to environmental comforting. Determination of building heating and cooling loads, heat pumps, humidity control, cooling ventilation, integrated systems, controls and instrumentation. *Prerequisite: ENGT 420*.

ENGT 440: Mobile and Wireless Network (3) (S)

Covers the state of the art in mobile and wireless network systems that are currently being deployed. Topics include broaD.B.A.nd wireless IEEE 802.16, wireless IEEE 802.11 wireless LAN, mobile ad hoc network, mobile IP, Bluetooth, and cellular systems fundamentals. Topics also include medium access control (MAC), quality of service (QOS), scheduling, location discovery, and routing and topology control in ad hoc networks. *Prerequisite: ENGT 340*.

ENGT 445: Enterprise Ethernet Switching Technology (formerly Network Communications III) (3) (F)

Covers advanced Routing and Switching for LAN-WAN networking using CISCO Discovery and Exploration as guide and using CISCO routers and switches in laboratory. Topics include Variable Length subnetting (VLSM), Classless routing, Link-state routing, OSPF, EIGRP, VLAN's, VLAN Trunking. We will implement advanced routing protocols and switching configuration using Windows XP laptops/tablet-PCs as hosts and CISCO Catalyst 2950 switches and 2600 routers. (3 hrs lecture, 2 hrs lab) *Prerequisite: ENGT 345*.

ENGT 455: Senior Seminar (1) (F)

Covers topics in engineering technology to prepare

students for the capstone senior project. The student performs the initial research needed for the senior project course and prepares the written proposal for senior project. *Prerequisite: Senior standing and permission of academic advisor*.

ENGT 460: Engineering Software Applications (3) (S)

Covers software applications and theory in reverse engineering and engineering analysis, and develops the fundamental concepts. Topics include stress-strain relations, von Misses stress, mesh modeling, stress analysis for frames, beams, holes, pressure vessels, bolted jolts, and contact analysis. *Prerequisite: ENGT 415. or ENGT 385.*

ENGT 465: Microprocessors and Microcontrollers (4) (F)

Covers microprocessor /microcontroller hardware and software, and the theoretical and practical aspects of interface design. Architectural features of microcontrollers such as PIC or 8051 are examined. Peripheral devices for interfacing design are also covered. The laboratory portion provides practical hands-on experience with the PC trainer kits, PicBasic Pro programming, interfacing and application of the microprocessor/microcomputer to real world systems. (3 hrs lecture, 2 hrs lab) *Prerequisite: ENGT 365*.

ENGT 470: Enterprise Network Security & Administration (formerly Network Administration and Security) (4) (S)

Covers network administration and security using advanced routers and switches. Topics include advanced router and switch management, Firewall technologies, access control lists, encryption algorithms, authentication, Intrusion Detection and Prevention, VPN access, RADIUS and SYSLOG servers, WIRESHARK packet analyzer, and troubleshooting IP networks. Security labs using CISCO 2600/2811 routers and CISCO 2950/2960 switches will be covered. (3 hrs lecture, 2 hrs lab) *Prerequisite: ENGT 445.*

ENGT 475 Aerial Robotics/UAV: Sensors & Controls

Develops skills in configuring and utilizing network forensics tools to capture suspicious data and recognize traffic patterns associated with suspicious network behavior. Topics include principles and applications of network forensics analysis, configuring various forensics tools for network forensics analysis, reconstructing suspicious activities (e-mails, file transfers, or web browsing) for detailed analysis and evidentiary purposes, security threat recognition, encryption technologies, and defensive configurations of network infrastructure devices. *Prerequisite: ENGT 360*.

ENGT 488: Internship (3) (F; S; SS)

This course provides employment experiences in engineering field. *Prerequisite: Department Chair or Program Coordinator's written consent*.

ENGT 490: Project Management (3) (F; S)

Focuses on the fundamental aspects of managing complex projects, the central role of project management in organizations, the project life cycle, and techniques for project planning, scheduling, and controlling using situations from technical disciplines. *Prerequisite: Senior standing*.

ENGT 495: Research in Engineering Technology (3) (F; S; SS)

An upper level course involving an independent or group research and design project. Introduces techniques and procedures of technical research. The student learns by assisting the instructor with a research project in the laboratory and industry. All students must complete a project and demonstrate their teamwork, communication, and problem-solving skills in the real work project. Submission of written report and final oral presentation are required. *Prerequisite: Senior standing and written consent of the chair or engineering technology coordinator*.

ENGT 499: Capstone Senior Project (3) (S)

Individual students or teams propose and design a device, system, or process using senior level tools. Topic and implementation project to be jointly agreed upon by student and faculty member and should be related to the student's discipline. Includes planning, designing, testing, working on a team, writing a report, demonstrating, and presenting the project. *Prerequisite: ENGT 455*.

HONORS COURSES DESCRIPTIONS

HON 201/202: Sophomore Honors Seminar (3; 3) (F/S)

The Honors Seminar is a facilitated course that can be taught by multiple faculty members. The course has an interdisciplinary theme. Designed for all sophomore-level or above Honors Program students. Faculty members propose the theme of the course and outline the format of the class. They organize the course, invite guest lecturers, lead primary discussions, give

assignments, and evaluate students. The course includes intensive reading, writing, and research.

HON 301/302: Junior Honors Seminar (3; 3) (F/S)
The Honors Seminar is a facilitated course that can be taught by multiple faculty members. The course has an interdisciplinary theme. The Honors Seminar may be taken by all junior-level or above and transfer students. Faculty members propose the theme of the course and outline the format of the class. They organize the course, invite guest lecturers, lead primary discussions, give assignments, and evaluate students. The course includes intensive reading, writing, and research. An oral presentation of the research work of this course must be presented at an on-campus research forum. *Prerequisite: Instructor's or Honors Program Director's written consent*.

HON 399/499: Honors Independent Study (3; 3) (F/S)
Study of special topic(s) in consultation with, and completed under the supervision of, a member of the Honors faculty or another faculty member upon approval of the Director of the Honors Program and the Honors Council. *Prerequisite: Junior or Senior standing in the Honors Program*.

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Professors		Year Conferred
Mollie Majette Beasley	Physical Education	1995
Thaddeus Vernon Beasley	Biology	1995
Helen Marshall Caldwell	English	1998
Thomas Lee Caldwell*	Physical Education	1992
A. Latif Choudhury*	Physics	2007
Naginder Dhillion	Political Science-2	2009
Vincent John de Gregorio*	Art	1986
William Rankin Gibson	Industrial Arts	1991
Rachel Gragson	Music	2007
Anne Marie Henderson*	English	1994
Dale Edward Henderson Sr. ’72*	Social Sciences	1994
Julia Moore Hoffler*	English	1978
Floyd Bernard Holley*	Sociology	1994
Johnny L.Houston	Math and Computer Science	2010
Barbara L. Johnson	Education	2013
Evelyn Adelaide Johnson*	Music	1976
Carol Calloway Jones	English	2004
Clara Griffin Jones ’36 ’40*	Education	1986
Sultana A. Khan	Physics	2014
Helen Hemmingway Muldrow	Biology	1986
William Julius Muldrow*	Psychology	1983
Bishop Marvin Patterson*	Technology Education	1992
Dan Mitchell Pearce*	Art	2001
Bernard Lee Peterson, Jr.*	English and Drama	1988
William Porter	Geology	2015
Maurice Cary Powers*	Geology	1991
Andrew Lee Roberts*	Education	1995
Floyd L. Robinson	Music	2001
Georgia Long Smith*	Health	1987
Hazel Gallop Spellman ’41*	Reading	1994
Lawrence Edwin Sugg *	English and Journalism	1986
Louise Nixon Sutton *	Mathematics	1987
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Curtis Delano Turnage ’67*	Biology	1995
Rochelle Vann ’47 *	Social Sciences	1994
Robert Louis Vaughan	Physical Education	1995

***** *Deceased*

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