



BURGIN E. DOSSETT HALL

East Tennessee State University
2009-2010 Undergraduate Catalog

Directory Information

**East Tennessee State University
Johnson City, Tennessee
Zip Code (37614)/Area Code (423)**

General Inquiries/Campus Operator	439-1000
Admissions	439-4213
Admissions (Toll Free)	1-800-462-3878
Registration and Records	439-4230
<i>Registration, Programs of Study, Degree Requirements, Academic Regulations</i>	
Student Affairs	439-4210
Office of Financial Services	439-4212
Financial Aid	439-4300
Housing and Residence Life	439-4446
University Alumni	439-4218
Graduate Studies	439-4221
Continuing Studies	439-8300
Parking Office	439-5650
Career & Internship Services	439-4441
Cooperative Education	439-5388
Veterans Affairs	439-6819
Intercollegiate Athletics	439-4343

Colleges and Schools

Arts and Sciences	439-5671
Business and Technology	439-5489
Clinical and Rehabilitative Health Sciences	439-7457
Continuing Studies	439-8300
Education	439-7626
Graduate Studies	439-4221
Honors College	439-6076
Medicine	439-6315
Nursing	439-7186
Pharmacy	439-2068
Public Health	439-4243

Centers

ETSU at Kingsport	392-8000
Marshall T. Nave Center (Elizabethton)	547-4900

Academic Calendar 2009-2010

Fall Term 2009

*Aug. 29-30	No Registration
Aug. 31	First day of classes
Sept. 10	Last day to late register or late add a course
Sept. 7	Labor Day Holiday
Sept. 11	Last day to drop without a grade of "W"
Sept. 11	Application deadline for May graduation
Oct. 19-20	Fall Break
Nov. 26-27	Thanksgiving Holidays
Dec. 9	Last day to withdraw from the university
Dec. 11	Last day of classes
Dec. 12-17	Final Examinations
Dec. 19	Commencement

Spring Term 2010

*Jan. 12-13	No Registration
Jan. 14	Classes begin
Jan. 18	Martin Luther King holiday
Jan. 20	Last day to late register or late add a course
Jan. 27	Last day to drop a course without a grade of "W"
March 8-13	Spring Break
March 10	Last day to drop a course
April 2	Flexible Day - university closed
April 28	Last day to withdraw from the university
April 30	Last day of classes
May 1-6	Final Examinations
May 8	Commencement

Summer Term 2010

Complete Session, May 17 - Aug. 13

Pre-Summer, May 17 - June 4

*April 5	Registration begins
May 17	Classes Begin
May 18	Last day to late register or Late add a Pre-Summer course
May 21	Last day to drop a course without a grade of "W"
May 27	Last day to drop a course
May 31	Memorial Day Holiday
June 2	Last Day to withdraw
June 4	Last day of classes

Dual Session, June 7 - Aug. 13

Session 1, June 7 - July 9

April 5	Registration begins
June 7	Classes begin
June 9	Last day to late register or Late add a course (Session 1)
June 11	Last day to drop a course without a grade of "W" (Session 1)
June 10	Last day to late register or Late add a course (Dual Session)
June 18	Last day to drop a course without a grade of "W" (Dual Session)
June 25	Last day to drop a course (Session 1)
July 5	Independence Day Holiday
July 7	Last day to withdraw (Session 1)
July 9	Last day of classes (Session 1)

Session 2, July 12 - Aug. 13

April 5	Registration begins
July 12	Classes begin
July 14	Last day to late register or Late add a course (Session 2)
July 16	Last day to drop a course with grade of "W" (Session 2)
July 30	Last day to drop a course (Session 2)
Aug. 11	Last day to withdraw Session 2 and Dual Session
Aug. 13	Last day of classes

*See "Schedule of Classes" for complete registration dates.

**East Tennessee State University
Johnson City, Tennessee**

Vol. XCVI

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POSTMASTER: send address changes to:

East Tennessee State University
Office of Admissions
Box 70731
Johnson City, Tennessee 37614-1707

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East Tennessee State University is a Tennessee Board of Regents institution and is fully in accord with the belief that educational and employment opportunities should be available to all eligible persons without regard to age, gender, color, race, religion, national origin, disability, veteran status, or sexual orientation.

The Tennessee Board of Regents is the nation's sixth largest higher education system, governing 45 post-secondary educational institutions. The TBR system includes six universities, 13 two-year colleges, and 26 technology centers, providing programs to over 180,000 students in 90 of Tennessee's 95 counties.

Public higher education in Tennessee is coordinated by the Tennessee Higher Education Commission and consists of two systems — The University of Tennessee campuses, governed by the University of Tennessee Board of Trustees, and the state universities, community colleges, and technology centers governed by the Tennessee Board of Regents. The General Assembly created the Commission in 1967 to achieve coordination and unity among the programs of Tennessee's public post-secondary institutions and to serve as a primary source of information concerning higher education in Tennessee.

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Accreditation
Commission on Colleges of the Southern Association of Colleges and Schools

East Tennessee State University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award baccalaureate, master's, specialist, and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, or call 404-679-4500, with any questions regarding the accreditation of East Tennessee State University.

Memberships

The American Council on Education
 The American Association of State Colleges and Universities
 The Tennessee College Association
 The Council for Advancement and Support of Education
 The Council of Graduate Schools in the United States
 The Council of Southern Graduate Schools
 The Council on Undergraduate Research
 The Tennessee Conference of Graduate Schools
 Association of Academic Health Centers
 Oak Ridge Associated Universities
 Institute of International Education
 National Collegiate Athletic Association
 Atlantic Sun Conference

Please Note:

Degree requirements for programs of study initiated under provisions of this bulletin shall remain in effect for six years. Students not completing requirements within the six-year period may be required to meet subsequent criteria; it is further provided, however, that the six-year limitation may be extended for interruption by military service where enrollment is resumed immediately upon release from service.

The course offerings and requirements of ETSU are continually under examination and revision. This bulletin presents the offerings and requirements in effect at the time of publication, but is no guarantee that they will not be changed or revoked. However, adequate and reasonable notice will be given to students affected by any changes. This bulletin is not intended to state contractual terms and does not constitute a contract between the student and East Tennessee State University.

ETSU reserves the right to make changes as required in course offerings, curricula, academic policies, and other rules and regulations affecting students to be effective whenever determined by the institution. These changes will govern current and formerly enrolled students. Enrollment of all students is subject to these conditions.

Current information may be obtained from the following sources: Admission Requirements-Office of Admissions; Course Offerings-department offering course; Degree Requirements-Office of the Registrar; Fees and Tuition-Office of the Comptroller.

ETSU complies fully with the Family Educational Rights and Privacy Act of 1974, as amended. The complete statement of policy may be obtained from the Office of the Registrar. East Tennessee State University is fully in accord with the belief that educational and employment opportunities should be available to all eligible persons without regard to age, gender, color, race, religion, national origin, disability, veteran status, or sexual orientation.

ETSU provides the opportunity for students to increase their knowledge by offering programs of instruction in the various disciplines and programs through faculty who, in the opinion of ETSU, are qualified for teaching at the college level. The acquisition and retention of knowledge by any student are, however, contingent upon the student's desire and ability to learn while applying appropriate study techniques to any course or program. Thus, ETSU must necessarily limit representation of student preparedness in any field of study to that competency demonstrated at that specific point in time at which appropriate academic measurements were taken to certify course or program completion.

Student Conduct, Rights, and Responsibilities

University students are citizens of the state, local, and national governments and of the academic community, and are, therefore, expected to conduct themselves as law-abiding members of each community at all times. Admission to an institution of higher education carries with it special privileges and imposes special responsibilities apart from those rights and duties enjoyed by nonstudents. In recognition of the special relationship that exists between the action as may be necessary to maintain campus conditions and preserve the integrity of the institution and its educational environment.

Pursuant to this authorization, the Tennessee Board of Regents has developed regulations which are intended to govern student conduct on the campus. In addition, students are subject to all national, state, and local laws and ordinances. If a student's violation of such laws or ordinances also adversely affects the institution's pursuit of its educational objectives, the institution may enforce its own regulations regardless of any proceedings instituted by other authorities. Conversely, violation of any section of the Tennessee Board of Regents regulations or university rules may subject a student to disciplinary measures by the institution whether or not such conduct is simultaneously violative of state, local, or national laws.

A complete statement on institutional student disciplinary rules and procedures can found in the student handbook located in the ETSU telephone directory.

Campus Security Report

East Tennessee State University makes available to prospective students and employees the ETSU Security Information Report. This annual report includes campus crime statistics for the three (3) most recent calendar years and various campus policies concerning law enforcement, the reporting of criminal activity, and crime prevention programs. The ETSU Security Information Report is available upon request from East Tennessee State University Department of Public Safety, Box 70646, Johnson City, Tennessee 37614-1702. The report can be accessed via the Internet at http://www.etsu.edu/dps/security_report.asp.

Tobacco-Free ETSU
Effective – August 11, 2008

East Tennessee State University promotes a healthy, sanitary environment free from tobacco smoke and tobacco-related debris. The ETSU faculty, staff, students, and administration acknowledge that long-term health hazards may accrue to people who use tobacco products or who are subjected to second-hand smoke. The university's failure to address the use of tobacco products on campus would constitute a violation of the Americans with Disability Act and the Vocational Rehabilitation Act, as well as Tennessee law.

This policy, therefore, prohibits the use of tobacco products in all university buildings, on university grounds, and in state-owned vehicles unless exceptions are stated in this policy, which is applicable to all university sites/off-campus locations.

This policy is in effect 24 hours a day, year round, regardless of whether classes are in session. Violations of the policy will be dealt with in a manner that is consistent with university procedures. There shall be no reprisals against anyone reporting violations of this policy.

Exceptions — The use of all tobacco products shall be permitted in private vehicles only.

Misrepresentation of Academic Credentials

It is a Class A misdemeanor to misrepresent academic credentials. A person commits the offense of misrepresentation of academic credentials who, knowing that the statement is false and with the intent to secure employment at or admission to an institution of higher education in Tennessee, represents, orally or in writing that such person:

- (1) Has successfully completed the required coursework for and has been awarded one (1) or more degrees or diplomas from an accredited institution of higher education;
- (2) Has successfully completed the required coursework for and has been awarded one (1) or more degrees for diplomas from a particular institution of higher education; or
- (3) Has successfully completed the required coursework for and has been awarded one (1) or more degrees or diplomas in a particular field or specialty from an accredited institution of higher education.

Student's Bill of Rights

Students along with faculty, staff, and administrators are all members of the East Tennessee State University community. Inherent with such membership is the responsibility to conduct oneself reasonably to maintain a civil community which respects the rights of all individuals.

The student has certain rights guaranteed by the Federal and State Constitutions or statutorily created legislation including:

1. Freedom of inquiry, freedom of speech, and freedom of expression that is respectful or sensitive to the rights of individuals.
2. The right to peaceably assemble, in accordance with federal, state, local, and ETSU regulations.
3. Religious freedom and a clear division of church and state.
4. Freedom from unreasonable search and/or seizure of person, or personal property.
5. Freedom from discrimination or harassment on the basis of gender, age, race, color, religion, national origin, or other protected status.
6. The right to privacy, including the maintenance of confidential records in accordance with provisions of the Family Educational Rights and Privacy Act of 1974 and 1975, qualified by the Tennessee Open Records Law.
7. The right to due process.

The Tennessee Board of Regents grants additional rights including:

1. The right to due process in disciplinary procedures of the university, including written notification of charges, an explanation of procedures, and a hearing before an appropriate administrator or committee.
2. The right to expeditious review of disciplinary sanctions upon appeal.
3. The right to participate in the decision-making process of the university through the Student Government Association (SGA), other student governance organizations, and membership on university standing and advisory committees.
4. The right to affiliate with officially registered student organizations if the membership requirements of those organizations have been met, and the right to seek to establish, through official procedures, additional student organizations of one's choosing.

East Tennessee State University acknowledges that students have a legitimate expectation that:

1. Classes meet as scheduled, and begin and adjourn on time.
2. Course requirements are clearly specified.
3. The instructor is prepared for class and possesses both oral and written communications skills.
4. Paper project grades and test results are received in a timely manner.
5. Information about progress in coursework is provided.
6. The instructor is qualified to teach the subject matter.

Additionally, students have the right to expect:

1. Accurate information concerning institutional services, regulations, policies, and procedures, in published form.
2. Representation in the university governance system.
3. Sound and accurate academic advice, information regarding courses required for graduation, and their schedule sequence.
4. Reasonable notice of any changes in academic requirements or programs and assurance that such changes will not be made in a way that unduly impedes the academic progress of the student already enrolled.
5. Flexibility in course scheduling (by dropping and adding) or withdrawing within university guidelines.
6. Information about the various types of financial assistance available.
7. Freedom to evaluate courses, programs, and services, and provide input to appropriate segments of the campus administration.

Electronic Mail Policy

This policy was adopted by the Information Technology Governance Committee on February 17, 2009.

As email has become an integral part of the academic process, confidential information about ETSU students is being transmitted, including evaluations, grades, and financial information. Faculty, staff, and students must recognize that although there is an expectation of privacy, unencrypted email is not a secure means of transmitting information. While this policy does not prohibit student information from being transmitted by email, caution must be exercised regarding the content of messages.

ETSU provides each student, faculty, and staff member with an official university-assigned email account. All official university communications will be sent to the university email address. Faculty, staff, and students may assume that official ETSU email is a valid communication mechanism. Therefore, the university has the right to send communications to students, faculty, and staff via email and the right to expect that those communications are received and read in a timely fashion. Since this is our primary method of communication, email should be checked at least daily. Although students may choose to forward university email to an external email account, he or she is responsible for all information, including attachments.

Revised 1/2009

Student Complaint Policy and Procedure

East Tennessee State University is committed to maintaining a learning environment which promotes student academic excellence and personal development. Various departments on campus have written procedures which allow students to appeal actions taken by the department which directly affect the student. Students who wish to appeal a specific administrative decision should contact the appropriate department and request an appeal form.

Students who have a concern about their academic advisement or other academic issues, including an action based upon academic policies, procedures, or deadlines, should contact the Director of University Advisement, P.O. Box 70291, Culp University Center.

Student concerns or complaints pertaining to the Offices of Admissions, Financial Aid, or the Registrar should be directed to the Vice Provost, P.O. Box 70733, Burgin Dossett Hall.

Students who have a general complaint pertaining to university policies, procedures, or personnel should provide a written statement outlining the nature of the complaint to the Dean of Students, P.O. Box 70725, Culp University Center.

Student complaints concerning sexual, racial, disability, and other harassment should be filed with the Director of Equal Employment Opportunity Affirmative Action, P.O. Box 70734, Burgin Dossett Hall. When the charge of harassment is by one student against another student, the complaint should be filed with the Dean of Students, P.O. Box 70725, Culp University Center.

In every instance, the appropriate individual will investigate the complaint, seek an equitable solution, and respond to the student in a timely manner.

East Tennessee State University

Vision Statement

To become the best regional university in the country.

ETSU Mission

East Tennessee State University seeks to:

- Educate students to become responsible, enlightened, and productive citizens;
- Conduct scholarship that improves the human condition;
- Serve business, education, government, health care systems, and communities; and
- Enhance the cultural environment of the region.

ETSU Values

ETSU pursues its mission through a student-centered community of learning reflecting high standards and promoting a balance of liberal arts and professional preparation, continuous improvement, and based on core values where:

- PEOPLE come first, are treated with dignity and respect, and are encouraged to achieve their potential;
- RELATIONSHIPS are built on honesty, integrity, and trust;
- DIVERSITY of people and thought is respected;
- EXCELLENCE is achieved through teamwork, leadership, creativity, and a strong work ethic;
- EFFICIENCY is achieved through wise use of human and financial resources; and
- COMMITMENT to intellectual achievement is embraced.

ETSU Strategic Goals for the 2005-2010 Planning Cycle

1. Demonstrate leadership for our region by
 - promoting and enhancing P-16 education,
 - enhancing workforce development for the health professions,
 - establishing successful technology-based start-up and spin-off companies through the ETSU Innovation Laboratory,
 - enhancing students' active development of civic responsibility,
 - pursuing the use of advanced technologies, and
 - expanding externally-funded research.
2. Enhancing the rate and diversity of participation in higher education by
 - increasing the rate of participation of targeted student populations, and
 - designing and implementing a multi-variant review model for consonance between student and/or employer demand.
3. Demonstrate quality of programs and services by
 - implementing campus-wide quality institutional effectiveness initiatives,
 - providing general education, academic programs and co-curricular opportunities that meet high standards of quality,
 - enhancing civic responsibility and student engagement,
 - recruiting, retaining, and developing faculty and staff diversity,
 - increasing student retention and persistence to graduation, and
 - continued implementation of our SACS Quality Enhancement Plan for student success.
4. Demonstrate successful management of resources by expanding use of nationally recognized databases or benchmarking tools to inform resource management,
 - increasing awareness and commitment to philanthropic fund-raising projects,
 - promoting entrepreneurial and partnership initiatives to attain additional resources, and
 - striving to achieve optimal efficiency in its use of resources.

The University

East Tennessee State University is one of the principal institutions governed by the Tennessee Board of Regents. Since opening in 1911 as a two-year normal school educating teachers, ETSU has grown into a major, diversified university. It serves more than 13,000 students, many of them from the Tri-Cities Tennessee/Virginia region and surrounding areas. Students from all 50 states and from numerous other countries also attend ETSU.

ETSU is comprised of 11 colleges and schools: College of Arts and Sciences, College of Business and Technology, College of Clinical and Rehabilitative Health Sciences, Claudius G. Clemmer College of Education, Honors College, James H. Quillen College of Medicine, College of Nursing, Bill Gatton College of Pharmacy, College of Public Health, School of Continuing Studies, and School of Graduate Studies.

ETSU nurtures an educational environment which respects individuality and stimulates creativity. It expands educational opportunities for all who desire and need university preparation while maintaining a setting conducive to intellectual curiosity and one that produces an enjoyable campus life.

The university is committed to the needs of all its students — from those who have emerging potential for university-level coursework to the gifted. ETSU also serves the region's citizens by providing a number of opportunities to continue lifelong learning.

ETSU has expanded to include baccalaureate degree programs in many fields and graduate programs leading to the master's degree, educational specialist degree, and doctorate. For undergraduates, the university offers broad programming which embraces the philosophy of a liberal education for all with special programs providing a primary level of expertise in the arts and sciences disciplines and selected professional fields. Its master's studies provide advanced and increasingly specialized preparation in academic, technical, and professional fields that meet the needs of our student population and promote regional development. Doctoral programs are available in a number of fields.

The university offers all programs and degrees during its regular day schedule, and extensive evening programs and online course offerings are also provided. With a 350-acre main campus in Johnson City along with centers in Kingsport and Elizabethton and a site in Bristol, ETSU maintains a semester enrollment of more than 13,000 students and serves 5,000-10,000 persons annually through continuing education and extended service programs.

A statewide leader in transfer articulation, ETSU shares over 280 agreements with 15 state and regional colleges and universities, allowing students to transfer credit hours easily.

Affirming a commitment to the fundamental values of higher education, ETSU presents programs of study that promote curiosity, stimulate thought, encourage reflection and the free interchange of ideas, and foster a genuine desire for learning. Undergraduate and graduate education at ETSU broaden the students' view of the world and encourage students to participate actively in creating a responsible, ethical society.

Through scholarship, research, and creative activity, the ETSU faculty both critically review and add to humanity's knowledge and cultural achievements. Faculty and staff apply their knowledge and expertise in the service of the region and the world beyond.

Throughout its history, ETSU has played a vital role in meeting the health care needs of the region. Programs in health education, public and environmental health, and nursing, some dating from the institution's earliest days, have evolved into formal colleges. The expansion of ETSU's Division of Health Sciences in the 1980s created still greater opportunities to serve the region, state, and nation through the development of a comprehensive academic health sciences center in Northeast Tennessee. The creation of the College of Pharmacy in 2005 further enhanced this aspect of the university's mission, as did the 2007 division of the College of Public and Allied Health into the College of Public Health (the first of its kind in Tennessee) and the College of Clinical and Rehabilitative Health Sciences.

The university's vision of education, scholarship, and service extends into the future, as outlined in "Turning Toward 2011: A Report by the Commission on the Future of ETSU." The more than 100 faculty, staff, community leaders, alumni, and students who spent two years envisioning what ETSU might be like on the way to its centennial in 2011 described a university that continues to build alliances beyond its walls, exerting strong leadership in health care and health promotion, economic development, education, environmental concerns, crime and violence issues, and public administration. In doing so, ETSU seeks to balance the innovations of the 21st century with the need to preserve the human contact that has characterized education at ETSU since 1911.

ENROLLING AT ETSU

Undergraduate Admission

All inquiries about admission, applications for admission, and transcripts of credit should be addressed to the:

Office of Admissions
 East Tennessee State University
 Box 70731
 Johnson City, TN 37614-1701

A personal interview is generally not required during the admissions procedure; however, when circumstances require that enrollment be restricted, an interview may be required.

Any student withholding application information or giving false information may be ineligible for admission or may be denied continuation of studies at the university.

**Requirements for Admission
 Freshman Admission**

Applicants for degree admission as first-time freshmen must provide an official transcript showing graduation from high school.* Graduates of high schools in any state are eligible to apply for admission to the freshman class. Graduates of Tennessee public high schools must provide a transcript certifying satisfactory performance on the Tennessee Gateway Tests in Mathematics, Language, and Science.

Applicants must request that the high school mail or provide through EDI a transcript of their high school records to the Office of Admissions at the time of application. The transcript of a Tennessee resident who is home schooled must be an official copy from an affiliated organization as defined by state law (Tennessee Code Ann. 49-50-801), or be accompanied by certification of registration with the local education agency which the student would otherwise attend.

A score report from the American College Testing Program (ACT) must be submitted by all entering freshmen who are under 21 years of age. If ACT scores are not available, SAT scores may be substituted.

The university schedules ACT assessment periodically throughout the year. Applicants for admission and students enrolled at ETSU are eligible to participate in the ACT testing program.

Applications for admission must be approved by the last day of registration (official census date) of a semester in order to be effective with that semester. **Proof of immunizations must be provided prior to course registration. Inquiries regarding immunization should be addressed to the Health Clinic, ETSU, Box 70675, Johnson City, TN 37614.**

** Exceptions made for GED applicants and early admission of first-time freshmen after the junior year in high school.*

Required High School Courses

The following high school courses are required for freshman applicants who have not reached age 21.

Subject Area	Required Units
English	4
Algebra I and II	2
Geometry or other advanced math course with	1
geometry as a major component	
Natural/Physical Sciences, including at least one	2
unit, with lab, of biology, chemistry, or physics	
Social Studies, including world history, world geography,	1
ancient history, European history, or modern history	
United States History	1
A single Foreign Language	2
Visual or Performing Arts, including theatre arts,	1
visual arts, music theory, music history, vocal music,	
art history, or general music	

Applicants with disabilities which directly prevent them from completing any required high school units should provide documentation of the disability during the admission process in order to receive consideration for waiver of the related unit requirements.

In addition to these, an additional unit in the arts, in mathematics, and in foreign languages is recommended. Different requirements may exist for some freshman applicants (e.g., GED, early admission, or international students). Applicants who meet the required high school GPA and/or ACT/SAT, who attended high schools not offering the required courses, may be

admitted to the university, but must remove the deficiencies during the first 64 semester hours.

Freshman applicants under age 21 who are not deficient in required high school units are eligible for admission by presenting minimum grade point average and ACT/SAT results according to the following:

- a. a minimum grade point average of 2.3 on a 4.0 scale or
- b. minimum ACT composite of 19 (or equivalent SAT).

Freshman applicants under age 21 who are deficient in required high school units may, under special circumstances, be admitted to the university; however, the deficiencies must be removed during the first 60 semester hours of college enrollment.

Admission by Exception: Freshman applicants under age 21 who are deficient in required high school units may be considered for admission according to the following:

- a. minimum ACT composite of 21 (or equivalent SAT) — up to two deficiencies;
- b. ACT composite of 19 or 20 (or equivalent SAT) and a minimum high school GPA of 2.5 on a 4.0 scale — up to two deficiencies — admission determined by committee review — committee chaired by the Vice Provost.

Alternative Admission: A limited number of alternative admission positions (150) is available to freshman applicants under age 21 who do not meet the standards outlined above. Alternate admission positions will be considered only for those who meet the following minimum standards:

- a. Tennesseans — minimum high school GPA of 2.0 on a 4.0 scale or an ACT composite score of 17 or higher (or equivalent SAT);
- b. Residents of other states — minimum high school GPA of 2.3 on a 4.0 scale or an ACT composite score of 19 or higher (or equivalent SAT).

Freshman Applicants Age 21 or Older: Freshman applicants age 21 or older who are graduates of high schools in any state are eligible to apply for admission. Graduates of Tennessee public high schools must provide a transcript certifying satisfactory performance on the Tennessee Gateway Tests in Mathematics, Language, and Science. Admitted students age 21 or older may be subject to required units based on the year of high school graduation. Admitted students over age 21 without recent ACT/SAT scores will be required to complete the COMPASS examination.

Admission with the GED-High School Equivalency Diploma: Applicants 18 years of age or older, who are not high school graduates, may apply for admission on the basis of scores presented on the General Education Development test (GED) of the American Council on Education.

Applicants who completed the GED prior to January 1, 1997, must present an average score of 45 or higher, with no single score below 35. Applicants who completed the GED January 1, 1997, or thereafter, must present an average score of 45 with no single score below 40. Applicants who complete the 2003 Series GED Tests, or thereafter, must earn a minimum of 410 on each of the five tests in the battery and an average (mean) score of 450 on the total battery. All applicants under 21 years of age who are admitted on the basis of GED scores must submit ACT or SAT scores. GED scores, ACT scores, and high school records of applicants under 21 years of age are considered in the admission process. Applicants with GED diplomas earned in 1989-1992 are subject to the foreign language unit requirement(s); applicants with GED diplomas earned in 1993 and thereafter are subject to the foreign language and visual/performing arts requirements.

Academic Placement (COMPASS Examination)

Applicants who qualify for admission may be placed in appropriate developmental studies courses according to valid ACT/SAT scores. Those without recent ACT/SAT scores may be required to complete the COMPASS examination to determine placement in developmental studies. Transfer students without transferable math or English may also be required to complete the COMPASS.

Early Enrollment Plans

Early enrollment is offered to high school students with superior academic records through plans authorized by the Tennessee Board of Regents. Each application for early admission is reviewed individually and must be endorsed by parents of the applicant, the high school principal or counselor, and admissions officers.

- 1. Enrollment After the Junior Year in High School (Early Admission):** A select group of students who distinguish themselves by high academic achievement in the 9th, 10th, and 11th grades may qualify for admission to the freshman class after the junior year in high school. Minimum selection criteria include a high school grade point average of 3.5 on a 4.0 scale and an ACT composite score of 25 (or equivalent SAT). Successful completion of the prescribed freshman courses at the university satisfies high school graduation requirements.
- 2. Enrollment During the Junior or Senior Year in High School (Dual Enrollment):** Currently enrolled high school students who have completed their sophomore year in high school may be admitted for either joint enrollment or dual enrollment or both in order to complete university courses. Minimum academic requirements include a 3.2 high school grade point average on a 4.0 scale. Additional requirements include testing: ACT: a minimum 19 composite with no subscore below 19; PLAN: a minimum 18 composite; a minimum 15 English; a minimum 19 mathematics. PLAN scores may be substituted when the ACT has not been completed. Students may register for no more than seven (7) semester hours per semester when enrolled in this program. Students with unique talents may be granted permission to enroll in specific courses with the approval of the Director of Admissions.
- 3. Academically Talented/Gifted High School Students:** Currently enrolled students in grades 9-12 in public or private high schools who have been identified as academically talented/gifted and whose program of studies is planned on an individual basis by a multidisciplinary team may, with endorsement by the high school and the university, enroll for prescribed courses and earn university credit. Minimum criteria include a high school grade point average of 3.2 on a 4.0 scale. Students may register for no more than seven (7) semester hours per semester when enrolled in this program.

Inquiries about plans for early enrollment should be directed to the Office of Admissions.

Former Students — Readmission

All former ETSU students who have not been enrolled for one major term (fall or spring) must apply for readmission. Students who have attended another college since their last enrollment at ETSU are required to have an official transcript from that school forwarded to the Admissions Office for review. **Attending another higher education institution during a period of academic dismissal may adversely affect readmission to ETSU.** Former undergraduate students interested in graduate school must apply for admission to the School of Graduate Studies.

Transfer Student Admission

Students who have completed registration at any degree granting institution of higher education are required to report this fact on the Application for Admission. In addition, official transcripts from each institution must be forwarded to the Office of Admissions.

Students who seek to transfer from any degree granting institution of higher education are eligible for admission according to the following:

Postsecondary Transfer Credit Admission Requirements

12 or more transferable semester hours of credit earned	Minimum overall GPA on transferable hours
Attempted Hours	GPA
12.0 - 29.0	1.4
29.0 - 45.0	1.7
45.1 - 59.9	1.9
60+	2.0

Postsecondary Transfer Credit Admission Requirements

Less than 12 transferable semester hours of credit earned	Minimum overall GPA on transferable hours
Attempted Hours	GPA
1.0 - 29.0	1.4
29.1 - 45.0	1.7
45.1 - 59.9	1.9
60+	2.0

In addition, the applicant must meet all appropriate freshman admission requirements as outlined in the undergraduate catalog.

Applicants who do not meet the standards outlined above and who have not been enrolled in any institution of higher education for a minimum of three years may receive individual review by the Vice Provost or designee. If no transferable hours have been attempted, admission may be determined by a review of high school credentials, standardized test scores, and/or coursework completed at any degree granting institution of higher education.

Remedial and developmental courses are not used in determining eligibility for transfer admission. Applicants who have enrolled for one term only at any other college or university without obtaining the required grade point average for transfer and who meet regular freshman admission standards or admission by exception standards may be admitted on appropriate academic probation. Students are subject to existing regulations regarding removal of probationary status.

Transfer Student Application Procedure

In order to be admitted in a timely manner, degree-seeking transfer students should follow these steps:

- Fully complete the application form (all sections should be completed including dates where specified). Forms must be submitted to the Office of Admissions by **August 15th for Fall Semester and by December 15th for Spring Semester.**
- Provide the appropriate application fee at the time of application.
- Applicants who completed high school graduation requirements or the GED in 1989 and thereafter must provide to the Admissions Office an official high school transcript* and GED scores if applicable. High school records are not generally required for those graduating prior to 1989. Such documentation must be provided by August 15th for Fall Semester and by December 15th for Spring Semester. Only transcripts including coursework in progress at the time of application may be provided after the deadline date.
- Provide official transcripts* as well from all previously attended colleges and universities as well as high school transcripts to the Office of Admissions by **August 15th for Fall Semester and by December 15th for Spring Semester.**

Applicants not meeting the guidelines as outlined above cannot be assured of admission to the university or complete transfer credit analysis.

Late applications may be reviewed at the discretion of the Vice Provost for Enrollment Services.

* An official transcript is one which is validated, issued, and mailed directly by the previous institution in a sealed institutional envelope to the Office of Admissions, P.O. Box 70731, ETSU, Johnson City, TN 37614. Tennessee Board of Regents institutions may provide Electronic Data Interchange (EDI) transcripts per TBR policy.

Proof of immunizations must be provided prior to course registration. Inquiries regarding immunization should be addressed to the Health Clinic, ETSU, Box 70675, Johnson City, TN 37614.

Advanced Standing Credit

ETSU will review for possible credit courses earned from all institutions of higher education previously attended, advanced placement or other examinations, training provided by non-collegiate institutions, or experiential learning. Credit toward a degree will be **directly** accepted only from college-level institutions for courses that are substantially equivalent in nature, content, and level of credit offered by ETSU. Consideration will be given to the appropriateness and applicability of the credit earned to the programs offered by ETSU, in light of the student's educational goals.

Transfer credit earned from colleges accredited by the Southern Association of Colleges and Secondary Schools (or corresponding agencies for other states and regions of the United States) will be considered for **direct** application toward a degree. The Office of Admissions will evaluate undergraduate credits for university-wide use. This evaluation will be made using historical precedent, current articulated program information, and/or review by the appropriate ETSU college dean and faculty.

Credit from courses completed at institutions not regionally accredited as described above, advanced placement or other examinations, training provided by non-collegiate institutions, or experiential learning will be reviewed according to the following.

Credit for Service in the Armed Forces

ETSU will award credit for military training courses in the Armed Services of the United States as recommended by the American Council on Education in the publication *Guide to the Evaluation of Educational Experiences in the Armed Services*. Veterans may submit the following transcripts for consideration.

Army - Army/American Council on Education Registry Transcript (AARTS)

Navy/Marine - Sailors-Marine Corps American Council on Education Registry Transcript (SMART)

Air Force - Community College of the Air Force Transcript

Coast Guard - Coast Guard Institute Education Transcript

In addition to the forms mentioned above, an individual may submit a DD214, Certificate of Release or Discharge from Active Duty, a DD295, or an official transcript from Defense Activity for Non-Traditional Education Support (DANTES) subject standardized tests administered by Education Testing Service or other official documentation of completion of military training. No credit is awarded for MOS, rates, and ratings. Military credit will not satisfy writing, oral communication, and using information technology proficiency requirements. Questions regarding military training credit should be referred to the Admissions Office.

Advanced Placement Credit

ETSU participates in the Advanced Placement Program of the College Entrance Examination Board (CEEB). Advanced Placement course participants who score 3, 4, or 5 on the CEEB Advanced Placement Tests will be awarded credit. A grade of 'P' for passed hours will be awarded in appropriate degree courses. A list of Advanced Placement examinations, minimum score requirements, ETSU courses fulfilled and semester hours of credit is available in the Nontraditional Credit Guide available from the Office of Admissions. An official transcript of AP credit must be provided from the CEEB.

ACT/SAT Credit for Freshman English

1. Entering freshmen whose standard score on the English section of the ACT is 28 or better may request 3 hours credit for ENGL 1010 and may then enroll in ENGL 1020.
2. Entering freshmen whose standard score on the Verbal section of the SAT is 630 or better may request 3 hours credit for ENGL 1010 and may then enroll in ENGL 1020.

Note: The highest English score will determine the student's eligibility for this credit.

International Baccalaureate Program

The International Baccalaureate is a secondary curriculum and university entrance examination available in many countries and recognized worldwide. Students completing International Baccalaureate program higher level courses in high school who successfully complete the examinations for such courses with a score of 4, 5, 6, or 7 are awarded passed hours of credit (grade of 'P') in degree courses. Additional information is available from the Office of Admissions.

Credit by examination as outlined below will not award credit in courses previously completed for credit and will not satisfy writing, oral communication, and using information technology proficiency requirements.

College Level Examination Program (CLEP)

CLEP examinations are sponsored by the College Entrance Examination Board (CEEB). Eligible students may earn advanced credit by successfully completing certain CLEP general and subject examinations. ETSU generally follows the recommendations of the Commission on Educational Credit and Credentials of the American Council on Education for awarding credit toward degree programs. A grade of 'P' for passed hours of credit will be awarded in appropriate degree courses, but will not replace previously earned grades. A list of CLEP examinations, minimum scores, ETSU courses fulfilled and semester hours of credit is available in the Nontraditional Credit Guide available from the Office of Admissions.

Departmental Course Challenge Exams

Comprehensive departmental course challenge exams are available in most undergraduate courses. Students enrolled in ETSU who believe they have sufficient mastery of subject matter in specific ETSU courses may request to attempt a comprehensive examination through the chair of the department offering the course. Grades of A, B, C, D, or F or grades of 'P'

for passed hours and 'F' for failed hours may be assigned for examination performance as determined by the appropriate academic department. A fee of \$15.00 per credit hour sought will be charged. The administration of the examination is at the discretion of the academic department. Information regarding comprehensive departmental examinations is available from the Office of the Registrar.

Excelsior College Examination

The Excelsior College Examination provides a series of college-level examinations designed to measure subject matter attained primarily outside typical classrooms as a basis for advanced standing credit. A grade of 'P' for passed hours may be assigned for satisfactory examination performance on certain exams. Additional information is available from the Office of Admissions.

National League for Nursing (NLN) Mobility Profile II Testing

The ETSU College of Nursing accepts credit earned through NLN Mobility Profile II testing. Registered nurses may receive credit for Nursing coursework completed at a diploma program or a non-NLN-accredited associate program. This credit may be applied toward the requirements for the Bachelor of Science degree in Nursing (B.S.N.). Additional information is available from the Office of Student Services, College of Nursing.

University Credit for Experiential Learning (Bachelor of General Studies [B.G.S.], Bachelor of Professional Studies [B.S.P.S.], or Bachelor of Interdisciplinary Studies [B.S.I.S.]

Students seeking one of the degrees listed above may provide for review a detailed and documented portfolio of experiential learning for possible credit. Experiential learning is typically learning that has taken place outside of traditional college settings but does not include credit based upon advanced placement or other examinations (i.e., CLEP) or training provided by noncollegiate institutions such as the Armed Forces that is reviewed for credit by the American Council on Education. Credit for experiential learning will only be awarded after the appropriate ETSU academic department and college dean have determined that end of course competencies have been evidenced for **specific ETSU courses**. A grade of "P" for passed hours will be awarded for credit in the B.G.S. degree program. Credit for specific courses will not exceed the credit hour(s) awarded by ETSU for the equivalent course. Students must file the *Application for Academic Credit Earned through Experiential Learning*. Credit may be obtained for applicable courses completed through noncollegiate-sponsored instruction or training as recommended in the *American Council on Education National Guide to Educational Credit for Training Programs*. Additional information is available from the Office of Admissions or the School of Continuing Studies.

Credit from Non-Regionally Accredited Collegiate Institutions

ETSU will review for possible credit courses earned through non-regionally accredited collegiate institutions. If a student wishes ETSU to consider acceptance of academic credit completed through institutions not accredited by regional accrediting associations, a petition that such credit be reviewed must be filed. This petition, the *Application for Academic Credit Earned at Non-Regionally Accredited Collegiate Institutions*, is available from the Office of Admissions. The student must obtain this petition form and provide it to the appropriate academic department. Credit will be recorded on a student's record only after the appropriate academic department and dean have reviewed the course and determined it to be equivalent in content to an ETSU course and approval is issued by the Vice Provost for Academic Affairs. Further, the academic department and dean will determine that end of course competencies have been satisfactorily completed by the student. Departmental examinations, standardized testing, validation, and other means may be used by the academic department to determine course competencies. A grade of "P" for passed hours will be recorded for approved courses. One form is required for **each** course petitioned for acceptance. The Office of Admissions may be contacted for additional information.

Additional Transfer Information

Applicants holding an associate's degree designed for transfer to a university are granted credit toward completion of the baccalaureate degree

for appropriate courses completed for the associate's degree program. Applicants holding an associate's degree not designed for transfer to a university are granted credit for level-one (freshman and sophomore) courses that are equivalent to level-one courses offered by the university.

Where a student was not awarded an associate's degree designed for transfer purposes, ETSU will accept those level-one (freshman and sophomore) courses completed at a community college which have been determined to be equivalent to level-one courses offered by the university, as creditable toward completion of relevant requirements for degree programs at ETSU, to the same extent that level-one courses would be creditable toward completion of the degree programs by the university's native students with the same degree major.

A student transferring credits from a two-year collegiate institution must complete as a requirement for the baccalaureate degree a minimum of 50 semester hours in an accredited senior institution. Residency and other degree requirements of the university must be met.

Grades accepted in transfer become a part of the ETSU grade point average. Transfer grades are computed as the same grades would be computed had they been earned in residence at ETSU, including repeated courses. However, ETSU does not recognize forgiveness policies or academic bankruptcies administered by other institutions. In the case of the application of such a policy prior to transfer, all grades are treated at their original face value. If original grades are not contained in original transcripts, then all previous courses are assumed to have been failed.

Students beginning college study fall 1989 or later who have not completed 60 semester hours of transferable work and who have not earned an associate's degree designed for transfer are subject to the same high school units requirement described under "Freshman Admission." Eligible transfer students who have not completed all these courses will be admitted, but must remove any deficiencies within the first 30 semester hours after initial enrollment. Following a review of transfer credit, it may be determined that a transfer student must complete the test in part or total before registering for classes.

Transfer students with less than 60 semester hours of credit who have not earned college-level math or English credit must undergo COMPASS assessment in the appropriate area(s). Assessment in reading may be required.

All transfer applicants should request that the registrar of each college attended mail an official transcript to the ETSU Office of Admissions. Students who began college fall 1989 and thereafter should request that both college and high school transcripts be sent to the Office of Admissions.

Second Undergraduate Degree Students

Students who hold a bachelor's degree from ETSU or any other regionally accredited college or university may apply to earn a second bachelor's degree. Applications should be filed in the Office of Admissions. Students pursuing a second bachelor's degree must apply, select a major program, and provide official transcripts by August 15th for Fall Semester and by December 15th for Spring Semester. Additional information on second bachelor degrees is available in the catalog section entitled Degree and Graduation Requirements. Second degree students are exempt from general education requirements and also from related graduation requirements such as the proficiency-intensive requirement and the computer proficiency requirement.

Undergraduate Special Student Admission

An Undergraduate Special Student is one who may or may not have a bachelor's degree who wishes to enroll in undergraduate level courses only, but who is not admitted into an undergraduate program of study. Undergraduate Special Students may enroll only in undergraduate level coursework. Special students may not qualify for financial aid.

The classification of "special student" is provided for persons over 18 years of age who are not enrolled for a degree but who wish to enroll for a limited number of courses for vocational or avocational reasons. Special students are not required to submit full application credentials. Undergraduate special students who have not completed appropriate collegiate level math or English shall not enroll for such courses without taking appropriate portions of the COMPASS test battery. In order to have credit apply toward a degree, special students must submit full application credentials, complete the COMPASS test battery where appropriate, and be approved for admission to a degree program.

Admission of Undergraduate Special Students will be through the ETSU Undergraduate Admissions Office. For more information contact the Admissions Office at 423/439-4213.

Visiting Student Admission

The classification of "visiting student" is provided for persons enrolled in a degree program at another institution who have been given permission to enroll for a limited number of courses at ETSU. A letter of good standing may be submitted from the degree-granting institution in lieu of a transcript of the academic record.

Milligan College/Emmanuel/ETSU Agreement

Full-time students (12 credits or more) may take courses at Milligan College and Emmanuel School of Religion. Courses taken through this agreement may be used for elective credit only. Students who wish to cross enroll under this plan may obtain additional information from the Office of the Registrar, Burgin E. Dossett Hall, Room 101.

Students Denied Admission

Applicants who do not meet admission standards and, as a result, are denied acceptance may choose to file a letter of appeal. Appeals will be considered on a timely basis prior to the beginning of each semester. Appeals are reviewed by the Admissions and Readmissions Advisory Committee. The committee may approve or disapprove the initial decision to deny admission. A committee recommendation is then made to the Provost, who may approve or disapprove the committee's recommendation. Appeals requested after the first day of classes for the semester may be considered by the Admissions and Readmissions Advisory Committee at the discretion of the Vice Provost for Enrollment Services or designee.

Admission of International Students

International students are required to submit the same credentials for admission as are required of other students and, in addition, must submit their scores on the Test of English as a Foreign Language (TOEFL) if English is not their native language. A minimum score of 500 (score of 173 on computer-based TOEFL or score of 61 on Internet-based TOEFL) is required for undergraduate admission. Admission credentials must also include evidence of capability to meet financial obligations relating to study at the university. Transfer credit awarded on the basis of educational experiences outside of the United States, including Examination Results, carries a grade notation of 'P' for passed hours.

If English is not the native language, students may be required to take an English placement exam when they arrive on campus. Students who cannot demonstrate satisfactory proficiency in English may be required to enroll in an English as a Second Language class.

All freshman international students who do not present an ACT Composite Score of 19 or higher or subscores in English or math of 19 or higher, (or comparable SAT) will be required to complete appropriate testing and/or developmental classes.

Admission must be granted and financial documentation and degree confirmation must be received prior to issuance of an I-20 or IAP-66 form needed to obtain a visa.

The university will adhere to all Immigration and Naturalization Service (INS) and Department of State Regulations in the admission, enrollment, and readmission of international, nonimmigrant applicants.

Exchange Programs

It is the responsibility of a nonimmigrant applicant to comply with current INS regulations in regard to collegiate enrollment. New INS regulations may prohibit the enrollment of an individual in B-1 or B-2 status.

The Office of International Programs administers the university's foreign student (F status) and visitor exchange (J status) programs. Other nonimmigrant applicants may consult with this office.

East Tennessee State University encourages and supports students' participation in sponsored exchange programs such as the National Student Exchange (NSE), International Student Exchange Program (ISEP), and bilateral exchanges. Courses taken while participating in exchange programs may be transferred to ETSU and may fulfill graduation requirements while tuition, fees and sometimes room and board are paid at ETSU rates. See International Programs for more information.

Special Requirements

Certain instructional programs of the university are subject to special admission requirements which are in addition to the general requirements. Students should check for special admission requirements for their major field of study in the departmental sections of this catalog.

Enrollment of Disabled Persons and Persons Over 60 Years of Age

Audit Enrollment — Disabled persons suffering from a permanent disability which totally incapacitates them from employment, and persons 60 years of age or older may audit courses without the payment of regular course fees.

Credit Enrollment — Disabled persons described above and persons 65 years of age or older may enroll for credit by payment of a service fee required to defray the cost of record keeping. Other fees and special course fees may be required.

Enrollment of such disabled persons and persons 60 years of age or over is restricted to those who are domiciled in Tennessee and may be further limited or denied on an individual classroom basis according to space availability. Acceptable documentation of disability and age is required. Enrollment in classes offered through the James H. Quillen College of Medicine and the Bill Gatton College of Pharmacy is not included.

Academic Fresh Start

Academic Fresh Start is a plan of academic forgiveness provided for students who have a record of poor academic performance. This program is designed to assist students by allowing calculation of grade point average and credit hours toward graduation to be based only on work completed after returning to college under the Academic Fresh Start policy. A period of no less than four years must have elapsed since the candidate was last enrolled in a higher education institution. A student may be granted an Academic Fresh Start only once.

Eligibility

1. Candidates must be undergraduate lower division students and may have attempted no more than 60 hours including remedial and developmental courses.
2. A period of no less than four years (48) months must have elapsed since the candidate last attended a higher education institution.
3. Candidates may apply for Academic Fresh Start prior to re-enrollment or any time prior to the completion of 15 semester hours of credit after re-enrollment.
4. The candidate may never have been granted academic forgiveness according to this or a similar provision at any institution of higher education.

Application Procedure

Those meeting the above criteria must complete and file the Academic Fresh Start Contract form and the appropriate application for admission.

Policy Provisions

1. Candidates must meet all conditions for eligibility.
2. All prior coursework from ETSU or other institutions will be forfeited with the exception of previously satisfied COMPASS requirements.
3. The COMPASS examination must be completed by those who have not previously done so.
4. Placement will be determined in the University Advisement Center.
5. The permanent academic record will retain all prior coursework, and the record will include “Granted Academic Fresh Start” and the date.
6. Summary statistics will reflect only the coursework completed after the “fresh start.”
7. Fresh Start students will be classified as first-time freshmen.
8. Students in Fresh Start will be subject to Academic Retention Standards in effect at ETSU.
9. Once begun, the Academic Fresh Start is irrevocable.
10. All decisions of the Vice Provost for Enrollment Services are final.

Additional information is available from the Undergraduate Admissions Office at 423/439-4213

Other Admission Categories

Contact the Office of Admissions for any special requirement.

Academic Common Market

The Academic Common market is an interstate agreement among southern states for sharing academic uncommon programs. Participating states are able to make arrangements for their residents who qualify for admission to enroll in specific programs in other states on an in-state tuition basis.

To enroll as an Academic Common Market student:

- (1) Be accepted for admission into an ETSU program to which your state has obtained access for its residents through the Academic Common Market.
- (2) Obtain certification of residency from the Common Market Coordinator in your home state; (Contact the State Coordinator for certification information.)
- (3) Process certification in ETSU Office of Admissions (undergraduate programs) or Graduate Office (graduate programs).

IMPORTANT— Certification must be processed by last day of registration (official census date) of semester in order to be effective with that semester. Certification processed after that date will be effective with the next semester.

** Note: Programs subject to change by the university, states, or Southern Regional Education Board without notice.*

Approved Programs in Undergraduate Studies	State
Bachelor of Science in Surveying and Mapping	Alabama
Bachelor of Science in Dental Hygiene (<i>on-site and online</i>)	
Bachelor of Science in Digital Media	Arkansas
Bachelor of Science in Dental Hygiene (<i>online only</i>)	Delaware
Bachelor of Science in Engineering Technology	Georgia
<i>(Biomedical Engineering Technology only)</i>	
Bachelor of Science in Dental Hygiene (<i>online only</i>)	Kentucky
Bachelor of Science in Digital Media	
Bachelor of Science in Surveying and Mapping	
Bachelor of Science in Professional Studies (RODP)	Louisiana
<i>(Information Technology and Organization Leadership)</i>	
Bachelor of Science in Mass Communication	Maryland
<i>(Broadcasting option only)</i>	
Bachelor of Science in Surveying and Mapping	Mississippi
Bachelor of Science in Digital Media	
Bachelor of Science in Environmental Health	South Carolina
Bachelor of Science in Surveying and Mapping	
Bachelor of Science in Digital Media	
Bachelor of Science in Allied Health	
<i>(Cardiopulmonary Science, Allied Health Leadership, and Radiography)</i>	
Bachelor of Science in Dental Hygiene (<i>online or onsite</i>)	
Bachelor of Science in Surveying and Mapping	Virginia
Bachelor of Science in Engineering Technology	
<i>(Manufacturing, Construction, and Biomedical options only)</i>	
Bachelor of Science in Environmental Health	
Bachelor of Science in Public Health	
Bachelor of Science in Allied Health	
<i>(Cardiopulmonary Science and Allied Health Leadership)</i>	
Bachelor of Science in Digital Media	
Bachelor of Science in Engineering Technology	West Virginia
<i>(Construction Option Only)</i>	
Bachelor of Science in Surveying and Mapping	
Bachelor of Science in Digital Media	

Approved Programs in Graduate Studies	State
Master of Science in Engineering Technology	Virginia
	Kentucky
Master of Science in Environmental Health	Florida
	Virginia
	West Virginia
Master of Arts in Reading	Virginia
Master of Arts in Reading (<i>Storytelling Option</i>)	Alabama
	Florida
	Georgia
	Kentucky
	Louisiana

Master of Arts in Reading (<i>Storytelling Option</i>) cont.	Maryland Oklahoma South Carolina Texas
Master of Science in Clinical Nutrition	South Carolina
Doctorate of Audiology	Georgia South Carolina
Master of Science in Technology..... (<i>Geoscience Option</i>)	North Carolina

Instructions for In-State Tuition Requests

Available to residents in	
Virginia:	Lee, Scott, and Washington counties
North Carolina:	Avery, Madison, Watauga, Mitchell, Yancy, Ashe, and Haywood counties.

To be considered you should apply and be fully admitted to ETSU. In addition, you must meet the requirements as outlined below and file the Request for ***In-State Tuition Rate*** form (available from the Office of Admissions for undergraduate students and the School of Graduate Studies for graduate students).

New Students:

- **First-time freshmen** with a 21 ACT / 990 SAT (combined Reading Comprehension and Math scores only) or a 2.75 high school GPA (on a 4.0 scale) will be provided the in-state rate, assuming they meet all other admission requirements. These students must remain in “good academic standing” for renewal of this rate each semester.
- **Transfer students** with a cumulative transfer GPA of 2.5 (on a 4.0 scale) on 12 or more hours of transferable work (beyond developmental courses) will be provided the in-state rate, assuming they meet all other admission requirements. These students must remain in “good academic standing” for renewal of this rate each semester.
- **First-time freshmen adult students**, age 21 or older, must meet the regular ETSU freshmen admissions standards.
- **Graduate students** who are admitted under program admission requirements for their field of study would be provided the in-state rate. These students must remain in “good academic standing” for renewal of this rate each semester.

Currently Enrolled Students:

Currently enrolled students will be eligible to receive the in-state rate. These students must remain in “good academic standing” for renewal of this rate each semester.

Others:

- **Undergraduate students who enroll at ETSU who are not initially eligible for the in-state rate** may apply for inclusion in the in-state tuition program after earning 24 hours in residence. The earned credit must be beyond developmental level. Awards will be made on the basis of availability of funds, and academic potential of the applicant.
- **Undergraduate and Graduate non-degree seeking students** may be eligible for the in-state tuition program. Awards will be considered on the basis of availability of funds, a review of the student’s academic plans/goals, and the academic potential of the applicant.

Note: The fee waiver is not applicable to the James H. Quillen College of Medicine or the Pharmacy Doctorate.

Registration and Orientation

During the summer, new students, both freshmen and transfer, and their parents are invited to the campus to share in an orientation to university life and to register early for fall semester classes. In this way, new students and their parents become acquainted with other students, faculty members, and administrators; discuss college plans with academic advisors and career counselors; visit dormitories, classrooms, and laboratories; and enjoy guided tours of the campus. All students attending ETSU for the first time must attend an orientation session. When the day of freshman and transfer orientation and registration is over, students leave the campus with their class schedules completed and with much firsthand information about the university, its academic programs, its faculty, students, and administrators.

Throughout their college careers at ETSU, students have opportunities each semester to participate in career development programs, discuss academic goals with faculty advisors, and register early for the next semester of study.

Expenses

No tuition and fee bills are mailed to students. Account statements are available on *GoldLink* online. Tuition and fees of the university are subject to change at any time by the Tennessee Board of Regents.

**Tuition and Fees
Academic Year 2008 - 2009
(Subject to change without notice)**

Application Fee

All applications for admission submitted by persons who have not been enrolled in the university previously must be accompanied by a nonrefundable \$15 application fee. (\$25 for international applicants.)

Undergraduate Maintenance Fee

One hundred, eighty-nine dollars (\$189) per semester hour, not to exceed (\$2,151) per semester (Except during summer term. See summer schedule of classes.)

All determinations concerning classification of in-state and out-of-state for fee-paying and other purposes are made in the Office of Admissions for undergraduate students.

Graduate Maintenance Fee

Three hundred, five dollars (\$305) per semester hour, not to exceed (\$2,886) per semester (except during summer term. See summer schedule of classes.)

All determinations concerning classification of in-state and out-of-state for fee-paying and other purposes are made in the School of Graduate Studies for graduate students.

Program Service Fees

Fifty-seven dollars (\$57) per semester hour, not to exceed \$449.50 per semester.

Out-of-State Tuition

Four hundred, seventy-three dollars (\$473) per semester hour, not to exceed \$5,446 per semester. Tuition, is in addition to the above registration fee. (Except during summer term. See summer schedule of Classes.)

Auditing Fees

Same as regular fees. (Special reduced rates apply to senior citizens and totally disabled students.)

Pre-Summer

The university offers a three-week pre-summer between the end of spring semester and the beginning of summer term. Students may enroll for concentrated course offerings, special courses, and workshops during this period. Maintenance fees will be assessed by credit hour.

Fees for Summer Term

The summer term is divided into two sessions, each five weeks in duration. Students may enroll for either session separately or for both sessions at the beginning of the summer term. If a student who has registered for first-session courses decides later to enroll for second-session courses, he may do so by adding and paying for such courses on or before the second session begins. Summer maintenance fees are assessed per credit hour **with no maximum**.

Regents Online Degree Program (RODP)

For information about RODP, go to <http://www.etsu.edu/d2l/RODP-Fees.aspx>.

General Expenses Board

University Cafeteria (estimate per semester)..... \$1,935 - \$1,215

Materials and Course Fees

Please see http://www.etsu.edu/comptrol/bursar_fees.htm.

Miscellaneous

Late Registration	\$100
Transcripts	NO CHARGE
Replacement Diploma	\$10

**Fees are subject to state and local sales tax.*

***Students living in campus housing will have a box assigned. Students not living in campus housing may request a box for their use at no additional charge.*

Housing Fees

(Apartment rents listed below are 2008-2009 prices and include all utilities.)

Undergraduate Residence Halls/Efficiency Apartments

Deposit	\$100.00
Double Occupancy	\$1,255 - \$2,225
Single Occupancy	\$2,510 - \$4,450

Family and Graduate Housing

(Apartment rents listed below are 2008-2009 prices and include all utilities.)

Buccaneer Village Apartments

Deposit	\$150.00
Rent	
Efficiencies	\$1,750/semester
One bedroom	\$1,905/semester
Two bedroom	\$2,135/semester

Buccaneer Ridge Apartments (Phase I)

Deposit	\$150.00
Rent (per person)	
Two bedroom—academic year lease	\$2,650 per semester/ per person
Two bedroom—extended (12 month)	\$2,290 per semester/ lease per person
Four bedroom—academic year lease	\$2,390 per semester/ per person
Four bedroom—extended year lease (12 month)	\$2,035 per semester/ per person

Buccaneer Ridge Apartments (Phase II)

Deposit	\$150.00
Rent (per person)	
Two bedroom—academic year lease	\$2,750 per semester/ per person
Two bedroom—extended year lease (12 month)	\$2,380 per semester/ per person

Fees and Deposits

The listing of fees in this publication does not constitute a contract between the university and the student. As a condition of registration, each student must pay fees by the established deadline and prior to attending classes.

Returned Checks

Acknowledged bank errors excepted, students will be charged \$30 for each check (regardless of amount) that is returned unpaid by their bank. See Regulations Governing Fee Payment below.

Fee Payment

Students are expected to make payment for all classes for which they are enrolled on or before the payment deadline.

Confirmation of Fee Payment

A student's registration is not complete until the student pays the appropriate fees in the Bursar's office. Students with fees paid in full by financial aid must confirm fee payment by authorizing the university to use financial aid proceeds through one of the fee payment methods listed below.

Fee Payment for Financial Aid Recipients

Students receiving financial aid will have estimated awards on their online account summary. If the awarding of aid is complete and the student's fees are paid in full, the student's registration must be completed by confirmation of fee payment. If fees are not paid in full by financial aid, the student must pay the balance due by the fee deadline. If you are a financial aid recipient and you have questions about the payment of fees, please consult the Schedule of Classes for the appropriate term referring to "Fee Payment" page, or contact the Office of the Bursar/Financial Services at 423/439-4212.

Regulations Governing Fee Payment

The university operates on the semester system and a cash basis. Students are required to pay all university fees when registering at the beginning of each semester.

The student ID card is used for admission and identification for athletic contests, social functions, and other activities during the semester for which the student is enrolled.

The engagement of a room in the dormitory is for the full year, payable on a semester basis. However, if a student enters the residence hall after the semester begins, the charges are prorated for the remainder of the

semester. Dormitory rent may be paid on deferred payment plan if the student does not have sufficient grant, scholarship, or loan funds to pay all registration fees, including dormitory rent, at the beginning of the semester. There is a charge for this service.

Students shall be held responsible for damages, breakage, or loss of university property. The room reservation fee of \$100 is retained as a room breakage deposit for all living in the dormitories.

Students may not reenroll, graduate, or receive a transcript of their records until all indebtedness to the university is removed.

A student's registration is not completed until the university receives payment in the amount of fees due the university. If payment is made with a check that is not honored (acknowledged bank errors excepted), a late fee will be charged when the student redeems the unpaid check. If the unpaid check is not redeemed within 10 days of return, the student may be disenrolled.

Fee Adjustment Policies

Fee adjustment policies for maintenance fees, out-of-state tuition, and debt service fees are outlined below. Fee adjustments due will typically be processed two weeks after the changes in enrollment status.

Change of a Student's Status Which May Not Permit a Fee Adjustment

Student(s) who are suspended or expelled from the university or residence facilities are not eligible for a fee adjustment of housing rent/deposit or university tuition fees.

Change of a Student's Status Which May Permit a Fee Adjustment

Change in a full-time student's schedule which results in the reclassification to a part-time student.

Change in a part-time student's schedule which results in a class load of fewer hours.

Situations Which May Permit a Fee Adjustment

- Dropping a course or courses;
- Withdrawing from the institution;
- Cancellation of a class by the institution;
- Death of the student.

Fee Adjustment Procedures

Fee adjustments are defined as the reduction of maintenance and/or tuition, fees and university housing charges from a student dropping credits, withdrawing, or being expelled from the university. The amount of the fee adjustment is determined according to the schedule below.

Fee adjustments are 100 percent for courses cancelled by the institution.

The fee adjustment for withdrawals or drops during regular terms (fall and spring) is 75 percent from the first day of classes through the fourteenth calendar day of classes and then reduced to 25 percent for a period of time which extends 25 percent of the length of the term. There is no fee adjustment after the 25 percent period ends. Students enrolling in more than a full-time course load receive the benefit of additional coursework at no additional cost. Dropping or withdrawing from classes during either the 75 percent or the 25 percent fee adjustment period will result in a fee adjustment of assessed maintenance fees based on the total credit hours of the final student enrollment. The fee adjustment is calculated as the difference between (1) the cost of originally enrolled hours and (2) the per credit hour cost of the courses at final enrollment after adjustments have been applied for all courses dropped. Adjustments are calculated at the full per credit hour rate less the fee adjustment credit at the applicable fee adjustment percentage (regardless of the original number of hours enrolled) with total costs not to exceed full-time tuition. For students dropping courses resulting in a change from full-time status to part-time status, a fee adjustment in the tuition and fees will result only if the new calculated charges are less than the original charges. Not all drops/withdrawals will result in a fee adjustment.

Return of Title IV Federal Student Aid

This requirement applies to you ONLY if:

1. You receive federal student aid, and
2. You withdraw prior to completing 60 percent of the period for which the aid was provided.

The federal law requires federal aid recipients to "earn" the aid they receive by staying enrolled in college at least half time. Students who withdraw prior to completing 60 percent of the semester for which they

received federal student aid may be required to return some or all of the aid they were awarded.

The law assumes that you used Title IV student aid to pay your institutional charges – tuition, fees, dorm room, and board. Thus, if you withdraw prior to completing 60 percent of the semester for which you were awarded aid, a pro-rata amount of your aid must be returned to the federal government.

First, the university will return to the appropriate federal source a proportional share of the institutional charges that you paid. In general, the effect of this “return of Title IV aid” by the institution will be to reduce your outstanding loan balance. Second, if the amount returned by the university is not enough to repay the entire “unearned” amount of student aid according to the length of your enrollment, you will be required to return portions of the federal student aid you received to pay noninstitutional charges.

Amounts that must be returned to federal aid sources, whether by the university or by you, will first be applied to your federal loans. With respect to any amount you owe after the university has returned its share, you will be permitted to repay loans based on the original terms of the loan. In the event you received a grant or scholarship from a Title IV source, you may be required to return portions of the grant or scholarship. In the case of “unearned” portions of federal grants or scholarships, you will be expected to pay 50 percent of the “unearned” portion immediately.

Any refund due to you from the university for amounts you paid to cover institutional charges, will first be applied to obligations to return “unearned aid.” Thus, portions of institutional refunds may be applied on your behalf to your outstanding Stafford or Perkins loan or to the federal portions of your grant or scholarship and not actually refunded to you.

(This policy is based on 34 CFR, Section 668.22 of Title IV of the Higher Education Act of 1965, as amended.)

Distribution Order of Refunds

Refunds from withdrawals will be credited back to student aid program accounts in the following order:

Title IV programs

1. Unsubsidized Federal Stafford Loans
2. Subsidized Federal Stafford Loans
3. Federal Perkins Loans
4. Federal PLUS Loans
5. Federal Pell Grants
6. Federal SEOG program

Other refunds will be credited to

1. State, private, or institutional aid
2. The student

Refund Appeals Procedures

Students contesting the refund policy may file a refund appeals which may be obtained in the Office of Financial Services, 202 Dossett Hall. It is the student’s responsibility to provide written documentation substantiating reasons for the appeal. Withdrawals or reductions in course load due to personal illness/injury require a statement from a licensed medical physician stating withdrawal was necessary due to the health of the student; a death in the immediate family can be verified with a copy of the obituary. Immediate family includes spouse, child, stepchild, parent, stepparent,

foster parent, parent-in-law, sibling, grandparents, and grandchildren. Other reasons must be supported by written documentation. Students should file a refund appeal request within one academic year from the last day of the term with *verifiable documentation of extenuating circumstances*. Student concerns regarding fees will only be addressed within 18 months from the date when grades were assigned for the term in question.

Deferred Payment Plan

Although all charges are due and payable at the beginning of each term, students in good financial standing at ETSU may request the deferment of up to 50 percent of their tuition, fees and housing for fall and spring semesters. The deferment of fees is not available for summer terms.

To be eligible for the Deferred Payment Plan, each participant must be prepared to make a minimum down payment of 50 percent of the tuition, fees, and dorm rent. A student who has failed to make timely payments in a previous term is denied the right to participate in the Deferred Payment Plan in additional enrollment periods.

The amount deferred will be payable in two monthly installments. For the fall term, installment payments are due by October 1 and November 1. For the spring term, installment payments are due by March 1 and April 1. Participants in this plan must apply all financial aid received, including students loans, toward payment of tuition and room before a deferment will be considered.

Each participant will be charged a \$50 service fee each term to defray administrative costs. This fee is payable along with the 50 percent down payment on or before the registration payment deadline listed in the Schedule of Classes. An additional late payment charge of \$25 will be assessed for each installment not paid on or before the 10th day of the month that a payment is due.

Dropping a course or withdrawing from the university will not remove charges. Students who drop or withdraw are required to complete the deferred payment plan. Any refund due under the regular refund policy will be credited to the unpaid balance.

Refund of Residence Hall Rent

Refunds of residence hall rent after registration will be prorated on a weekly calendar basis when the student is forced to withdraw from the residence hall:

- (1) because of personal medical reasons confirmed in writing by a licensed physician; or
- (2) at the request of the institution for other than disciplinary reasons.

Full refund will be made in the case of death. Withdrawals for other reasons, except disciplinary reasons, will be subject to the same 75/25 percent amounts and time periods as maintenance fees. Student(s) who are suspended or expelled from the university or residence facilities are not eligible for a refund of housing rent/deposit or university tuition fees. No refund will be made under any other than the above conditions.

Refund of Residence Hall Reservations and Breakage Deposits

Full deposit will be refunded if the institution is notified a minimum of 14 calendar days prior to the first official day of registration, the student is prevented from entering the university because of personal medical reasons confirmed in writing by a licensed physician, or residence hall space is not available. Full refund will be made in the case of death.

UNDERGRADUATE STUDENT ADVISEMENT

Advisement at ETSU is defined as a “continuous interactive process between an advisor and student which facilitates the development and achievement of the student’s overall goals.”

Advisement is a distinct part of a student’s educational experience, provided by ETSU as a service. Discussions between the student and the advisor will assist in exploring and clarifying educational, career, and life goals. Students should consult with their advisor before making decisions that may affect academic progress and success. Discussions with the advisor may include: career decisions, ETSU resources, dropping a class, withdrawing from school, selecting courses, and understanding degree requirements.

All students have an assigned advisor and should confer with the advisor regularly. Advisors are a personal link between the student and the university. The relationship students develop with their advisor is important to their success at ETSU. An advisor can be assigned or changed by contacting the advisement coordinator for the college or school in which the student’s major is offered.

All students who entered ETSU with less than 60 credits are required to meet with an advisor prior to registration. First-term-at-ETSU transfer

students are required to meet with an advisor prior to registration for the first and second term of enrollment. Students who have been readmitted are required to meet with an advisor prior to registration their first term back at ETSU.

These guidelines are the minimum advisement requirement. Some colleges and departments may have additional advisement requirements. Students should consult with their academic advisor to determine advisement requirement.

Students who have declared a major should see an advisor in that major. Students should contact the department of their major for information or contact the Advisement Resources Career Center (ARC – 2nd level of D.P. Culp Center, 423-439-8650) for assistance. Students taking classes in Kingsport may contact this center for advisement information. Other areas may contact the student to discuss additional advisement opportunities such as Athletics, the Adult, Commuter, and Transfer Services (ACTS), Student Support Services, Pre-Med and other Pre-Professional areas.

All students will benefit by conferring with their assigned advisor on a regular basis.

The Academic Advising Rights and Responsibilities (listed below) is a guide for students and advisors relating to the advisement process.

ACADEMIC ADVISING RIGHTS AND RESPONSIBILITIES

Student Rights and Responsibilities

1. The student has the RIGHT to an advisor and has the RESPONSIBILITY to learn the name and office location of the advisor early in his/her first semester.
2. The student has the RESPONSIBILITY to schedule appointments with his/her advisor and to keep them. If the student finds that it is not possible to keep the scheduled appointment, the student will notify the advisor before the appointed time.
3. The student has the RIGHT to expect his/her advisor to thoroughly understand the university’s structure and its academic policies on such things as registration, add/drop, withdrawal, payment options, and academic grievances.
4. The student has the RIGHT to expect his/her advisor will be familiar with the variety of degree offerings, the procedure for referral to and the types of support services available.
5. The student has the RESPONSIBILITY for decisions made. The student will seek assistance with the decisions to be made rather than expect the advisor to make the decisions.
6. The student has the RIGHT to expect his/her advisor to help plan a program of study, designed through personal interaction between the student and the advisor, which reflects the student’s academic background, course prerequisites, and educational goals.
7. The student has the RIGHT to expect the advisor to create an atmosphere of openness, caring and concern so meaningful communication and trust can occur.
8. The student has the RESPONSIBILITY to consult with his/her advisor on a regular basis, when in academic difficulty, prior to changing majors, prior to making changes in an approved schedule, transferring to another college, or withdrawing from college.
9. The student has the RESPONSIBILITY to follow through with appropriate action after the advising session.
10. The student has the RESPONSIBILITY to seek reassignment to a new advisor if differences between the advisor and student should develop.

Advisor Rights and Responsibilities

1. The advisor has the RESPONSIBILITY to know his/her advisees’ names.
2. The advisor has the RESPONSIBILITY to keep all scheduled appointments and to notify the student in advance if it is not possible to keep the scheduled appointment.
3. The advisor has the RIGHT to expect the student to be knowledgeable about policies, procedures and requirements. They are listed in a variety of sources (e.g., catalog, schedule of classes, student handbook, department checksheets).
4. The advisor has the RESPONSIBILITY to gain the necessary knowledge and skills to effectively and accurately articulate specific degree requirements, as well as college, Core Curriculum, Areas of Proficiency, TBR requirements, and licensure requirements, if applicable.
5. The advisor has the RESPONSIBILITY to provide the student with accurate information about alternatives, limitations and possible consequences of academic decisions.
6. The advisor has the RIGHT to expect that the student will clarify personal values and goals in advance of the advisement session and will be prepared. The student will have an idea of the kind of courses required and a list of alternatives.
7. The advisor has the RIGHT to be treated in a respectful manner and to become acquainted with the advisee.
8. The advisor has the RESPONSIBILITY to maintain a complete and accurate file on the student in order to monitor progress towards goals and graduation requirements.
9. The advisor has the RIGHT to expect the student to meet with the advisor at appropriate times to receive advice in a timely fashion.
10. The advisor has the RESPONSIBILITY to assist in that reassignment process. Source: Advising Skills, Techniques, & Resources, David S. Crockett, Editor (NACADA).

FINANCIAL AID AND SCHOLARSHIPS

Introduction

The Office of Financial Aid at East Tennessee State University provides a broad spectrum of programs to assist students in financing their college education. The university is committed to providing access to students through a variety of resources. Types of financial aid include scholarships, grants, fee waivers, fellowships, assistantships, work-study, and student loans.

Financial Aid is a supplement to an applicant's personal resources. Reasonable family contributions are expected. The majority of financial aid awarded at the university is based on the student's financial need. Scholarship funds are awarded based on academic merit or other criteria specified by the donor or organization managing the program. Need is defined by federal formulas and based on a student's estimated cost of attendance less any expected family contribution.

The Free Application for Federal Student Aid (FAFSA) is the federal government's form for applying for financial aid. Students must complete the FAFSA every year as soon after January 1st as possible using accurate tax information from the prior year. The FAFSA provides a comprehensive review of the family's financial status. The results, including the Expected Family Contribution, are generated on the Student Aid Report (SAR), sent to the student, and sent electronically to colleges and universities listed by the student on the FAFSA. Students will find links to other helpful financial aid information at www.etsu.edu/finaid. A link is also provided to complete the FAFSA electronically.

Financial aid programs, rules, and regulations are subject to change. Federal funds are conditional upon congressional appropriations and receipt of those funds at ETSU. The Financial Aid Policies and Procedures Guide located at www.etsu.edu/finaid gives additional detail on program requirements.

Financial Aid counselors are assigned to students according to the student's last name. Students may contact their counselor with any questions or concerns regarding their eligibility.

In an effort to adhere to federal privacy laws, the ETSU Office of Financial Aid restricts the release of certain private student information. Students must contact the Office of Financial Aid personally to check the status of their financial aid application and awards. Often, we will be unable to release information to third parties (i.e., parents, spouses, etc.) without a signed release form on file from the student. To obtain a Release of Information Form, the student must visit our office in person and present a photo ID. This Release of Information does not authorize third parties to complete documents that, by law, require the student's completion and/or signature. Access to financial aid information is limited and does not include access to information from other university departments. This release will remain in place until the student submits a written cancellation request to the Office of Financial Aid.

Any applicant who has a concern that cannot be resolved between the student and a financial aid counselor may appeal in the following order: to the Client Services Coordinator, the Assistant Director of Financial Aid, then the Director of Financial Aid. The student may appeal to the Vice Provost if none of the previous steps resolved the issue.

"Funding Education Beyond High School," a publication by the United States Department of Education, is a helpful source of information regarding the federal financial aid programs. Copies are available in the Office of Financial Aid or directly from the government at http://studentaid.ed.gov/students/publications/student_guide/index.html.

Student Eligibility

To be eligible for federal financial aid programs, students must meet the following criteria:

1. Be accepted for admission;
2. Be enrolled as a regular student, attending classes in a degree or certificate program;
3. Be a U.S. citizen or eligible non-citizen;
4. Meet the financial aid Satisfactory Academic Progress Policy;
5. Males must be registered with the Selective Service;
6. Not be in default on a student loan or owe a repayment of Title IV federal financial aid funds. (A repayment occurs if the student

receives funds for living expenses and then withdraws within the first 60% of the term (officially or unofficially) from the university.

Students not enrolled in a degree or certificate program may be eligible for financial aid if enrolled in pre-requisite classes for admission into a graduate degree program or enrolled in classes to complete teaching certification requirements. Federal Stafford Loans may be awarded to these students for a maximum of 12 consecutive months and a one-time occurrence during educational career.

Federal Financial Aid Application Procedures

1. Apply for a personal identification number (PIN) at www.pin.ed.gov in order to electronically sign the Free Application for Federal Student Aid (FAFSA.) If you are a dependent student, your parent must also apply for a PIN.
2. Every year, complete the (FAFSA) as soon as possible after January 1st using accurate tax information from the prior year. Students are encouraged to complete the FAFSA electronically at the following web site: www.fafsa.ed.gov. List the ETSU school code, 003487, on the FAFSA for ETSU to receive the data electronically.
3. ETSU will review the student's financial aid record electronically with the National Student Loan Data System (NSLDS.) If the student has attended another institution and discrepancies are found, the student must resolve the discrepancy with that institution.
4. The Federal Processor sends the Student Aid Report (SAR) to the student in response to completing the FAFSA. ETSU will receive the SAR data electronically when the student lists ETSU on the FAFSA. If ETSU was not listed on the FAFSA, the student should go to www.fafsa.ed.gov and add the ETSU school code, 003487. The student is encouraged to review the SAR for accuracy. If corrections are required, ask the Office of Financial Aid for assistance. If the student is selected for verification, the student should contact the ETSU Office of Financial Aid for further instruction or assistance. The Office of Financial Aid may require other information.
5. When the student receives the financial aid award letter, review the letter, sign and return it to the Office of Financial Aid by the due date.
6. If you accept the Stafford Loan, complete the Stafford Lender Selection Form and return it with the financial aid award letter. If you are a first-time borrower, complete the Master Promissory Note (MPN) with your lender. Complete Stafford entrance loan counseling online at www.mapping-your-future.org for ETSU regardless if completed at another institution. If you accept Perkins Loan, complete the Master Promissory Note with the Office of the Bursar/Financial Services and complete entrance loan counseling for Perkins at www.mapping-your-future.org regardless if completed at another institution.

Important Dates

Early application remains the most important action in securing funds to assist with financing the student's education. The university recommends the following dates as a guideline:

- 1. January 1** Complete the Free Application for Federal Student Aid (FAFSA) as soon as possible using accurate tax information.
- 2. February 15** Priority date to apply for TSAA using the FAFSA form. Deadline for new freshmen to apply for the ETSU APS Scholarship.
- 3. March 1** Follow up with the Office of Financial Aid on FAF status.
Deadline to apply for ETSU Scholarships
- 4. April 15** Priority date for student financial aid files to be complete to have financial aid available at the beginning of the fall term. Students applying after this date **should not** anticipate having aid available at the beginning of the fall term.
- 5. May 15** Deadline for new transfer students to apply for the ETSU APS Scholarship.

6. **November 15** Priority deadline for student financial aid files to be complete to have financial aid available at the beginning of the spring term.

Deadline to have FAFSA processed to be considered for the Tennessee Lottery Scholarships:
September 1 – Fall
February 1 – Spring

Financial Aid Satisfactory Academic Progress Policy

Federal regulations require that all student financial aid recipients make satisfactory academic progress toward achieving a degree. Progress is measured by the student's cumulative grade point average, percentage of credit hours earned in relation to those attempted, and the length of the academic program. In order to assure that students make progress toward the degree both in terms of number of hours completed and cumulative GPA, East Tennessee State University uses the following satisfactory progress policy:

- **PROGRESS STANDARDS:** Students must earn a satisfactory grade in at least 66% of the semester credit hours they attempt each semester.
- **SEMESTER PROGRESS:** Students must, as a minimum, receive a satisfactory grade (*) in the courses they attempt each semester. *For purposes of financial aid, satisfactory grades are A, A-, B+, B, B-, C+, C, C-, D+, D, S, SP or P. Unsatisfactory grades are F, W, WF, U, or I. Audits do not count as attempted hours and are not eligible for financial aid.
- **Note:** Unsatisfactory grades **will not** be counted as earned credit hours, but **will** count as attempted credit hours.
- **EVALUATION PROCESS**
 - Academic progress is reviewed at the end of each Spring term, and students who do not make satisfactory academic progress are notified in writing.
 - Students who receive all "I", "F", "W", "WF", or "U" grades in courses attempted in ANY term (fall, spring, summer) will become ineligible for financial aid (see below in reference to Regaining Eligibility).
 - Repeat courses will be counted in earned credit hours. (Note: ALL courses attempted, except audited courses, count in total credit hours attempted.)
 - Transfer courses recognized by ETSU will be counted in attempted and earned credit hours.
 - All distance education, telecommunications, television, and web-based courses are considered in total attempted hours.
 - Academic Fresh Start (See [Admissions](#)) students will have their satisfactory academic progress evaluated on work attempted after returning to the University under the Academic Fresh Start Policy. However, the appeal limits and maximum eligibility requirement (150%) still apply (see below in reference to Maximum Eligibility).
 - Second-degree students will have their satisfactory academic progress calculated from the credit hours attempted beyond the first degree. (Note: Additional credit hours for the second-degree coursework will be limited to the credit hours required to complete the second degree.) A second-degree student is defined as a student with a previous degree at the same classification, either undergraduate or graduate. For example, a student pursues a

bachelor's degree in a new field after earning a previous bachelor's degree.

- Students classified as "[Undergraduate Special](#)" (SPU) may be eligible for federal financial aid; check with a Financial Aid Counselor.
- Students classified as "[Graduate Non-Degree](#)" (SPG) are eligible for federal financial aid for a maximum of one year if they are enrolled in classes that are:
 - Required for a teacher certification program (the loan limit is that of a fifth-year undergraduate); OR
 - Necessary as pre-requisite courses for enrollment into a graduate program (the loan limit is that of a fifth-year undergraduate).
 - Students may receive aid for no more than 30 attempted hours of remedial coursework. English as a Second Language (ESL) classes are included in the 30 credit hours.
- **CUMULATIVE PROGRESS:** Students must, in addition to the above, meet the retention standards of [ETSU](#) as outlined in the current ETSU Undergraduate and Graduate catalogs.
- **MAXIMUM ELIGIBILITY:** Students who have attempted 150% of the required credit hours for their degree will become ineligible for financial aid. Maximum eligibility is checked each semester.
- **REGAINING FINANCIAL AID ELIGIBILITY**
 - **SATISFACTORY PROGRESS APPEAL:** Students who fail to meet these standards and lose eligibility for financial aid can appeal that decision to the Office of Financial Aid. The appeal must be prepared in writing on the Satisfactory Academic Progress Appeal Form, and must be accompanied by appropriate supporting documents. The appeal form can be found below. Reasons that may be acceptable for the appeal are:
 - Serious illness or accident on the part of the student;
 - Death, accident, or serious illness in the immediate family;
 - Class cancelled by [ETSU](#); and
 - Other acceptable extenuating circumstances considered
 - **MAKING UP DEFICIENT CREDIT HOURS WITHOUT AID:** In the event that the student does not qualify for an appeal, he or she may be eligible to have financial aid reinstated by taking the following actions:
 - Earn at [ETSU](#) the number of deficient credit hours (see chart above in reference to Semester Progress for credit hour requirements) in which aid was received;
 - Pay for these hours without federal financial aid;
 - Maintain a minimum 2.0 GPA for the term average for those credit hours; and
 - Notify the Office of Financial Aid when the deficient hours have been earned.
- **APPEAL LIMITS** The maximum number of appeals any student may normally have granted during an academic career is two (2). Under extreme circumstances, a third appeal may be granted during an academic career, provided that the student has documented proof of the circumstances. In the case of a student who files a third appeal, the reasons for the student's two previous appeals will be reviewed and considered when making a decision. Additionally, the student's progress within the academic program will be a determining factor in third appeals.

[Satisfactory Academic Progress Appeal Form](#)

<http://www.etsu.edu/finaid/Forms/AppealForms.asp>

[Bursar's Office Fee Adjustment Policy](#)

<http://www.etsu.edu/finaid/Forms/AppealForms.asp>

Federal Student Financial Aid Programs

East Tennessee State University participates in many federal financial aid programs in an effort to meet students' needs. The FAFSA must be completed before eligibility can be determined.

Federal Pell Grant Program - Eligibility is determined from the Expected Family Contribution on the Student Aid Report, the cost of attendance, and the student's part-time or full-time enrollment each semester. Recipients must be undergraduate students who have not earned a bachelor's or graduate degree.

Federal Supplemental Educational Opportunity Grant (FSEOG) - Awarded to undergraduates with exceptional financial need. Funding is limited and generally offered only to Pell Grant recipients with the lowest Expected Family Contributions.

Federal Academic Competitiveness Grant (ACG) - Awarded to undergraduate students who are U.S. citizens, eligible for Federal Pell grant, enrolled full time in their first or second academic year, and have completed a rigorous secondary school program of study. Students must have a 3.0 college GPA in order to receive the second academic year award.

Federal National Science and Mathematics Access to Retain Talent Grant (SMART) - Awarded to undergraduate students who are U.S. citizens, eligible for Federal Pell grant, enrolled full time in the third or fourth academic year of an eligible major with a 3.0 college GPA.

Federal Work-Study Program (FWSP) - Awarded to undergraduate and graduate students with financial need. Students are paid minimum wage bi-monthly. Available positions are listed at www.etsu.edu/finaid under Student Work Positions.

Federal Perkins Loan Program - Federally funded loans borrowed from the university awarded to undergraduate and graduate students.

Federal Stafford Loan Program - Stafford loans are awarded based on a student's dependency status, financial need, cost of attendance, and grade level. Both undergraduate and graduate students may borrow in this program.

Federal Unsubsidized Stafford Loan Program - These loans are available to students who do not have financial need.

Federal PLUS Loan Program (PLUS) - Federal PLUS loans are available to parents of dependent undergraduate students.

Federal GradPLUS Loan Program (GradPLUS) - Federal GradPLUS loans are available to graduate professional students who need additional funds beyond their Federal Stafford Loan eligibility. Students may borrow up to the cost of education minus any other financial aid.

For more information on each of these loan programs, please refer to "Funding Education Beyond High School" at http://studentaid.ed.gov/students/publications/student_guide/index.html.

Tennessee Student Assistance Corporation Programs

The Tennessee Student Assistance Corporation (TSAC) has a variety of grants and scholarships available to assist students in meeting the cost of education. Also available are loan forgiveness programs. Additional information can be found at the following web site: www.CollegePaysTN.com.

University Student Employment

The Cooperative Education Program (Co-Op) - The ETSU Office of Career Development has information about off-campus jobs and the Cooperative Education Program. Co-Op gives students the opportunity to gain work experience related to their academic major and career objective. The ETSU School of Graduate Studies has information about graduate assistantships and doctoral fellowships available for qualified graduate students.

The Federal Work Study Program (FWSP) - Information about the Federal Work Study Program is available in the Federal Student Financial Aid Programs section above.

The Regular Student Work Program (RSWP) - The Regular Student Work Program (RSWP), funded by ETSU, allows undergraduate and graduate students to work on campus. Students are paid minimum wage bi-monthly. Available positions are listed at www.etsu.edu/finaid/jobsads under Student Work Positions. Students do not have to qualify for federal financial aid to work RSWP.

University Loans

Loans from private donors and ETSU are available for students to borrow with reasonable repayment terms. Funds are limited and students are encouraged to apply early.

The Alumni Loan Fund - Made available by donations from alumni. Loans of up to \$250 are made to students who demonstrate financial need having a satisfactory academic record (2.0 or better). Two co-signers are required. Interest at the rate of 6 percent per annum will begin on the date the maker ceases to be enrolled full time at ETSU. Apply to the Office of Financial Aid.

The George Washington Bradley Memorial Loan Fund - Established to honor the memory of Dr. Bradley, former Assistant Professor of Education and Psychology, ETSU. Available funds may be loaned to worthy graduate students majoring in education counseling or guidance who demonstrate financial need and are making satisfactory progress in school. The repayment may be deferred until after graduation, with interest at the rate of 6 percent per annum beginning at that time. Apply to the Office of Financial Aid.

The East Tennessee State University Loan Fund - A short-term loan fund administered by ETSU for those students having temporary needs to meet their educational expenses for tuition/fees. There is a processing charge, and repayment is due at least two weeks prior to the end of the semester in which the loan is made. A short-term loan application is required. An original gift of \$1,000 from business and professional men of Johnson City established the loan fund. It has been augmented with gifts from other sources which include: gift from Mrs. Elizabeth Allison in memory of her husband, Mr. M.H. Allison; the American Legion Auxiliary, Kings Mountain Unit No. 24, in memory of Mrs. Ferne Fisher Miller; the Business and Professional Women's District Loan Fund; the Lt. (j.g.) William C. Dunn Memorial Loan Scholarship Fund; the Ada Hornsby Earnest Loan Scholarship; the Eastern Star Loan Fund, Nolichucky Chapter 194; the Faculty Women's Club Loan Fund; the Frieberg Memorial Loan Scholarship, established by the Col. D. Henley Chapter of the U.S. Daughters of 1812; the Sidney Gordon Gilbreath Loan Fund established in memory of the first president of the university; the Sarah Hawkins Chapter, DAR Loan Fund; an annual contribution from Home Federal Savings and Loan Association, the Johnson County Loan Fund, established by the Weitzel-McBride Chapter of the U.S. Daughters of 1812; the Jesse M. Jones Memorial by Mr. and Mrs. Doyle Jones; the Ona Main Memorial established by the East Side PTA, Elizabethton; the Ferne Fisher Miller Memorial Loan Scholarship, established by the Daughters of 1812; the Mae Nave Memorial Loan Fund; the William R. Rigell Memorial Loan Fund; the C.C. Sherrod Memorial Loan Fund, established in memory of the second president of the university; the P.W. Alexander Alumni Memorial Fund; the John Sevier Chapter, DAR Loan Fund, the Tennessee Student's Loan Fund, a memorial to Hortense Cocke Hayes and J. Normen Powell; the U.S. Daughters of 1812 Loan Scholarship, established by the Weitzel-McBride Chapter, the Gen. Nathaniel Taylor Chapter, and the Watauga Chapter; and the YMCA Student Loan Fund. Apply to the Office of Financial Aid.

The Patience Myers McLain Fund - Established by the late Roy B. McLain in memory of his mother. This is a loan fund whereby needy students preparing for ministerial or social welfare work may borrow up to \$300 per semester. Repayment begins six months after the maker ceases to be enrolled full time, with interest at the rate of 3 percent per annum. Apply to the Office of Financial Aid.

Veterans Benefits

Veterans should contact the Office of Veteran's Affairs at East Tennessee State University for information and application procedures.

Vocational Rehabilitation

Funds may be available for education and retraining for disabled students. Students should contact the State of Tennessee, Division of Vocational Rehabilitation in their county of residence and register with the Office of Disability Services at ETSU.

Tennessee Education Lottery Scholarships

Tennessee Education Lottery Scholarships (TELS) are available to qualified Tennessee residents. Initial eligibility for the award is based on high school GPA and ACT/SAT scores. Students must submit the Free Application for Federal Student Aid (FAFSA) by **September 1** for fall term and February 1 for spring and summer terms. For more information on the TELS program visit the Tennessee Student Assistance Corporation web site: www.CollegePaysTN.com. Information on renewal criteria is also located on the Scholarship Office web site: www.etsu.edu/scholarships.

All students who have completed classes at another college/university are required to submit an official transcript(s) to the Admissions Office within two weeks of completing the classes. Eligibility for the Tennessee Education Lottery Scholarship program (TELS) is based on all college-level classes completed after high school graduation. Students who receive a TELS award in error based on failing to report transfer credit will be required to repay the award.

Scholarships

Many scholarship programs are available to assist students in various fields of study. Scholarships are intended to assist students in funding the direct costs of their higher education. Full scholarship support at East Tennessee State University is defined as those scholarships, or combinations of scholarships, that provide current costs including tuition, fees, standard dormitory housing and meal plans, and in some instances, an additional

stipend towards books and other fees. In keeping with the intent of scholarship support, East Tennessee State University reserves the right to limit internally funded scholarships to an amount that does not exceed these direct costs. Scholarships or loan amounts received from sources other than East Tennessee State University shall not be limited nor included in assessment of the funds granted for full scholarship support.

Unless otherwise stated, scholarships are not renewed automatically. Recipients are encouraged to read the information sent with the scholarship announcement or ask the program coordinator for renewal information.

A complete list of ETSU scholarships, including descriptions and applications, is available on the Scholarship Office web site: www.etsu.edu/scholarships. Or you can request a Scholarship brochure and application by contacting the Scholarship Office at (423) 439-7094.

Scholarship Deadlines:

Academic Performance Scholarships for New Freshmen February 15
 Academic Performance Scholarships for New Transfers May 15
 General University Scholarships March 1

Applications must be received in the Scholarship Office by the deadline date. Late applications will not be considered. Other ETSU scholarships (e.g., University Honors, College and Departmental Scholarships) may have different deadlines and may require a special application. Please read the scholarship descriptions carefully or contact the appropriate office.

Organizations and Activities

If you are looking for ways to get involved on campus - you have come to the right spot. There are approximately 150 registered student organizations on the campus of ETSU, representing the diverse interests of our student population. Students are encouraged to be involved in campus life and our office can help you make the connection.

Approximately 150 student organizations provide involvement opportunities for everyone. Student organizations at ETSU are categorized into one of the following areas which best describes their general purpose: Academic, Community Service, Governance, Greek, Honors, Religious, Residence Life, University Programs, and Special Interest. Contact Community Engagement, Learning, and Leadership, phone (423) 439-5675 for more information.

Academic Clubs

Advertising Club
 Alpha Sigma Iota
 AMA – Medical Student Section of ETSU
 American Congress on Surveying and Mapping
 American Marketing Association
 American Pharmacists Association Academy of Student Pharmacists, ETSU Chapter
 American Society of Interior Designers
 Association for Computing Machinery
 Biomedical Sciences Graduate Association
 Club Cervantes
 Construction Management Association
 Criminal Justice Society
 Der Deutsche Club - German Club
 Doctoral Nursing Student Organization
 Economics Club
 Educational Leadership Association
 Entrepreneur's Club
 Future Doctors of Audiology
 Geology Club at ETSU
 Graduate and Professional Student Association
 Graduate Students Association of Psychology
 History Society
 Human Development and Learning
 Japanese Cultural Society
 La Societe Francais
 Masters of Social Work Student Association
 National Student Speech Language Hearing Association
 Organization of Student Representatives (College of Medicine)
 Percussion Society
 Phi Mu Alpha Sinfonia - Music
 Philosophy Club
 Pre-Pharmacy Club
 Psychology Club
 Public and City Management Association of Graduate Students
 Public Health Student Association
 Public Relations Student Society of America
 Student ACM Siggraph at ETSU (EDGE)
 Student Association for Young Children
 Student Ceramic Association
 Student Foods and Nutrition Association
 Student Metal Art Club
 Student Nurses Association
 Student Painting, Drawing, and Alumni Association
 Student Photography Association
 Student Physicians Interested in Anesthesiology
 Student Sculpture Society
 Student Social Workers Association
 Student Tennessee Education Association
 Student Women in Medicine (SWIM)
 Students of Finance Association
 Taletellers

Honor Societies

Alpha Lambda Delta
 Alpha Phi Sigma
 Alpha Sigma Lambda
 Beta Alpha Psi - Business

Beta Beta Beta
 Delta Phi Alpha - German
 Delta Sigma Pi
 Epsilon Pi Tau
 Golden Humanism Honor Society
 Golden Key Honor Society
 Kappa Delta Pi
 Kappa Kappa Psi
 Kappa Omicron Nu
 Lambda Pi Eta
 National Residence Hall Honorary
 Omicron Delta Epsilon
 Omicron Delta Kappa
 Phi Alpha Honor Society
 Phi Kappa Phi
 Pi Delta Phi Honor Society – French
 Pi Sigma Alpha
 Psi Chi - Psychology
 Sigma Alpha Iota
 Sigma Alpha Lambda
 Sigma Theta Tau - International Honor Society for Nursing Students
 Tau Sigma – Transfer Student Honor Society

Campus Ministry Opportunities

Adventist Christian Fellowship
 Baptist Collegiate Ministries
 Campus Crusade for Christ
 Catholic Campus Ministries
 Chi Alpha Christian Fellowship
 Christian Student Fellowship
 Generation Church
 Hillel
 Latter Day Saint Student Organization
 Presbyterian Student Fellowship
 Reformed University Fellowship
 The Well
 Wesley Foundation
 Young Life - QUEST

Social Fraternities and Sororities Fraternities

Alpha Phi Alpha Fraternity, Inc.
 Kappa Sigma
 Lambda Chi Alpha
 Pi Kappa Alpha
 Sigma Alpha Epsilon
 Sigma Chi
 Sigma Nu
 Sigma Phi Epsilon
 Tau Kappa Epsilon

Sororities

Alpha Delta Pi
 Alpha Kappa Alpha Sorority, Inc.
 Alpha Xi Delta
 Delta Sigma Theta
 Kappa Delta
 Sigma Kappa
 Zeta Phi Beta

Community Service

Alpha Phi Omega
 Alternative Spring Break
 Relay for Life
 Up 'til Dawn
 Volunteer ETSU

Governance

Graduate and Professional Student Association
 Honors College Student Council
 Inter-Fraternity Council
 National Pan-Hellenic Council
 Residence Hall Association and 8 Hall Councils
 Student Government Association

Special Interest Groups

African Diaspora Society
 Amnesty International
 Art History Society
 BUC WILD
 Bucs Against Drunk Driving
 Chinese Student and Scholar Association
 College Democrats
 College Republicans at ETSU
 Colleges Against Cancer
 Collegiate Merchandising Association
 Cycling Club
 Feminist Majority Leadership Alliance
 Fiber Club
 First Book
 Foundation for the International Medical Relief of Children – ETSU Chapter
 Gaming Society at ETSU
 Gospel Choir
 Initiative for Clean Energy
 Kingsport Student Service Board
 Knitting Club of ETSU
 Leadership House
 NAACP at ETSU
 NAMI – Bucs
 National Association of Black Social Workers
 National Society of Scabbard and Blade
 NET (Adult, Commuter, and Transfer Services Leadership Network)
 Patchwork Players
 Silent Bucs
 Society for Intellectual Diversity
 Society of American Archivists Student Chapter at ETSU
 Student Ghost Hunters at ETSU
 University Amateur Radio Club

Sporting/Activity

BUC Paintball Club
 Climbing Club
 Dance H.I.T.S.
 Ducksquad
 Eddie Reed Ranger Challenge Team
 Exercise and Sports Science Club
 Fencing Club of ETSU
 Marksmanship Club
 Men's Soccer Club at ETSU
 U.S. Army ROTC Running Team
 White Water Adventures

Residence Life

Carter-Stone Hall Council
 Davis Hall Council
 Dossett-West Hall Council
 Lucille Clement Hall Council
 Luntsford Hall Council
 Powell-Panhellenic Council

University Sponsored

Admissions Ambassadors
 Black Affairs Association
 Buctainment
 East Tennessean
 Preview and Orientation Leaders Association

Student Services and Resources

Regard for the student as a person, and provision of opportunities for participation in the co-curricular life of the university are basic commitments of East Tennessee State University. Dedicated, caring individuals strive to give the student a sense of belonging to ETSU.

Student services include an orientation program, financial aid, housing, personal counseling, and advising to help plan a program of study or choose a vocation. Student services are available to meet the special needs of minority groups, students with disabilities, and those with specific health or academic problems.

Advisement, Resources, and Career Center — A “One-Stop-Shop” - The Advisement, Resources, and Career Center (ARC) is located on the

second level of the D.P. Culp University Center next to the Bookstore, phone (423) 439-8650. The ARC is open Monday-Friday 8:00 a.m. - 4:30 p.m.-www.etsu.edu/arc/

The ARC is staffed by professionals who evaluate students' academic progress as it relates to their personal aspirations and career goals. In addition to advising students, referrals for additional academic assistance are made when necessary. The ARC is user-friendly so that students can access advisement, career and support services without ever leaving the facility. The ARC serves as a primary resource for students who have a variety of needs including those who are entering the university for the first time, those that are unsure about an academic major or career option, and those who wish to take advantage of various academic support services to enhance their classroom learning. The ARC incorporates several academic and student support services listed below.

- **Adult, Commuter, and Transfer Services** — Because we know that making a successful transition means more than getting a schedule of classes, A.C.T.S. serves as a central source of student information, referral and advocacy for ETSU's adult, commuter, and transfer population. **Adult** students benefit from personalized referrals while gaining a greater awareness of university services and events. **Communing** student services include easy access to campus maps, a battery pack, air compressor, shuttle/transit schedules, off-campus housing listings, and the Carpool and RideShare programs. **Transfer** students receive guidance and support in making the transition from other colleges and universities to ETSU – no matter how long it's been since they were last in school. In partnership with other university offices and academic departments, A.C.T.S. will help facilitate the smooth entry of adult, commuter, and transfer students into the ETSU graduate or undergraduate community and support their continuation toward completion of their degree.

A.C.T.S. advises the Zeta Tau Chapter of the adult student honorary, Alpha Sigma Lambda, as well as a chapter of Tau Sigma – the national honorary for transfer students. A.C.T.S. invites both undergraduate and graduate students to join THE NET, a web-based student organization for adult students on the ETSU campus. A.C.T.S. is located on the second level of the D.P. Culp University Center in the Advisement, Resources, and Career Center. Contact A.C.T.S. at (423) 439-5641 or visit our web site at <http://www.etsu.edu/students/acts/>.

- **Arts and Sciences in the ARC** (423) 439-5671 — Associate Dean and executive aide available in ARC for administrative forms needing College of Arts and Sciences dean's signature. See web site for more details: www.etsu.edu/cas.
- **Career and Internship Services** (423) 439-4450 - provides career counseling and individual advisement on finding job or internship opportunities. Internships, available in most disciplines, offer an opportunity to earn academic credit for approved work experiences in business, industry, government, and health agencies. The office provides an employer-generated job list and search service through BucLink at www.etsu.edu/careers. All students are encouraged to register with BucLink and visit the CIS office for help with resumes, effective job search techniques, preparing for interviews, or other career-related assistance. Numerous class presentations, on-campus interviews, career fairs and special programs are scheduled throughout the year.
- **Medical Professions Advisement** (423) 439-5602 –The source for information, academic advisement, and other support functions for students pursuing medically related disciplines.
- **Peer Career Center** (423) 439-8651 — Located in the ARC, the Peer Career Center is a starting place for students who are uncertain about their choice of academic major or career. With the assistance of our professional staff, career interest inventories, personality inventories, and an extensive career library, we can help students identify career options that suit their personal needs. These services are free to current ETSU students. Limited services are available to potential students and ETSU alumni. Visit our web site at www.etsu.edu/students/counsel/peercareer.htm.

- **University Advisement Center (UAC)** — The UAC provides academic, career, and personalized counseling to those students who have not declared a specific major and /or who are taking developmental studies courses. By focusing on all aspects of student life, the UAC is able to assist each student in the accomplishment of academic success and attaining personal goals. In academics and career planning, counselors help students understand academic requirements and identify career options that affirm their academic strengths and interests. As a campus resource, counselors assist students with accessing the wide variety of campus services to meet their needs. Visit our web site at <http://www.etsu.edu/advisement> or call 423-439-5244.
- **University Tutoring Services** (423) 439-4758 — An academic support program that offers a variety of tutoring approaches. Group study sessions called PAL are held in Sherrod Library, Room 354. PAL sessions are offered in selected high-risk General Education core courses. University Tutoring Services also offers assistance in study skills and online course assistance, using the Blackboard program, which provides additional course material and handouts, and makes available Discussion Boards for posing questions. Visit our web site at www.etsu.edu/scs/uts.

Alumni Association — The ETSU Office of University Alumni is the campus contact for nearly 70,000 university graduates and former students. All of these individuals are members of the ETSU Alumni Association.

Alumni may participate in a variety of activities, such as regional chapter activities, constituent societies, special alumni programs, alumni student recruitment, reunions, Homecoming and various events that support ETSU.

Many alumni are chosen to participate in the popular “Alumni Return to the Classroom” program, which features alumni as “Professors for a Day” sharing their professional experiences with students during Homecoming week. Alumni also participate in the “Buc Connection” career development network or support student recruitment through the Alumni Admissions Council.

ETSU’s Alumni Association, in cooperation with the ETSU Foundation, also supports scholarships for academically outstanding students. The Office of University Alumni is located on campus in room 303 of Burgin E. Dossett Hall, phone (423) 439-4218 - www.etsu.edu/alumni/index.asp.

Appalachian Studies and Services — The Center for Appalachian Studies and Services, a Tennessee Center of Excellence, coordinates instruction, research, and public service programs that address quality of life issues in the Appalachian region. The center encompasses the Archives of Appalachia, the B. Carroll Reece Museum, the Regional Resources Institute, and supports the minor in Appalachian Studies; the Bluegrass, Old-Time, and Country Music Program; Appalachian, Scottish, and Irish Studies Program; the *Encyclopedia of Appalachia*; the Governor’s School for Tennessee Heritage; and a host of other activities. The center offers internships for qualified students. The center’s administrative offices are located at 209 Warf-Pickel Hall, phone (423) 439-7865, e-mail cass@etsu.edu, <http://www.etsu.edu/cass/>.

Banking — The Tennessee Teachers Credit Union, located in the University Bookstore, provides full-service banking for students. There is also an ATM machine in the Culp University Center.

Bookstore — The University Bookstore is located in the middle of the D.P. Culp Center. It is open fall and spring semester Monday - Thursday 7:45 a.m. to 6 p.m. and Friday 7:45 a.m. to 5 p.m. You may reach the store by phone at (423) 439-4436 - www.etsubookstore.com.

Busing System — The university has contracted with the Johnson City Transit System to offer a free shuttle service for students, faculty, staff, and visitors, linking parking lots on the perimeter of the campus with main academic and administrative buildings. Operation hours are scheduled during class periods as well as in conjunction with selected major campus events. Schedule, route, and other details are available at various locations on campus including the Office of Adult, Commuter and Transfer Services, middle level of the Culp University Center, phone (423) 439-5641 and the Student Affairs Office, phone (423) 439-4210. - www.johnsoncitytransit.org/campus.html.

Career and Internship Services — Since the university realizes that the choice of a career is a complex and yet essential task, a number of services are provided, some for those choosing a career and others to assist in obtaining a job.

Consultation with the Office of Career and Internship Services staff can help by providing: (1) job placement opportunities for full-time, part-time, and summer employment; (2) field experience-based cooperative education for academic credit; (3) an occupational and employment information library for information on career opportunities including data on specific area employers; (4) workshops and seminars on career planning, resume writing, interview techniques, and job-hunting skills; (5) computer-assisted job matching and resume design; (6) national employment trends and salary information.

The Office of Career and Internship Services is located in the ARC Center, 2nd level, D.P. Culp University Center, phone (423) 439-4450 - www.etsu.edu/careers.

Commuting Student Services — The Office of Adult, Commuter and Transfer Services provides specialized student services important to the commuting student. These services include transit information, loan of a battery pack, air compressor, and off-campus housing information. In addition, students may access the **RideShare** and **Carpool** programs by contacting A.C.T.S. at its location in the Advisement, Resources and Career Center, 2nd level, D.P. Culp University Center, phone (423) 439-5641 - www.etsu.edu/acts.

Computer Labs — ETSU provides a wide range of computer resources in support of instruction, research, administration, and public service. The administrative systems run under an Alpha cluster. The academic systems are comprised of a number of PC servers that form a Windows NT domain. This domain enables any student and machine that have accounts on the domain to access the same software and e-mail account from multiple locations around campus.

Six labs contain 157 Dell PCs, 60 wireless Dell laptops and 24 Macintosh computers. A growing software library is available in each lab, and all computers are connected to the campus network. Software currently available in the D.P. Culp Lab, Rogers-Stout 320, and Lucille Clement labs are Microsoft Windows XP, Microsoft Office XP, Microsoft Visual Studio, Net 2003, Internet Explorer, Internet-based e-mail, most Adobe and Macromedia products, SAS, SPSS, and Minitab along with McAfee virus protection software. The currently available software in Warf-Pickel 419 is Photoshop, PageMaker, Quark-XPress, and Macromedia Freehand. When not in use as classrooms, computers labs are available for walk-in use by any registered student.

The computer labs are staffed by Lab Monitors (student workers) at all times. They are supervised by a central Lab Manager. Lab Monitors help users with common problems and keep the lab secure and orderly. They are not tutors.

All students are provided with Internet access and an e-mail address that will be active for the duration of their stay at ETSU. Students are able to register for classes and even pay fees online via *Goldlink* on ETSU’s web page.

Computer Resources Code of Ethics — All users of any institutionally maintained electronic data, data files, software, and networks are expected to handle the resource in a responsible and ethical manner. A user’s interest ceases when it invades the right of personal and/or institutional privacy; results in the destruction of personal and/or institutional property; demonstrates a potential for loss, embarrassment, litigation to the individual and/or institution; or causes a limited resource to be used in a wasteful or careless manner.

All information processed through Computer Services is considered sensitive and/or confidential. The responsibility for the release or discussion of data is assigned to the official custodian of the data file(s). Access to information is based on a legitimate “need to know” and directly related to assigned duties.

University electronically maintained data, data files, software, and networks will be used for authorized purposes only. Users are responsible for the security of the resources.

Any use of the resource deemed irresponsible or unethical (as defined in the Faculty Handbook section 1.10.1) will result in the immediate denial of use of the resource. The violation will be referred to the proper authorities for disciplinary and/or legal action including, but not limited to, restitution, restriction, reprimand, suspension, probation, expulsion, termination, and, if necessary, legal action. Appeals will be handled through due process channels (APA) already established for students and/or staff. Student violations will be referred to the Vice President for Student Affairs and/or Vice President for Health Affairs; faculty violations will be referred to the Vice President for Academic Affairs and/or the Vice President for Health Affairs; and staff violations will be referred to the Vice President for Finance and Administration.

The following examples attempt to convey the intent of irresponsible and/or unethical use: violation of Federal/State copyright laws; violation of the Family Educational Rights and Privacy Act of 1974; use of the resource for obscene material; deliberate wasteful use of the resource, unauthorized altering of hardware, software, or data; piracy of data or software belonging to another person; or careless use of the resource which may result in the release of restricted information.

Computer Network and Internet Access: Privileges & Responsibilities — East Tennessee State University (ETSU) operates a wide-area network that interconnects local area networks in academic and administrative offices, student computer labs, and in the future dormitory rooms. The university maintains connections into the Tennessee Education Cooperative Network (TECnet), the Internet and the World Wide Web. Thus, the university's network is a part of the global network that provides access to information and information processing technologies. By having access to the university's network and its resources, students, faculty, and staff can communicate and collaborate among themselves and their counterparts throughout the world. This privilege carries with it responsibilities with which all users must comply.

Everyone within the ETSU community who uses networked computing and communications facilities has the responsibility to use them in an ethical, professional and legal manner, and to abide by TECnet policies. Users should respect the privacy rights of others. ETSU's facilities and network access capabilities should never be used for purposes intended to incite crime. Communications which violate Tennessee, federal, or international law are not acceptable. For example, the use of ETSU's computer and network resources to threaten or harass others or the misrepresentation of one's identity in electronic communications for the purpose of illegal or unauthorized actions or activities will not be tolerated.

These statements concerning responsibility are not meant to be exhaustive. Any questionable use should be considered "not acceptable." Serious or repeated instances of abuse will be referred to the proper authority for disciplinary or legal action.

****WARNING**** Any person who knowingly brings on campus, has in their possession or distributes any virus without the authorization and written permission of the Division of Information Resources, will be considered to be in violation of the above and will be vigorously prosecuted. ****Campus**** is defined to include any property owned, leased, maintained or controlled by ETSU and includes any site or area where any system owned, leased, operated and/or maintained by ETSU is housed.

NOTICE TO USERS: It is the policy of East Tennessee State University to protect all institutional computing resources including, but not limited to, hardware and software, consisting of the actual equipment being supplied by the university as well as the programs and related materials used in conjunction therewith. In accordance with local, state, and federal law, indiscriminate examination of individual user's files is not permitted, nonetheless as a means of maintaining the integrity and security of those aforementioned resources.

East Tennessee State University retains the right to inspect individual accounts and files stored on any system owned, maintained and/or leased by said university. While no prior authorization by individual users is required to inspect those files and accounts, the user is, by virtue of accepting the account offered by ETSU and "logging" on to its computing equipment, granting to the university prior unrestricted permission, subject to university policy, to review, examine and/or otherwise view, by any method at the sole discretion of the university and without any additional advance notice to said user, any account and/or file stored on university computer resources.

Should such a review take place, the user will be given notice, as a courtesy only, of the results of said review within a reasonable time after the review is completed. While use of university computing resources for personal use is strictly forbidden, should the user have materials for which he/she has any reasonable expectation of privacy or which the user considers to be confidential for any reason, the user should retain those materials on a disk which can be secured as would any other personal items or materials which one consider private in nature.

For such a policy to work, it is essential that users observe responsible and ethical behavior in the use of the resources. In an effort to assist the user community in effective use of the limited computer resources, it seems reasonable to highlight some specific responsibilities and types of behavior that represent abuse of a user's privilege. The examples do not constitute a complete list but are intended to convey the intent of the code.

Users should not damage or attempt to damage computer equipment or to modify or attempt to modify equipment so that it does not function as originally intended. It is equally wrong to damage or modify or attempt to damage or modify the software components: operating systems, compilers, utility routines, etc.

Users should not use or attempt to use an account without authorization from the owner of that account. Users have the responsibility of protecting their accounts through the proper use of passwords, but the fact that an account is unprotected does not imply permission for an unauthorized person to use it. Further, accounts are to be used only for the purposes for which they have been established. [Only the individual owner of an account is authorized to use that account. Providing passwords or in any way permitting or making it possible for anyone other than the authorized owner of the account to use computer resources is not authorized and may be a violation of Tennessee Law. Under this condition both the owner and the unauthorized user may be subject to legal action if determined to be appropriate by ETSU legal counsel.] Additionally, it is wrong to use a university-sponsored account for funded research, personal business, or consulting activities. There are special accounts for such purposes.

Users should not use private files without authorization. Owners of such files should take precautions and use the security mechanisms available. However, the fact that a file is not protected does not make it right for anyone to access it, unless it is specifically designed as a public access file. It is equally wrong for anyone to change or delete a file that belongs to anyone else without authorization. Violation of property rights and copyrights covering data, computer programs, and documentation is also wrong. In the event of accidental access of private files, confidentiality of those files must be maintained.

Any deliberate wasteful use of resources is irresponsible; it encroaches on others' use of facilities and deprives them of resources. Printing of large unnecessary listings and the playing of games solely for entertainment are examples of such abuse. Users are expected to be aware of the resources they are using and to make reasonable efforts to use these resources efficiently.

All state and federal copyright laws will be abided by at all times. Users must not copy any part of a copyrighted program or its documentation which would be in violation of the law or the licensing agreement without written and specific permissions of the copyright holder.

Serious or repeated instances of abuse of computer facilities and resources will be referred to the proper authorities for disciplinary or legal action including, but not limited to, restitution, restrictions, reprimand, suspension, probation, expulsion, or termination.

Computer Services — ETSU provides a wide range of computer resources in support of instruction, research, administration, and public service. The administrative systems utilize a VAX 6520 under the VMS operating system. The academic mainframe is an IBM ES/9000 model 190 with a VM operating system and utilizing the Conversational Monitoring System (CMS). A vector processor and a number of compilers and software packages are available, including SPSS, SAS, FORTRAN, and PASCAL. Student access to the academic system in support of classroom assignments is available in the microcomputer labs.

Cooperative Education and Internship Services (423) 439-5388 — This office provides students the opportunity to gain valuable "work world" experience while earning academic credit. Students may co-op/intern in their chosen major or minor. Additionally, this office assists with

resume development and Internet job access information. Visit our web site at www.etsu.edu/careers.

Counseling Center — (340 D.P. Culp University Center) provides an array of counseling and mental health service to ETSU students, including personal counseling, career counseling and assessment, educational programming, psychiatric services, and consultative services. Our staff is comprised of psychologists, an outreach coordinator, psychiatric residents, graduate assistants, and support staff. The Center is also responsible for the Campus Alcohol and Other Drug Program and the Campus Advocates Against Sexual Violence Program. We provide our career services through the Peer Career Center, located in the Advisement, Resources, and Career (ARC) Center. Counseling services are confidential and free to all ETSU students. For more information about our services, contact our main number (423) 439-4841 or contact the Peer Career Center (423) 439-8651 - www.etsu.edu/students/counsel/counsel.htm.

Developmental Studies Program — (DSP) courses are designed to strengthen academic skills in math, writing, reading, and learning strategies. The Tennessee Board of Regents mandates that all institutions offer developmental studies courses.

Assessment and Placement – Valid ACT or SAT (scores less than three years old) will be used to determine whether students will be placed in DSP courses. If ACT sub scores (comparable SAT is 460) in English, Reading, and Math are less than 19, placement will be made in required DSP courses. For students 21 years of age or older who do not have valid ACT or SAT scores, the COMPASS is required. COMPASS is the computerized instrument used to determine placement into developmental classes when a student is not submitting ACT or SAT scores.

Transfer Students – are required to test the appropriate areas of COMPASS if they are transferring to ETSU without college-level Math or English. The Reading test may also be required. Students with high school unit deficiencies may also be required to take the COMPASS test.

Placement Challenge – Placement results can be challenged once by taking the COMPASS test prior to the start of classes. A \$20 non-refundable fee will be charged for challenge testing. Students who have previously enrolled in a course and failed to complete the course may not challenge Developmental Studies Program placement.

Credit Hour Computation – Credit hours earned in DSP courses are in addition to the minimum number of hours required for graduation in any degree program. Credit hours and grade points earned in these courses are used in the computation of a student's overall grade point average (GPA), but are not computed for honors recognition or for meeting requirements for graduation.

Drop and Completion Policy – DSP courses cannot be dropped without permission from the University Advisement Center. Students must complete each DSP course in which they have been placed with a minimal grade of "C."

COMPASS Testing – To schedule to take the COMPASS test, contact the University Testing Center at (423) 439-6708 or register online at <http://www.etsu.edu/academicaffairs/testingcenter/webtestingcenter/> (Click on Register and then Register NOW.) Students are required to bring a valid photo ID. The COMPASS test is a computerized test and is not timed.

Advisement – Academic counselors in the University Advisement Center (ARC, 2nd level of the D.P. Culp Center) provide academic advisement as well as career and personal counseling for students enrolled in DSP courses. Students who require only DSP math courses are advised in their major department.

For more information about the Developmental Studies Program, contact the University Advisement Center located in the ARC, 2nd level of the D.P. Culp Center, Box 70590, (423) 439-5244.

Disability Services — In compliance with federal regulations outlined in Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, East Tennessee State University makes accommodations, course substitutions, and other academic adjustments when necessary to ensure equal access for students with disabilities. While all students with disabilities are protected from discrimination, some students may not be eligible for all of the services coordinated by Disability Services. Classroom and testing accommodations are made on an individual case-by-case basis. Students who wish may request an accommodation or academic

adjustment because of a disability by completing the intake process with Disability Services self-identity.

During the intake process, Disability Services informs students of procedures surrounding the accommodation process, student responsibilities, as well as ETSU responsibilities. Eligibility for classroom and testing accommodations and other support services coordinated by Disability Services is based on the review of student's documentation of disability. Intake applications are not complete until Disability Services has received and reviewed current documentation of disability. Individualized education plans (IEP) cannot be used as documentation; however, information included in an IEP may be helpful when identifying the services a student may utilize while at ETSU.

In order to establish eligibility, the documentation provided should follow the established guidelines and include:

- Statement of diagnosis, date of most recent evaluation, and when available, date of original diagnosis by an impartial professional,
- Description of diagnostic criteria and/or diagnostic tests used,
- Description of the current impact of the disability in an academic environment,
- Credentials of the diagnosing professional,
- Documentation of attention deficit disorders should be no more than three years old, and
- Documentation of learning disabilities should be no more than five years old with results based on an adult measurement scale.

The diagnosing professional must have specific training and expertise in a field related to the type of disability being diagnosed. For example, a psychologist, psychiatrist, or educational examiner must make a learning disability diagnosis. Documentation not including the information outlined above or from a professional whose credentials are not generally indicative of expertise in the specific disability being diagnosed can not be used to establish eligibility for services. ETSU does not provide any type of learning disabilities evaluations; however, Disability Services maintains a list of professionals in private practice that can evaluate learning disabilities.

Disability Services is located in the D.P. Culp Center, on J. L. Seehorn, Jr. Road (v/tdd) (423) 439-8346, (tdd) (423) 439-8370 - www.etsu.edu/students/disable/disable.htm.

Early Childhood Learning and Development — The Center for Early Childhood Learning and Development operates programs to serve the needs of young children and their families. Some of these programs offer child care services for families. The Infant-Toddler programs serve children ages three months to three years in a full-year, full-day program. The Early Learning Program, Child Study Center, serves children ages three through five years of age in a full-year, full-day program. Students who are interested in enrolling their children in either of the programs can obtain more information by calling (423) 439-7555. Enrollment is on a limited basis. <http://child.etsu.edu>.

A child care program, Little Buccaneers Student Child Care Center, specifically designed to meet the needs of ETSU students, opened in June 1997. ETSU students can enroll their children for blocks of time each semester that would accommodate their child care needs while attending classes and during study times. This program is supported by the Student Activities Allocation Committee and ETSU. Information for this program can be obtained by calling 439-7549.

Students majoring in early childhood education, communicative disorders, special education, nursing, social work, counseling or psychology may find it beneficial to observe in these programs. Graduate assistantships, Academic Performance Scholarships, Federal Work Study Program employment opportunities, student teaching, and practicum positions are also available.

Financial Aid — A comprehensive financial aid program has been developed to assist eligible students. Counselors are available from 8 a.m. - 4:30 p.m. Monday through Friday. This office is located in Burgin E. Dossett Hall, phone (423) 439-4300, 1-800-704-ETSU (3878), e-mail finaid@etsu.edu. For more information, please visit the financial aid office web page at <http://www.etsu.edu/finaid/>.

ID Card and Campus Debit Card (ID BUC\$) — All students must obtain an official East Tennessee State University ID Card in order to have full access to all university facilities and services. Your ID card not only provides student identification, but will also allow access to Sherrod Library

services, door access to residence halls, CPA, computer labs, and selected classrooms. Your ID card is also used to access meal plans, obtain tickets to athletic events, and to participate in student voting.

Students may also choose to create a debit account called ID BUC\$. You may use ID BUC\$ in the campus bookstore, all food service locations on campus, laundry facilities in residence halls, Student Health Clinic, University Press, Sherrod Library fees, Bursar's Office fees, and Coke and snack machines located all over campus. ID BUC\$ are also accepted at participating off-campus merchants. You may make a deposit online, by phone, or at the Campus ID Services Office.

ID cards will be issued during new student orientations or anytime after registering for classes. Please come by the ID Services Office on the 2nd level of the D.P. Culp Center for a brochure and additional information or visit our web site, which details services and the terms and conditions.

Campus ID Services Office	Regular Office Hours:
Box 70611	Monday – 8:00 a.m. – 6:00 p.m.
Johnson City, TN 37614	Thursday - Friday 8:00 a.m. – 4:30 p.m.
Phone: 423-439-8316	http://www.etsu.edu/id

Immunization Requirements — Full-time students must provide proof of receipt of the first MMR vaccine dose prior to the first day class of students' initial semester at the institution. Subsequently, universities and colleges must obtain proof of receipt of the second dose of the MMR vaccine from full-time students who are completing the MMR vaccination series as a condition of enrollment as soon as possible after the proscribed twenty-eight (28) day waiting period between doses, but no later than the beginning of the next semester. Students who attended a public or private school in Tennessee for grades kindergarten through twelve for any period of time on or after July 1, 2001, are considered exempt and do not need to provide documentation. Bring MMR documentation to Student Health Services, Room 160, Roy S. Nicks Hall or fax it to (423) 439-4560.

The State of Tennessee mandates that all students be informed about Hepatitis B infection. Those students who will be living in on-campus housing must also be informed about the risk of meningococcal meningitis infection. A waiver indicating that the student is aware of the disease risks and the availability of vaccines for the diseases of hepatitis and meningitis must be signed. The waiver can be electronically signed on *GoldLink* at the time of registration for classes. If the student is under 18 years of age, the waiver can be obtained from ETSU Student Health Services, 160 Roy S. Nicks Hall or via the web site: www.etsu.edu/studenthealth. A parental signature is required on the form if the student is underage. The law does not require hepatitis or meningitis vaccinations for enrollment at this time. The waiver must be signed to avoid delays in the registration process for classes and obtaining of grades. The paper waiver should be turned in to Student Health Services. It may be faxed to (423) 430-4560.

Information Areas — For information by phone call 0 if on campus and 439-1000 if off campus. Information via the Internet is available at www.etsu.edu.

The University Center Office on the second floor of the D.P. Culp University Center serves as a general information area from 8 a.m. to 10 p.m., Monday through Friday 10 a.m. to 10 p.m. Saturday and Sunday during the fall and spring semesters.

The Center for Adult, Commuter, and Transfer Services, located in the ARC Center on the 2nd level of the Culp University Center, has a supply of most printed material available on campus. Staff members are willing to locate the information desired, if it is not already available in the office. Hours are 8 a.m. - 4:30 p.m. Monday-Friday. Phone 0 if on campus and (423) 439-5641 if off campus.

Insurance — It is the responsibility of all students to provide hospitalization insurance for themselves if they desire to have coverage in the event of an illness or in case of injury while attending the university. For those students not having protection under a family insurance plan or for those who want additional coverage, ETSU has arranged for a special student insurance policy. Application forms and information pertaining to this insurance are available in the Student Affairs Office located on the 3rd level of the D.P. Culp Center.

International Programs and Services — The International Programs and Services Office, located on the first floor of Yoakley hall,

serves the international community of visiting international students and scholars from more than 60 countries who attend or visit ETSU. Programming, advising, immigration paperwork, community outreach and the Friendship Family Program are among the many services offered by the office. (www.etsu.edu/honors/international)

The office also coordinates study abroad and exchange programs such as the National Student Exchange (NSE) and the International Student Exchange Programs (ISEP), among others. (423) 439-7737.

Libraries — The current Sherrod Library, containing the major learning resources that support the university's program of teaching and research, opened in 1999. The collections include one-half million volumes, over one million microforms, over 12,000 periodical subscriptions (electronic and print), more than 350,000 federal and state documents and maps, audiovisual media, and the state depository collection of K-12 state-adopted textbooks. All of the materials in the collections can be found in the MILLENNIUM catalog, which is accessible from any Internet-connected computer. Over sixty computers (including 25 laptops) are distributed throughout this state-of-the-art, wireless building which has more than 1,800 seats. A study room open 24 hours a day is accessible with a student ID. (423) 439-5309 - <http://sherrod.etsu.edu>

The ETSU at Kingsport Library has a collection of over 25,000 volumes and maintains subscriptions to over 100 periodicals. (423) 392-8010

The Medical Library is located in Building 4 of the Veterans Affairs Medical Center. The library has a seating capacity of 213 and houses a collection of over 96,000 books, journals, computer databases and media which support the academic, clinical, and research programs of the College of Medicine. <http://com.etsu.edu/medlib> (423) 439-6252

Museum — A campus history project initiated in the late 1920s created a repository that ultimately emerged as the B. Carroll Reece Memorial Museum. Its initial collections were made up of art and artifacts which had been collected and housed by the Department of Art and Design and Sherrod Library. The Carroll Reece Museum was formally dedicated on October 10, 1965. It is a component of ETSU's Center for Appalachian Studies and Services and has been accredited by the American Association of Museums since 1972.

Stop by, look around, enjoy regional fine art and history exhibitions and join in on special programs such as workshops, storytelling, musical performances, and receptions. Exhibits include annual quilt exhibitions, items from the permanent collections, contemporary art, and traveling displays. The museum is at the junction of Stout Drive and Gilbreath Circle on the East Tennessee State University campus. All events and admission are free to the public. Allow one hour minimum. Gallery hours are 9 a.m. until 4 p.m., Monday-Wednesday and Thursday, 9 a.m. until 7 p.m., closed holidays and the week of December 25. Phone: (423) 439-4392. www.etsu.edu/reese

Service Programs — ETSU's commitment to service is evident through the campus mission statement and the numerous opportunities we provide students. Whether community-based and interdisciplinary education, service-learning, and/or co-curricular service opportunities, students are encouraged to expand their intellectual and social development. For more information, contact the Student Affairs Office at (423) 439-4210.

Buctainment — Comprised of students, Buctainment plans major campus events such as concerts, movies, lectures, comedy shows, and Homecoming. Students can be involved with Buctainment as a member or programmer, or by attending a show as an audience member. It is a great opportunity to learn the technical, business, and marketing side of the entertainment industry. Located in the D.P. Culp University Center, lower level, phone (423) 439-6828 or e-mail etsufun@etsu.edu.

Placement Service — Placement services are provided as part of the Office of Career and Internship Services. The office processes inquiries from business, industry, school systems, hospitals, and government and social agencies. It also assembles employment materials, checks recommendations, arranges for interviews, distributes credentials, and provides other support service to complete the employment process. The Office of Career and Internship Services is located in rooms 211-213G Campus Center Building (Building 12), phone (423) 439-4441.

Public Safety—The Public Safety Building is located at the entrance of the university on University Parkway and has personnel on duty 24 hours a day for assistance. The emergency telephone number is 911. The public safety staff is composed of 21 state-certified sworn police officers who are also trained fire fighters. Public safety is a full-service police department encompassing traffic and parking enforcement, uniformed patrol, criminal investigations, and crime prevention education. Public Safety also provides these services: an escort service, engravers, booster cables, and battery booster packs. The non-emergency telephone number is (423) 439-4480. The number for the administrative offices is (423) 439-6900.

A traffic and parking regulation brochure has been prepared to inform and to protect all who use the campus roadways and parking areas. It is available in the Public Safety Building or at window #10 on the second floor of Burgin E. Dossett Hall.

Regional Centers—ETSU at Kingsport is located on 97 acres and offers day, evening and weekend classes, including lower and upper division and graduate courses. The selection is sufficient to meet most degree requirements of the university during the first two years. The phone number is 392-8000.

ETSU at Greeneville is located in the Greeneville-Greene County Center for Higher Education building, 215 North College Street in downtown Greeneville. Selected undergraduate and graduate courses are available during the day and evening through an articulation agreement between ETSU and Walters State Community College.

ETSU at Bristol closed in 2009 due to budgetary constraints. Classes are still offered at various sites in the Bristol area. Telephone: (423) 844-6300.

The Department of Allied Health Sciences, located at the Nave Center in Elizabethton, is a multidisciplinary department offering courses of study leading to a Bachelor of Science. The Bachelor of Science degree is available in Allied Health with concentrations in Allied Health Leadership, Cardiopulmonary Science, and Radiography. The telephone number is (423) 547-4900. The department offers a Bachelor of Science degree in Dental Hygiene. The telephone number is (423) 439-4497.

Research Development Committee—The ETSU operating budget provides funds for assistance to faculty and staff members for individual research projects. These funds are administered by the Research Development Committee which evaluates applications for research grants, summer stipends, and grants-in-aid.

School of Continuing Studies—An academic service provider for the university, the School of Continuing Studies offers a variety of opportunities. The Division of Cross-Disciplinary Studies makes it possible to offer degree programs or selected courses at the work place or in local communities through Cohort Programs. The Bachelor of General Studies, Bachelor of Applied Science, Bachelor of Science in Professional Studies, and the Bachelor of Science in Interdisciplinary Studies programs serve non-traditional students who need courses off-campus, in the evening, or online. The Master of Arts in Liberal Studies and the Master of Professional Studies allow adult students to pursue interdisciplinary study in a variety of areas. A regional center in Kingsport and sites in Bristol afford students the opportunity to remain close to home and pursue a degree. Distance Education plays a central role in the university's ability to serve students in their own community, thereby saving the students time and transportation expense. Professional Development offers nationally or regionally known noncredit programs and can custom design a program for those who have a need. The federally supported TRIO Programs provide a great opportunity for low income, first generation college students, college-bound students, disabled students, or veterans.

Service-Learning—Service-Learning is a form of experimental education in which students engage in activities that address human and community needs together with structured opportunities intentionally designed to promote student learning and development. ETSU's Service-

Learning program offers students the opportunity to combine community service with an academic course. A variety of departments have service-learning courses available. Some examples of courses with a service-learning component include Spanish, History, Sociology, Criminal Justice, and Education. Separate courses: Introduction to Service-Learning (SRVL 1020) and Advanced Service-Learning (SRVL 2000) offer students a more in-depth look at community needs while providing a service placement to work on those issues. Co-curricular service-learning opportunities are available through Volunteer ETSU, Reading Tutors, and Alternative Spring Break. Contact the Office of Service-Learning in the Center for Center for Community Engagement, Learning, and Leadership, lower level of the Culp Center for more information (423) 439-5675.

Student Government Association—The Student Government Association (SGA) strives to represent the opinions of the students on every aspect of campus academic and extracurricular life. Its members work closely with students, faculty, and administration to provide advice and information and a strong voice in the governance of the university. The SGA is located near the Center for Community Engagement, Learning, and Leadership on the lower level of the D.P. Culp University Center, phone (423) 439-4253.

Student Health Services—East Tennessee State University students enjoy the benefits of a modern health care service. The Student Health Clinic is part of the College of Nursing Faculty Practice Network. Clinic Services are available to all enrolled students. The professional staff includes nurse practitioners, physicians, registered nurses, and a health educator. Services include:

- Management of acute, episodic illnesses and injuries
- Referrals for assistance in managing chronic disorders
- Immunizations
- Women's health program and assistance with family planning
- Men's health program
- Allergy clinic for those receiving allergy injections
- Patient education programs on a variety of topics

The Student Health Clinic is located in room 160 Nicks Hall. Please call (423) 439-4225 for further information.

The Dental Hygiene Clinic of the Department of Allied Health Sciences offers such comprehensive preventive therapeutic procedures as scaling and polishing teeth, pit and fissure sealants, nutritional counseling, periodontal therapy, patient education and exposing and developing radiographs. All treatment is performed, for a modest fee, by dental hygiene students under the supervision of the licensed dentist and dental hygiene faculty. Services are open to all students, university employees, and the general public. Appointments may be obtained by contacting the Dental Hygiene Clinic at 439-4514 in Lamb Hall, room 71 (Health Building).

The Speech-Language-Hearing Clinic, a component of the Department of Communicative Disorders, provides professional speech-language pathology and audiology services to students, faculty, and the general public. The service is provided by speech-language pathology and audiology graduate students under the direct supervision of licensed Speech-Language Pathologists and Audiologists. The areas of service include speech and hearing evaluation, hearing aid evaluation, and treatment of speech and hearing disorders through therapy. Intervention may be available for deficits in articulation, phonology, language, voice, and fluency. The clinic is located in Room 204 of Lamb Hall. Please call (423) 439-4355 for appointments or information.

ETSU Welcome Center—The ETSU Welcome Center is home to several office as follows:

Scholarship Office—coordinates most of the academic and need-based scholarships. The office provides information and scholarship applications for ETSU scholarships and serves as a resource for external scholarship information. www.etsu.edu/scholarships

Undergraduate Student Advisement—This office is the home of ETSU's Director of University Advisement. The office provides advisor training, coordinates the Need Help web site, and oversees the Partners in Education Program.

Campus Tours—Walking tours are conducted at 9 a.m. and 1 p.m., Monday – Friday, September through April. Summer tours are given May through July at 1 p.m., Monday through Friday. Please call Admissions at 1-800-462-3878 or (423) 439-4213 to schedule a campus tour. For a virtual visit to ETSU, try our web site at www.etsu.edu.

Roan Scholars Program—This innovative program aims to develop tomorrow's leaders by providing a select number of exceptional students with unique, carefully designed leadership opportunities and learning experiences on the campus of ETSU and beyond. Program Office Location: Panhellenic Hall, Room 212; Address: ETSU Box 70304 Johnson City, TN 37614; Phone: 423-439-7677; Fax: 423-439-6040. Program Director: Kristina Bullock E-mail: bullockk@etsu.edu

University Center, D.P. Culp—The D.P. Culp University Center is a modern architecturally designed student center conveniently located in the heart of campus. The specific purpose of the Culp Center is to serve students as an integral part of their educational life. The Culp University Center provides a wide variety of services, entertainment, and social activities for the campus community.

The Culp University Center houses five separate food service areas, the bookstore, the post office, a mini-market, a computer lab, a variety of administrative offices, meeting rooms and conference facilities, a ballroom, and an auditorium/theater. For information regarding the use and reservation of these facilities, contact the Culp University Center office at (423) 439-4286.

Among the administrative offices housed within the building are the Counseling Center, Career and Internship Services, Vice President for Student Affairs, Student Support Services, Upward Bound, Food Services, Center for Adult, Commuter, and Transfer Services (ACTS), Campus ID System Offices, Advisement and Career Resources Center and the University Center.

Veterans' Affairs – Coordinates the delivery of military-related educational benefits of the United States Department of Veterans Affairs (USDVA), to eligible service members, veterans' and certain disabled veterans' dependents.

Benefit Programs

Primary entitlement programs administered by the Veterans' Affairs office:

- Montgomery GI Bill – Active Duty (MGIB-AD) Educational Assistance Program [Authority: Chapter 30, Title 38 *United States Code (USC)*];
- Vocational Rehabilitation & Employment (VR&E) Program [Authority: Chapter 31, Title 38 *USC*];
- Reserve Educational Assistance Program (REAP) [Authority: Chapter 1607, Title 10 *USC*];
- Montgomery GI Bill – Selected Reserve (MGIB-SR) Educational Assistance Program [Authority: Chapter 1606, Title 10 *USC*];
- Survivors' & Dependents' Educational Assistance (DEA) Program [Authority: Chapter 35, Title 38 *USC*];
- Veterans' Work-Study Allowance Program [Authority: Chapters 30, 31, 35 of Title 38 & Chapters 1606 & 1607 of Title 10 *USC*];
- Veterans' Tuition & Fee Deferment Program [Authority: § 49-7-104 *Tennessee Code Annotated (TCA)*]

Information on the above federal programs, except VR&E and state programs, may be found at www.gibill.va.gov. VR&E information can be found at www.vba.va.gov/bln/vre/.

Points of Contact - The Veterans' Affairs office on campus provides information, forms and general assistance to those applying for the above education benefit programs. Official decisions on eligibility are made by the appropriate government office and not the Veterans' Affairs office.

Questions regarding USDVA applications/benefit payments status (except VR&E) should be directed to:

Central Region Processing Office
United States Department of Veterans Affairs
Post Office Box 66830
Secure e-mail: <https://www.gibill2.va.gov>
Saint Louis, Missouri 63166-6830
888.GI.BILL.1 (442.4551)

VR&E beneficiaries should contact:
Christi Hellard, Counselor/Case Manager
Vocational Rehabilitation & Employment
United States Department of Veterans Affairs
E-mail: christi.hellard2@va.gov
412 North Cedar Bluff Road, Suite 416
Voice: 865.692.0711 Fax: 865.692.0712
Knoxville, Tennessee 37923-3605

Benefit Program Applications

Applicants for the MGIB-AD and REAP programs must provide a copy of their most recent *Certificate of Release or Discharge from Active Duty* [Department of Defense (DD) Form 214]. For MGIB-AD applicants, if claiming entitlement to the "buy-up" program, provide a copy of the election form and evidence of the increased benefit contribution. New applicants for the MGIB-SR will need to provide a copy of their *Selected Reserve Educational Assistance Program Notice of Basic Eligibility* (DD Form 2384) available from their unit. If applying for the MGIB-AD, REAP or MGIB-SR and entitled to a college fund/"kicker" then supporting documentation should also be provided. New VR&E and DEA applicants should provide a copy of the disabled veterans' "Disability Rating Decision." Additionally, DEA applicants should provide a copy of their birth certificate to submit along with their application. Adoption orders and parents' marriage license/certificate should be included if the dependent was legally adopted by the veteran. In response to a completed application, the USDVA will issue a "Certificate of Eligibility," a copy of which should be provided to Veterans' Affairs. If a beneficiary previously used benefits elsewhere, a change in program or place of training form must be completed.

Policies & Procedures

1. As soon as students are enrolled for classes, they should contact Veterans' Affairs each semester to request a certification of enrollment to the USDVA Regional Processing Office (RPO). Only required courses in the student's officially declared academic program may be certified. RPO processing of enrollment certifications of the school can vary but generally require 45-60 days so students should plan accordingly for their personal finances.
2. Students must keep Veterans' Affairs informed of all change(s) in enrollment so that timely reports can be made to the USDVA RPO.
3. Beneficiaries must attend classes and demonstrate satisfactory conduct and effort toward meeting the course requirements. Failure to maintain satisfactory attendance and conduct may result in retroactive adjustments in certified training time that will likely result in an overpayment of benefits that will be collected by the USDVA.
4. Monthly self-verifications of enrollment can be accomplished securely online at <https://www.gibill.va.gov/wave/> or toll-free at 877.823.2378. Interval payments (benefit payments for the time between terms) are also automatic when a beneficiary stays continuously enrolled. Retroactive payments occur only when the RPO processes an enrollment certification for a subsequent term.
5. A student needs only to remain in good academic standing with the institution for continued receipt of benefits.
6. A course for which a student receives an "Incomplete" must be graded within one year or the beneficiary will be subject to a retroactive adjustment in the semester's training time likely resulting in an overpayment and recovery of benefits.

7. Pre-professional declarations (e.g., Pre-Med, Pre-Law, etc.) as the student's major and/or enrolling in courses to meet prerequisites for professional study are not approved objectives currently approved by the USDVA.
8. Military registry transcripts are required of all beneficiaries in undergraduate studies who have military service (see separate topic on how to request military registry transcripts). For credit-by-examination policy (e.g., CLEP, DSST, etc.), students should consult the "Non-Traditional Credit" pamphlet available from Undergraduate Admissions.
9. Beneficiaries are expected to regularly consult with their academic advisor and to refer to their respective catalog of admission on academic requirements, policies and procedures. Moreover, students are expected to clearly identify their degree, major (including concentrations, emphasis, tracks, etc.) and minor, as required.
10. All changes to a student's academic program (except VR&E) must be reported to Veterans' Affairs office for the completion of the appropriate forms and USDVA reporting. The academic program on file with Veterans' Affairs must agree with what is declared with the university. VR&E beneficiaries must coordinate any changes in their academic program with their case manager who must approve a program change. Failure to report or coordinate changes of academic programs will likely result in delayed receipt of benefit payments.

Veterans Tuition & Fee Deferments

Beneficiaries who pay in-state tuition and fees, have remaining benefit entitlement, and such entitlement does not expire within the semester may request additional time in payment of tuition and fees under state law. Approval is contingent upon a beneficiary demonstrating benefits eligibility with sufficient entitlement to cover tuition and fees and no indebtedness to the USDVA. If a continuing student or one previously enrolled and utilized a veterans tuition and fee deferment, the student must have timely paid in full deferred tuition and fees to remain eligible for the deferment. Students who do not follow the conditions of a deferment will forfeit their eligibility for deferments in all future enrollments.

Military Registry Transcripts

New and transfer undergraduate student beneficiaries with military service must ensure an official military registry transcript is sent to Veterans' Affairs and Undergraduate Admissions offices. University policy permits the award of academic credit only for formal military training and not skill levels attained/occupational experience. Army training with academic credit award recommendations is documented in an *Army-American Council on Education Registry Transcript System* (AARTS) transcript (further information available at <http://aarts.army.mil/order.htm>). Navy and Marine Corps training is contained in a *Sailor-Marine American Council on Education Registry Transcript* (SMART) (for further information or to order online go to <https://smart.navy.mil/smart/welcome.do>). Air Force veterans must submit an official transcript from the *Community College of the Air Force* (CCAF) (for further information or to make online requests go to <http://www.maxwell.af.mil/au/ccaf/transcripts.asp>). Students with formal Coast Guard training should submit an official copy of their *Coast Guard Institute* transcript, if available (request form available at http://www.uscg.mil/hq/cgi/Institute_Forms/1564.pdf). All forms to request transcripts are also available in the Veterans' Affairs office.

Veterans Work-Study Allowance Program

Veteran work-study opportunities are available locally to beneficiaries with sufficient remaining benefit entitlement and enrolled in school at least three-quarter time. Interested students should contact the Human Resources (Building 20) office at the James H. Quillen Veterans Affairs Medical Center (VAMC) at Mountain Home. The VAMC Veterans Work-Study Coordinator may be contacted at 423.926.1171, extension 7183.

Military Mobilizations

A student may withdraw at any time during the semester for active military service and the student's academic record will be annotated as a withdrawal for military reasons. A copy of official military orders or other official supporting documentation must be submitted for review in advance of

withdrawing. Depending on the nature/authority of the call to active duty, payments under certain federal benefit programs may be kept and entitlement used during the interrupted term restored to the beneficiary's entitlement. Tuition and fees may also be refunded under certain instances of active military duty. Students receiving financial aid should check with the Financial Aid Office for the handling of Title IV funds awarded. Students should contact any student loan lenders and inform them of their military status to avoid entering student loan repayment status and other possible adverse collection actions while serving on active duty.

Veterans' Affairs is located in 101A Burgin E. Dossett Hall and is open from 8:00 a.m. to 4:30 p.m. weekdays. The office can be reached at 423.439.6819 or va@etsu.edu.

- **Volunteer ETSU** — Volunteer ETSU is a student-organized community service resource center that promotes, organizes, and supports a variety of public service opportunities for the campus community. It continues a long tradition of service to the community by students, faculty, staff, and alumni of East Tennessee State University.

Named the 417th Point of Light by the Office of the President of the United States, Volunteer ETSU promotes volunteerism and coordinates the major service projects and activities for students, encouraging thoughtful experiences in service, and challenging participants to actively address the problems we face as a society.

For more information or to become involved in Volunteer ETSU or any of its numerous projects, call 439-4254 or e-mail at vetsu@etsu.edu. Volunteer ETSU is located inside the Center for Community Engagement, Learning, and Leadership, lower level of the D.P. Culp University Center.

Housing and Residence Life

Student housing is an integral part of ETSU campus life. On-campus living is attractive, affordable, safe, and convenient and offers many educational opportunities for students. Resident students have increased access to the library; computer labs; extracurricular activities; intercollegiate athletics; health facilities; intramural and recreation programs; other students; lectures; concerts; other campus facilities; services; and programs.

On-campus living offers many ways for residents to experience individual growth and development. Residents have the opportunity to participate in academic and leadership experiences such as: The First Year Program; Leadership House; Residence Hall Association; International Living-National Residence Hall Honorary; Residence Hall Judicial Board; and many residence staff positions. Residents are involved at every level of the housing process.

Residence halls/apartments are centrally located and provide an environment for living and learning. University housing includes residence halls/apartments for single students and apartments for family housing. All residence halls have rooms furnished with twin-size beds; desk; chairs; closets; mini-blinds; and telephone and cable TV hookup. Some halls have carpeted hallways; laundry; kitchen and vending facilities; and adjacent parking. All rooms/apartments are wired for data access. Smoking is prohibited in all campus buildings, including the residence halls and apartments. Private rooms/apartments are available on a first-come, first-served basis.

Trained residence hall staff is available in each hall to assist with the total operation of the hall; enforce rules and regulations; provide programs and activities; advise, counsel and refer students; assist in emergencies; and other assigned duties. The university has adopted lifestyle options and visitation plans which are voted on by each hall at the beginning of each school year. Guests of the opposite sex may be entertained in individual rooms only during those specified visitation hours.

Family/Graduate Housing - Buccaneer Village — A limited number of apartments are available for married or single parents or single graduate students. These include one- and two-bedroom apartments for married or single parents, and a limited number of private efficiency apartments for graduate students. Applications for these apartments require a \$150 deposit. Rent is payable by the semester and includes water, electricity, telephone (except for long distance calls), data access, and cable TV hookup.

Buccaneer Ridge Apartments — Sophomores and above enjoy two- and four-single occupancy bedroom apartment units. Each apartment contains a furnished living area, single bedrooms with double bed, closet, desk, and chest of drawers; kitchen facilities, including full-sized refrigerator, stove, microwave, and garbage disposal; washer and dryer; patio or balcony; and two bathrooms. Each bedroom is provided with an alarm system; telephone, cable TV, and data jack; and individual locks.

Residents enjoy a clubhouse with copier and fax availability; lounging pool; volleyball and basketball courts; and individual leases with no connection fees.

Application Procedure — An application may be obtained by contacting the Department of Housing and Residence Life at the address below or printed from the housing web site. Early application, preferably before April 1, for fall semester and October 1 for spring semester is encouraged. Assignments for fall semester begin in April and mid-December for spring.

A completed application and a \$100/\$150 reservation/damage deposit is required and accepted at any time. Room/hall assignments are made according to the date of the application and deposit and availability. On-campus students are able to retain their current room or sign for another hall and/or room each semester.

For housing costs, please see “Housing Fees” in the section entitled “Expenses.”

The Department of Housing and Residence Life is located in room 108, Burgin E. Dossett Hall. The mailing address is:

East Tennessee State University
P.O. Box 70723
Johnson City, TN 37614-1710
Telephone (423) 439-4446
Fax: (423) 439-4690
e-mail: housing@etsu.edu
website: www.etsu.edu/students/housing/

Campus Recreation

The Department of Campus Recreation, a unit in the Division of Student Affairs, provides a wide range of physical activities and recreational sports for the entire ETSU community. Five types of programs are offered: fitness, intramural sports, non-credit instruction, outdoor adventure, and sports clubs.

All programs operate out of the Basler Center for Physical Activity, a “state-of-the-art” indoor and outdoor complex designed for the exclusive recreational use of the ETSU student body and current employees. The “CPA” was built and operates with student fee dollars. Indoor spaces include: basketball/soccer/volleyball courts, climbing wall, group exercise/martial arts studio, pool, racquetball/squash courts, and weight-rooms (huge weight-room). There is also a casual care service, equipment room, locker room, and personal training suite. Directly adjacent to the CPA is the Basler Challenge course with its towers, walls, and low elements. Also located beside the building are two lighted ballfields that can accommodate a range of team sports. The project’s intent will improve the connection students have to ETSU and give them a more complete collegiate experience.

Fitness programs are the most popular types of recreational activity on any college campus. The CPA boasts a 15,000-square-foot weight-room with cardiovascular stations, free weights, and weight machines. Aerobic/group exercise classes are scheduled daily in the CPA’s aerobics/martial arts studio. There is also a personal training service with fitness testing, exercise prescription, and supervised workouts. Lap swimming will be scheduled three times daily during the week. Aqua aerobics classes are scheduled as well.

Varieties of team and individual intramural sports are scheduled each semester. Traditional fall team sports are flag football and volleyball. Spring team sports are basketball and softball. The four major leagues play four game regular seasons plus playoffs and contest Men’s A, Men’s B, Women’s, and Co-Rec divisions. Each year’s individual sports includes two road races and a golf tournament in the fall, and a bench press contest, racquetball, and tennis in the spring. Campus Recreation is also very involved in Homecoming in the fall.

Non-credit instruction classes provide ETSU students with the opportunity to learn new physical activities and recreational sports from qualified instructors. The unit has offered karate, kayaking, rock climbing, and swim lessons and intends to expand into racquet sports, SCUBA, and self-defense in the near future.

The Basler Challenge Course is the centerpiece of the university’s outdoor-adventure program. The course includes an Alpine Tower, Carolina Straight Wall, and 12 low elements. Campus Recreation stages leadership and team building seminars for academic departments and student groups. For more information or to schedule a seminar, call 439-4266. There are also times for individual students to challenge the tower and climb. All gear is provided. Backpacks, sleeping bags, and tents can be rented from room 230, Brooks Gym. The department stages skydiving, paintball, skiing, and whitewater rafting most years.

Student leadership and volunteerism in an athletic environment are the focus of sports clubs programs. Individual clubs promote competition, instruction, and social interaction. To learn about currently functioning clubs, or to establish a new one, contact the Campus Recreation Office.

Campus Recreation is one of ETSU’s largest employees of student labor. The unit participates in all of the university’s work programs - APS, FWSP, RSWP, and temporary support. Graduate assistant positions are also available.

Preference is given to students majoring in exercise science or sports management, but any ETSU student would find Campus Recreation to be a challenging, rewarding, user-friendly environment. Studies have indicated that students who are employed on campus persist to graduation better than those who work off campus or do not work at all. Please inquire early in the semester about possible employment opportunities.

There are two options for spouse and dependent use of the CPA. Spouse and dependent memberships may be purchased at the equipment room. Such memberships are available only to the immediate family members of currently enrolled students and currently employed faculty and staff members. Pricing was established based on the \$70 student fee increase and other university fee structures and the market value of commercial fitness and recreation centers in the Tri-Cities. Dependents 17 and under must be accompanied by a parent at all times in the CPA. Memberships for dependents 18-21 may also be purchased and those adult users will be issued a picture ID. Access will not be made available to dependents 22 and over. A Saturday morning family program will be held weekly from 9 a.m. - 11 a.m. free of charge. Families will be able to use the pool, climbing wall, and gyms. There will also be instructional programs and special events scheduled on a regular basis. Children must be accompanied by their parents at all times and proper ETSU ID will be required for admission.

Participation in any type of positive activity is an important part of the collegiate experience. However, there are risks involved in any and all sports. Persons injured while participating in recreational activities are responsible for their own medical expenses. ETSU does not carry any type of blanket insurance coverage. The Department of Campus Recreation takes a wide range of precautions to protect its participants, but everyone is encouraged to purchase some type of comprehensive insurance protection.

It is the goal of the Department of Campus Recreation to provide a comprehensive service schedule of events, programs, and services for the entire ETSU community. The program is all-inclusive and previous athletic experience or skill is not a prerequisite for participation. For more information, call 439-7980 or come by the department office in the Basler Center for Physical Activity.

Intercollegiate Athletics

The university is a member of the Atlantic Sun Conference and the National Collegiate Athletic Association (NCAA). Eligibility of students to participate is determined by rules established by these organizations and by the university. Teams in basketball, baseball, golf, cross country, indoor and outdoor track, tennis, volleyball, soccer, and softball represents the university in intercollegiate competition. The department also sponsors a cheerleading team. The Department of Intercollegiate Athletics is located in Memorial Center, room 325W, phone 423/439-4343 or <http://www.etsubucs.com>.

ACADEMIC REGULATIONS

Classification of Courses by Level

All courses in the 1000 series are freshman courses, all in the 2000 series are sophomore courses, all in the 3000 series are junior courses, and all in the 4000 series are senior courses. All 4xx7 courses are for undergraduate credit, but may include students who are taking the class for graduate credit under a 5xx7 number. Graduate students shall be required to do specified work over and above that required of undergraduate students in these courses. All in the 5000, 6000, and 7000 series are graduate courses.

Undergraduate students may not enroll in courses numbered higher than one year above their current classification. For example, a sophomore may enroll for junior courses, but may not enroll for senior courses. This policy does not apply in the College of Business and Technology, where 3000 and 4000 level courses are open only to juniors and seniors who have completed the appropriate course prerequisites. Enrollment in the 5000, 6000, and 7000 series is limited to graduate students. At least 70 percent of all courses taken in a master's program must be in the 5000 series; at least one-half of all courses taken on the doctoral level must be in the 6000 and 7000 series.

Courses numbered below 1000 are offered through the Division of Developmental Studies and are not credited toward the degree.

Major, Area Concentration, and Minor

A "major" is the curriculum for a particular field of study a student wishes to pursue in earning a degree. The minimum number of credits for a major is 24, but the total varies according to the area. An "area" concentration" is a specialized area of study within a major. Most majors require a "minor." A minor is a secondary area of study outside of the major program of study with a structured curriculum composed of at least 18 semester credit hours of which at least 9 hours must be at the 3000-level or above. Students should consult this catalog to determine the major and minor requirements for specific areas of study. They should meet regularly with an academic advisor in the major to select courses needed to complete a degree. Students should also meet with an advisor in their chosen minor department to ensure that the correct courses are chosen to complete the minor.

Declaring a Major

Undergraduate students must declare a major no later than the first term after they complete 60 semester credit hours. Transfer students who transfer more than 60 semester credit hours must declare a major by the end of their first semester at ETSU. This policy also applies to students in preprofessional programs. Students seeking a second bachelor's degree must declare a major at the time of application.

Grades

ETSU assigns numerical values to letter grades to permit calculation of grade point averages. A four-point system is used, which includes plus/minus grading.

GRADE	GRADE POINTS
A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C	2.0
C-	1.7*
D+	1.3*
D	1.0*
F	0.0
FN (failure for non-attendance)	0.0

* Developmental Studies, freshman English composition courses, and Graduate Studies do not assign these grades.

How to Compute a Grade Point Average

The grade point average (GPA) is computed as follows:

- Step 1. Grade Points earned in a course x Course credit hours = Grade points for course
- Step 2. Sum of grade points for all graded courses = Total grade points
- Step 3. Total grade points divided by all credit hours attempted = GPA

Example:

Course	Grade	Credit Hours	Grade Points	Grade Points for Course
ENGL 1010	B	3 x	3	= 9
CHEM 1030	A	4 x	4	= 16
HIST 2010	C	3 x	2	= 6
MATH 1530	C	3 x	2	= 6
CSCI 1100	A	3 x	4	= 12
Total		16		49

49 divided by 16 = 3.06

Grades that do not influence Grade Point Average:

- P - Pass:** Grade points are not assigned; credit hours are earned.
- Cr - Credit:** Grade points are not assigned; credit hours are earned. (Used to record credit established by nontraditional means.)
- I - Incomplete:** Indicates a passing grade at the end of a semester, but an important part of course was not completed (e.g., term paper, exam).
- Au - Audit:** Credit hours are not earned.
- W - Withdrawal:** (See Adding and Dropping Courses and Withdrawing from the university.)
- WF - Withdrawal Failing:** (see Adding and Dropping Courses and Withdrawing from the university.)

Grade Appeal Process

A student may appeal a course grade if the student has evidence that the grade was assigned in a malicious, capricious, erroneous, or arbitrary manner. Students may obtain grade appeal forms from the school or college deans, the Vice President for Academic Affairs, or the Vice President for Health Affairs. The grade appeal process is outlined in *Spectrum* (the ETSU student handbook), which is available online at <http://www.etsu.edu/students/spectrum/pfp.htm>. Students wishing to appeal a grade must begin the process within 21 days after the beginning of the next term, excluding summer school.

Grade Reports

ETSU provides grades to registered students online via *GoldLink*. Academic departments retain grade documentation for a period of one year. Student concerns regarding academic records will only be addressed within one academic year from the date when the grades in question were posted.

Pass/Fail Grading

The pass/fail (P/F) grading option allows qualified undergraduate students to explore, in a limited manner, their interests and abilities by receiving a pass or fail grade instead of a regular letter grade in a course. This section describes the P/F grading option available to individual students. The regulations cited here do not apply to the use of non-letter grades in entire courses.

Dean's List

To qualify for the Dean's List an undergraduate student must meet the following criteria for the term:

1. Earn no grade below 'C' in any course taken that term.
2. Pass a minimum of 12 credits (excluding audits, incompletes, repeats, pass/fail, and Developmental Studies courses).
3. Achieve a minimum GPA of 3.7000 for the term in applicable courses.

Student Qualifications: Undergraduate students pursuing degrees must have a minimum GPA of 2.5 to take a course on a P/F basis. All ETSU credits plus any credits earned elsewhere and accepted by ETSU for transfer are counted when calculating the GPA for this purpose. There is no GPA requirement for undergraduate students not pursuing degrees. However, if a student later decides to pursue a degree, the GPA requirement then applies.

Courses Excluded and Included: Undergraduate students pursuing degrees may not take general education core courses or courses in the major or minor on a P/F basis. If a student changes majors or minors and a completed P/F course is then in the new major or minor, the student may petition the dean of the college or school offering the newly declared

major or minor to have the original letter grade earned substituted for the previously earned P/F grade.

Undergraduate students not pursuing degrees may take any course P/F, to a maximum of 12 semester credit hours. However, courses taken at ETSU and graded P/F which are then brought into a degree program at ETSU are subject to the regulations governing students pursuing a degree.

Registration Process: Undergraduate students pursuing degrees or not pursuing degrees must request the P/F grading option at the time of registration. Students may register for no more than one P/F course in a semester. Registration for the P/F option in a course must be approved by the student's department or college advisor, who must sign the drop/add form to certify review of qualifications and other applicable limitations.

Students may not request the P/F option for a course that is added after the first week of classes. The regular letter option cannot be changed to P/F, nor can the P/F grading be changed to regular grading after the first five days of the semester.

The instructor will not know the identity of students enrolled on a P/F basis and will record letter grades for all students, which the Office of the Registrar will convert to P/F. P/F courses may be repeated for regular letter grades.

Credit Hour Regulations: Undergraduate students pursuing degrees may count no more than 12 credit hours earned on a P/F basis at ETSU toward graduation. Courses with P/F grades cannot be applied toward a major or minor.

P/F graded courses will be counted as degree credit hours earned. Failing grades (F) are computed in the student's GPA. Pass grades (P) are not computed in the GPA. P/F grades awarded for departmental challenge exams or other advanced standing examinations are not counted as credit hours earned.

Plagiarism Policy

Henry Campbell Black defines plagiarism as "The act of appropriating the literary composition of another, or parts of passages of his writing, or the ideas or language of the same, and passing them off as the product of one's own mind" (*Black's Law Dictionary*, West Publishing Company, St. Paul, Minnesota, 1968, p. 1308). In other words, plagiarism involves using someone else's words or ideas without giving proper credit to the original author. Even if one does not copy the words exactly or even if one copies only a small part of someone else's work, one must cite the name of the original author and provide a reference to that person's work (e.g., title of work, year of publication, and name of publisher) using a format based on the publication manual of a nationally recognized scholarly association, such as the American Psychological Association or the Modern Language Association. One should enclose an exact quotation in quotation marks or indent the quotation, depending upon the style manual used. A page number or numbers must be cited for each quoted passage. Even if one does not use an author's exact words, if one uses an author's ideas one must provide documentation to give credit to the author. These standards apply to print and nonprint media and include the Internet.

Credit by Correspondence or Extension

Credit earned by correspondence or extension from a regionally accredited institution may be accepted toward the completion of a degree at ETSU, provided that the total hours earned by correspondence or extension or a combination of the two does not exceed one-fourth of the hours required for the degree.

Student Classification

Freshman (FR)	0 - 29.9	semester hours earned
Sophomore (SO)	30.0 - 59.9	semester hours earned
Junior (JR)	60.0 - 89.9	semester hours earned
Senior (SR)	90.0 and up	semester hours earned

Master's Candidate (MS): A student who has been formally accepted to graduate school for the purpose of pursuing a master's degree.

Specialist in Education Candidate (SED): A student who has been formally admitted to graduate school and the college of education for the purpose of pursuing a specialist degree.

Doctoral Student, Early Stage (DE): A student formally admitted to a doctoral graduate program of study whose major academic endeavor consists of formal coursework directed toward fulfilling requirements for a doctorate.

Doctoral Candidate, Late Stage (DL): A doctoral graduate student who has passed the doctoral qualifying examination and whose principal academic endeavor consists of work toward completion of the doctoral dissertation.

Postdoctoral Student (PD): A student who has an awarded doctoral degree and is engaged in advanced academic study or specialty training beyond the doctoral degree.

Visiting Graduate Student (SPG): A formally enrolled graduate student, from another institution, whose coursework will be transferred back to the student's home institution.

Graduate Non-Degree: A post-baccalaureate student who is not pursuing a graduate degree, is not a post-doctoral student, and is enrolled in graduate courses.

Undergraduate Special Student (SPU): A student who is not working toward a degree and is enrolled in undergraduate courses.

Visiting Undergraduate Student (SPU): An undergraduate student who is taking work to transfer to another school.

Class Load

Fall and Spring Semesters

Standard Load - To be able to graduate in the traditional four-year time frame, students should plan to take a course load of 15-17 hours per semester. The **minimum** course load for full-time enrollment is 12 semester hours. The **maximum** course load is 19 semester hours, unless permission for an overload is approved.

Overload - The academic advisor and the dean of the student's college or school must approve registration for an overload. Following completion of 45 semester hours, students with a cumulative 3.0 GPA may be approved for a load of up to 21 semester hours. Graduating seniors who do not have grade point average deficiencies may be approved to enroll for up to 21 semester hours in order to complete graduation requirements during that semester.

Audit enrollment is used in determining class loads

Probationary Load - Any student on academic probation at the time of registration may not enroll for more than 13 hours, including audits, except by approval of the student's advisor and college/school dean.

Summer Term

The maximum course load for the entire summer term is 17 hours, which is apportioned to each summer session as follows:

Pre-Summer:	Three (3) credit hours
First five-week session (Term 1):	Seven (7) credit hours
Second five-week session (Term 2):	Seven (7) credit hours

Overloads in summer term, up to a maximum of 21 semester hours, must be approved by the academic advisor and the college/school dean.

Exceptions

Exceptions to the class load policy require approval of the academic advisor, the college/school dean, and the Vice President for Academic Affairs (or designee).

Class Attendance Policy

It is expected that students will attend class regularly and provide the faculty with a reason for any absence. *Failure to attend class regularly can affect students' grades and financial aid.* East Tennessee State University does not specify a fixed number of class absences as university-wide policy, but each department within the university has the right to set a maximum number of absences (including absences due to university activities and illnesses) permitted during an academic term. Departmental class absence policy is subject to approval by the dean of the school/college. At the beginning of the course each faculty member must provide a written statement governing attendance policy (including laboratory/clinical sessions where applicable) for the course so that all students may be fully informed of their attendance responsibilities, including penalties that may be imposed for failing to meet these responsibilities. If a student is not in attendance during the class meeting in which the class attendance policy is discussed it is the student's responsibility to ascertain the policy in that class.

Absences Occasioned by University-Sponsored Activities: University-sponsored activities include those sponsored by a university department or by a student organization officially recognized by the university. Course instructors must excuse absences occasioned by university-sponsored activities as long as the number of absences does not exceed the

number prescribed in an established and previously announced departmental policy and the instructor has been informed in advance of the intended absence. An excused absence means only that students must be allowed a reasonable opportunity to complete all assignments and tests missed because of the excused absence. It is the responsibility of the student and of the faculty or staff sponsor of the activity to inform the course instructor of the upcoming absence. This information should be provided by giving a Class Absence Authorization Form to the instructor. Class Absence Authorization Forms can be obtained from the Office of Student Affairs. However, it is not necessary to obtain permission for absences from the Office of Student Affairs, nor does the office inform instructors of expected absences.

Absences Due to Emergency, Special Circumstances, or Illness: In case of an emergency (e.g., death in the family or illness) absence from class may be excused, and the student allowed reasonable opportunity to complete all assignments and tests missed. In such cases it is the responsibility of the student to explain the situation to the faculty member as soon as possible. The faculty member may require verification of the emergency situation or illness from the student. Students confined at home or in a hospital for an extended period of time should notify instructors from whose classes they will be absent so that arrangements can be made for completion of assignments, if feasible. The number of such absences may not exceed stated policy for the class, and the student must make arrangements to complete missed assignments.

Appeal of the Faculty Member's Decision: If a student has evidence that an instructor has not excused an absence that should have been excused within the guidelines stated here, the student may appeal the instructor's decision to the chairperson of the department and/or dean of the college or school in which the course is offered.

Repeating a Course

The following regulations apply to repeating courses:

1. A course in which an undergraduate student has an 'A', 'B', or 'I' grade may not be repeated.
2. If a course in which the student has a 'C', 'D', or 'F' grade is repeated, only the most recent attempt (excluding 'I', 'W', or 'WF' grades) will be used in calculating the grade point average. However, all grades earned in the third and subsequent attempts will be used in calculating the summary line (grade point average).

Note: All courses attempted count in hours attempted and all attempts will continue to show on the record.

Incomplete Grades

The incomplete grade indicates that a student was passing the course at the end of the semester, but due to circumstances beyond the student's control, was unable to complete a course requirement such as a term paper, outside reading assignment, projects, or an examination. It also indicates that the student received consent from the instructor to complete the work for which an 'I' grade was given. The 'I' grade is not to be used to allow a student to do additional work to raise a deficient grade and the student may not repeat a course in which they have an 'I' grade.

Following consultation with the student, the instructor will determine the date by which the incomplete shall be removed, but in no case will the date exceed one calendar year or the time of graduation, whichever is earlier. After this period, the incomplete grade becomes an 'F' and is recorded on the student's academic record. Incomplete grades are not removed until the new grade is recorded in the Office of the Registrar.

Auditing a Course

Students are permitted to enroll in regular university courses as auditors. Registration fees are the same for audit as for credit. Audit enrollment will not be considered part of the 12-hour minimum required for a full-time load but will be counted in determining overloads. Regular attendance is required. Unsatisfactory class attendance may result in being administratively dropped from the course.

After the published "Last Day to Add a Course" students may not change their enrollment status in a course from credit to audit or from audit to credit.

Adding and Dropping Courses

Adding a Course: A course(s) may be added during the late registration/late add period without special permission, unless the course has reached the established maximum enrollment. To add any class that has reached the enrollment limit requires permission of the instructor and department chair. After the late registration/late add period, special permission must be obtained from the instructor, the department chair, the dean, and the registrar.

Dropping a Course: A course(s) may be dropped during the first eight calendar weeks of a regular semester. Courses dropped during the first two weeks will not appear on the student's permanent record. Students who drop a course after the second full week of classes through the eighth calendar week will receive the grade of 'W' (During the summer session, or when courses do not conform to established term dates, this schedule is adjusted appropriately to fit the condensed time frames.)

Developmental Studies courses cannot be dropped without written permission from the University Advisement Center located on the second level of the D. P. Culp Center.

After the eighth week, a student may not drop a course except where verifiable, extenuating circumstances can be demonstrated. Verifiable extenuating circumstances are reasons beyond the control of the student, such as illness or accidental injury. Poor performance in a class is not an extenuating circumstance.

Students seeking permission for late drops must present a petition to the dean of the college or school in which they are majoring as of the beginning of the semester. Students whose majors are undecided must apply to the Office of Undergraduate Student Advisement located in the D.P. Culp University Center. If a late drop is approved, the student will receive a grade of 'W' (Withdrawn) or 'WF' (Withdrawn-Failing), as assigned by the instructor of the course.

When doing any scheduling transaction using GoldLink (example: dropping, adding, withdrawing) it is the student's responsibility to verify that transaction by checking the status on the student detail schedule on GoldLink-Online. This will ensure that the action has been completed successfully. The student is responsible for confirming that the drop or withdrawal was received and correctly processed using GoldLink. Students stating they "attempted" to drop or withdraw by GoldLink but the transaction was not completed will not be permitted consideration of a late drop or withdrawal. Students are responsible for verifying all scheduling transactions whether completed on Goldlink, in person or those approved by dean or designees

Withdrawing from the University

Students may withdraw from all classes through the published last day to withdraw for a term. Students withdrawing from the university during the first two weeks of classes will not have those courses appear on their permanent record. Withdrawals from the university from the beginning of the third week through the end of the eighth week will be recorded with a grade of "W." Withdrawals from the university after the eighth week will be recorded with 'W' or 'WF' at the discretion of the instructor. (During the summer session or other shortened terms, this schedule is adjusted appropriately to fit the condensed time frame.) All requests for withdrawal from the university must be received in the Office of the Registrar no later than the close of business hours two days before the last day of classes of any academic term. Under no circumstances will a student be permitted to withdraw from the university after that date.

Students who do not withdraw by the official procedure will receive an 'F' for each course.

Student Proficiency in English

By the end of the freshman year, every student enrolled at ETSU is expected to have a command of the English language that is commensurate with the quality of speech and writing of educated adults.

Academic Probation and Suspension Policies

Baccalaureate degree students who do not maintain the cumulative grade point average indicated on the following table, based on credit hours attempted, will be placed on academic probation after grades are posted for the term that the credit hours were earned (including summer sessions) during the next term (including summer session) in which they are enrolled at ETSU. Developmental Studies courses are included in calculating the GPA for this purpose.

GPA Hours Attempted Standard	Semester Credit Cumulative GPA
0 – 29	1.4
29.1 – 45	1.7
45.1 – 59.9	1.9
60+	2.0

Students seeking a second baccalaureate degree must maintain a 2.0 GPA each semester, regardless of the number of semester hours attempted.

Students may enroll in up to 13 credit hours of classes during a term in which they are on academic probation. If, at the end of the term of academic probation, a student has not attained the cumulative GPA standard or a 2.0 GPA for the term, the student will be suspended. A student who attains a 2.0 GPA for the term but does not meet the cumulative GPA standard will remain on probation during the next term of enrollment.

Period of Suspension: A student on probation who does not meet minimum GPA standards will be suspended from the university for one semester. The summer session does not count as a term of suspension. If a student is suspended for a second time for failure to meet minimum GPA standards, the suspension will be for two semesters or longer, and the student must follow the appeal procedure for reinstatement.

Appeal Procedure for Reinstatement following Suspension: Where extenuating circumstances are established as primary factors relating

to low grades, a student may petition to waive or end the period of suspension. This petition must describe verifiable, extenuating circumstances, which may include illness as evidenced by medical documentation; personal problems, such as divorce or serious domestic problems; accidental injury; or other circumstances beyond the student's control.

Upon the receipt of the written petition, a current academic transcript, and any supporting documents, a preliminary decision will be made as to whether there are satisfactory extenuating circumstances to warrant a formal appeal hearing. If a hearing is granted, the student will be notified of the time and place of the appeal hearing before the Academic Status Appeals Committee, which includes representatives of the Office of Student Affairs and the dean's office of the college or school in which the student is majoring. If the request for a hearing is not granted, the student may contact the dean for a review of the decision.

Work in Other Institutions

If credits earned at other regionally accredited institutions during a period of academic suspension from ETSU are found to be acceptable for transfer and if such credits are sufficient to remove a student from academic probation, the student may be readmitted as a transfer student by the Director of Admission.

The ETSU Honor Code

East Tennessee State University is committed to developing the intellect and moral character of its students. To that end, all instances of plagiarism, cheating, and other forms of academic misconduct shall be punished in accord with Tennessee Board of Regents policy. Any knowledge of conduct of this nature should be reported to the proper authorities. Not reporting instances of academic misconduct represents a fundamental break with honor code policy, and although this offense is not punishable, reflects a callous disregard for yourself, your classmates, and your professors.

DEGREE AND GRADUATION REQUIREMENTS

Degrees

East Tennessee State University confers the following degrees:

Undergraduate

Bachelor of Applied Science (B.A.S.)
 Bachelor of Arts (B.A.)
 Bachelor of Business Administration (B.B.A.)
 Bachelor of Fine Arts (B.F.A.)
 Bachelor of General Studies (B.G.S.)
 Bachelor of Music (B.M.)
 Bachelor of Science (B.S.)
 Bachelor of Science in Education (B.S.Ed.)
 Bachelor of Science in Dental Hygiene (B.S.D.H.)
 Bachelor of Science in Environmental Health (B.S.E.H.)
 Bachelor of Science in Nursing (B.S.N.)
 Bachelor of Social Work (B.S.W.)

Graduate

Master of Science in Allied Health (M.S.A.H.)
 Master of Accountancy (M.Acc.)
 Master of Arts (M.A.)
 Master of Arts in Liberal Studies (M.A.L.S.)
 Master of Arts in Teaching (M.A.T.)
 Master of Business Administration (M.B.A.)
 Master of City Management (M.C.M.)
 Master of Education (M.Ed.)
 Master of Fine Arts (M.F.A.)
 Master of Professional Studies (M.P.S.)
 Master of Public Administration (M.P.A.)
 Master of Public Health (M.P.H.)
 Master of Science (M.S.)
 Master of Science in Environmental Health (M.S.E.H.)
 Master of Science in Nursing (M.S.N.)
 Master of Social Work (M.S.W.)
 Education Specialist (Ed.S.)
 Doctor of Audiology (Au.D.)
 Doctor of Education (Ed.D.)
 Doctor of Medicine (M.D.)
 Doctor of Science in Nursing (D.S.N.)
 Doctor of Pharmacy (Pharm.D.)
 Doctor of Philosophy (Ph.D.)
 Doctor of Physical Therapy (D.P.T.)
 Doctor of Public Health (Dr.P.H.)

Bachelor Degree Requirements General

1. A minimum grade average of "C" (2.0 grade point average) on courses grouped, as follows:
 - a. All college work including courses transferred from other institutions.
 - b. All courses taken at East Tennessee State University.
 - c. All courses in the major and minor subjects (or area concentration) taken at East Tennessee State University.*
 - d. All courses in the major and minor subjects (or area concentration) including transferred credits.*

* Grades in all courses taken in the major and minor departments are reflected in the grade point average for the major and minor (or area concentration).
2. Students must complete the requirements of their program of study which shall be a minimum of 120 semester hours credit (exclusive of courses designed as not applicable toward the baccalaureate degree) including the general education core requirements, a major, and a minor, if required. The major and minor are usually chosen from different departments and each program of study must be approved by the chair (or advisor) of each department. The major and minor programs (or area concentration) must be approved by the chair of the departments concerned.

3. Transfer students must complete enough work in residence at ETSU in both the major and minor to satisfy the chair of the departments that they are qualified in the major and minor fields. Transfer students must take a minimum of six semester hours at ETSU in the major field.
4. Students must satisfy a residency requirement of not less than two semesters during the junior and senior years, including the last full semester. The residence requirement shall be no less than 25 percent of the total requirements of the program of study (i.e., 30 semester hours for a program of study of 120 semester hours). Not less than 12 semester hours may be counted as a semester of residence. Courses taken at East Tennessee State University off-campus centers are classified as residence credit.
5. A minimum of 50 semester hours of credit must have been completed in a senior-level college or university.
6. Students must have demonstrated proficiency in written and spoken English.
7. Students must complete the Core Exit Exam and all other required exit exams, such as the Major Field Test. These exams must be completed with due seriousness and diligence. The results of these tests are important to the university and are used in the evaluation of academic programs. The Core Exit Exam, which measures general education, should be taken as soon as general education requirements are met and not later than the beginning of the senior year. The Major Field Test is required in selected departments and administered during the senior year. Departments requiring the Major Field Test and Core Exit test dates are listed each semester in the Schedule of Classes Bulletin and on the web at http://www.etsu.edu/reg/graduation/exit_exam_sched.htm.
8. Students must file an Intent to Graduate form and approved major and minor sheets with the Office of the Registrar, Graduation Office, no later than the close of the first month of the senior year. The deadline for this filing is included in the academic calendars of the catalogs and the Schedule of Classes. It is the responsibility of the student to ensure that this deadline is met. No diploma or transcript will be issued to students with outstanding financial obligations.
9. Compliance with any changes which may be made in the curricula may be required for students not completing degree requirements within six years from the date of first registration.

Foreign Language Proficiency (B.A.)

Students studying for a bachelor of arts (B. A.) degree shall be required to complete a foreign language course numbered 2020 or above with a grade of C- or better. International students whose native language is not English and whose admission to ETSU requires them to take a standardized test of English as a Foreign Language (e.g., TOEFL) may substitute scores that meet the admission requirements for the foreign language requirement.

Second Bachelor's Degree

Students who hold a bachelor's degree from ETSU or any other regionally accredited college or university may subsequently earn a second bachelor's degree from ETSU in a second discipline by the following: 1) complete an additional 30 hours post-baccalaureate ETSU credit; 2) complete, without exception, the requirements for the major appropriate to the new degree (This requirement may be met by the major and minor of the curriculum for the first degree if appropriate to the second degree.); and 3) complete all Tennessee Board of Regents undergraduate degree requirements. A student pursuing a second bachelor's degree is subject to all departmental admission requirements and to all departmental and university graduation requirements. Application to enroll for a second bachelor's degree must be made through the Office of Admissions. Applications and all official transcripts must be submitted to the Office of Admissions by August 15th for fall semester and December 15th for spring semester.

Students who are pursuing a second bachelor's degree and would like to perform a change of major may do so by submitting a new application to the Office of Admissions (no additional fee required). A new second degree contract will be drawn up with the requirements to earn a second bachelor's degree with the new major.

Honor's Distinction

Baccalaureate degree candidates receive honors distinction, at graduation, based upon the cumulative college-level grade point average as indicated below:

Cum Laude	3.50	-	3.64
Magna Cum Laude	3.65	-	3.84
Summa Cum Laude	3.85	-	4.00

The grade point average used in conferring academic honor at graduation includes work at ETSU as well as all other college work attempted.

Notice of Intention to Graduate

Not later than the close of the first month of the senior year each candidate for a degree shall file a Notice of Intention to Graduate (application for degree) and approved major/minor sheets with the Office of the Registrar, Graduation Office.

All scholastic deficiencies shall be removed at least one week before the date on which the degree is to be conferred.

All fees and financial obligations shall be settled in full at least one week before the date on which the degree is to be conferred. Neither the diploma nor transcripts can be released until all accounts are cleared.

All candidates for degrees are encouraged to take advantage of the placement service in the Career Placement and Internship Services Office, located in Room 323, D.P. Culp Center.

Degrees are conferred three times a year, at the end of the fall, spring, and summer terms. Commencement ceremonies are held twice a year, at the end of the fall and spring terms. Summer degree recipients attend the fall ceremony.

Double Majors**Simultaneous Fulfillment of Requirements for Multiple Baccalaureate-Level Majors in a Single Degree Designation**

A multiple major is the completion of two or more majors leading to the same degree designation (e.g., completion of a B.S. degree with majors in History and Political Science). A student may qualify for multiple majors by meeting the total requirements of each major. Consult the "Degree Programs, Majors and Concentrations" section found elsewhere in this catalog.

**Double Degrees
Simultaneous Fulfillment of Requirements
for Multiple Degrees**

A student may concurrently receive multiple undergraduate degrees at a single degree level by satisfying the total requirements for each degree (e.g., B.A., B.S., B.B.A., etc.) and major. Double majors are not required to have minors.

**Fulfillment of Requirements for both TBR and
the University of Tennessee System Institutions**

The Tennessee General Assembly passed legislation mandating the transferability of 50 semester hours effective at all public institutions of higher education in Tennessee. A transfer track module that incorporates both the TBR and the University of Tennessee System minimum degree requirements consists of 60 semester hours in eight categories of courses and includes a provision to incorporate 12 to 15 semester hours of pre-major courses and/or electives. Completion of the module will permit students to transfer to any public institution of higher education in Tennessee.

Students transferring from other state public universities should consult the catalog from their home institution for a full list of courses satisfying each module.

Achievement Test Requirements

All students will be required to take one or more tests designed to measure General Education achievement and/or achievement in selected major areas as a prerequisite to graduation. In addition, students may be required to take other tests deemed necessary by the institution. The results of these tests will be used for evaluation of academic programs and student achievements. A commitment to performing well is expected.

Eligibility For Participation In Graduation Ceremonies

It is the policy of East Tennessee State University that only students who have completed their degree requirements participate in graduation ceremonies. There are two graduation ceremonies each year. May graduates attend the May ceremony. Students who finish requirements in any of the summer terms receive their diplomas in late August and are invited to attend the following December ceremony along with the December graduates.

General Education Requirements

Goals of General Education

East Tennessee State University's faculty and staff believe every student should experience certain benefits of an undergraduate education, regardless of his or her chosen field of study. ETSU's general education program aims to enable and encourage students to:

- apply the standards of reasoned argument to what they read and hear, write and say;
- engage in lifelong learning and personal growth;
- gain greater insight into their lives and the world in which they live;
- resolve conflicts nonviolently and solve problems creatively, often in collaboration with others;
- appreciate cultural diversity and respect people with viewpoints different from their own;
- be responsible, enlightened, active citizens in their communities and the world beyond their communities;
- find joy, meaning, and fulfillment in their lives and help others do the same.

To gain these benefits, students need a foundation of skills and knowledge which they can apply at work, in their personal lives, and in their communities. By successfully completing ETSU's general education requirements and other graduation requirements, students enhance their proficiency in reading, writing, oral communication, mathematics, and using information technology. They become acquainted with ideas, information, and modes of inquiry which they can draw upon in every area of their lives. In addition, students learn how to perceive relationships between different fields of study.

General Education Course Requirements

ETSU's general education requirements are described below. These requirements apply to all undergraduate students pursuing a baccalaureate degree. Many majors and degree programs require students to take specific courses to fulfill general education requirements. Students should consult the catalog and their advisors regarding specific general education requirements applicable to their majors and degree programs.

COMMUNICATION

9 credits, consisting of 6 credits of written composition and 3 credits of oral communication.

Written Composition. Complete both of the following:

ENGL 1010	Critical Reading and Expository Writing	3 credits
ENGL 1020	Critical Thinking and Argumentation	3 credits

Oral Communication. Complete one of the following:

SPCH 1300	General Speech	3 credits
SPCH 2300	Public Speaking	3 credits
SPCH 2320	Argumentation and Debate	3 credits

Note: Students eligible to enroll in ENGL 1010 must do so during their first term at ETSU. Students must earn a grade of "C" or better in ENGL 1010 and 1020. Students who take Developmental Studies Writing (DSPW) courses should enroll in ENGL 1010 the next term after completing DSPW 0800.

Note: When one of the oral communication courses listed above is completed to meet the general education core requirement, that course will **not** count toward ETSU's oral communication-intensive requirement. (See "Other Graduation Requirements," below.) Any **additional** course from this list that is completed will count toward the oral communication-intensive requirement.

HUMANITIES AND FINE ARTS

9 credits, consisting of 3 credits of literature, 3 credits of fine arts, and 3 credits of humanities electives.

Literature. Complete one of the following:

ENGL 2030	Literary Heritage	3 credits
ENGL 2110	American Literature I	3 credits
ENGL 2120	American Literature II	3 credits
ENGL 2210	British Literature I	3 credits
ENGL 2220	British Literature II	3 credits
ENGL 2330	World Literature	3 credits
ENGL 2430	European Literature	3 credits

Fine Arts. Complete one of the following:

ARTH 2010	Art History Survey I	3 credits
ARTH 2020	Art History Survey II	3 credits
HUMT 2310	Arts and Ideas I	3 credits
HUMT 2320	Arts and Ideas II	3 credits
MJSC 1030	Introduction to Music	3 credits
MJSC 1035	History of Jazz	3 credits
DANC 3500	Dance as Human Experience	3 credits
THEA 1030	Introduction to Theatre	3 credits

Humanities Electives. Complete one of the following:

ENGL 3150	Literature, Ethics, and Values	3 credits
ENGL 3280	Mythology	3 credits
ENTC 3020	Technology and Society	3 credits
HIST 1110	World History and Civilization to 1500	3 credits
HIST 1120	World History and Civilization Since 1500	3 credits
PHIL 1030	Introduction to Philosophy	3 credits
PHIL 2020	Introduction to Ethics	3 credits
PHIL 2040	Philosophy as Conversation	3 credits
RELI 2210	Introduction to the Study of Religion	3 credits
PHIL 2640	Science and the Modern World	3 credits

SOCIAL AND BEHAVIORAL SCIENCES**6 credits, consisting of two of the following:**

ANTH	1240	Introduction to Cultural Anthropology	3 credits	PSCI	1120	Introduction to American Government	3 credits
ECON	1050	Economics and Society or		PSYC	1310	Introduction to Psychology	3 credits
ECON	2210	Principles of Economics I	3 credits	SOCI	1020	Introduction to Sociology	3 credits
GEOG	1012	Introduction to Cultural Geography	3 credits	SOCI	2020	Social Problems	3 credits
HDAL	2310	Developmental Lifespan Psychology	3 credits	SRVL	1020	Introduction to Service-Learning	3 credits
PSCI	1110	Political Life	3 credits	WMST	2010	Introduction to Women's Studies	3 credits

Note: Students may count either ECON 1050 or ECON 2210 toward the Social and Behavioral Sciences requirement, but not both.

HISTORY**6 credits, consisting of both of the following:**

HIST	2020	The United States Since 1877	3 credits	HIST	2010	The United States to 1877	3 credits
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Note: HIST 2030 History of Tennessee (3 credits) may be substituted for 3 credits of United States History.

NATURAL SCIENCES**8 credits, consisting of two of the following (required labs are shown with the lecture numbers):**

ASTR	1010	Astronomy I	4 credits	PHYS	2010/11	General Physics I-Non-Calculus	4 credits
ASTR	1020	Astronomy II	4 credits	PHYS	2020/21	General Physics II-Non-Calculus	4 credits
ASTR	1035	Life in the Universe	4 credits	PHYS	2110	Technical Physics I -Calculus Based	5 credits
BIOL	1110/11	Biology for Science Majors I	4 credits	PHYS	2120	Technical Physics II -Calculus Based	5 credits
BIOL	1120/21	Biology for Science Majors II	4 credits				
BIOL	1130/31	Biology for Science Majors III	4 credits				
CHEM	1110/11	General Chemistry I	4 credits				
CHEM	1120/21	General Chemistry II	4 credits				
GEOG	1110	Earth Science: Weather and Climate	4 credits				
GEOG	1120	Earth Science: Landforms and Processes	4 credits				
GEOL	1040/41	Physical Geology	4 credits				
GEOL	1050	Historical Geology	4 credits				
HSCI	2010/11	Anatomy & Physiology I	4 credits				
HSCI	2020/21	Anatomy & Physiology II	4 credits				

Open to nonscience majors only:

BIOL	1010/11	Biology for Non-majors I	4 credits
BIOL	1020/21	Biology for Non-majors II	4 credits
BIOL	1310/11	Concepts in Biology	4 credits
CHEM	1000	Chemistry and Well Being	4 credits
CHEM	1030	Introduction to Chemistry Survey	4 credits
PHYS	1030	Introduction to Physics Survey	4 credits

MATHEMATICS**3-4 credits, consisting of one of the following:**

MATH	1530	Probability and Statistics-Non-Calculus	3 credits
MATH	1840	Analytic Geometry and Differential Calculus ...	3 credits
MATH	1910	Calculus I	4 credits

Note: Students eligible to enroll in one of these math courses must do so during their first calendar year of enrollment or prior to accumulating 33 semester credits at ETSU. Students who take Developmental Studies Math (DSPM) courses should complete the general education math requirement after completing DSPM courses and must do so in the next calendar year or prior to accumulating 33 more semester credits at ETSU.

MATHEMATICS AND NATURAL SCIENCES

IBMS	1100	Integrative Biology and Statistics	6 credits	IBMS	1200	Integrative Biology and Calculus	6 credits
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Note: Completion of IBMS 1100 and 1200 satisfies both the Mathematics requirement and the Natural Sciences requirement. Students must complete the entire two-course sequence in order to fulfill the Mathematics and Natural Sciences blocks. Students who complete only one of the courses (not recommended) will be considered to have met four credit hours of the Natural Sciences requirement.

Transferring General Education Courses within the Tennessee Board of Regents System

All institutions in the Tennessee Board of Regents (TBR) System share a common general education core curriculum of forty-one (41) semester credits for baccalaureate degrees and the Associate of Arts and Associate of Science degrees. ETSU courses that fulfill the general education requirements are listed above. Lists of courses fulfilling general education requirements at other TBR institutions are available at <http://www.tbr.state.tn.us/offices/academicaffairs.aspx?id=2934>.

Although the courses TBR institutions designate to fulfill general education requirements vary, transfer of these courses among TBR institutions is assured as follows:

- Students who wish to earn baccalaureate degrees at Tennessee Board of Regents institutions must take six credits of United States History (of which three credits may be replaced by Tennessee History), as mandated by Tennessee law. Students who plan to transfer to University of Tennessee System universities or to out-of-state or private universities should check requirements at those schools and take the appropriate courses.
- Upon completion of an A.A. or A.S. degree at a TBR institution, including completion of the U.S. History requirement mandated by state law, general education core requirements will be complete and all TBR institutions will recognize completions of these requirements in the transfer process.
- If an A.A. or A.S. is not obtained or if a student is pursuing a baccalaureate degree at a TBR university, transfer of completed general education requirements will be based upon completion of subject blocks. When a student completes a subject category requirement (e.g., if all eight credits in the category of Natural Sciences are complete), completion of that block will be recognized by all TBR institutions. When a student has taken courses that fulfill only part of a subject block requirement, the application of transferred courses to the receiving institution's general education requirements will be evaluated on a course-by-course basis.
- Some institutions or particular academic departments within institutions require a minimum grade of 'C' in certain general education courses. These minimum grade requirements will also apply to the transfer of general education courses. Even if transfer credit hours are granted for a course, any requirement for a minimum grade of 'C' by the receiving institution will be enforced.
- Certain majors require students to take particular courses to fulfill general education requirements. Students and their academic advisors should note any major-specific stipulations regarding fulfillment of general education requirements.

Other Graduation Requirements

ETSU students also meet graduation requirements designed to reinforce skills in oral communication, using information technology, and writing. These skills are essential for professional success, satisfying personal relationships, and civic engagement. These graduation requirements are as follows:

Using Information Technology

Students must demonstrate a working knowledge of word-processing, spreadsheets, electronic communication, and online searches during their first calendar year of enrollment or prior to accumulating 33 semester credits at ETSU. This requirement may be met by passing the UIT proficiency exam or by successfully completing CSCI 1100, Using Information Technology. Students may register to take the UIT proficiency exam by going to <http://www.etsu.edu/uit> or by calling the Using Information Technology Office at 423-439-6964. Registration for summer proficiency testing begins the first week in May.

Proficiency-Intensive Course Requirements

Oral communication, information technology, and writing skills are essential for success on the job and in our personal lives. To help build these skills throughout the college years, ETSU requires all students to meet "proficiency-intensive" requirements. These requirements do not necessarily add course hours to a student's program of study, but typically are met by courses being taken for the major or general education or as electives. Certain courses within every major, as well as selected courses in the general education core, are declared oral communication-intensive, using information technology-intensive, or writing-intensive. These courses offer students the opportunity to practice the identified skills while learning the subject matter of the course. ETSU's proficiency-intensive courses are indicated in the Schedule of Classes each term. ETSU's proficiency-intensive requirements do not apply to students pursuing second baccalaureate degrees.

Students must meet proficiency-intensive requirements through courses taken at ETSU. Faculty committees at ETSU review and monitor all proficiency-intensive courses to make sure they meet several criteria. Because courses from other institutions cannot be evaluated and monitored in this way, transfer courses do not satisfy ETSU's proficiency-intensive requirements.

Oral Communication-Intensive Courses

Students must complete a minimum of two oral communication-intensive (ICOM) courses. At least **one** of these courses must be in the student's major or minor.*

Using Information Technology-Intensive Courses

Students must complete a minimum of one using information technology-intensive (ITEC) course in the student's major or minor.*

Writing-Intensive Courses

Students must complete a minimum of four writing-intensive (IWRT) courses. At least **two** of these courses must be in the student's major or minor.* At least **two** of the four courses must be at the 3000-4000 level.

* (NOTE: Any course taken in the department in which a student is majoring counts as in the major. If a student changes majors, proficiency-intensive courses in the old major still count as in the major.)

Reduced Proficiency-Intensive Requirements

The following categories of students are required to take **one** oral communication-intensive course, **one** using information technology-intensive course, and **two** writing-intensive courses:

- students with associate degrees or who complete such degrees after entering ETSU;
- transfer students with 50 or more transferable semester credits upon entering ETSU; and
- readmission students who earned at least 50 credits at ETSU before 1995 or who re-enter ETSU with at least 50 transferable semester credits or who have a combination of at least 50 credits in both categories upon first re-entry to the university.

Reading

Students who are required to take the COMPASS test and who are assessed as being deficient in reading must complete DSPR 0800 prior to accumulating 33 semester credits at ETSU.

GRADUATION PROCEDURES

1. Not later than the close of the first month of the senior year, each candidate for a degree must file a Notice of Intention to Graduate (application for degree), and approved major/minor sheets with the Office of the Registrar, Graduation Section.
2. All scholastic deficiencies must be removed at least one week before the date on which the degree is to be conferred.
3. All fees and financial obligations must be settled in full at least one week before the date on which the degree is to be conferred. Neither the diploma nor transcripts can be released until all accounts are cleared. Additional information is available at www.etsu.edu/reg/graduation.
4. All candidates for degrees are encouraged to take advantage of the placement service in the Office of Career Placement and Internship Services, located in the D.P. Culp University Center.
5. Degrees are conferred three times a year, at the end of the fall, spring, and summer terms.

Eligibility for Participation in Graduation Ceremonies

It is the policy of East Tennessee State University that only students who have completed their degree requirements participate in graduation ceremonies. There are two graduation ceremonies each year. May graduates attend the May ceremony. Students who finish requirements in any of the summer terms receive their diplomas in late August and are invited to attend the following December ceremony along with the December graduates.

Graduating with Honors

Baccalaureate degree candidates receive honors distinction at graduation based upon the cumulative, college-level grade point average, as follows:

Cum Laude	3.50 - 3.64
Magna Cum Laude	3.65 - 3.84
Summa Cum Laude	3.85 - 4.00

The grade point average used in conferring academic honor at graduation includes work at this university as well as all other college work attempted.

DEGREE PROGRAM MAJORS AND CONCENTRATIONS

Asterisk beside concentration name denotes ETSU Education Licensure Concentration
 SBS at the end of a concentration name indicates a Social and Behavioral Sciences Concentration

MAJOR	DEGREE	ETSU MAJOR NAME CONCENTRATION (CON) NAME	MAJOR & CON	CODES	
				DEPT	COL- LEGE
ACCOUNTING	Bachelor of Business Administration (B.B.A.)	<u>Accounting</u>	<u>ACCT</u>	ACCT	BT
	Master of Accountancy (M.ACC)	<u>Accounting – Master's</u>	<u>MACC</u>		
ADVANCED STUDIES IN TEACHING AND LEARNING	Master of Education (M.Ed.)	<u>Advanced Studies in Teaching and Learning</u>	<u>ASTL</u>	ROED (CUAI)	ROD (ED)
		Early and Middle Childhood/Literacy: Reading-Language Arts	EMCL		
ALLIED HEALTH	Bachelor of Applied Science (B.S.)	<u>Allied Health - BS</u> Allied Health Leadership Radiography Cardiopulmonary Science Nutrition and Foods	<u>ALHE</u> AHLD RADG CPSC NTFD	ALSC	CR
	Master of Science in Allied Health (M.S.A.H.)	<u>Allied Health - MSAH</u>	<u>ALHE</u>		
APPLIED SCIENCE	Bachelor of Arts (B.A.S.)	<u>Applied Science</u> Professional Development	<u>APLS</u> PROF	CDST	CS
ARCHIVAL STUDIES	Graduate Certificate (C4)	<u>Archival Studies</u>	<u>ASGC</u>	CDST	CS
ART	Bachelor of Arts (B.A.)	<u>Art - BA</u> Art History Studio Art - BA	<u>ARTA</u> ARTH STUO	ARTA	AS
		<u>Art - BFA</u> Studio Art - BFA	<u>ARTA</u> STUO		
	Master of Arts (M.A.)	<u>Art - Master's</u> Art History Studio Art - MA	<u>ARTA</u> ARTH STUO		
	Master of Fine Arts (M.F.A.)	<u>Art - MFA</u> Studio Art - MFA	<u>ARTA</u> STUO		
AUDIOLOGY	Doctor of Audiology (Au.D.)	<u>Audiology</u>	<u>AUDI</u>	CDIS	CR
BIOLOGY	Bachelor of Science (B.S.)	Biology Microbiology Paleontology Biochemistry *Biology Education 7-12	BIOL MBIO PALE BIOC EDUB	BISC	AS
	Master of Science (M.S.)	<u>Biology – Master's</u> Biology Microbiology Paleontology	<u>BIOL</u> BIOL MICR PALE		
BIOMEDICAL SCIENCES	Doctor of Philosophy	<u>Biomedical Sciences</u> Anatomy Biochemistry Microbiology Pharmacology Physiology	<u>BMED</u> ANAT BIOC MICR PHAR PHSY	BMED	ME
BIOSTATISTICS	Graduate Certificate (C4)	<u>Biostatistics</u>	<u>BISS</u>	PUBH	PU
BUSINESS ADMINISTRATION Interdepartmental	Master of Business Administration (B.B.A.) Graduate Certificate (C4)	<u>Master of Business Administration</u> <u>Business Administration Certificate</u>	<u>BAMN</u> <u>BAMN</u>	MGMK	BT

DEGREE PROGRAM MAJORS AND CONCENTRATIONS

MAJOR	DEGREE	ETSU MAJOR NAME CONCENTRATION (CON) NAME	CODES		
			MAJOR & CON	DEPT	COL- LEGE
CHEMISTRY	Bachelor of Science (B.S.)	<u>Chemistry</u> ACS Chemistry Biochemistry Chemistry Chemistry Professional *Chemistry Education 7-12 *Chemistry Education 7-12/SBS	<u>CHEM</u> CACs BOCC CHEM CPRO ECHM CHEB	CHEM	AS
	Master of Science (M.S.)	<u>Chemistry – Master's</u>	<u>CHEM</u>		
CLINICAL NUTRITION	Master of Science (M.S.)	<u>Clinical Nutrition</u>	<u>CLNU</u>	ALSC	CR
CLINICAL PSYCHOLOGY	Doctor of Philosophy (Ph.D.)	<u>Clinical Psychology</u>	<u>PHDC</u>	PSYC	AS
COMMUNICATIVE DISORDERS	Master of Science (M.S.)	<u>Communicative Disorders</u> Speech Pathology *Special Education Speech Path Pre-K-12	<u>CDIS</u> SPCH ECDS	CDIS	CR
COMPUTING	Bachelor of Science (B.S.)	<u>Computing</u> Computer Science Information Systems Science Information Technology	<u>CISC</u> CSCS INSS ITEC	CSCI	BT
	Master of Science (M.S.)	<u>Computer and Information Sciences</u> Applied Computer Science Information Technology	<u>CSCI</u> ACSI ITEC		
COUNSELING	Master of Arts (M.A.)	<u>Counseling</u> Community Agency Counseling Counseling: Higher Education Elementary & Secondary School Counseling Marriage & Family Therapy	<u>CNSL</u> CACL CSLH SCHL MFAM	HDAL	ED
CRIMINAL JUSTICE AND CRIMINOLOGY	Bachelor of Arts (B.A.)	<u>Criminal Justice</u>	<u>CJCR</u>	CJCR	AS
	Bachelor of Science (B.S.)	<u>Criminal Justice</u> Criminal Justice/SBS <u>Criminal Justice - Master's</u>	<u>CJCR</u> CJCB <u>CJCR</u>		
DENTAL HYGIENE	Master of Arts (M.A.) Bachelor of Science in Dental Hygiene (B.S.D.H.)	<u>Dental Hygiene</u>	<u>DHYG</u>	ALSC	CR
DIGITAL MEDIA	Bachelor of Science (B.S.)	<u>Digital Media</u> Digital Animation Digital Interaction Digital Visualization Production Design	<u>DIGM</u> ANIM INTN VISU PROD	TECG	BT
E-BUSINESS Interdepartmental	Graduate Certificate (C4)	<u>E-Business</u>	<u>EBUS</u>	CSCI	BT
EARLY CHILDHOOD EDUCATION	Master of Arts (M.A.)	<u>Early Childhood Education</u> Early Childhood (Master Teacher) Early Childhood (Researcher/Thesis) Early Childhood (Initial Licensure)	<u>ECED</u> MTEA RSEA INIL	HDAL	ED
EARLY CHILDHOOD DEVELOPMENT	Bachelor of Science (B.S.)	<u>Early Childhood Development</u> Early Childhood Development Pre-K-3	<u>ECDV</u> ECDP	HDAL	ED
ECONOMICS	Bachelor of Arts (B.A.)	<u>Economics - Arts & Sciences</u> *Economics Education 7-12 International Commerce	<u>EOA</u> EECN INTC	EFUS	BT
		<u>Economics</u> Business Economics General Business	<u>ECON</u> BUEC GNBU	EFUS	BT

DEGREE PROGRAM MAJORS AND CONCENTRATIONS

MAJOR	DEGREE	ETSU MAJOR NAME CONCENTRATION (CON) NAME	CODES		
			MAJOR & CON	DEPT	COL- LEGE
ECONOMIC DEVELOPMENT	Graduate Certificate (C4)	<u>Economic Development</u>	EDEV		BT
EDUCATIONAL LEADERSHIP	Master of Education (M.Ed.)	<u>Educational Leadership - MED</u> *Administrative Endorsement - MED	EDLR AMNM	ELPA	ED
	Education Specialist (Ed.S.)	<u>Educational Leadership - EDS</u> Administrative Endorsement - EdS Counselor Leadership School System Leadership Teacher Leadership	EDLR AMNM CLDR SCSL TCHL		
	Doctor of Education (Ed.D.)	<u>Educational Leadership - EDD</u> School Leadership Classroom Leadership Postsecondary and Private Sector Leadership Administrative Endorsement - EDD	EDLR SCOL CLSL PPSL AMNM	ELPA	ED
EDUCATIONAL MEDIA AND EDUCATIONAL TECHNOLOGY	Master of Education (M.Ed.)	<u>Educational Media and Educational Technology</u> School Library Media Educational Communications and Technology	EDMT SLIB EDCT	CUAI	ED
ENGLISH	Bachelor of Arts (B.A.)	<u>English</u> *English Education 7-12	ENGL EDUE	ENGL	AS
	Master of Arts (M.A.)	<u>English - Master's</u>	ENGL		
ELEMENTARY EDUCATION	Master of Education (M.Ed.)	<u>Elementary Education - Master's</u>	EEDM	CUAI	ED
	Master of Arts in Teaching (M.A.T.)	<u>Elementary Education - MAT</u>	EEDM		
EMERGING TECHNOLOGIES	Graduate Certificate (C4)	<u>Emerging Technologies</u>	ETCG	CSCI	BT
ENGINEERING TECHNOLOGY	Bachelor of Science (B.S.)	<u>Engineering Technology (4 yr.)</u>	ENTC	TECG	BT
		Biomedical Engineering Technology	BIOM		
		Construction Technology	CONS		
		Electronics Engineering Technology	ELEC		
		Manufacturing Engineering Technology	MANU		
		Industrial Technology	INDU		
Entrepreneurial Leadership Interdepartmental	Graduate Certificate (C4)	<u>Entrepreneurial Leadership</u>	EPRL	MGMK	BT
ENVIRONMENTAL HEALTH	Bachelor of Science in Environmental Health (B.S.E.H.)	<u>Environmental Health</u> Environmental Health Practices Occupational Health & Safety	ENVH ENVI OCCU	ENVH	PU
	Master of Science in Environmental Health (M.S.E.H.)	<u>Environmental Health - MSEH</u> Administrative Program Specialist Program	ENVH ADMP SPEC		
	Doctor of Philosophy (Ph.D.)	<u>Environmental Health - Doctorate</u>	ENVH		
EPIDEMIOLOGY	Graduate Certificate (C4)	<u>Epidemiology</u>	EPID	PUBH	PU
FAMILY NURSE PRACTITIONER	Graduate Certificate (C4)	<u>Family Nurse Practitioner</u>	FNPR (NURS)	RONU (NU)	ROD
FINANCE	Bachelor of Business Administration (B.B.A.)	<u>Finance</u> Corporate Finance & Investments Banking Real Estate	FNCE CFIN BANK REAL	EFUS	BT
FOREIGN LANGUAGES	Bachelor of Arts (B.A.)	<u>Foreign Languages</u>	LANG	LANG	AS
		French	FREN		
		German	GERM		
		Spanish	SPAN		
		*French Education 7-12	EDUF		
*German Education 7-12	EDUG				
*Spanish Education 7-12	EDUS				

DEGREE PROGRAM MAJORS AND CONCENTRATIONS

MAJOR	DEGREE	ETSU MAJOR NAME CONCENTRATION (CON) NAME	MAJOR & CON	CODES			
				DEPT	COL- LEGE		
FOREIGN LANGUAGES	Bachelor of Arts (B.A.)	<u>Foreign Languages</u>	<u>LANG</u>	LANG	AS		
		French	FREN				
		German	GERM				
		Spanish	SPAN				
		*French Education 7-12	EDUF				
		*German Education 7-12	EDUG				
		*Spanish Education 7-12	EDUS				
GENERAL STUDIES	Bachelor of General Studies (B.G.S.)	<u>General Studies</u>	<u>BGSD</u>	CDST	CS		
GEOGRAPHY	Bachelor of Science (B.S.)	<u>Geography</u>	<u>GEOG</u>	GEOS	AS		
		Geography	GEOG				
		*Geography Education 7-12	EDGE				
GEOLOGY	Bachelor of Science (B.S.)	<u>Geology</u>	<u>GLGY</u>	GEOS	AS		
GERONTOLOGY	Graduate Certificate (C4)	<u>Gerontology</u>	<u>GERN</u>	PUBH	PU		
HEALTH CARE MANAGEMENT Interdisciplinary	Graduate Certificate (C4)	<u>Health Care Management</u>	<u>HCMC</u>				
		HCM - Business (ETSU)	HCMB			MGMT	BT
		HCM - Nursing (ETSU)	HCMN			NURS	NU
		HCM - Public Health (ETSU)	HCMP			PUBH	PA
HEALTH SCIENCES	Bachelor of Science (B.S.)	<u>Health Sciences</u>	<u>HESC</u>	HSCI	PU		
		Microbiology	MBHS				
		Human Health	HUHE				
HISTORY	Bachelor of Arts (B.A.)	<u>History</u>	<u>HIST</u>	HIST	AS		
		*History Education 7-12	EDUH				
	Bachelor of Science (B.S.)	<u>History</u>	<u>HIST</u>				
		*History Education 7-12	EDUH				
		*History Education 7-12/SBS	EDHB				
		History/SBS	HISB				
	Master of Arts (M.A.)	<u>History - Master's</u>	<u>HIST</u>				
HUMAN SERVICES	Bachelor of Science (B.S.)	<u>Human Services</u>	<u>HSER</u>	HDAL	ED		
INTERDISCIPLINARY STUDIES (Elementary Education)	Bachelor of Science in Education (B.S.Ed.) No Degree	<u>Interdisciplinary Studies - Elem Ed</u>	<u>ISED</u>	CUAI	ED		
		<u>Pre-Education</u>	<u>PRED</u>				
		Interdisciplinary Studies	ISED				
		Special Education	SPED				
		Early Childhood Development	ECDV				
		Physical Education	PEDU				
INTERDISCIPLINARY STUDIES	Bachelor of Science (B.S.)	<u>Interdisciplinary Studies</u>	<u>BSIS</u> (CDST)	RODP (CS)	ROD		
INTERIOR DESIGN	Bachelor of Science (B.S.)	Interior Design	INTD	TECG	BT		
KINESIOLOGY AND SPORT SCIENCES	Master of Arts (M.A.)	<u>Kinesiology and Sport Sciences</u>	<u>KSPS</u>	KLSS	ED		
		Exercise Physiology and Performance	EXSP				
		Physical Education K-12	PEED				
		Sport Management	SPRT				
LIBERAL STUDIES	Master of Arts in Liberal Studies (M.A.L.S.)	<u>Liberal Studies</u>	<u>MALS</u>	CDST	CS		
		Archival Studies	ARCH				
MANAGEMENT	Bachelor of Business Administration (B.B.A.)	<u>Management</u>	<u>MGMT</u>	MGMK	BT		
		Legal Studies	LEGS				
		Logistics/Supply Chain Management	LSCM				
		Human Resources Management	HRMG				
		General Management	GMGT				

DEGREE PROGRAM MAJORS AND CONCENTRATIONS

MAJOR	DEGREE	ETSU MAJOR NAME CONCENTRATION (CON) NAME	MAJOR & CON	CODES	
				DEPT	COL- LEGE
MANAGEMENT (cont.)	No Degree	<u>Pre-Business</u> Accounting Economics Finance Management Marketing	<u>PBUS</u> ACCT ECON FNCE MGMT MKTG		
MARKETING	Bachelor of Business Administration (B.B.A.)	<u>Marketing</u> Integrated Marketing Communications Marketing Management Merchandising	<u>MKTG</u> IMCO MKMG MDSE	MGMK	BT
MASS COMMUNICATIONS	Bachelor of Arts (B.A.)	<u>Mass Communications</u> Advertising Broadcasting Journalism Public Relations	<u>MCOM</u> ADVR BROA JOUR PUBL	COMM	AS
	Bachelor of Science (B.S.)	<u>Mass Communications</u> Advertising Broadcasting Journalism Public Relations Advertising/SBS Broadcasting/SBS Journalism/SBS Public Relations/SBS	<u>MCOM</u> ADVR BROA JOUR PUBL ADVB BROB JOUR PUBB		
MATHEMATICS	Bachelor of Science (B.S.)	<u>Mathematics</u> *Mathematics Education 7-12 *Mathematics Education 7-12/SBS Mathematics/SBS	<u>MATH</u> EDUM EDMB MATB	MATH	AS
MATHEMATICAL SCIENCES	Master of Science (M.S.)	<u>Mathematical Sciences</u> PreCollegiate Mathematics	<u>MASC</u> MTHP	MATH	AS
MEDICINE	Doctor of Medicine (M.D.)	(See College of Medicine Catalog)			
MUSIC	Bachelor of Music (B.M.)	<u>Music - BM</u> Music Education Performance	<u>MUSC</u> MUSE PERF	MUSC	AS
NURSING	No Degree	<u>Nursing Baccalaureate - Pre</u>	<u>PBSN</u>	NURS	NU
	Bachelor of Science (B.S.N.)	<u>Nursing Baccalaureate</u>	<u>NURB</u>	NURS	NU
	Master of Science in Nursing (M.S.N.)	<u>Nursing - Master's</u>	<u>NURM</u>		
	Master of Science in Nursing (M.S.N.)	Nursing Advanced Practice Nursing Administration Nursing Education Nursing Informatics Nursing - Doctorate	<u>RMSN</u> NADV NADM NEDU NINF <u>NDSN</u>	RONU (NURS)	ROD (NU)
NURSING - ADVANCED NURSING PRACTICE	Doctor of Nursing (D.S.N.)			NURS	NU
	Graduate Certificate (C4)	<u>Advanced Nursing Practice</u>	<u>NUMC</u>	NURS	NU
PHARMACY (See College of Pharmacy Catalog)	Doctor of Pharmacy (Pharm.D.)	<u>Pharmacy</u>	<u>PMCY</u>		PH
PHILOSOPHY	Bachelor of Arts (B.A.)	<u>Philosophy</u> Philosophy Philosophy and Religious Studies	<u>PHIL</u> PHIL RELI	PHAH	AS
	Bachelor of Science (B.S.)	<u>Philosophy</u> Philosophy Philosophy and Religious Studies Philosophy/SBS Philosophy and Religious Studies/SBS	<u>PHIL</u> PHIL RELI PHIB RELB		

DEGREE PROGRAM MAJORS AND CONCENTRATIONS

MAJOR	DEGREE	ETSU MAJOR NAME CONCENTRATION (CON) NAME	CODES		
			MAJOR & CON	DEPT	COL- LEGE
PHYSICAL EDUCATION	Bachelor of Science (B.S.)	<u>Physical Education</u> Physical Education Exercise Science	<u>PEDU</u> PEED EXER	KLSS K-12	ED
PHYSICAL THERAPY	Doctor of Physical Therapy (D.P.T.)	<u>Physical Therapy - DPT</u>	<u>DPTH</u>	PHYT	CR
PHYSICS	Bachelor of Science (B.S.)	<u>Physics</u> *Earth Science Education 7-12 Physics/SBS *Physics Education 7-12 *Physics Education 7-12/SBS	<u>PHSY</u> EDGL PHYB EDPH EDPB	PHYS	AS
POLITICAL SCIENCE	Bachelor of Arts (B.A.)	<u>Political Science</u> *Government Education 7-12 International Affairs	<u>PSCI</u> EDPS ITAF	PSCI	AS
	Bachelor of Science (B.S.)	<u>Political Science</u> *Government Education 7-12 *Government Education 7-12/SBS Political Science/SBS	<u>PSCI</u> EDPS EPSB PSCB		
PSYCHOLOGY	Bachelor of Arts (B.A.)	<u>Psychology</u> Behavioral Neuroscience Child Psychology Clinical Psychology Cognitive Science General Psychology	<u>PSYC</u> NEUR CHLD CLIN COGN PSYG	PSYC	AS
		*Psychology Education 7-12	EDPY		
		<u>Psychology</u> Behavioral Neuroscience Child Psychology Clinical Psychology Cognitive Science General Psychology Behavioral Neuroscience / SBS Child Psychology / SBS Clinical Psychology / SBS	<u>PSYC</u> NEUR CHLD CLIN COGN PSYG NEUS CHLS CLIS		
	Bachelor of Science (B.S.)	*Psychology Education 7-12	EDPY		
		*Psychology Education 7-12/SBS Psychology/SBS	EDYB PSYB		
		<u>Psychology - Master's</u> Clinical Psychology General Psychology Clinical Psychology	<u>PSYC</u> CLIN PSYG CLIN		
PROFESSIONAL COMMUNICATION	Master of Arts (M.A.)	<u>Professional Communication</u>	<u>PCOM</u>	COMM	AS
PROFESSIONAL STUDIES	Bachelor of Science (B.S.)	<u>Professional Studies</u> Information Technology Organizational Leadership	<u>PROS</u> INFT ORGL	CDST (CDST)	ROD (CS)
	Master of Professional Studies (M.P.S.)	<u>Professional Studies - MPS</u> Strategic Leadership	<u>PROS</u> MPSL	ROCS (CDST)	ROD (CS)
PUBLIC ADMINISTRATION	Master of City Management (M.C.M.)	<u>Public Administration - MCM</u> City Management	<u>MCMP</u> CMGT	PSCI	AS
PUBLIC ADMINISTRATION (cont.)	Master of Public Administration (M.P.A.)	<u>Public Administration – MPA</u> Not-for-Profit Administration Planning and Development Public Financial Management	<u>PADM</u> NFPA PLDV PFMT	EFUS	
	Master of Public Administration (M.P.A.)	<u>Public Administration – MPA</u> Not-for-Profit Administration Planning and Development Public Financial Management	<u>PADM</u> NFPA PLDV PFMT	EFUS	

DEGREE PROGRAM MAJORS AND CONCENTRATIONS

MAJOR	DEGREE	ETSU MAJOR NAME CONCENTRATION (CON) NAME	MAJOR & CON	CODES	
				DEPT	COL- LEGE
PUBLIC HEALTH	Bachelor of Science (B.S.)	<u>Public Health - BS</u>	<u>PUBH</u>	PUBH	PU
		Community Health	COMM		
		Health Administration	ADMH		
	Master of Public Health (M.P.H.)	<u>Public Health - MPH</u>	<u>PUBH</u>		
		Biostatistics	BIOS		
		Community Health	COMM		
		Epidemiology	PHEP		
		Environmental Health	ENVI		
	Doctor of Public Health (DrPH)	Public Health Administration	PHAD		
<u>Public Health - Doctorate</u>		<u>PUBH</u>			
Community Health		COMM			
READING	Master of Arts (M.A.)	<u>Reading</u>	<u>READ</u>	CUAI	ED
		Reading Education	REDU		
		Storytelling	STRY		
SECONDARY EDUCATION	Master of Education (M.Ed.)	<u>Secondary Education</u>	<u>SMED</u>	CUAI	ED
SPEECH	Bachelor of Arts (B.A.)	<u>Speech</u>	<u>SPCH</u>	COMM	AS
		Speech	SPCH		
	Bachelor of Science (B.S.)	*Speech Communication 7-12	EDSP		
		<u>Speech</u>	<u>SPCH</u>		
		Speech	SPCH		
		Theatre	THEA		
		Speech/SBS	SPCB		
		*Speech Communication 7-12	EDSP		
		*Theatre Education K-12	EDTH		
		*Speech Communication 7-12 / SBS	EDSB		
		*Theatre Education K-12 / SBS	EDTB		
SPECIAL EDUCATION	Bachelor of Science (B.S.)	<u>Special Education</u>	<u>SPED</u>	HDAL	ED
		Modified Special Education	SEMD		
	Master of Education (M.Ed.)	<u>Special Education - Master's</u>	<u>SPED</u>		
		Advanced Practitioner	SEAP		
		Early Childhood Special Education	SEEC		
SPORT AND LEISURE MANAGEMENT	<u>Bachelor of Science (B.S.)</u>	<u>Sport and Leisure Management</u>	<u>SALM</u>	PEXS	ED
		Park and Recreation Management	PARM		
		Sport Management	SPMT		
SOCIAL WORK	Bachelor of Science in Social Work (B.S.W.)	<u>Social Work</u>	<u>SOWK</u>	SOWK	AS
		*School Social Worker	EDSW		
		*School Social Worker / SBS	ESWB		
	Master of Science in Social Work (M.S.W.)	<u>Social Work – Master's</u>	<u>SOWK</u>		
		Advanced Standing	AMSW		
Traditional Entry	TMSW				
SOCIOLOGY	Bachelor of Arts (B.A.)	<u>Sociology</u>	<u>SOCI</u>	SOAA	AS
		*Sociology Education 7-12	EDSO		
SOCIOLOGY (cont.)	Bachelor of Science (B.S.)	<u>Sociology</u>	<u>SOCI</u>		
		*Sociology Education 7-12	EDSO		
		*Sociology Education 7-12 / SBS	ESCB		
		Sociology / SBS	SOCB		
	Master of Arts (M.A.)	<u>Sociology - Master's</u>	<u>SOCI</u>		
		Applied Sociology	APPL		
General Sociology	SOCG				

DEGREE PROGRAM MAJORS AND CONCENTRATIONS

MAJOR	DEGREE	ETSU MAJOR NAME CONCENTRATION (CON) NAME	MAJOR & CON	CODES	
				DEPT	COL- LEGE
SURVEYING AND MAPPING SCIENCE	Bachelor of Science (B.S.)	<u>Surveying and Mapping Science</u>	<u>SUVM</u>	TECG	BT
TEACHER EDUCATION WITH MULTIPLE LEVELS	Master of Arts in Teaching (M.A.T.)	Elementary Education K-6 Middle Grades Education 4-8 Secondary Education K-12	<u>TEML</u> <u>ELED</u> <u>MDED</u> <u>SCED</u>	CUAI	ED
TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES	Graduate Certificate (C4)	<u>Teaching English to Speakers of Other Languages</u>	<u>TESO</u>	LANG	AS
TECHNOLOGY	Master of Science (M.S.)	<u>Technology - Master's</u> Digital Media Engineering Technology	<u>TECM</u> <u>DMMS</u> <u>ENGT</u>	TECG	BT
THEATRE	Bachelor of Arts (B.A.)	<u>Theatre</u> *Theatre Education K-12	<u>THEA</u> <u>EDTH</u>	COMM	AS
URBAN PLANNING	Graduate Certificate (C4)	<u>Urban Planning</u>	<u>URPL</u>	EFUS	BT
WOMEN'S STUDIES	Bachelor of Arts (B.A.)	<u>Women's Studies</u>	<u>WMST</u>	COMM	AS

PRE-PROFESSIONAL PROGRAMS

No Degree Given, Must Select a Degree Program from Above List Of Majors

Pre-Dentistry	PDEN	ALSC	CR	Pre-Optometry	POPT	PHYS	AS
Pre-Engineering	PENG	TECH	BT	Pre-Pharmacy	PPHY	CHEM	AS
Pre-Law	PLAW	PSCI	AS	Pre-Physical Therapy	PRPT	PHYT	CR
Pre-Medicine	PMED	PHYS	AS	Pre-Veterinary Medicine	PVET	PHYS	AS
Pre-Occupational Therapy	PROT	PHYT	CR				

ACADEMIC MINORS

Accountancy	ACCT	BT	Humanities	HUMT	AS
African/African-American Studies	AFAM	AS	Information Technology	ITEC	BT
Anthropology	ANTH	AS	International Studies	INTL	AS
Appalachian Studies	APST	AS	Interior Design	INTD	BT
Applied Spanish	SPNA	AS	Japanese	JAPA	AS
Art	ARTA	AS	Journalism	JOUR	AS
Biology	BIOL	AS	Leadership Studies	LDRS	ED
Bluegrass, Old Time, and Country Music	BLUE	AS	Legal Studies	LGST	AS
Chemistry	CHEM	AS	Leisure Services	RECR	ED
Coaching	COCH	ED	Management	MGMT	BT
Communicative Disorders	CDIS	CR	Marketing	MKTG	BT
Computer/Information Science	CSCI	BT	Mathematics	MATH	AS
Criminal Justice	CJCR	AS	Microbiology	MBIO	AS
Digital Media	DIGM	BT	Military Science	MSCI	BT
Early Childhood Development	ECED	ED	Music	MUSC	AS
Economics	ECON	BT	Nutrition and Foods	NTFD	CR
Emergency/Disaster Response Management	EDRM	PU	Park and Recreation Management	PARM	ED
English	ENGL	AS	Physics	PHYS	AS
Engineering Technology	TECH	BT	Political Science	PSCI	AS
Environmental Health	ENVH	PU	Psychology	PSYC	AS
Environmental Studies	ENVS	AS	Public Health	PUBH	PU
Exercise Science	EXER	ED	Safety	SFTY	PU
Film Studies	FILM	AS	Sociology	SOCI	AS
Finance	FNCE	BT	Social Work	SOWK	AS
French	FREN	AS	Spanish	SPAN	AS
Food Service Management	FSVM	BT	Speech	SPCH	AS
General Business	GBUS	BT	Special Education Non-Teaching	SPNT	ED
Geographic Information Services	GEIS	BT	Sport Management	SMGT	ED
Geography	GEOG	AS	Teacher Education	TEDU	ED
Geology	GEOL	AS	Technical Writing	TECW	AS
German	GERM	AS	Theatre	THEA	AS
Health Sciences	HSCI	PU	Urban and Regional Studies	URBS	AS
History	HIST	AS	Women's Studies	WMST	AS
Human Development and Learning	HDAL	ED			

Academic Honors Programs The Honors College

The mission of the Honors College at East Tennessee State University is to provide access to honors-distinctive academic, creative, and enrichment opportunities for a broad spectrum of qualified students and to provide recognition for undergraduate students who excel in distinct areas of academic achievement. The College promotes and supports ambitious academic goals for talented and motivated undergraduate students as well as innovative teaching, mentoring, and scholarship by our faculty. In addition, the College sponsors activities, events, and programs designed to enhance the collective cultural and intellectual environment and foster a more global perspective within the university community.

For more information, visit our web site (<http://www.etsu.edu/honors>), contact us at The Honors College, PO Box 70589, ETSU, Johnson City, TN 37614; (423) 439-6076; or email the Dean, Dr. Rebecca Pyles (pylesr@etsu.edu).

Opportunities for All Undergraduates

In addition to formal honors programs, the Honors College at ETSU offers opportunities for all undergraduates to pursue undergraduate research and creative projects and to participate in national exchanges or international education through study abroad and exchange experiences. Grants, fellowships, and travel awards to participate in professional conferences are available to support undergraduate research; for more information, please visit our web site (<http://www.etsu.edu/honors/research>). A wide diversity of exchange and study abroad opportunities are available through our Office of International Programs & Services. ETSU currently offers formal exchange programs with 13 countries (Brazil, Ecuador, Germany, Hungary, Poland, Sweden, France, Spain, Norway, England, Scotland, and China) and our consortium memberships provide access to programs in more than 35 countries (<http://www.etsu.edu/honors/international>).

Academic Honors Programs

Academic Honors Programs offered at ETSU include:

- University Honors Scholars Program
- Fine & Performing Arts Scholars Program
- Midway Scholars Program (for transfer students)
- Honors-in-Discipline Programs, identified by major field of interest

The various formal Honors Programs at ETSU are designed to provide unique educational opportunities for academically and artistically talented students. Our goals focus on recruiting exceptional students, nurturing their intellectual growth through challenging curricula, promoting their commitment to lifelong learning and service, and instilling the desire to advance knowledge in their chosen fields. Honors Programs enlist exceptional faculty, who are provided opportunities to promote innovative and creative approaches to teaching and one-on-one mentoring in their classrooms and laboratories. All Honors Programs require completion of an Honors thesis, representing a major research or creative project accomplished in collaboration with faculty mentors.

Honors Scholars attend special workshops on campus resources, study abroad & exchange programs, fellowship and other award opportunities, and graduate or professional school application procedures. Students are encouraged to participate with their colleagues in the Honors College Student Council and as active members of student organizations across campus. Through our institutional membership in the National Collegiate Honors Council, ETSU Honors Scholars are provided access to state, regional, and national council positions. Graduates from Honors Programs receive special regalia and designations on transcripts and diplomas.

All Honors Programs provide out-of-state tuition scholarships to all qualified students, and some programs also offer additional scholarship opportunities. All programs emphasize smaller classes, writing, discussion, hands-on learning approaches, problem-solving skills, and interdisciplinary content in special courses.

Consideration for selection in any Honors Program requires a special application (separate and in addition to ETSU Admissions application). Application for admission to ETSU must be submitted prior to submission of application to any honors program. Students in all Honors Programs must maintain good standing in their program by enrolling in a minimum of 15 credit hours each semester, meeting minimum GPA requirements (as required by each program), and completing a senior Honors Thesis; probationary status may be granted for one semester only before scholarship support is withdrawn. The deadline for application to Honors varies by program. See below for more information or visit our web site (<http://www.etsu.edu/honors>).

Honors-in-Discipline Programs

Honors programs in academic majors are currently offered in the following areas:

College of Business & Technology

College of Nursing

College of Arts and Sciences:

Department of Biological Sciences

Department of Chemistry

Department of Criminal Justice & Criminology

Department of English

Department of History

Department of Mathematics

Department of Philosophy and Humanities

Department of Physics and Astronomy

Department of Psychology

College of Education:

Teacher Education Program

Exercise Science Program

College of Public Health:

Department of Environmental Health

For more information about these programs, visit <http://etsu.edu/honors/university/discipline> and refer to descriptions and instructions provided in each of these academic areas within this catalog. New Honors-in-Discipline programs become available each year. Contact Professor Marcia Songer, Director of Honors-in-Discipline Programs, PO Box 70589, Johnson City, TN 37614-1701; (423) 439-7506 or 439-7507; email songerm@etsu.edu; or the Honors College (honorscollege@etsu.edu), PO Box 70589, Johnson City, TN 37614-1701; (423) 439-6076.

University Honors Scholars Program

The University Honors Scholars Program is a four-year program specially designed for outstanding students who enter ETSU as freshmen. The program is tailored to students who desire an interdisciplinary approach to general education, in addition to their chosen fields of interest. University Honors Scholars may major in any academic program available at ETSU. Each year, 22 exceptional high school students are invited to join the program. Full scholarships are provided (including tuition, fees, costs of standard dormitory and meal plans, and a book allowance) for four years, as long as the student remains in good standing with the program (see Academic Honors Programs section, above). Completion of an Honors Thesis is required. Students are required to reside on campus during their freshman and sophomore years in the program.

University Honors Scholars have unrestricted access to Honors House (914 W. Maple Street), with computer facilities, conference and meeting rooms, lounge, and study areas. Interested potential candidates are encouraged to visit Honors House and meet with the Director; see information below to make an appointment.

The special application required for the University Honors Scholars Program is available only from the University Honors Programs Office.

Minimum qualifications for consideration include a 29 ACT or 1280 SAT (Reading + Math only) and a high school GPA of 3.5 (4.0 scale). High school curriculum, a résumé (including extra-co-curricular activities and honors and awards), letters of recommendation, and a personal essay are considered in the application process. Scholarships are awarded on a competitive basis each year. The application deadline typically is the end of January for admission the following fall semester.

For more information about the University Honors Scholars Program, contact Dr. Michael Cody, Director of University Honors Programs, PO Box 70294, Johnson City, TN 37614-1701; (423) 439-6456; email codym@etsu.edu; or the Honors College (honorscollege@etsu.edu), PO Box 70589, Johnson City, TN 37614-1701; (423) 439-6076; or visit <http://www.etsu.edu/honors/university>.

Fine & Performing Scholars Program

The Fine & Performing Arts Scholars Program at ETSU provides a unique approach to educating our artists of the 21st century. This four-year program supports an interdisciplinary group of student artists who share their experiences of learning about art through their artistic endeavors, special interdisciplinary courses, and as a troupe of Roving Artists that bring artistry, in all its forms, to special projects across the campus and local community. Fine & Performing Arts Scholars have access to their own facility in Yoakley Hall, home of the Honors College, which provides project, study and lounge space, as well as access to computers and projection equipment.

Each year, a maximum of 25 students are selected for the program. A limited number of in-state scholarships (tuition and fees) are available on a competitive basis. Retention of scholarships for up to four years (8 regular semesters) depends on meeting retention requirements for good standing with the program (see Academic Honors Programs section above). Completion of an Honors Thesis is required.

Admission to the Fine & Performing Arts Scholars Program requires special application and submission of a portfolio to support evidence of artistry. Application and further information about the portfolio can be found on our web site, <http://www.etsu.edu/honors/arts>. Minimal qualifications for consideration include a 22 ACT or 1050 SAT (Reading + Math only) and a high school GPA of 2.8 (4.0 scale). High school

curriculum, a résumé, letters of recommendation, and a personal essay are considered in the application process. Scholarships are awarded on a competitive basis each year. The application deadline typically is March 15 for admission the following fall semester.

For more information, contact Professor Patrick Cronin, Director of Fine and Performing Arts Scholars Program, email croninp@etsu.edu; (423) 439-6513; or the Honors College (honorscollege@etsu.edu), PO Box 70589, Johnson City, TN 37614-1701; (423) 439-7507 or 439-6076.

Midway Scholars Program

The Midway Scholars Program at ETSU is designed specifically for exceptional students who wish to transfer to ETSU, either from a community college or another university. This two-year program supports transfer students in any major area of study offered at ETSU.

Each year, a maximum of 20 students are selected for this program. Each student receives a scholarship for four regular semesters, which includes in-state tuition and fees, a book allowance each semester, and a one-time award of \$2500 that may be applied toward a summer research fellowship, a study abroad experience, or an additional semester of study. Retention of scholarships requires that the student remain in good standing with the program (see Academic Honors Programs section, above). Completion of an Honors Thesis is required.

Admission to the Midway Scholars Program requires a special application available from the web site (see below). Qualifications for consideration include a minimum 3.5 GPA from the previous institution and either an Associate Degree or at least 30 earned credit hours. Selection is competitive and based on application information, including résumé, a personal essay, and letters of recommendation. Applicants without an Associate Degree also need to provide official high school transcripts and reports of ACT/SAT scholastic exams. The application and further information about the Midway Scholars program can be found on our web site, <http://www.etsu.edu/honors/university/midway>. The application deadline typically is March 15 for admission the following fall semester.

For more information about the Midway Scholars Program, contact Dr. Michael Cody, Director of University Honors Programs, PO Box 70294, Johnson City, TN 37614-1701; (423) 439-6456; email codym@etsu.edu; or the Honors College (honorscollege@etsu.edu), PO Box 70589, Johnson City, TN 37614-1701; (423) 439-6076.

College of Arts and Sciences
P.O. Box 70730 Phone: (423) 439-5671
Web address: <http://www.etsu.edu/cas/>

Learning is a lifelong process. Education in the liberal arts provides the means of discovering and using knowledge to elevate the standards of human existence today and in the future. Such study liberates the individual to become a more effective citizen.

The College of Arts and Sciences consists of the departments of Appalachian Studies; Art and Design; Biological Sciences; Chemistry; Communication; Criminal Justice and Criminology; English; Foreign Languages; Geosciences; History; Mathematics; Music; Philosophy and Humanities; Physics and Astronomy; Political Science; Psychology; Social Work; and Sociology and Anthropology, as well as the Centers of Excellence in Appalachian Studies and Services, Mathematics and Science Education (jointly administered with the College of Education) and Paleontology, and the ETSU and General Shale Brick Natural History Museum. Interdisciplinary studies are also offered in African and African American Studies; Environmental Studies; Film Studies; International Studies; Legal Studies; and Women's Studies.

The College of Arts and Sciences defines liberal education as including three major components: 1) the central elements of knowledge, 2) essential skills for analysis, communication, decision making, and lifelong learning, and 3) constructive orientation toward society. The college offers a well-rounded liberal education program which enhances students' ability to lead satisfying personal lives, prepares them for a wide range of professional careers, and provides the academic background necessary for graduate work or for elementary or secondary teaching. The college's curriculum introduces students to major fields of interest in the humanities and fine arts, the social sciences, and the natural sciences.

Central Elements of Knowledge

1. Students should recognize and appreciate central facts and concepts of history and culture.
2. Students should have a basic comprehension of the natural and physical world.
3. Students should develop the ability to analyze and to understand social groupings throughout the world. To achieve this capability, coursework is required in the arts, humanities, and social sciences.
4. Students should demonstrate understanding and application of methods of inquiry central to the natural and physical sciences.

Skills for Analysis, Communication, Decision Making, and Lifelong Learning

Arts and Sciences students learn how to learn and how to develop skills in expressing what they have acquired. College requirements aim to ensure that students read and analyze at an appropriate level. Students must speak and write clearly and effectively. The skills of spoken and written analysis, synthesis, and criticism are developed. Students are encouraged to conceptualize and to use abstract thought in order to enhance general understanding.

A Constructive Orientation Toward Society

Liberal education should benefit society by enhancing each individual's capacity to make informed and responsible choices. Individuals educated in this manner should develop behaviors that enhance the quality of life of those around them.

Graduate and Preprofessional Studies

The College of Arts and Sciences offers programs designed to prepare students for advanced studies and for professional schools. These preprofessional areas include Criminal Justice, concentrations in Advertising, Broadcasting, Journalism, and Public Relations (Department of Communication), Pre-Law, Pre-Engineering, and a variety of Health Professions.

Students following pre-professional programs in Criminal Justice or the Communication areas should consult an advisor in the appropriate department. Candidates for Pre-Law should contact the University Pre-Law Advisor in the Department of Political Science. Pre-Engineering students are advised through the Department of Mathematics. Pre-Pharmacy students should contact the appropriate advisor in the Department of Chemistry.

Medical Professions Advisement Program

The Medical Professions Advisement Program in the College of Arts and Sciences provides advisement to students entering East Tennessee State University in preparation for careers in health-related fields. Pre-Chiropractic, Pre-Dental, Pre-Medicine, Pre-Optometry, Pre-Osteopathic Medicine, Pre-Pharmacy, Pre-Physician Assistant, Pre-Podiatry and Pre-Veterinary Medicine are not undergraduate majors at East Tennessee State University; however, they are programs of study that prepare students to apply to professional programs. Many professional programs prefer/require students to attain an undergraduate degree before acceptance into them; therefore, the student, Medical Professions Advisor, and major advisor work in conjunction to complete necessary requirements for fulfillment of an undergraduate degree and prerequisite courses for the professional school of choice. Students are encouraged to choose majors in which they are interested. Questions concerning health-related programs of study should be directed to the Office of Medical Professions Advisement Program, P.O. Box 70592, East Tennessee State University, Johnson City, TN 37601, 423.439.5602.

B.A./B.S.—M.B.A. 3/2 Program

Well-qualified undergraduate students in the College of Arts and Sciences who are interested in pursuing a Master of Business Administration (M.B.A.) degree in a total of five years should consider the joint 3/2 program with the College of Business and Technology. Interested students should contact the Director of Graduate Programs in the College of Business and Technology (Room 214 Sam Wilson Hall, (423) 439-5314) for additional information.

Mary B. Martin School of the Arts

The Mary B. Martin School of the Arts was created in January 2009 with the purpose of providing a focal point and recognition for the arts at ETSU. The school was established following a generous endowment; it is named for Mary B. Martin, a life-long resident of Johnson City, patron of the arts, and graduate of ETSU (B.A., Chemistry, 1962).

The university acknowledges the quality of the arts on campus and the value of the arts for the community and the surrounding region. The broad heading of "the arts" at ETSU includes fine arts, visual arts, performing arts, literary arts, applied arts, and/or traditional arts. As the arts at ETSU are housed in different colleges, departments, and units, an organizational structure was needed to provide support, foster community collaborations, coordinate activities, and advocate for the arts. The Mary B. Martin School of the Arts will offer this structure.

The Mary B. Martin School of the Arts is housed within the College of Arts and Sciences; however, arts programs throughout the university are represented by the school. ETSU arts programs include the Department of Art and Design, including the Slocumb Galleries; the Department of Music, the Division of Theatre and Dance; and programs in Digital Media; Interior Design; Bluegrass, Old Time, and Country Music; Storytelling; Broadcasting; Film Studies; the Reece Museum; and the Fine and Performing Arts Scholars. Individual faculty teaching courses in other areas such as Creative Writing classes are also included.

Further information about the school is found at <http://www.etsu.edu/cas/arts/>.

COLLEGE OF ARTS AND SCIENCES B.A. AND B.S. DEGREE REQUIREMENTS

Students majoring in the College of Arts and Sciences must meet the following requirements for the Bachelor of Arts (B.A.), Bachelor of Science (B.S.), or the B.S. Concentration for Social and Behavioral Sciences. Some requirements must be taken in addition to the General Education Core, whereas others specify which courses from the General Education Core must be taken. Students interested in degree programs in Fine Arts (B.F.A.), Music (B.M.), or Social Work (B.S.W.) should consult the appropriate departmental section of this catalog for specific information.

Required Areas	Bachelor of Arts	Bachelor of Science	Bachelor of Science Concentration for Social and Behavioral Sciences
Foreign Languages	Completion of a foreign language course numbered 2020 or above with a grade of C- or better.* **	None	None
Non-U.S. History	3 credit hours	None	None
Mathematics	Specified General Education Core: MATH 1530 or MATH 1910	Specified General Education Core MATH 1530, MATH 1840, as minimum four (4) credit hours experience in Differential and Integral Calculus; Prerequisites are required for the following courses: MATH 1910 or MATH 1850	Specified General Education Core: MATH 1530
Natural Sciences General Education Core		<u>In addition</u> to General Education Core: Eight (8) credit hours in a SINGLE laboratory science from the following*: (1)ASTR 1010 and 1020 (2)BIOL 1010/11 and 1020/21 (3)BIOL 1110/11 and 1120/21 or BIOL 1130/31 (4)CHEM 1110/11 and 1120/21 (5)GEOL 1040 and 1050 (labs included) (6)GEOG 1110 and 1120 (labs included) (7)PHYS 2010/11 and 2020/21; or PHYS 2110 and 2120 * Higher level laboratory courses in these departments also meet this requirement.	Eight (8) credit hours in a SINGLE laboratory science from the following*: (1) ASTR 1010 and 1020 (2) BIOL 1010/11 and 1020/21 (3) BIOL 1110/11 and 1120/21 or BIOL 1130/31 (4) CHEM 1110/11 and 1120/21 (5) GEOL 1040 and 1050 (labs included) (6) GEOG 1110 and 1120 (labs included) (7) PHYS 2010/11 and 2020/21; or PHYS 2110 and 2120 * Higher level laboratory courses in these departments also meet this requirement.
Social and Behavioral Sciences General Education Core		General Education Core departmental requirements	<u>In addition</u> to General Education departmental requirements Three (3) courses; one (1) from each of the following areas: (1) Social Statistics: (a) PSYC 3100 (b) CJCR 3000 (c) SOAA 3350 (2) Reasoning: (a) PHIL 2030 (b) SPCH 2320 (3) Research Design (a) PSYC 3200/01 (b) CJCR 3010 (c) SOCI 3210 or SOAA 4627 (d) GEOG 2310 or 4807 (e) SPCH 3330

* International students whose native language is not English, and whose admission to ETSU requires them to take a standardized test of English as a foreign language (e.g., TOEFEL), may substitute scores that meet the admission requirements for the foreign language requirement.
 ** Consult the Foreign Language Department's placement policy listed at <http://www.etsu.edu/cas/language/students/placement.aspx>; and in the listing for Foreign Languages in this catalog.

African and African American Studies Program (AFAM)

Box 70672

Phone: (423) 439-6688

The African and African American Studies Program promotes the awareness and understanding of issues related to peoples of African descent. Drawing upon the broad resources of the university, the program offers and coordinates a variety of co-curricular and extracurricular activities. It encourages regular course offerings on both African and African American topics in a number of departments. A multidisciplinary faculty committee oversees the work of the program. An effort is made to consult with interested students to ensure that the activities and course offerings are responsive to students' needs.

Because of its great flexibility, the program serves as an attractive option for students in a wide variety of majors. In consultation with an African and African American Studies advisor, students may plan a course of study in the AFAM minor which will complement their majors, enhance their employment skills, and enrich the knowledge gained in their university studies.

African and African American Studies Minor

A minor in African and African American studies requires the completion of 21 hours of coursework, including the following:

African/African American Studies Minor	21 Credit Hours
HIST 3720 History of Africa	3
HIST 3900 African American History to 1877	3
HIST 3901 African American History Since 1877	3
SOAA 3110 Minorities	3
Approved Upper-Division Coursework*	9

** The additional (9) nine credit hours of upper-division coursework must be approved by an advisor. At least (3) three credit hours must be in African studies and (3) three credit hours must be in African American studies.*

Appropriate classes, including special topics and independent study courses, may be taken in any field; however, no courses counting toward the student's major may be counted toward satisfying the minor's requirements.

A Partial Listing of Courses in African and African American Studies

Course information below is listed in order of course number, course title, and credit hours.

African and African American Studies	12 Credit Hours
AFAM 3989 Cooperative Education	3
AFAM 3999 Cooperative Education	3
AFAM 4900 Special Studies	3
AFAM 4950 Senior Seminar	3
Art	3 Credit Hours
ARTA 4957 Special Topics on Survey of the Arts	3
	of Africa, Ocean, and the Americas
Criminal Justice and Criminology	3 Credit Hours
CJCR 4670 Race, Gender, and Crime	3
English	9 Credit Hours
ENGL 3400 Survey of African American Literature	3
ENGL 4032 African Literature	3
ENGL 4047/5047 Special Topics in African American Lit.	3
Geography	6 Credit Hours
GEOG 1012 Introduction to Cultural Geography	3
GEOG 4307 Regional Geography: Geography of Africa	3
History	12 Credit Hours
HIST 3720 History of Africa	3
HIST 3900 African American History to 1877	3
HIST 3901 African American History Since 1877	3
HIST 4727 Modern Africa	3
Music	3 Credit Hours
MUSC 2110 History of Jazz	3

Sociology and Anthropology	6 Credit Hours
SOCI 3110 Minorities	3
SOAA 4957 Special Topics: Any topic related to Africa or African Americans	3

Appalachian Studies Minor (APST)

Box 70556

423-439-6677 or 7865

Tess Lloyd

307 Burleson Hall
lloydt@etsu.edu

The Appalachian Studies Minor is an 18-hour, interdisciplinary program for students who would like to gain a greater appreciation for and understanding of the Appalachian region. No more than three credit hours taken as part of the Appalachian Studies Minor may be counted toward a major in any field.

The minor requires a core of 6 credit hours and 12 credit hours of guided electives. Because courses may be selected from several different departments, students are encouraged to meet with the Appalachian Studies Minor director for advisement regarding class sequences and frequency of offerings and to design a thematic course grouping that suits their personal interests. Students wishing to explore the Scottish and Irish heritage of the Appalachian region should consult with the program director (423) 439-7992 or 7865.

Core Requirements	6 Credit Hours
APST 2060 Introduction to Appalachian Studies	3
APST 4997 Current Issues in Appalachian Studies	3

Guided Electives (12 Credit Hours selected from the following):

APST 3530 Religion in Appalachia	3
APST 4177 Art and Appalachia	3
* APST 4237 Scots-Irish in Appalachia	3-6
* APST 4337 Appalachia in Scotland	3-6
APST 4567 Scottish Ethnology	3
APST 4907 Appalachian Foodways	3
BIOL 4247 Appalachian Flora (8 hrs. pre-requisites)	3
BIOL 4257 Appalachian Fauna (8 hrs. pre-requisites)	3
** BLUE Individual Instruction and Band Classes	1-3
** BLUE 3110 Introduction to Bluegrass Music	3
** BLUE 3120 Country Music Then and Now	3
** BLUE 4130 Survey of Contemporary Bluegrass	3
** BLUE 4147 Bluegrass and America's Music	3
** BLUE 4150 Roots of Bluegrass and Country Music	3
** BLUE 4167 Bluegrass-The First Generation	3
** BLUE 4230 Songwriting	1
ENGL 3065 Southern Appalachian Literature	3
ENGL 3650 American Folklore	3
ENGL 4137 Dialectology	3
ENGL 4217 Irish and Scottish Literature	3
ENVS 2010 The Natural Environment in Appalachia	3
GEOG 4077 Geography of Southern Appalachia	3
HIST 4167 History of Southern Appalachia	3
PSCI 4450 Appalachian Politics	3
ANTH 3500 Appalachian Folk Medicine	3
SOAA 4627 Ethnographic Field Work Techniques	3

NOTES:

* Between these two courses, no more than six hours can count toward the minor.
** No more than six credit hours of BLUE can count toward the minor.

Other seminars, independent studies, topics courses, and problems courses, including 4956 summer offerings, may be counted toward the minor when the topic is Appalachian (must have approval of the director of the APST advisor).

**Department of Art and Design
(ARTA) (ARTH)**

Box 70708

Phone: (423) 439-4247

ETSU is an accredited institutional member of the National Association of Schools of Art and Design. The Department of Art and Design holds membership in the College Art Association and other professional art organizations.

Mission Statement

The Department of Art and Design is committed to excellence in arts education, teaching students the technical, theoretical, critical, professional, and personal skills necessary to succeed in the visual arts. Achieving the highest quality of academic scholarship and creative research are priorities expected and supported. In service to our community, we seek to promote awareness of the social and cultural significance of the visual arts, within the university, for our region, and the world at large.

Undergraduate degrees that may be earned include the B.F.A. and B.A.. The B.F.A. is recommended for those students who wish to follow a professional career in the studio arts. The B.A. is available for students who wish to major in art history or studio art. Please see the programs listed below for more details.

Graduate degrees that may be earned include the M.F.A. and M.A.. The M.F.A. is the terminal degree in studio art for practicing artists and university or college teaching of art. The M.A. may be earned in art studio or art history. Please see the graduate catalog for more details.

An art major may specialize in one or more of the following areas: art history, painting, drawing, sculpture, printmaking, commercial art, graphic design, photography, ceramics, fibers, and jewelry and metalsmithing.

Studio art majors must take the following art courses during the freshman year:

Semester I	9 Credit Hours
ARTA 1110 2-D Design	3
ARTA 1201 Drawing	3
ARTH 2010 Art History Survey I	3

Semester II	9 Credit Hours
ARTA 1140 3-D Design	3
ARTA 1204 Color Theory	3
ARTH 2020 Art History Survey II	3

Art History majors must take the following art courses during the freshman year:

Semester I	6 Credit Hours
ARTA 1110 2-D Design	3
ARTH 2010 Art History Survey I	3

Semester II	6 Credit Hours
ARTA 1140 3-D Design	3
ARTH 2020 Art History Survey II	3

Transfer students should consult the chair of the Department of Art and Design concerning departmental limitations on transfer credit.

The BFA Degree

The professional undergraduate degree in the visual arts is the bachelor of fine arts degree. This degree allows the student to specialize in a particular area of art in order to prepare for a professional career. No grade of C- or less in art may be applied to the BFA major. No minor is required.

After 36 hours in art and before 45 hours in art have been completed, the BFA student must successfully complete ARTA 2916, "Works in Progress Review." The student must pass this review in order to enroll in the BFA capstone course, ARTA 4916, "Portfolio and Exhibition," and to graduate with a BFA degree in art.

Students in the BFA program should be aware that the final advanced study courses taken in the area of specialization should have as the primary goal the production of art work of exhibition quality and that examples of this work will be exhibited by the Department of Art and Design as

proof of the student's excellence in a required senior exhibit. A committee of three art faculty including the student's major advisor will review and evaluate each student's BFA exhibit.

**Bachelor of Fine Arts Degree (BFA)
Art Major (ABFA)**

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See *ETSU Academic Proficiency Requirements for details.*

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010 Critical Reading & Expository Writing	3
ENGL 1020 Critical Thinking & Argumentation	3
Communication: Oral Communication*	3
Mathematics*	3-4
Natural Science*	8
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Literature*	3
ARTH 2010 Art History I	3
Humanities*	3
Social/Behavioral Sciences*	6

*See the General Education Core Requirements for options.

Art Major Requirements 15 Credit Hours

ARTA 1201 Drawing Fundamentals	3
ARTA 1110 2-D Design	3
ARTA 1204 Color Theory	3
ARTA 1140 3-D Design	3
ARTH 2010 Art History Survey I	*
ARTH 2020 Art History Survey II	3

*Satisfies TBR General Education Core Requirement.

BFA Requirements 64 Credit Hours

Six 2000-level studio courses approved for area concentration 18	
Three 4000-level art history courses with one selected from either ARTH 4067 or ARTH 4077	9
ARTA 2916 Works in Progress Review (taken after 36 & before 45 ARTA credits)	0
Five 3000-level studio courses approved for area concentration	15
Six 4000-level studio courses approved for area concentration	18
One ARTA studio elective	1
ARTA 4916 Portfolio & Exhibit	3

Total Credit Hours Required for Degree... 120 Credit Hours

**Suggested Course Sequence
Freshman Year**

First Semester	Credit Hours
ENGL 1010 Critical Reading and Expository Writing	3
HIST 2010 The United States to 1877	3
ARTA 1201 Drawing Fundamentals	3
ARTA 1110 2-D Design	3
ARTH 2010 Art History Survey I	3
Semester Total	15
Second Semester	Credit Hours
ENGL 1020 Critical Thinking and Argumentation	3
HIST 2020 The United States Since 1877	3
ARTA 1204 Color Theory	3
ARTA 1140 3-D Design	3
ARTH 2020 Art History Survey II	3
Semester Total	15

Sophomore Year

First Semester	Credit Hours
Communication: Oral Communication	3
Mathematics	3-4
Social/Behavioral Sciences	3
2000-Level Studio Courses	9
Semester Total	18-19
Second Semester	Credit Hours
Natural Science	4
2000-Level Studio Courses	9
ARTH 4067 Twentieth Century Art or	
ARTH 4077 Contemporary Art	3
ARTA 2916 Works in Progress Review	0
Semester Total	16

Junior Year

First Semester	Credit Hours
Social/Behavioral Sciences	3
Literature	3
3000-Level Studio Courses	6
4000-Level Art History Course	3
Semester Total	15
Second Semester	Credit Hours
Humanities/Fine Arts Elective	3
3000-Level Studio Courses	9
Social/Behavioral Sciences	3
Semester Total	15

Note: For semesters of 9 upper-level studio courses, it is advisable to distribute some of these courses into the summer.

Senior Year

First Semester	Credit Hours
Natural Science	4
4000-Level Studio Courses	9
4000-Level Art History Courses	3
Semester Total	16
Second Semester	Credit Hours
4000-Level Studio Courses	9
ARTA Studio Elective	1
ARTA 4961 Portfolio Exhibition	3
Semester Total	13
Total	120

Each area of specialization has a list of required classes to be taken. The students must take 4916, "Portfolio and Exhibit," during the last semester of undergraduate work. The BFA program requires a total of approximately 120 credit hours.

It is essential that students work closely with their art advisors in selecting classes.

The B.A. Degree in Art History or Studio Art

The Department of Art and Design recommends this degree for those students interested in specializing in art history. The B.A. degree provides a solid liberal arts education with a specialization in art history. The student may continue toward the M.A. or Ph.D. in art history after earning a B.A. degree in art history.

The student may elect to pursue the B.A. degree in studio art. B.A. studio art students should select ARTH 4067 or 4077 as one of the 4000-level art history courses.

B.A. degree students in art history or studio art are encouraged to discuss career options carefully with an advisor. Selections of specific art courses and choice of minor may determine appropriate preparations for a number of careers in art and art-related fields. Consult with the department for assignment of appropriate advisor. It is essential that all students work closely with their advisors in selecting classes and the minor.

Students studying for a Bachelor of Arts (B.A.) degree shall be required to complete a foreign language course numbered 2020 or above with a grade of C- or better. Students must also complete one 3-credit Non-United States History course. (See the College of Arts and Sciences B.A. degree requirements.) French or German is recommended for art history students.

**Bachelor of Arts Degree (B.A.)
Art Major (ARTA)
Art History Concentration (HIST)**

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives. See ETSU Academic Proficiency Requirements for details.

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010 Critical Reading & Expository Writing	3
ENGL 1020 Critical Thinking & Argumentation	3
Communication: Oral Communication*	3
Mathematics*	8
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Literature*	3
ARTH 2010 Art History I	3
Humanities*	3
Social/Behavioral Sciences*	6

*See the General Education Core Requirements for options.

Bachelor of Arts Degree Requirements* 6 Credit Hours

Foreign Language	3
(See College of Arts and Sciences B.A. and B.S. Degree Requirements; consult the Foreign Language Department's placement policy at http://www.etsu.edu/cas/language/students/placement.aspx)	
Non-United States History	3

* The Mathematics requirement is fulfilled with the General Education Mathematics.

Art History Major Requirements 9 Credit Hours

ARTA 1110 2-D Design	3
ARTA 1140 3-D Design	3
ARTH 2010 Art History I	*
ARTH 2020 Art History II	3

* Satisfies TBR General Education Core Requirement.

Art History Concentration Requirements 27 Credit Hours

One studio course at 3000 or above	3
(ARTA 2401 recommended to fulfill UIT)	
Eight 4000-level Art History courses	24

* PHIL 4507, "Philosophy of Art," will count as an art history course. No other course in another department will substitute for art history courses without permission from all art history faculty. No more than one course from another department will substitute for an art history course.

Minor Requirements 18-24 Credit Hours

Electives	10-19 Credit Hours
Total Hours Required for Degree	120 Credit Hours

**Suggested Course Sequence
Freshman Year**

First Semester	Credit Hours
ENGL 1010 Critical Reading and Expository Writing	3
Communication: Oral Communication	3
Minor or Elective	3
ARTA 1110 2-D Design	3
ARTH 2010 Art History Survey I	3
Semester Total	15
Second Semester	Credit Hours
ENGL 1020 Critical Thinking and Argumentation	3
Humanities/Fine Arts Elective	3
Minor or Elective	3
ARTA 1140 3-D Design	3
ARTH 2020 Art History Survey II	3
Semester Total	15

Sophomore Year

First Semester	Credit Hours
Social/Behavioral Sciences	3
Language Requirement 2XXX or above	3
2000-Level or above Studio Course	3
4000-Level Art History Courses	3
Minor or Elective	3
Semester Total	15
Second Semester	Credit Hours
Natural Science	4
Language Requirement 2XXX or above	3
Minor or Elective	3
4000-Level Art History Course	3
Literature	3
Semester Total	16

Junior Year		
First Semester		Credit Hours
Mathematics	3-4	
4000-Level Art History Course	3	
HIST 2010 The United States to 1877	3	
Minor or Elective	6	
Semester Total	15-16	
Second Semester		Credit Hours
Social/Behavioral Sciences	3	
HIST 2020 The United States Since 1877	3	
Minor or Elective	6	
4000-Level Art History Course	3	
Semester Total	18	
Senior Year		
First Semester		Credit Hours
Non-United States History	3	
4000-Level Art History Courses	6	
Minor or Elective	7	
Semester Total	16	
Second Semester		Credit Hours
Natural Science	4	
4000-Level Art History Course	6	
Minor or Elective	3	
Semester Total	13	
Total	120	

The B.A. degree in art history requires a total of approximately 120 credit hours.

It is essential that students work closely with their advisors in selecting classes.

The B.A. studio art students should select ARTA 4067 or 4077 as one of the three 4000-level art history courses required.

The student will have elective hours available and should consult with the advisor about how best to utilize these hours. The B.A. degree in studio art requires a total of approximately 120 credit hours.

**Bachelor of Arts Degree (B.A.)
Art Major (ARTA)
Studio Art Concentration (STUO)**

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See *ETSU Academic Proficiency Requirements for details.*

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010 Critical Reading & Expository Writing	3
ENGL 1020 Critical Thinking & Argumentation	3
Communication: Oral Communication*	3
Mathematics*	3-4
Natural Science*	8
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Literature*	3
ARTH 2010 Art History I	3
Humanities*	3
Social/Behavioral Sciences*	6

*See the *General Education Core Requirements for options.*

Bachelor of Arts Degree Requirements* 6 Credit Hours

Foreign Language	3
(See College of Arts and Sciences B.A. and B.S. Degree Requirements; consult the Foreign Language Department's placement policy at http://www.etsu.edu/cas/language/students/placement.aspx)	
Non-United States History	3

*The Mathematics requirement is fulfilled with the General Education Mathematics.

Art Major Requirements 15 Credit Hours

ARTA 1201 Drawing Fundamentals	3
ARTA 1110 2-D Design	3
ARTA 1204 Color Theory	3
ARTA 1140 3-D Design	3
ARTH 2010 Art History I	*
ARTH 2020 Art History II	3

*Satisfies TBR General Education Core Requirement.

Studio Art Concentration Requirements 52 Credit Hours

Six 2000-level studio courses	18
Three 4000-level Art History courses with one selected from either ARTH 4067 or ARTH 4077	9
Eight 3000- and 4000-level studio courses	24
One ARTA Studio Elective	1
Electives	3 Credit Hours
Total Hours Required for Degree	120 Credit Hours

**Suggested Course Sequence
Freshman Year**

First Semester		Credit Hours
ENGL 1010 Critical Reading and Expository Writing		3
HIST 2010 The United States to 1877		3
ARTA 1201 Drawing Fundamentals		3
ARTA 1110 2-D Design		3
ARTH 2010 Art History Survey I		3
Semester Total		15
Second Semester		Credit Hours
ENGL 1020 Critical Thinking and Argumentation		3
HIST 2020 The United States Since 1877		3
ARTA 1204 Color Theory		3
ARTA 1140 3-D Design		3
ARTH 2020 Art History Survey II		3
Semester Total		15

Note: For semesters of 18 or more credit hours, it is advisable to distribute some of these courses, by taking them during the summer.

Sophomore Year

First Semester		Credit Hours
Communication: Oral Communication		3
Humanities/Literature		3
2000-Level Art Studio Courses		9
Semester Total		15
Second Semester		Credit Hours
Natural Science		4
2000-Level Studio Art Courses		9
Social/Behavioral Sciences		3
Semester Total		16

Junior Year

First Semester		Credit Hours
4000-Level Art History Course		3
3000 and 4000 Level Studio Art Course		6
Humanities Elective		3
Elective		3
Semester Total		15
Second Semester		Credit Hours
Social/Behavioral Sciences		3
ARTH 4067 Twentieth Century Art		3
or		3
ARTH 4077 Contemporary Art		3
3000- and 4000-Level Studio Art Courses		7
Non-United States History		3
Semester Total		16

Senior Year

First Semester		Credit Hours
3000- and 4000-Level Studio Art Courses		6
4000-Level Art History Course		3
Language Requirement in Same Language 2XXX or above		3
Mathematics		3-4
Semester Total		15-16
Second Semester		Credit Hours
3000- and 4000-Level Studio Art Courses		6
Language Requirement in Same Language 2XXX or above		3
Natural Science		4
Semester Total		13
Total		120

**Bachelor of Arts Degree (B.A.)
Art Major (ARTA)
Studio Art Concentration (STUO)
with non-art minor**

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See *ETSU Academic Proficiency Requirements* for details.

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010	Critical Reading & Expository Writing	3
ENGL 1020	Critical Thinking & Argumentation	3
	Communication: Oral Communication*	3
	Mathematics*	3-4
	Natural Science*	8
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
	Literature*	3
ARTH 2010	Art History I	3
	Humanities*	3
	Social/Behavioral Sciences*	6

*See the General Education Core Requirements for options.

Bachelor of Arts Degree Requirements* 6 Credit Hours

Foreign Language	3
<small>(See College of Arts and Sciences B.A. and B.S. Degree Requirements; consult the Foreign Language Department's placement policy at http://www.etsu.edu/cas/language/students/placement.aspx)</small>	
Non-United States History	3

*The Mathematics requirement is fulfilled with the General Education Mathematics.

Art Major Requirements 15 Credit Hours

ARTA 1201	Drawing Fundamentals	3
ARTA 1110	2-D Design	3
ARTA 1204	Color Theory	3
ARTA 1140	3-D Design	3
ARTH 2010	Art History I	*
ARTH 2020	Art History II	3

*Satisfies TBR General Education Core Requirement.

Studio Art Concentration Requirements 34 Credit Hours

Four 2000-level studio courses	12
Two 4000-level Art History courses with one selected from either ARTH 4067 or ARTH 4077	6
Five 3000- and 4000-level studio courses	15
One ARTA Studio elective	1

Minor Requirement (Non-Art Area) 18-21 Credit Hours

Electives	0-3 Credit Hours
Total Hours Required for Degree	120 Credit Hours

**Suggested Course Sequence
Freshman Year**

First Semester	Credit Hours
ENGL 1010 Critical Reading and Expository Writing	3
HIST 2010 The United States to 1877	3
ARTA 1201 Drawing Fundamentals	3
ARTA 1110 2-D Design	3
ARTH 2010 Art History Survey I	3
Semester Total	15

Second Semester	Credit Hours
ENGL 1020 Critical Thinking and Argumentation	3
HIST 2020 The United States Since 1877	3
ARTA 1204 Color Theory	3
ARTA 1140 3-D Design	3
ARTH 2020 Art History Survey II	3
Semester Total	15

Note: For semesters of 18 or more credit hours, it is advisable to distribute some of these courses, by taking them during the summer.

Sophomore Year

First Semester	Credit Hours
Communication: Oral Communication	3
Social/Behavioral Sciences	3
2000-Level Studio Art Courses	6
Non-art minor course	3
Semester Total	15

Second Semester	Credit Hours
Natural Science	4
2000-Level Studio Art Course	3
Social/Behavioral Sciences	3
Non-art Minor course	3
Humanities/Fine Arts Elective	3
Semester Total	16

Junior Year

First Semester	Credit Hours
4000-Level Art History Course	3
3000- or 4000-Level Studio Art Course	3
Non-Art minor Course	3
Literature	3
Semester Total	15

Second Semester	Credit Hours
ARTH 4067 Twentieth Art or	3
ARTH 4077 Contemporary Art	3
3000- or 4000-Level Studio Art Courses	4
Non-Art minor Course	6
Non-United States History	3
Semester Total	16

Senior Year

First Semester	Credit Hours
3000- or 4000-Level Studio Art Course	3
Non-Art minor Course	6
Language Requirement in Same Language 2XXX or Above	3
Mathematics	3-4
Semester Total	15-16

Second Semester	Credit Hours
3000 or 4000 Level Studio Art Courses	6
Language Requirement in Same Language 2XXX or Above	3
Natural Science	4
Semester Total	13
Total	120

Minor in Art under the B.S. or B.A.

The minor in art may be taken in conjunction with a major in another department.

Art minor: Seven art courses selected in consultation with the chair of the Department of Art and Design for a total of 21 credit hours.

Graduate Study in Art

The Department of Art and Design also offers the master of fine arts and master of arts degrees. Further information on the program is contained in the Graduate Catalog.

Penland Courses

Students may earn East Tennessee State University credit by taking art courses at the Penland School of Crafts in Penland, N.C.

Penland School hosts renowned instructors for short-term (one- to eight-week) courses of study in the following areas: wood, surface design, fiber, iron, jewelry, printmaking, photography, paper, book arts, glass, design, drawing, clay, and "specials," which includes such topics as Arts Administration and Crafts Criticism.

For a catalog or information, call 828-765-2359 or write to:

Registrar
Penland School of Crafts
Penland, NC 38765

Department of Biological Sciences (BIOL)

Box 70703

Phone: (423) 439-4329

The Department of Biological Sciences offers a major in biology leading to the Bachelor of Science degree. The major is designed for students who plan to enter such professions as biology, biochemistry, science education, medicine, veterinary medicine, agriculture, conservation, and industry. Courses are also offered for students in other fields of study who desire to acquaint themselves with the phenomena of living organisms. The department also offers the Master of Science in biology degree. Further information on graduate programs is contained in the Graduate Catalog.

Biology Major

In addition to certain required science and math courses, the standard track in biology requires 36 credit hours of approved biology courses; a student choosing this major must also complete a minor in a different field

of study. An alternative concentration track in biology requires 50 credit hours of biology courses; a specialized alternative curricula that may be followed for a degree in biology; a biochemistry concentration (does not require an additional minor) and secondary biology education, which requires a minor in professional education.

Advising

Students are required to visit one of the following advisors at least once a semester:

Freshmen and sophomores in the Biology core courses Stacey Wild
 All courses above the core (Biology for Science Majors I, II, and III and General Genetics) must have a permit prior to registration.

- Biology Major** (Standard or Concentration)
 - (last name starts with A-M) J. Leonard Robertson
 - (last name starts with N-Z) Hugh Miller III
- Secondary Biology Ed.** J. Leonard Robertson
- Biology Honors Program** Lev Yampolsky
- Biochemistry Concentration** Hugh Miller III
- General Advising** Hugh Miller III,
 Michael Zavada

Credit for the following courses will not apply toward a major or minor in the department:

- BIOL 1000 Academic Advantage 2
- BIOL 1010/11 Biology for Non-Majors I/Lab 4
- BIOL 1020/21 Biology for Non-Majors II/Lab 4

**Bachelor of Science Degree (B.S.)
 Biology Major (BIOL)**

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.
 See *ETSU Academic Proficiency Requirements for details.*

TBR General Education Requirements 42 Credit Hours

- ENGL 1010 Critical Reading & Expository Writing 3
- ENGL 1020 Critical Thinking & Argumentation 3
- Communication: Oral Communication* 3
- MATH 1910 Calculus I 4
- CHEM 1110/11 General Chemistry I Lecture/Lab 4
- CHEM 1120/21 General Chemistry II Lecture/Lab 4
- HIST 2010 The United States to 1877 3
- HIST 2020 The United States Since 1877 3
- Literature* 3
- Fine Arts* 3
- Humanities* 3
- Social/Behavioral Sciences* 6

**See the General Education Core Requirements for options.*

Biology Major Requirements

Core Courses (to be completed prior to starting advanced courses):

- BIOL 1110/11 Biology for Science Majors I & Lab 4
- BIOL 1120/21 Biology for Science Majors II & Lab 4
- BIOL 1130/31 Biology for Science Majors III & Lab 4
- BIOL 3100 General Genetics 3

Advanced Biology Requirements

One course from each of the four menus listed below:

* Courses listed in more than one menu can only be used to satisfy ONE menu.

Note: Courses may be added to the Advanced Biology Menus with approval of the chair and/or the faculty. Check with your advisor or the chair for an up-to-date listing of menu courses.

Molecular Menu

(credit for the lecture and corresponding lab required):

- BIOL 3150/51 Cell Biology & Lab 5
- BIOL 4147/57 Biochemistry of Macromolecules and Lab 5
- BIOL 4167/77 Biochemistry of Metabolism and Lab 5
- BIOL 4597 Recombinant DNA Laboratory **and**
- BIOL 4647 Molecular Biology 6
- BIOL 4747 * Population Genetics 4

Organismal Menu:

- BIOL 3220 Comparative Anatomy 4
- BIOL 3230 Vertebrate Embryology 4
- BIOL 3260 Animal Physiology 4
- BIOL 3480 * General Entomology 4
- BIOL 4267 Plant Development 4
- BIOL 4277 Neurobiology 4
- BIOL 4357 Ethology 3
- BIOL 4487 * Paleobotany 4
- BIOL 4767 Plant Physiology 4

Population Menu:

- BIOL 3460 * Invertebrate Zoology 4
- BIOL 3350 Ecology 4
- BIOL 4337 Plant Systematics 4
- BIOL 4360 Evolution 3
- BIOL 4367 Systems Ecology 3
- BIOL 4737 Conservation Biology 4
- BIOL 4747 Population Genetics 4
- BIOL 4867 Marine Biology 4

Biodiversity Menu:

- BIOL 3410 Vertebrate Zoology 4
- BIOL 3420 Plant Biology 4
- BIOL 3460 * Invertebrate Zoology 4
- BIOL 3480 * General Entomology 4
- BIOL 4047 Ecological Field Trip 3
- BIOL 4247 Appalachian Flora 3
- BIOL 4257 Appalachian Fauna 3
- BIOL 4337 * Plant Systematics 4
- BIOL 4450 Bryophytes, Ferns, and Seed Plants 4
- BIOL 4477 Ornithology 4
- BIOL 4487 * Paleobotany 4
- HSCI 3320/21 General Microbiology Lecture/Lab 4

Four courses in Chemistry required:

- CHEM 1110/11 General Chemistry Lecture/Lab 4
- CHEM 1120/21 General Chemistry II Lecture/Lab 4
- CHEM 2010/11 Organic Chemistry I Lecture/Lab 5
- CHEM 2020/21 Organic Chemistry II Lecture/Lab 5

Two courses in Physics required:

- PHYS 2010/11 General Physics I – Noncalculus
- PHYS 2020/21 General Physics II – Noncalculus 8
- OR
- PHYS 2110/20 Technical Physics – Calculus based 10

Two courses in Math required:

- MATH 1530 Probability & Statistics or 3
- MATH 1910 Calculus I 4
- OR
- MATH 1910 Calculus I 4
- MATH 1920 Calculus II 4

Completion of one course in each menu usually leaves 2-4 credits needed. Students can choose any credit, including Independent Study and/or Research in Biology in Biological Sciences, to fulfill their additional credits needed for graduation.

Credit Hour Requirements

Total credit hours required for degree	120
Biology Major, standard track	36 credit hours
Additional required courses	25-28 credit hours
(excludes General Chemistry)	
General Education	42 credit hours
(includes General Chemistry)	
Minor (different program-up to)	14 credit hours
Total credit hours required for degree	120
Biology Major, concentration	50 credit hours
Additional required courses	25-28 credit hours
(excludes General Chemistry)	
General Education	42 credit hours
(includes General Chemistry)	
General Electives	up to 3 credit hours
Biology Minor Requirements	24 Credit Hours
BIOL 1110/11 Biology I Lecture/Lab	4
BIOL 1120/21 Biology II Lecture/Lab	4
BIOL 1130/31 Biology III Lecture/Lab	4
BIOL 3100 General Genetics	3
Advanced Biology Electives (choose from 4 Advanced Menus) ..	9

**Suggested Course Sequence
Freshman Year**

First Semester		Credit Hours
BIOL 1110/11	Biology for Science Majors Lecture I/Lab	4
CHEM 1110/11	General Chemistry Lecture I/Lab	4
ENGL 1010	Critical Reading and Expository Writing	3
MATH 1910	Calculus I	4
Semester Total		15
Second Semester		Credit Hours
BIOL 1120/21	Biology for Science Majors Lecture II/Lab	4
CHEM 1120/21	General Chemistry I Lecture/Lab	4
MATH 1530	Probability and Statistics	3
ENGL 1020	Critical Thinking and Argumentation	3
Communication: Oral Communication		3
Semester Total		17

Sophomore Year

First Semester		Credit Hours
BIOL 1130/31	Biology for Science Majors Lecture III/Lab4	4
CHEM 2010/11	Organic Chemistry Lecture I/Lab	5
PHYS 2010/11	General Physics Lecture I/Lab	4
Social/Behavioral Sciences		3
Semester Total		16
Second Semester		Credit Hours
BIOL 3100	General Genetics Lecture	3
CHEM 2020/21	Organic Chemistry II Lecture/Lab	5
PHYS 2020/21	General Physics Lecture/Lab II	4
Humanities/Fine Arts		3
Semester Total		15

Junior Year

First Semester		Credit Hours
Molecular Advanced Course		6
Minor Requirements or BIOL Electives		6
HIST 2010 The United States to 1877		3
Semester Total		15
Second Semester		Credit Hours
Organismal Advanced Course		4
Minor Requirements		6
Social/Behavioral Sciences		3
HIST 2020 The United States Since 1877		3
Semester Total		16

Senior Year

First Semester		Credit Hours
Biodiversity Advanced Course		4
Minor Requirements		3
Humanities/Fine Arts		3
Literature		3
Semester Total		13
Second Semester		Credit Hours
Population Advanced Course		4
BIOL Electives		3
Minor Requirements		3
General Electives* 3		3
Semester Total		13
Total		120

* The number of General Electives depends on Math and Physics courses selected.

**Bachelor of Science Degree (B.S.)
Biology Major
Biochemistry Concentration (BIOC)**

This is a joint program among the Departments of Biological Sciences and Chemistry (College of Arts and Sciences) and the department of Biochemistry (Quillen College of Medicine). The student may major in either biology or chemistry. The curriculum requires courses in both departments. The student should consult frequently with an advisor to ensure completion in a judicious manner. The Biology Advisor is Lee Pike; the Chemistry Advisor is Richard Kopp.

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

TBR General Education Requirements 42 Credit Hours

ENGL 1010	Critical Reading & Expository Writing	3
ENGL 1020	Critical Thinking & Argumentation	3
Communication: Oral Communication*	.....	3
MATH 1910	Calculus I	4
CHEM 1110/11	General Chemistry I Lecture/Lab	4
CHEM 1120/21	General Chemistry II Lecture/Lab	4
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature*	.....	3
Fine Arts*	.....	3
Humanities*	.....	3
Social/Behavioral Sciences*	.....	6

*See the General Education Core Requirements for options.

Additional Requirements 4 credit hours

MATH 1920	Calculus II	4
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Biochemistry Concentration

Requirements 65-68 Credit Hours

Chemistry courses required:

CHEM 1110/11	General Chemistry I Lecture/Lab	*
CHEM 1120/21	General Chemistry II Lecture/Lab	*
CHEM 2010/11	Organic Chemistry I Lecture/Lab	5
CHEM 2020/21	Organic Chemistry II Lecture/Lab	5
CHEM 2220/21	Quantitative Analysis Lecture/Lab	4
CHEM 3611	Introduction to Integrated Lab	2
CHEM 3710	Principles of Physical Chemistry or	
CHEM 3750	Physical Chemistry I	3

Two courses in Physics required:

PHYS 2010/11	General Physics I-Noncalculus and	
PHYS 2020/21	General Physics II-Noncalculus or	8
PHYS 2110/20	Technical Physics-Calculus Based	10

*Satisfies TBR General Education Core Requirement.

Core Requirements

(must be completed before taking advanced courses):

BIOL 1110/11	Biology for Science Majors I Lecture/Lab	4
BIOL 1120/21	Biology for Science Majors II Lecture/Lab	4
BIOL 1130/31	Biology for Science Majors III Lecture/Lab	4
BIOL 3100	General Genetics	3

Advanced Biology courses required:

BIOL 3141	Genetics Laboratory	2
BIOL 4147/57	Biochemistry of Macromolecules/Lab	5
BIOL 4167/77	Biochemistry of Metabolism/Lab	5

BIOL Advanced Biology Requirements (see below) 6-8
 BIOL Advanced Concentration Requirement 3-5
Advanced Concentration Requirements 3-5 Credit Hours
 The Biology Major with a Biochemistry Concentration must select one of the following courses:
 BIOL 3150/51 Cell Biology & Lab 5
 BIOL 4597 Recombinant DNA Laboratory 3
 BIOL 4647 Molecular Biology 3
 HSCI 3320/21 General Microbiology and Lab 4
 HSCI 3540 Immunology 3
 PHYS 3510 Biophysics 3

Biology Menu Requirements 6-8 Credit Hours
 Select at least one (1) course from two (2) of the following
 Advanced Biology areas (Organismal, Population, or Biodiversity):
 * Courses listed in more than one menu can only be used to satisfy ONE menu.
Note: Courses may be added to the Advanced Biology Menus with approval of the chair and/or the faculty. Check with your advisor or the chair for an up-to-date listing of menu courses.

Organismal Menu:
 BIOL 3220 Comparative Anatomy 4
 BIOL 3230 Vertebrate Embryology 4
 BIOL 3260 Animal Physiology 4
 BIOL 3680 * General Entomology 4
 BIOL 4267 Plant Development 4
 BIOL 4277 Neurobiology 4
 BIOL 4357 Ethology 3
 BIOL 4487 * Paleontology 4
 BIOL 4767 Plant Physiology 4

Population Menu:
 BIOL 3350 Ecology 4
 BIOL 3460 * Invertebrate Zoology 4
 BIOL 4337 Plant Systematics 4
 BIOL 4360 Evolution 3
 BIOL 4367 Systems Ecology 3
 BIOL 4737 Conservation Biology 4
 BIOL 4747 Population Genetics 4
 BIOL 4867 Marine Biology 4

Biodiversity Menu:
 BIOL 3410 Vertebrate Zoology 4
 BIOL 3420 Plant Biology 4
 BIOL 3460 Invertebrate Zoology 4
 BIOL 3480 General Entomology 4
 BIOL 4047 Ecological Field Trip 3
 BIOL 4247 Appalachian Flora 3
 BIOL 4257 Appalachian Fauna 3
 BIOL 4337 * Plant Systematics 4
 BIOL 4450 Bryophytes, Ferns, and Seed Plants 4
 BIOL 4477 Ornithology 4
 BIOL 4487 * Paleobotany 4
 HSCI 3320/21 General Microbiology Lecture/Lab 4

Credit Hour Requirements

Total Hours Required for Degree 120 Credit Hours
General Education 42
 (includes General Chemistry)
Math requirement 4 Credit Hours
Biochemistry Concentration 65-68 Credit Hours
 (excludes General Chemistry)
General Elective 6-9 Credit Hours

Program Options:

Biochemistry. Quillen College of Medicine. Approved students who have completed Biochemistry of Macromolecules (BIOL 4147) and Biochemistry of Metabolism (BIOL 4167) may enroll for one of the courses indicated below during their last semester of coursework.

BIOL 5010 Biomedical Science I, 3
 Molecular Organization of Cells
 BIOL 5020 Biomedical Science II, Gene Expression 3
 BIOL 5030 Biomedical Science III, Cellular Anatomy 3

Research. Research is strongly advised for students with good academic records, especially those planning advanced study. Research Orientation (BIOL 3992, 2 hours) is available in the sophomore year. The student should consult with an advisor concerning research opportunities. The following courses are recommended:

BIOL 3992 Research Orientation 2
 BIOC 4900 Special Problems in Biochemistry 2-5
 BIOL 4910 Research in Biology 1-4
 CHEM 4900 Research in Chemistry 1-2

Chemistry. Students may take Physical Chemistry I (CHEM 3750, 3 hours), rather than Principles of Physical chemistry (CHEM 3710, 3 hours).

The following additional chemistry courses are available:
 CHEM 3110 Descriptive Inorganic 3
 CHEM 3760 Physical Chemistry II 3
 CHEM 4200 Principles of Instrumental Analysis 3
 CHEM 4611, 21, or 31 Advanced Integrated Lab 2

**Suggested Course Sequence
 Freshman Year**

First Semester		Credit Hours
BIOL 1110/11	Biology I Lecture/Lab	4
CHEM 1110/11	General Chemistry I Lecture/Lab	4
MATH 1910	Calculus I	4
ENGL 1010	Critical Reading & Expository Writing	3
Semester Total		15

Second Semester		Credit Hours
BIOL 1120/21	Biology II Lecture/Lab	4
CHEM 1120/21	General Chemistry II Lecture/Lab	4
MATH 1920	Calculus II	4
ENGL 1020	Critical Thinking and Argumentation	3
Semester Total		15

Sophomore Year

First Semester		Credit Hours
BIOL 1130/31	Biology III Lecture/Lab	4
CHEM 2010/11	Organic Chemistry I Lecture/Lab	5
PHYS 2010/11	General Physics I Lecture/Lab	4
Communication: Oral Communication		3
Semester Total		16

Second Semester		Credit Hours
BIOL 3100/41	General Genetics Lecture/Lab	5
CHEM 2020/21	Organic Chemistry II Lecture/Lab	5
PHYS 2020/21	General Physics II Lecture/Lab	4
Literature		3
Semester Total		17

Junior Year

First Semester		Credit Hours
BIOL 4147/57	Biochemistry of Macromolecules/Lab	5
HIST 2010	The United States to 1877	3
Social/Behavioral Sciences		3
Advanced Biology Course		4
Semester Total		15

Second Semester		Credit Hours
BIOL 4167/77	Biochemistry of Metabolism/Lab	5
CHEM 2220/21	Quantitative Analysis Lecture/Lab	4
HIST 2020	The United States Since 1877	3
Humanities/Fine Arts		3
Semester Total		15

Senior Year

First Semester		Credit Hours
Advanced Biology Course		4
Social/Behavioral Sciences		3
General Elective		3
Biochemistry Concentration Requirement		5
Semester Total		15

Second Semester		Credit Hours
CHEM 3710	Principles of Physical Chemistry	3
CHEM 3611	Introduction to Integrated Lab	2
Humanities/Fine Arts		3
Biochemistry Concentration Requirement		4
Semester Total		12
Total		120

**SECONDARY BIOLOGY EDUCATION CURRICULUM
 Teacher Education**

Students interested in pursuing a teacher education program for certification as a science/biology teacher are asked to see both a biology advisor (J. Leonard Robertson) and professional advisors in the College of Education; Rebecca Loyd in the Office of Student Services, 321 Warf-Pickel or Jack Rhoton in Curriculum & Instruction. The number of required credit hours and course selection in biology varies slightly from the major identified above; however, students must select education as a minor.

Bluegrass, Old Time, and Country Music Minor (BLUE)

Box 70435

Phone: (423) 439-7072 or 7865

Raymond McLain

304 Memorial Hall (Brooks Gym)

The Bluegrass, Old Time, and Country Music Minor is a 21-hour program, consisting of an 18-hour core and three (3)-credit hours of guided electives chosen in consultation with the bluegrass advisor. The program is designed for those who wish to work toward a full-time or part-time career in music or for those with other career ambitions but who seek to enrich their lives through music. A student wishing to pursue a minor in bluegrass, old time, and country music needs to declare his or her intention at the earliest opportunity in order to facilitate planning.

Core Requirements 18 Credit Hours

Select from the following blocks:

Traditional Didactic Courses 6 Credit Hours

BLUE 2150	American Folk Music	3
BLUE 3110	Introduction to Bluegrass Music	3
BLUE 3120	Country Music Then and Now	3
BLUE 4130	Survey of Contemporary Bluegrass	3
BLUE 4147/5147	Bluegrass and America's Music	3
BLUE 4150	Roots of Bluegrass and Country Music	3
BLUE 4167/5167	Bluegrass—The First Generation	3

Practical Skills I 3 Credit Hours

BLUE 4210	Music Theory for Acoustic Players	3
BLUE 4220	Bluegrass Harmony Part Singing	3
MUSC 1410	Theory I	2
MUSC 1411	Aural Skills I	1

Practical Skills II 3 Credit Hours

BLUE 2240	Bluegrass Seminar I	1
BLUE 3240	Bluegrass Seminar II	1
BLUE 4230	Songwriting	1
BLUE 4240	Bluegrass Seminar III	1

Instrumental Skills 3 Credit Hours

BLUE 2310	Guitar I	1
BLUE 3320	Guitar II	1
BLUE 2400, 3400, 4400	Bluegrass Instrument Series	1

Performing Groups 3 Credit Hours

BLUE 2500, 3500, 4500	Bluegrass Band Series	1
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Guided Electives 3 Credit Hours

Any BLUE undergraduate course not counted in the 18-hour core or 1-3		
SPCH 2300	Public Speaking or	3
READ 4147	Basic Storytelling	1

Total Hours Required for the Minor 21 Credit Hours**Prerequisites and Corequisites****Prerequisites for Bluegrass Harmony Part Singing:**

BLUE 4210	Music Theory for Acoustic Players	or
MUSC 1400	Music Fundamentals	or
MUSC 1410	Theory I	or
MUSC 1411	Aural Skills I	

Corequisites : ALL students enrolled in a bluegrass band course are required to also enroll in the following:

- Individual instruction on at least one (1) instrument during each semester of band.
- Vocalists must take "Bluegrass Harmony Part Singing" at their earliest opportunity.
- "Bluegrass Seminar" at least one semester each year while enrolled in a band.

Department of Chemistry (CHEM)

Box 70695

Phone: (423) 439-4367

The Department of Chemistry offers a course of study leading to the Bachelor of Science degree that meets the needs of students who plan a career in chemistry, who plan to teach chemistry in secondary schools, or who need a strong chemistry background for their chosen fields. It offers four concentrations designed for different career goals, a minor, and a teacher education program.

Chemistry—This is the recommended concentration for preprofessional students and students preparing for chemically-oriented occupations. This concentration requires a minimum of 33 credit hours of study.

A minor is required with this concentration.

Bachelor of Science Degree (B.S.) Chemistry Major (CHEM) Chemistry Concentration (CHEM)

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See *ETSU Academic Proficiency Requirements for details*.

TBR General Education Requirements 42 Credit Hours

ENGL 1010	Critical Reading & Expository Writing	3
ENGL 1020	Critical Thinking & Argumentation	3
Communication:	Oral Communication*	3
MATH 1910	Calculus I**	4
CHEM 1110/11	General Chemistry I Lecture/Lab	4
CHEM 1120/21	General Chemistry II Lecture/Lab	4
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature*		3
Fine Arts*		3
Humanities*		3
Social/Behavioral Sciences*		6

* See the General Education Core Requirements for options.

** MATH 1840 or 1850 acceptable for Chemistry concentration.

Chemistry Concentration Requirements 25 Credit Hours

CHEM 1110/11	General Chemistry I Lecture/Lab	*
CHEM 1120/21	General Chemistry II Lecture/Lab	*
CHEM 2220/21	Quantitative Analysis	4
CHEM 2010/11	Organic Chemistry I Lecture/Lab	5
CHEM 2020/21	Organic Chemistry II Lecture/Lab	5
CHEM 3710	Principles of Physical Chemistry Lecture	
or		
CHEM 3750	Physical Chemistry	3
CHEM 3611	Introduction to Integrated Lab	2
Plus an additional six hours of upper division courses in the Chemistry Department 6		

*Satisfies TBR General Education Core Requirement.

Additional Required Courses 8 Credit Hours

PHYS 2010/11	General Physics Non-Calculus I	4
and		
PHYS 2020/21	General Physics Non-Calculus II	4
Minor Requirements 18-27 Credit Hours		
Electives 18-27 Credit Hours		
Total Hours Required for Degree 120 Credit Hours		

**Suggested Course Sequence
Freshman Year**

First Semester		Credit Hours
CHEM 1110/11	General Chemistry I Lecture/Lab	4
MATH 1910	Calculus I	4
ENGL 1010	Critical Reading & Expos. Writing	3
HIST 2010	The United States to 1877	3
Electives	.....	3
Semester Total		17
Second Semester		Credit Hours
CHEM 1120/21	General Chemistry II	4
ENGL 1020	Critical Thinking and Argumentation	3
HIST 2020	The United States Since 1877	3
Communication: Oral Communication	.....	3
Elective	.....	3
Semester Total		16

Sophomore Year

First Semester		Credit Hours
CHEM 2010/11	Organic Chemistry I Lecture/Lab	5
PHYS 2010/11	General Physics Non-Calc. I Lecture/Lab	4
Literature	.....	3
Minor Requirement	.....	3
Semester Total		15
Second Semester		Credit Hours
CHEM 2020/21	Organic Chemistry II Lecture/Lab	5
CHEM 2220/21	Quantitative Analysis Lecture/Lab	4
PHYS 2020/21	General Physics Non-Calc. II Lecture/Lab	4
Humanities/Fine Arts Elective	.....	3
Semester Total		16

Junior Year

First Semester		Credit Hours
CHEM 3750	Physical Chemistry I	3
CHEM 3611	Introductory Integrated Lab	2
Humanities/Fine Arts Elective	.....	3
Minor Requirement	.....	3
Electives	.....	4
Semester Total		15
Second Semester		Credit Hours
Upper Division Courses in Chemistry	.....	6
Social/Behavioral Sciences Elective	.....	3
Minor Requirement	.....	3
Electives	.....	3
Semester Total		15

Senior Year

First Semester		Credit Hours
Minor Requirement	.....	3
Social/Behavioral Sciences	.....	3
Minor Requirement	.....	3
Electives	.....	6
Semester Total		15
Second Semester		Credit Hours
Minor Requirement	.....	3
Electives	.....	8
Semester Total		11
Total		120

Chemistry Professional—This concentration is for those students who desire a rigorous study in chemistry but whose career goals do not require an American Chemical Society-approved curriculum. A minimum of 45 credit hours is required.

A minor is required with this concentration.

**Bachelor of Science Degree (B.S.)
Chemistry Major (CHEM)
Chemistry Professional Concentration (CPRO)**

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See *ETSU Academic Proficiency Requirements for details.*

TBR General Education Requirements 42 Credit Hours

ENGL 1010	Critical Reading & Expository Writing	3
ENGL 1020	Critical Thinking & Argumentation	3
Communication:	Oral Communication*	3
MATH 1910	Calculus I	4
CHEM 1110/11	General Chemistry I Lecture/Lab	4
CHEM 1120/21	General Chemistry II Lecture/Lab	4
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature*	.....	3
Fine Arts*	.....	3
Humanities*	.....	3
Social/Behavioral Sciences*	.....	6

**See the General Education Core Requirements for options.*

Chemistry Professional Requirements 37 Credit Hours

CHEM 1110/11	General Chemistry I Lecture/Lab	*
CHEM 1120/21	General Chemistry II Lecture/Lab	*
CHEM 2220/21	Quantitative Analysis	4
CHEM 3110	Descriptive Inorganic Chemistry	3
CHEM 2010/11	Organic Chemistry I Lecture/Lab	5
CHEM 2020/21	Organic Chemistry II Lecture/Lab	5
CHEM 3750	Physical Chemistry I	3
CHEM 3760	Physical Chemistry II	3
CHEM 3611	Introductory Integrated Laboratory	2
CHEM 4010	Seminar	2
CHEM 4110	Advanced Inorganic Chemistry	3
CHEM 4200	Principles of Instrumental Analysis	3

Two Labs, taken in any order, from the following

CHEM 4611	Advanced Integrated Lab-Dynamics	2
CHEM 4621	Advanced Integrated Lab-Structure	2
CHEM 4631	Advanced Integrated Lab-Analytical Tech	2

Also required 12-14 Credit Hours

MATH 1910	Calculus I	*
MATH 1920	Calculus II	4
PHYS 2010/11	General Physics Non-Calculus I and	
PHYS 2020/21	General Physics Non-Calculus II or	
PHYS 2110	Technical Physics IBCalculus Based and	
PHYS 2120	Technical Physics IIBCalculus Based	8-10

Minor Requirements 18-27 Credit Hours

Electives 0-11 Credit Hours

Total Hours Required for Degree 120 Credit Hours

**Satisfies TBR General Education Core Requirements.*

Additional work in mathematics and physics would be especially useful. In addition, two years of a foreign language is strongly encouraged for those students who expect to do graduate work in chemistry.

In order to have sufficient time for advanced courses in the senior year, students are strongly encouraged to consult with the chemistry department advisor each semester.

Suggested Course Sequence

Freshman Year

First Semester		Credit Hours
CHEM 1110/11	General Chemistry I Lecture/Lab	4
MATH 1910	Calculus I	4
ENGL 1010	Critical Reading and Expository Writing	3
Communication:	Oral Communication	3
HIST 2010	The United States to 1877	3
Semester Total		17
Second Semester		Credit Hours
CHEM 1120/21	General Chemistry II	4
MATH 1920	Calculus II	4
ENGL 1020	Critical Thinking and Argumentation	3
HIST 2020	The United States Since 1877	3
Semester Total		14

Sophomore Year

First Semester		Credit Hours
CHEM 2010/11	Organic I	5
PHYS 2010/11	Physics I	4
Literature	.....	3
Social/Behavioral Sciences	.....	3
Semester Total		15

Second Semester		Credit Hours
CHEM 2020/21	Organic Chemistry II	5
CHEM 2220/21	Quantitative Analysis	4
PHYS 2020/21	Physics II	4
Humanities/Fine Arts		3
Semester Total		16

Junior Year

First Semester		Credit Hours
CHEM 3110	Descriptive Inorganic Chemistry	3
CHEM 3750	Physical I	3
CHEM 3611	Introductory Integrated Lab	2
Humanities/Fine Arts		3
Minor Requirements		6
Semester Total		17

Second Semester		Credit Hours
CHEM 3760	Physical II	3
CHEM 4611	Advanced Integrated Lab-Dynamics	2
Social/Behavioral Sciences		3
Minor Requirements		6
Semester Total		14

Senior Year

First Semester		Credit Hours
CHEM 4200	Principles of Instrumental Analysis	3
CHEM 4621	Advanced Integrated Lab-Structure	2
Electives		3
Minor Requirements		6
Semester Total		14

Second Semester		Credit Hours
CHEM 4110	Advanced Inorganic Chemistry	3
CHEM 4631	Advanced Integrated Lab-Analytical Techniques	2
CHEM 4010	Seminar	2
Electives		6
Semester Total		13
Total		120

Significant deviations from this suggested schedule should be discussed with the chemistry advisor.

ACS-Approved Chemistry—This concentration is designed for students who intend to follow a career in the field of chemistry or who intend to enter a graduate program in this science. The curriculum is based on the recommendations of, and is approved by, the American Chemical Society (ACS). As such, it is subject to change upon notice from the ACS.

A minor is not required with this concentration.

Course Requirements

A minimum of 53 credit hours of study is required. These include all courses required in the chemistry professional concentration (including all three advanced integrated labs, 4611, 4621, and 4631 may be taken in any order) and “Biochemistry of Macromolecules” (BIOL 4147) or “Biochemistry of Metabolism” (BIOL 4167) (note these have a prerequisite of BIOL 1110/11). In addition, three credit hours must be selected from the list below. “Physical Chemistry” (CHEM 3750-60) is recommended or required as a prerequisite to these courses:

CHEM 4817	Intro Indus Chem	3
CHEM 4900	Research	1-3
CHEM 4957	Special Topics	3

Bachelor of Science Degree (B.S.)

Chemistry Major (CHEM)

ACS Chemistry Concentration (CACS)

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, “Using Information Technology,” during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

TBR General Education Requirements 42 Credit Hours

ENGL 1010	Critical Reading & Expository Writing	3
ENGL 1020	Critical Thinking & Argumentation	3
Communication:	Oral Communication*	3
MATH 1910	Calculus I	4
CHEM 1110/11	General Chemistry I Lecture/Lab	4
CHEM 1120/21	General Chemistry II Lecture/Lab	4
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature*		3
Fine Arts*		3
Humanities*		3
Social/Behavioral Sciences*		6

*See the General Education Core Requirements for options.

ACS Requirements 47 Credit Hours

CHEM 1110/11	General Chemistry I Lecture/Lab	*
CHEM 1120/21	General Chemistry II Lecture/Lab	*
CHEM 2220/21	Quantitative Analysis	4
CHEM 3110	Descriptive Inorganic Chemistry	3
CHEM 2010/11	Organic Chemistry I Lecture/Lab	5
CHEM 2020/21	Organic Chemistry II Lecture/Lab	5
CHEM 3750/60	Physical Chemistry	6
CHEM 3611	Introductory Integrated Laboratory	2
CHEM 4010	Seminar	2
CHEM 4110	Advanced Inorganic	3
CHEM 4200	Principles of Instrumental Analysis	3
CHEM 4611	Advanced Integrated Lab-Dynamics**	2
CHEM 4621	Advanced Integrated Lab-Structure**	2
CHEM 4631	Advanced Integrated Lab-Analy. Tech**	2
BIOL 4147/57	Biochemistry of Macromolecules Lecture/Lab or	
BIOL 4167/77	Biochemistry of Metabolism Lecture/Lab	5

Three (3) credit hours selected from the following:

CHEM 4817	Introduction to Industrial Chemistry	3
CHEM 4900	Research	1-3
CHEM 4957	Special Topics	3

* Satisfies TBR General Education Core Requirement.

** These labs may be taken in any order.

Also required 12-14 Credit Hours

MATH 1910	Calculus I	*
MATH 1920	Calculus II	4
PHYS 2010/11	General Physics Non-Calculus I and	
PHYS 2020/21	General Physics Non-Calculus II or	
PHYS 2110	Technical Physics I-Calculus Based and	
PHYS 2120	Technical Physics II-Calculus Based	8-10

*Satisfies TBR General Education Core Requirement.

Electives 17-19 Credit Hours

Total Hours Required for Degree 120 Credit Hours

Suggested Course Sequence

Freshman Year

First Semester	Credit Hours	
CHEM 1110/11	General Chemistry I Lecture/Lab	4
MATH 1910	Calculus I	4
ENGL 1010	Critical Reading & Expository Writing	3
Communication:	Oral Communication	3
HIST 2010	The United States to 1877	3
Semester Total		17

Second Semester	Credit Hours	
CHEM 1120/21	General Chemistry II	4
MATH 1920	Calculus II	4
ENGL 1020	Critical Thinking & Argumentation	3
HIST 2020	The United States Since 1877	3
Semester Total		14

Sophomore Year

First Semester	Credit Hours	
CHEM 2010/11	Organic I	5
PHYS 2010/11	Physics I	4
Literature		3
Social/Behavioral Sciences		3
Semester Total		15

Second Semester	Credit Hours	
CHEM 2020/21	Organic II	5
CHEM 2220/21	Quantitative Analysis	4
PHYS 2020/21	Physics II	4
Humanities/Fine Arts		3
Semester Total		16

Junior Year		
First Semester		Credit Hours
CHEM 3110	Descriptive Inorganic Chemistry	3
CHEM 3750	Physical I	3
CHEM 3611	Introductory Integrated Lab	2
Humanities/Fine Arts	.....	3
Electives	.....	6
Semester Total		17
Second Semester		Credit Hours
CHEM 3760	Physical II	3
CHEM 4611	Advanced Integrated Lab-Dynamics	2
Social/Behavioral Sciences	.....	3
Electives	.....	3
Three credit hours selected	.....	3
Semester Total		14
Senior Year		
First Semester		Credit Hours
CHEM 4200	Principles of Instrumental Analysis	3
CHEM 4621	Advanced Integrated Lab-Structure	2
Electives	.....	3
BIOL 4147/57	Biochem. of Macromolecules Lecture/Lab or	
BIOL 4167/77	Biochem. of Metabolism Lecture/Lab	5
Semester Total		13
Second Semester		Credit Hours
CHEM 4110	Advanced Inorganic Chemistry	3
CHEM 4631	Advanced Integrated Lab-Analytical Techniques	2
CHEM 4010	Seminar	2
Electives	.....	7
Semester Total		14
Total		120

Biochemistry Requirements			74-78 Credit Hours
BIOL 1110/11	Biology for Science Majors I/Lab		4
BIOL 1120/21	Biology for Science Majors II/Lab		4
BIOL 1130/31	Biology for Science Majors III/Lab		4
BIOL 3100	General Genetics		3
BIOL 3141	Genetics Laboratory		2
BIOL 4597	Recombinant DNA or		3
BIOL 4147/57	Biochemistry of Macromolecules and Lab		5
BIOL 4167/77	Biochemistry of Metabolism and Lab		5
CHEM 1110/11	General Chemistry I/Lab		*
CHEM 1120/21	General Chemistry II/Lab		*
CHEM 2010/11	Organic Chemistry I/Lab		5
CHEM 2020/21	Organic Chemistry II/Lab		5
CHEM 2220/21	Quantitative Analysis		4
CHEM 3110	Descriptive Inorganic Chemistry		3
CHEM 3611	Introduction to Integrated Lab		2
CHEM 3750	Physical Chemistry I		3
CHEM 3760	Physical Chemistry II		3
CHEM 4611	Advanced Integrated Lab-Dynamics **		2
CHEM 4621	Advanced Integrated Lab-Structure **		2
CHEM 4631	Adv. Integrated LabAnalytical Techniques ** ...		2
MATH 1910	Calculus I		*
MATH 1920	Calculus II		4
PHYS 2010/11	General Physics Non-Calculus I and		
PHYS 2020/21	General Physics Non-Calculus II or		
PHYS 2110	Technical Physics I-Calculus Based and		
PHYS 2120	Technical Physics II-Calculus Based		8-10

Biochemistry Concentration–This is a joint concentration with the Department of Biological Sciences (College of Arts and Sciences) and the Department of Biochemistry (Quillen College of Medicine). The students may major in either biology or chemistry, and coursework is required in both departments. The Chemistry Department's biochemistry concentration is approved by the American Chemical Society (ACS) and as such it is subject to change upon notice from the ACS. The student should consult frequently with an advisor to ensure completion in a judicious manner. The biology advisors are Dr. Lee Pike (pikel@etsu.edu) and Dr. Cecilia McIntosh (mcintosh@etsu.edu). The chemistry advisor is Dr. Richard Kopp (kopp@etsu.edu).

A minor is not required with this concentration.

**Bachelor of Science Degree (B.S.)
Chemistry Major (CHEM)
Biochemistry Concentration (BIOC)**

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See *ETSU Academic Proficiency Requirements for details.*

TBR General Education Requirements 42 Credit Hours

ENGL 1010	Critical Reading & Expository Writing	3
ENGL 1020	Critical Thinking & Argumentation	3
Communication:	Oral Communication*	3
MATH 1910	Calculus I	4
CHEM 1110/11	General Chemistry I Lecture/Lab	4
CHEM 1120/21	General Chemistry II Lecture/Lab	4
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature*	.....	3
Fine Arts*	.....	3
Humanities*	.....	3
Social/Behavioral Sciences*	.....	6

*See the General Education Core Requirements for options.

The chemistry major with a biochemistry concentration must select one (1) non-duplicated course from the following:

BIOL 3150/51	Cell Biology	5
BIOL 4647	Molecular Biology	3
BIOL 4597	Recombinant DNA Lab	3
HSCI 3320/21	General Microbiology	4
HSCI 3540	Immunology	3
PHYS 3510	Biophysics	3

Electives 0-54 Credit Hours
Total Hours Required for Degree 120 Credit Hours

Suggested Course Sequence		
Freshman Year		
First Semester		Credit Hours
BIOL 1110/11	Biology for Science Major I	4
CHEM 1110/11	General Chemistry I Lecture/Lab	4
MATH 1910	Calculus I	4
ENGL 1010	Critical Reading and Expository Writing	3
Semester Total		15
Second Semester		Credit Hours
BIOL 1120/21	Biology for Science Major II	4
CHEM 1120/21	General Chemistry II	4
MATH 1920	Calculus II	4
ENGL 1020	Critical Thinking and Argumentation	3
Communication:	Oral Communication	3
Semester Total		18
Sophomore Year		
First Semester		Credit Hours
BIOL 1130/31	Biology for Science Major III	4
CHEM 2010/11	Organic I	5
PHYS 2010/11	Physics I	4
Literature	.....	3
Semester Total		16
Second Semester		Credit Hours
CHEM 2020/2	Organic II	5
CHEM 2220/21	Quantitative Analysis	4
PHYS 2020/21	Physics II	4
Humanities/Fine Arts	.....	3
Semester Total		16
Junior Year		
First Semester		Credit Hours
BIOL 3100/41	General Genetics/Genetics Laboratory	5
CHEM 3750	Physical Chemistry I	3
CHEM 3611	Introductory Integrated Lab	2
HIST 2010	The United States to 1877	3
CHEM 3110	Descriptive Inorganic Chemistry	3
Semester Total		16
Second Semester		Credit Hours
CHEM 3760	Physical Chemistry II	3
CHEM 4611	Advanced Integrated Lab-Dynamics	2
HIST 2020	The United States Since 1877	3
Social/Behavioral Sciences	.....	3
Humanities/Fine Arts	.....	3
Semester Total		14

Senior Year

First Semester		Credit Hours
CHEM 4621	Advanced Integrated Lab-Structure	2
BIOL 4147/57	Biochem. of Macromolecules Lecture/Lab	5
	Social/Behavioral Sciences	3
	Electives	3
Semester Total		13
Second Semester		Credit Hours
BIOL 4167/77	Biochem. of Metabolism Lecture/Lab	5
CHEM 4631	Advanced Integrated Lab-Analytical Techniques	2
	Select one (1) non-duplicated course from the approved list	3
	Electives	2
Semester Total		12
Total		25

Additional coursework in chemistry is recommended.

Approved students may enroll in one of the following courses in the Department of Biochemistry (Quillen College of Medicine) during their last semester of coursework:

BIOC 5100	Protein Structure and Function	3
BIOC 5350	Molecular Immunology	3
BIOC 5600	Genetics and Molecular Biology	4
BIOC 5700	Macromolecular Interactions	3

A research experience is strongly advised for students with good academic records, especially those planning advanced study. The student should consult with an advisor concerning research opportunities. The following courses are recommended:

BIOL 3992	Research Orientation	2
BIOC 4900	Spec. Problems in Biochemistry	1-5
BIOL 4900	Independent Study	1-4
CHEM 4900	Research in Chemistry	1-3

Minor—The Chemistry Minor consists of a minimum of 26 credit hours of study: “General Chemistry” (1110-11 and 1120-21) for a total of eight hours; plus an 18-hour selection of basic courses (other than 1000 and 1030) offered by the Department of Chemistry.

Teacher Education—Students interested in pursuing a teacher education program for certification as a teacher are asked to see the area advisor in the Department of Chemistry AND the professional advisor in the Office of Student Services, 321 Warf-Pickel, College of Education. Please refer to the section on “Admission to Teacher Education” for basic admission requirements in the College of Education section of this catalog.

Pre-Teacher Education—Declaration of Intent—All ETSU students desiring to complete a teacher education or other public school licensure program (for initial licensure, add-on endorsement, or advanced study in education) must file a Declaration of Intent in the Office of Student Services, 321 Warf-Pickel Hall. The Declaration of Intent should be filed before 30 credit hours of coursework have been completed or, in the case of transfer and post-baccalaureate students, in the first semester at ETSU. Delay or failure to file the Declaration of Intent may result in incomplete advisement. Students who have not filed the Declaration of Intent will not be considered for admission to teacher education and may be ineligible to enroll in many professional education courses.

Professional Education Requirements for Secondary and K-12 Students—The professional education requirements for secondary and K-12 students are met by completing the minor in education (refer to the Education Minor section in this catalog for a list of required courses) and the professional semester (CUAI 4580, “Student Teaching”). Students are required to submit a professional portfolio for admission to teacher education.

Cooperative Education—The Department of Chemistry actively participates in the university’s cooperative education program. Positions are normally available for chemistry majors each semester at a number of industrial and government locations.

Graduate Study—The Department of Chemistry offers a major and minor in graduate study. Further information on graduate programs is contained in the Graduate Catalog.

Department of Communication

Box 70667

Phone: (423) 439-4491

Web address: www.etsu.edu/cas/comm

Accreditation by: Accrediting Council on Education in Journalism and Mass Communications

The Department of Communication has the following objectives: to provide professional preparation for persons seeking careers in communication, to provide leadership for professionals now engaged in the practice of communication, to provide preprofessional programs and supporting coursework for students completing programs in other fields, and to increase public understanding of the value of freedom of communication in a democratic society.

The Department of Communication offers a B.A./B.S. with a major in four mass communications concentrations: advertising, broadcasting (sequences in management, news and production/performance), journalism, and public relations.

In addition, the department offers degrees in both speech communication and B.A. in theatre. A sequence in teaching is offered for these majors.

A minor is required of all students.

For the baccalaureate degree, 120 credit hours of credit must be earned. In addition to meeting all department requirements, majors must meet the College of Arts and Sciences requirements for B.A. and B.S. degrees. Students earning the B.S. may select the social and behavioral sciences concentration.

Speech Communication—The speech communication major prepares students for work in a broad range of fields that require the ability to work with diverse populations and lead others, articulate ideas and arguments effectively, and critically analyze messages. The skills garnered from the speech major easily translate into careers in law, government, health administration, patient educator, family/patient advocate, social service, the ministry, public relations, sales, training and development, management, human resources, community liaison, customer relations, and the business world at large. Speech majors are natural candidates for work in social justice, civic engagement, and diversity/equality efforts. Students will develop their skills as rhetorical critics and social scientists in the study and understanding of human communication. The department also provides a teacher education major in speech communication that requires 33 credit hours and a teaching minor that requires 24 credit hours.

Theatre—The ETSU Division of Theatre produces four productions at two venues, plus at least one student-directed showcase production, per school year. In addition, the Division of Theatre, along with its community partners, produces a professional summer theatre company.

All auditions for ETSU Theatre productions are open to all students, faculty, staff, and community members. Academic credit may be earned for working on any ETSU main-stage or studio theatre productions. Those interested in performing or working as a stage manager can receive practicum credit. Those interested in technical theatre (construction and/or running crews) or design can receive Theatre Laboratory credit. In the summer, students can receive “Summer Theatre Performance” credit.

For more information, visit our web site at www.etsu.edu/theatre.

Mass Communications—The concentrations in advertising and broadcasting consist of prescribed sequences of 33 credit hours of coursework. The journalism and public relations concentrations require 36 credit hours in mass communications, and public relations also requires six credit hours in speech. In addition, public relations majors must take SPCH 2300 to satisfy the university core.

In the mass communications major, 80 credit hours must be completed outside of mass communications courses, and at least 65 of those 80 credit hours must be in traditional liberal arts subjects.

No more than 12 credit hours of transfer credit may be applied to the requirements in mass communications concentrations.

Specialized minors of 21 credit hours may be designed for individual students in advertising and broadcasting with the prior approval of the

department. The Journalism Minor consists of 24 credit hours of prescribed coursework. No minor is available in public relations.

Students must consult regularly with a departmental advisor to avoid problems in scheduling. For other problems, see one of the career advisors listed below.

Women's Studies—The department also houses the women's studies program. For more information, see the women's studies section in this catalog.

Sequence	Advisor
Advertising	Steve Marshall, D. J. Jessee
Broadcasting	Tom Headley, Tammy Hayes, Candy Bryant
Dance	Cara Harker
Journalism	Jack Mooney
Public Relations	John King
Speech	Wesley Buerkle
Theatre	Pat Cronin
Undecided	Dan Brown
Women's Studies	Amber Kinser

Communication Major (MCOM)

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study. Public Relations majors must choose SPCH 2300 as part of the university core.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See *ETSU Academic Proficiency Requirements for details.*

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
	Communication: Oral Communication*	3
	Mathematics*	3-4
	Natural Sciences*	8
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
	Literature*	3
	Fine Arts*	3
	Humanities*	3
	Social/Behavioral Sciences*	6

*See the General Education Core Requirements for options.

Communications Major Requirements 33-38 Credit Hours

B.S. Requirements 8 Credit Hours

Select MATH 1850 or 1910, including experience in the differential and integral calculus	*
8 credit hours of single laboratory science in addition to General Education Core Natural Science	8

*Satisfies TBR General Education Core Requirement.

OR

B.S. with a concentration in Social and Behavioral Sciences Requirements 12 Credit Hours

MATH 1530 Prob & Stats-Noncalculus	*
8 credit hours of single laboratory science	*
3 credit hours from each of the following areas:	12
(1) Social Statistics	
(2) Reasoning and Argumentation	
(3) Research Design for Social Science (subject to departmental restrictions)	

*Satisfies TBR General Education Core Requirement.

Bachelor of Arts Degree Requirements 9-10 Credit Hours

Select MATH 1530, 1840, or 1910	3-4
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Foreign Language	3
<small>(See College of Arts and Sciences B.A. and B.S. Degree Requirements; consult the Foreign Language Department's placement policy at http://www.etsu.edu/cas/language/students/placement.aspx)</small>	
Non-U.S. History	3

Minor	18-27 Credit Hours
Electives	4-23 Credit Hours
Total Hours Required for Degree	120 Credit Hours

Course Requirements for Mass Communications Majors

Advertising Concentration	33 Credit Hours	
MCOM 1030	Introduction to Mass Communications	3
ADVR 2070	Advertising Graphics	3
PUBR 2700	Introduction to Public Relations	3
ADVR 3240	Advertising Principles	3
ADVR 3250	Advertising Copy and Layout	3
ADVR 3270	Advertising Media Planning	3
ADVR 3750	Advertising Campaign Mgmt	3
MCOM 4037	Communications Law	3
ADVR 4080	Advertising Internship or Elective Approved by Advisor	3
ADVR 4250	Advertising Agency Mgmt	3

Select one of the following:

RTVF 2630	Writing for Radio/TV	3
RTVF 3602	Video/Film Techniques	3
RTVF 3661	Television Production	3

Broadcasting Concentration 33 Credit Hours

Broadcast Management Sequence

MCOM 1030	Intro. to Mass Communications	3
RTVF 2600	Survey of Broadcasting	3
RTVF 2604/4604	Radio/TV Laboratory	3
ADVR 3260	Radio/TV Advertising	3
RTVF 3651	Radio Production or Television Production	3
RTVF 3661	Television Production	3
RTVF 3671	Broadcast Programming	3
MCOM 4037	Communications Law	3
RTVF 4690	Broadcast Management	3
MCOM Electives approved by advisor	9	

OR

Broadcast News Sequence

MCOM 1030	Introduction to Mass Communications	3
RTVF 2600	Survey of Broadcasting	3
RTVF 3600	Radio/TV News	3
RTVF 3602	Video/Film Techniques	3
RTVF 3661	Television Production	3
MCOM 4037	Communications Law	3
RTVF 4600	Radio/TV Reporting and Editing	3
RTVF 4690	Broadcast Management	3
MCOM Electives approved by advisor	9	

OR

Broadcast Production/Performance Sequence

MCOM 1030	Intro. to Mass Communications	3
RTVF 2600	Survey of Broadcasting	3
RTVF 2604/4604	Radio/TV Laboratory	3
RTVF 2630	Writing for Radio/TV	3
RTVF 3602	Video/Film Techniques	3
RTVF 3640	Broadcast Performance	3
RTVF 3651	Radio Production	3
RTVF 3661	Television Production	3
MCOM 4037	Communications Law	3
RTVF 4690	Broadcast Management	3
MCOM Elective approved by advisor	3	

Journalism Concentration 36 Credit Hours

MCOM 1030	Intro. to Mass Communications	3
JOUR 2050	History and Issues of Journalism	3
JOUR 2120	Writing for Print Media I	3
JOUR 2130	Writing for Print Media II	3
JOUR 3130	In-Depth Reporting	3
JOUR 3150	Copy Editing	3
JOUR 3160	Newspaper Design	3
JOUR 3301	Photojournalism	3

MCOM 4037	Communications Law	3
JOUR 4107	Reporting Public Affairs	3
One of the following craft courses		
JOUR 3120	Opinion Writing	3
JOUR 3350	Advanced Photojournalism	3
JOUR 4080	Journalism Internship	3
JOUR 4957	Topics in Journalism	3
One of the following conceptual courses		
MCOM 3070	Mass Media and Society	3
MCOM 4040	Seminar in Mass Communications	3
Minor — Journalism Concentration		
JOUR 2050	History and Issues of Journalism	3
JOUR 2120	Writing for Print Media I	3
JOUR 2130	Writing for Print Media II	3
JOUR 3150	Copy Editing	3
JOUR 3160	Newspaper Design	3
MCOM 4037	Communications Law	3
Two of the following		
JOUR 3120	Opinion Writing	3
JOUR 3130	In-Depth Reporting	3
JOUR 3301	Photojournalism	3
JOUR 4107	Reporting Public Affairs	3
JOUR 4957	Topics in Journalism	3
Public Relations Concentration		
MCOM 1030	Intro. to Mass Communications	3
PUBR 2700	Introduction to Public Relations	3
JOUR 2120	Writing for Print Media I	3
PUBR 2770	Writing for Public Relations	3
RTVF 2630	Writing for Radio/TV	3
JOUR 3150	Copy Editing	3
ADVR 3240	Advertising Principles	3
RTVF 3602	Video/Film Techniques	3
PUBR 3770	Public Relations Publications	3
MCOM 4037	Communications Law	3
PUBR 4730	Public Relations Practices	3
PUBR 4080	Public Relations Internship	3
Additional courses required:		
SPCH 3390	Persuasion	3
SPCH 4357	Communication in Organizations or	3
SPCH 4346	Business & Professional Communication	3

Note: Public Relations majors must choose SPCH 2300 to satisfy the communication core component.

Speech Major (SPCH)

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives. See *ETSU Academic Proficiency Requirements for details.*

TBR General Education Requirements

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
Communication: Oral Communication*		
Mathematics*	.....	3-4
Natural Sciences*	.....	8
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature*	.....	3

Fine Arts*	.....	3
Humanities*	.....	3
Social/Behavioral Sciences*	.....	6

*See the General Education Core Requirements for options.

Note: Public Relations majors must choose SPCH 2300 to satisfy the Communication core component.

Speech Major Requirements

36-38 Credit Hours

B.S. Requirements

8 Credit Hours
 Select MATH 1850 or 1910, including experience in the differential and integral calculus

8 credit hours of single laboratory in addition to
 General Education Core Natural Science

*Satisfies TBR General Education Core Requirement.

OR

B.S. with a concentration in Social and Behavioral Sciences Requirements

12 Credit Hours

MATH 1530 Prob & Stats - Noncalculus

8 credit hours of single laboratory science

3 credit hours from each of the following areas:

- (1) Social Statistics
- (2) Reasoning and Argumentation
- (3) Research Design for Social Science

(subject to departmental restrictions)

- (4) Microcomputer Skills

*Satisfies TBR General Education Core Requirement.

B.A. Requirements

6 Credit Hours
 Select MATH 1530, 1840, or 1910

Foreign Language

(See College of Arts and Sciences B.A. and B.S. Degree Requirements; consult the Foreign Language Department's placement policy at <http://www.etsu.edu/cas/language/students/placement.aspx>)

1 course of Non-U.S. History

Minor Requirements

18-26 Credit Hours
Electives

8-20 Credit Hours
Total Hours Required for Degree

120 Credit Hours

Course Requirements for Speech Majors

Speech Concentration

36 Credit Hours
 Take the following:
 SPCH 2330 Communication Theory

3
One of the following research courses:
 SPCH 3300 Analysis and Criticism: Qualitative

3
 SPCH 3330 Communication Research: Quantitative

3
 SPCH 3340 Rhetorical Criticism

3
One of the following presentation courses:
 SPCH 3346 Speaking for Social Change

3
 SPCH 3380 Dynamics of Group Leadership

3
 SPCH 4346 Business and Professional Communication

3
One of the following diversity courses:
 SPCH 4200 Gender and Communication

3
 SPCH 4356 Intercultural Communication

3
 Approved Speech Diversity Elective

3
 The remaining 24 credit hours must come from SPCH courses of the student's choosing, at least 18 of which must be at the 3000 or 4000 level.

Please note, SPCH 1300 does not count toward the Speech major requirements.

Speech Concentration Teacher Education

Students interested in pursuing a teacher education program for certification as a speech communication teacher must consult regularly with two advisors—one in the College of Arts and Sciences AND one in the Office of Student Services, 321 Warf-Pickel Hall, College of Education.

Speech Minor Course Requirements

Seven speech courses (not including Speech 1300), selected in consultation with the Speech Division director and formally approved by the speech faculty, are required. Approval for the total of 21 credit hours must be obtained before 15 hours of coursework in speech have been completed.

**Suggested Curriculum Guide
Bachelor of Science Degree
Social and Behavioral Sciences Option
Freshman Year**

First Semester		Credit Hours
ENGL 1010	Critical Reading/Expository Writing	3
MATH 1530	Probability & Statistics	3
Science		4
Major Course		3
Communication: Oral Communication		3
Semester Total		16
Second Semester		Credit Hours
ENGL 1020	Critical Thinking/Argumentation	3
Science		4
Social Statistics Elective		3
HIST 2010	The United States to 1877	3
Major Course		3
Semester Total		16

Sophomore Year

First Semester		Credit Hours
Literature		3
HIST 2020	The United States Since 1877	3
Fine Arts		3
Reasoning & Argumentation		3
Major Course		3
Semester Total		15
Second Semester		Credit Hours
Social/Behavioral Sciences		3
Research Design		3
Humanities		3
Writing-Intensive		3
Major Course		3
Semester Total		15

Junior Year

First Semester		Credit Hours
Social/Behavioral Sciences		3
Writing-Intensive		3
Oral Communication Intensive		3
Using Information Technology Intensive		3
Major Course		3
Semester Total		15
Second Semester		Credit Hours
Writing-Intensive		3
Oral Communication Intensive		3
Using Information Technology Intensive		3
Microcomputer Skills Elective		3
Semester Total		12

Senior Year

First Semester		Credit Hours
Writing-Intensive		3
Minor Course		3
Major Course		3
Electives		4-7
Semester Total		13-16
Second Semester		Credit Hours
Minor Course		3
Major Course		3
Electives		3-9
Semester Total		8-15
Total		120

**Suggested Curriculum Guide
Bachelor of Science Degree
Freshman Year**

First Semester		Credit Hours
ENGL 1010	Critical Reading/Expository Writing	3
MATH 1910	Calculus I	4
Science		4
Major Course		3
Communication: Oral Communication		3
Semester Total		17
Second Semester		Credit Hours
ENGL 1020	Critical Thinking/Argumentation	3
Science		4
HIST 2010	The United States to 1877	3
Major Course		3
Semester Total		13

Sophomore Year

First Semester		Credit Hours
ENGL Literature		3
Science		4
HIST 2020	The United States Since 1877	3
Fine Arts		3
Major Course		3
Semester Total		16
Second Semester		Credit Hours
Science (See General Education Core)		4
Social/Behavioral Science		3
Humanities/Fine Arts Elective		3
Writing-Intensive		3
Major Course		3
Semester Total		16

Junior Year

First Semester		Credit Hours
Institutions & Society		3
Writing-Intensive		3
Oral Communication Intensive		3
Using Information Technology Intensive		3
Major Course		3
Semester Total		15
Second Semester		Credit Hours
Writing-Intensive		3
Oral Communication Intensive		3
Using Information Technology Intensive		3
Major Course		3
Semester Total		12

Senior Year

First Semester		Credit Hours
Writing-Intensive		3
Minor Courses		3-6
Major Courses		3-6
Electives		3-6
Semester Total		12-18
Second Semester		Credit Hours
Minor Courses		3-6
Major Courses		3-6
Electives		4-7
Semester Total		10-13
Total		120

**Suggested Curriculum Guide for the
Bachelor of Arts Degree
Freshman Year**

First Semester		Credit Hours
ENGL 1010	Critical Reading/Expository Writing	3
MATH 1530	Probability & Statistics	3
Foreign Language (2XXX)		3
Major Course		3
Communication: Oral Communication		3
Semester Total		15

Second Semester		Credit Hours
ENGL 1020	Critical Thinking/Argumentation	3
Science	(See General Education Core)	4
Foreign Language (2XXX)		3
HIST 2010	The United States to 1877	3
Major Course		3
Semester Total		16

Sophomore Year

First Semester		Credit Hours
Literature		3
HIST 2020	The United States Since 1877	3
Fine Arts		3
Science		4
Major Course		3
Semester Total		16

Second Semester		Credit Hours
Social/Behavioral Sciences		3
Non-United States History		3
Humanities		3
Writing-Intensive		3
Major Course		3
Semester Total		15

Junior Year

First Semester		Credit Hours
Social/Behavioral Sciences		3
Writing-Intensive		3
Oral Communication Intensive		3
Using Information Technology Intensive		3
Major Course		3
Semester Total		15

Second Semester		Credit Hours
Elective		3
Elective		3
Writing-Intensive		3
Communication: Oral Communication		3
Major Course		3
Semester Total		15

Senior Year

First Semester Credit Hours		
Writing-Intensive		3
Major, Minor, Electives		11
Semester Total		14
Second Semester		Credit Hours
Major, Minor, Electives		14
Semester Total		14
Total		120

Theatre Major (THEA) Speech Major (SPCH)

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See *ETSU Academic Proficiency Requirements for details.*

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
	Communication: Oral Communication*	3
	Mathematics*	3-4
	Natural Sciences*	8
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
	Literature*	3
	Fine Arts*	3
	Humanities*	3
	Social/Behavioral Sciences*	6

*See the General Education Core Requirements for options.

B.A. Requirements 6 Credit Hours

Select MATH 1530, 1840, or 1910	*
Foreign Language	3
<small>(See College of Arts and Sciences B.A. and B.S. Degree Requirements; consult the Foreign Language Department's placement policy at http://www.etsu.edu/cas/language/students/placement.aspx)</small>	
1 course of Non-US History	3

Minor 18-24

Electives 9-22 Credit Hours

Other credits 21-33

Total Hours Required for Degree 120 Credit Hours

All students are required to take a discipline-specific exit examination.

Theatre Major 36 Credit Hours

THEA 1520	Stagecraft	3
THEA 1530	Stagecraft II	3
THEA 2510	Acting I	3
THEA 2420	Theatre Design Basics	3
THEA 2530	Dramatic Structure	3

Six credit hours chosen from: 6

THEA 3520	Theatre History I	3
THEA 3525	Theatre History II	3
THEA 3535	Musical Theatre History	3

Four credit hours chosen from: 4

THEA 1800	Theatre Laboratory	1
THEA 2605	Theatre Practicum	1
THEA 2800	Theatre Laboratory	1
THEA 3800	Theatre Laboratory	1
THEA 4607	Theatre Practicum	1
THEA 4800	Theatre Laboratory	1

Eleven credit hours chosen from: 11

Any courses listed below or any course with a THEA prefix not included above.

MUSC 1040	Class Voice	3
DANC 2125	Jazz Dance	1
DANC 2150	Tap Dance	1
PHED 2230	Fencing	1
ENGL 3030	Drama	3
ENGL 4030	Modern Drama	3
ENGL 4200	Shakespeare and His Age	3
RTVF 3640	Broadcast Performance	3
STOR 4147	Basic Storytelling	3

Theatre Minor Course Requirements

Theatre Minor Requirements 21 Credit Hours

THEA 1520	Stagecraft I	3
THEA 1530	Stagecraft II	3
THEA 2510	Acting I	3
THEA 2530	Dramatic Structure	3

Three credit hours chosen from: 3

THEA 3520	Theatre History I	
THEA 3525	Theatre History II	
THEA 3535	Musical Theatre History	

Six credit hours chosen from: 6

THEA 1800	Theatre Laboratory	
THEA 2605	Theatre Practicum	
THEA 2800	Theatre Laboratory	
THEA 3800	Theatre Laboratory	
THEA 4607	Theatre Practicum	
THEA 4800	Theatre Laboratory	
THEA 2500	Creative Drama	
THEA 2525	Stage Makeup	
THEA 2540	Theatre Design Basics	
THEA 3330	Scenic Design	
THEA 3335	Lighting Design	
THEA 3345	Costume Design	
THEA 3400	Acting for the Camera I	
THEA 3530	Play Direction	
THEA 3435	Acting for the Camera II	
THEA 3500	Voice and Diction	
THEA 3510	Acting II	
THEA 3512	The Audition Process	
THEA 3515	Theatre Movement	
THEA 3625	Advanced Stage Makeup	
THEA 4417	Teaching Theatre Grades K-12	
THEA 4527	Advanced Scenographic Design	
THEA 4537	Advanced Play Direction	
THEA 4557	Playwriting	
THEA 4637	Theatre Management	
THEA 4647	Theatre Architecture and Design	
THEA 4707	Theatre Internship	
THEA 4857	Period Acting Styles	
THEA 4867	Summer Theatre Performance	
THEA 4900	Independent Studies	
THEA 4957	Special Topics in Theatre	
PHED 2125	Jazz Dance I	
PHED 2150	Tap Dance	
PHED 2230	Fencing	
ENGL 3030	Drama	
ENGL 4030	Modern Drama	
ENGL 4200	Shakespeare and His Age	
RTVF 3640	Broadcast Performance	
STOR 4147	Basic Storytelling	

Theatre Concentration Teacher Education

Students interested in pursuing a teacher education program for certification as a theatre teacher must consult regularly with two advisors—one in the College of Arts and Sciences and one in the Office of Student Services, 321 Warf-Pickel Hall, College of Education.

**Suggested Curriculum Guide
Bachelor of Arts Degree**

Freshman Year

First Semester	Credit Hours	
ENGL 1010	Critical Reading/Expository Writing	3
MATH 1530	Probability & Statistics	3
Foreign Language (2xxx)*		3
Communication: Oral Communication		3
THEA 1520	Stagecraft	3
Semester Total		15

Second Semester	Credit Hours	
ENGL 1020	Critical Thinking/Argumentation	3
Science		4
Foreign Language (2xxx)*		3
HIST 2010	The United States to 1877	3
THEA 1530	Stagecraft II	3
Semester Total		16

Sophomore Year

First Semester	Credit Hours
Minor/General Education Elective*	3
Science	4
Humanities/Fine Arts/Literature*	3
HIST 2020 The United States Since 1877	3
THEA 2530 Dramatic Structure (WI) or	3
THEA 2420 Theatre Design Basics (UIT)	
Semester Total	16
Second Semester	Credit Hours
Minor/General Education Elective*	3
Social/Behavioral Sciences*	3
Non-United States History Elective*	3
Humanities/Fine Arts/Literature*	3
THEA 2510 Acting I (OI)	3
Semester Total	15

Junior Year

First Semester	Credit Hours
Minor/General Education Elective* (WI)	3
Minor/General Education Elective* (OI)	3
Social/Behavioral Sciences*	3
THEA 2530 Dramatic Structure (WI) or	3
THEA 2420 Theatre Design Basics (UIT)	
THEA 2xxx or 3xxx Perform/Design Elective*	3
THEA 2800 Theatre Laboratory or	1
THEA 2605 Theatre Practicum	
Semester Total	16
Second Semester	Credit Hours
Minor/General Education Elective*	3
Minor/General Education Elective*	3
Minor/General Education Elective*	3
THEA 3xx Theatre History Elective* (WI)	
THEA 2605 Theatre Practicum or	1
THEA 3800 Theatre Laboratory	
Semester Total	16

Senior Year

First Semester	Credit Hours
Humanities/Fine Arts/Literature*	3
Minor/General Education Elective*	3
THEA 3xxx Theatre History Elective*	3
THEA 3xxx or 4xxx Perform/Design Elective	3
THEA 4607 Theatre Practicum or	1
THEA 4800 Theatre Laboratory	
Semester Total	13
Second Semester	Credit Hours
Minor/General Education Elective*	3
Minor/General Education Elective*	3
THEA 3xxx or 4xxx Perform/Design Elective	6
THEA 4607 Theatre Practicum or	1
THEA 4800 Theatre Laboratory	
Semester Total	13
Total	120

**Department of Criminal Justice and Criminology
(CJCR)**

Box 70555 Phone (423) 439-5346
Web Address: www.etsu.edu/crimjust

Program Objectives—The criminal justice and criminology program of East Tennessee State University seeks to accomplish four major objectives:

1. To develop a critical understanding of crime and the role and function of the criminal justice system in a democratic society.
2. To provide courses of instruction that complement the education received by students in related disciplines.
3. To prepare students for professional service in the criminal justice system.
4. To provide an opportunity for persons currently serving in criminal justice professions to advance their level of education.

The criminal justice and criminology curriculum is highly interdisciplinary, encompassing the study of law, the social and behavioral sciences, and other academic areas. Consistent with the above objectives, the curriculum seeks a careful balance of theoretical inquiry and applied knowledge and features a core curriculum that all majors are required to complete.

The Department of Criminal Justice and Criminology offers the Bachelor of Science degree in Criminal Justice and Criminology, the Bachelor of Arts degree in Criminal Justice and Criminology, and the Master of Arts degree in Criminal Justice and Criminology.

Departmental Honors Program

The Criminal Justice Honors-in-Discipline program will provide students with an additional opportunity to reach their full academic potential. Students who are accepted into the honors program will enroll in the same courses as other students, but will be required to complete extra assignments (e.g., papers, readings, projects) in their classes. Students will also be required to write a Senior Honors Thesis. Out-of-state tuition waivers will be available for students accepted into the program and some Academic Performance Scholarships may be available for Tennessee residents only.

The minimum requirements for application to the honors program are as follows:

Entering Freshmen:

High School GPA of 3.2 or a minimum ACT composite score of 25

Entering after Freshman year:

Overall GPA of 3.2, a Criminal Justice GPA of 3.5 and having earned no more than 60 credit hours

Transfer Students:

Overall GPA of 3.5

Students will also be asked to submit a personal statement and two letters of reference with their application. For further information or an application, please contact:

Dr. Wayne Gillespie, Director
Criminal Justice Honors-in-Discipline Program
Department of Criminal Justice and Criminology
Box 70555
Johnson City, TN 37614
(423) 439-4704

Criminal Justice and Criminology (CJCR)

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010 Critical Reading and Expository Writing	3
ENGL 1020 Critical Thinking and Argumentation	3
Communication: Oral Communication*	3
Mathematics*	3-4
Natural Sciences*	8
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Literature*	3
Fine Arts*	3
Humanities*	3
Social/Behavioral Sciences*	6

*See the General Education Core Requirements for options.

Criminal Justice and Criminology

Major Requirements 42 Credit Hours

B.S. Requirements 8 Credit Hours

- Select MATH 1850 or 1910, including experience in the differential and integral calculus *
- 8 credit hours of single laboratory science in addition to General Education Core Natural Science 8

**Satisfies TBR General Education Core Requirement.*
OR

B.S. with a concentration in Social and Behavioral Sciences Requirements 3 Credit Hours

- MATH 1530 Prob & Stats - Noncalculus *
- 8 credit hours of single laboratory science *
- 3 credit hours from each of the following areas: 3**
 - (1) Social Statistics
 - (2) Reasoning and Argumentation
 - (3) Research Design for Social Science (subject to departmental restrictions)

** Satisfies TBR General Education Core Requirement.
** Areas 1 and 3 satisfied in the major.*

B.A. Requirements 9-10 Credit Hours

- Select MATH 1530, 1840, or 1910 3-4
- Foreign Language 3
(See College of Arts and Sciences B.A. and B.S. Degree Requirements; consult the Foreign Language Department's placement policy at <http://www.etsu.edu/cas/language/students/placement.aspx>)

Non U.S. History 3

Minor 18-26 Credit Hours

Electives 0-19 Credit Hours

Total Hours Required for Degree 120 Credit Hours

**CRIMINAL JUSTICE AND CRIMINOLOGY
B.S./B.A. REQUIREMENTS**

1. Completion of General Education Core Requirements of the university and requirements of the College of Arts and Sciences B.A. or B.S. in social and behavioral sciences.

2. Completion of criminal justice and criminology core curriculum as follows:

CJCR 1100 Introduction to Criminal Justice	3
CJCR 2540 Criminal Law	3
CJCR 3000 Statistics for Criminal Justice and Criminology	3
CJCR 3010 Research Methods for Criminal Justice and Criminology	3
CJCR 3300 Criminal Justice Ethics	3
CJCR 3310 Criminology	3
CJCR 4680 Issues in Criminal Justice Policy and Criminology Research	3
TOTAL	21

3. Completion of 21 hours of selective CJCR elective courses: 21

4. Completion of a minor to be selected in consultation with the director of advising in the department.

Total hours required in major: 42

Other Requirements:

- a. Must complete a minimum of 27 hours at ETSU in the Department of Criminal Justice and Criminology.
- b. Must maintain a minimum grade point average of 2.50 in criminal justice and criminology coursework completed at ETSU.

No grade earned in a criminal justice and criminology major core course below a 2.0 (C) will be accepted.

**Suggested Course Sequence for
Criminal Justice & Criminology B.S. Majors
(Concentration for Social and Behavioral Sciences)**

Freshman Year

First Semester	Credit Hours
CJCR 1100 Introduction to Criminal Justice	3
ENGL 1010 Critical Reading and Expository Writing	3
MATH 1530 Probability & Statistics	3
Natural Science	4
HIST 2010 The United States to 1877	3
Semester Total	16

Second Semester	Credit Hours
ENGL 1020 Critical Thinking and Argumentation	3
Social/Behavioral Sciences	3
Natural Science	4
Communication: Oral Communication	3
HIST 2020 The United States Since 1877	3
Semester Total	16

Sophomore Year

First Semester	Credit Hours
CJCR 2540 Criminal Law	3
Literature	3
Fine Arts	3
Social/Behavioral Sciences	3
Elective	3
Semester Total	15

Second Semester	Credit Hours
CJCR 3300 Criminal Justice Ethics	3
CJCR 3310 Criminology	3
CJCR 3000 Statistics for Criminal Justice	3
Humanities/Fine Arts Elective	3
Elective	3
Semester Total	15

Junior Year

First Semester	Credit Hours
CJCR 3010 Research Methods for Criminal Justice & Criminology	3
Electives, Major and Minor courses	9
Elective	3
Semester Total	15

Second Semester	Credit Hours
Electives, Major and Minor courses	9
Oral/Written/Technology Intensive	6
Semester Total	15

Senior Year

First Semester	Credit Hours
CJCR 4680 Issues in CJ Policy & Criminology Res.	3
Electives, Major and Minor courses	12
Semester Total	15

Second Semester	Credit Hours
Electives, Major and Minor courses	13
Semester Total	13
Total	120

Minor in Criminal Justice and Criminology

Students minoring in criminal justice and criminology must complete 18 semester credit hours as follows:

CJCR 1100 Introduction to Criminal Justice	3
CJCR 2540 Criminal Law	3
CJCR 3310 Criminology	3
Electives in Criminal Justice and Criminology	9
(Six of the 9 hours must be at the 3000 or 4000 level.)	
TOTAL	18

Field Experience Program

Students majoring (B.S./B.A. degree) in criminal justice and criminology are encouraged to enroll in the field experience program during their senior year. The program is designed to integrate academic preparation with practice in the criminal justice system. Student interest in this program will be discussed with the director of undergraduate advisement in the course of general advisement. A limited number of positions are available.

Application for field experience should be made to the director of field experience during the spring semester. Selection is made by a faculty committee. It is offered during summer semesters only.

Department of English (ENGL)

Box 70683

Phone: (423) 439-4347

Web Address: www.etsu.edu/English

English is the study of human thought, feeling, and communication through the experience of literature, language, and writing. The study of English helps one to understand the human condition as it emerges in cultural contexts, to examine ideas, and to think and write clearly, critically, and effectively.

The Department of English offers programs leading to teaching careers, to further study at the graduate level, and to professions requiring a broad liberal education, such as law, public relations, and government service.

The department also offers a wide variety of electives for nonmajors seeking to diversify their educational programs.

Major—The English major consists of 36 credit hours above the freshman level. All English majors are expected to complete a minor in another area of study with no overlapping between the major and an interdisciplinary minor. English majors must meet requirements for the B.A. in the College of Arts and Sciences.

Nonteaching Majors—The major who does not seek teacher certification must complete at least 36 hours, as specified below:

**Bachelor of Arts Degree (B.A.)
English Major (ENGL)**

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, “Using Information Technology,” during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See *ETSU Academic Proficiency Requirements for details.*

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010 Critical Reading & Expository Writing	3
ENGL 1020 Critical Thinking & Argumentation	3
Communication: Oral Communication*	3
Mathematics*	3-4
Science*	8
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Literature*	3
Fine Arts*	3
Humanities*	3
Social/Behavioral Sciences*	6

*See the General Education Core Requirements for options.

Bachelor of Arts Degree Requirements* 6 Credit Hours

Foreign Language	3
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(See College of Arts and Sciences B.A. and B.S. Degree Requirements; consult the Foreign Language Department's placement policy at <http://www.etsu.edu/cas/language/students/placement.aspx>)

Non-United States History	3
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*The Mathematics requirement is fulfilled with the General Education Mathematics.

English Major Requirements 36 Credit Hours

ENGL 2110 or 2120 or 2210 or 2220* (3 hours satisfies Humanities/Literature) (or Honors Equivalent)	6
ENGL 2330 or 2430*	3
ENGL 3000-level courses (3)	9
ENGL 4000-level courses (2)	6
ENGL Electives (4 at 3000/4000 level)	12

Students may elect to complete a 12-hour Writing Emphasis or Language Emphasis in place of 12-hour general elective requirement in English.

* Must include 3 hours from ENGL 2110 or 2120 and 3 hours from 2210 or 2220. Remaining 3 hours may be taken from ENGL 2330 or 2430 if desired.

English majors should consult with the English Department's Director of Undergraduate Studies and their advisors to assure that their coursework fulfills departmental curricula.

- Credit from the 3000 level must include a genre course and either a language course or literary criticism.
- Credit from the 4000 level must include at least 3 hours from ENGL 4700 (Chaucer), 4690 (Milton), or 4200 (Shakespeare).
- Students may elect to complete a 12-hour Writing Emphasis or Language Emphasis in place of 12-hour general elective requirements in English

Departmental Honors—The department offers an Honors Program consisting of 18 credit hours of honors courses, including a senior thesis, which can become part of an English major or minor. Students may enter the Honors Program with a high school GPA of 3.2 and one of the following: ACT score of 25, an equivalent SAT, or an AP score of 4 in English. Transfers and students already enrolled at ETSU must meet slightly different criteria. Please contact the program director, Dr. Karen Kornweibel, at (423) 439-5996 or kornweib@etsu.edu for further information.

Teaching majors—The major who seeks teacher certification must complete at least 36 hours, as specified below. Thirty-three (33) credit hours must come from the following specified courses in English:

ENGL 2110 American Literature I
ENGL 2120 American Literature II
ENGL 2210 British Literature I
ENGL 2220 British Literature II
ENGL 2330 World Literature
or 2430 European Literature
ENGL 3010 Poetry
or 3020 Fiction
or 3030 Drama
or 3040 Literary Nonfiction
ENGL 3100 Introduction to Linguistics
or 3200 History of the English Language
or 4120 Descriptive Linguistics
or 4130 Social and Psychological Aspects of Language
ENGL 3130 Advanced Composition
or 4057 Writing: Theory and Teaching
ENGL 4077 Adolescent Literature
ENGL 4117 Grammar and Usage
ENGL 4200 Shakespeare and His Age

Three (3) English elective hours must be taken at the 3000 or 4000 level.

In addition to the 36-hour major, students seeking certification must complete the following courses for the Teacher Education Minor:

EDFN 2100 Orientation to the Profession of Teaching
EDFN 2300 Foundations for Teaching
EDFN 3301 Issues in Education
EDFN 3310 Educational Psychology
MEDA 3570 Instructional Technology
SPED 2300 Exceptional Learners in School
ENGL 4417 Teaching English in Secondary Schools
CUAI 4417 Secondary Curriculum and Methods
CUAI 4427 Secondary Curriculum and Methods Field Experience
READ 4437 Reading Instruction in Middle/Secondary School

Note: CUAI 4580 is also required for licensure. See the “General Education” and “Professional Education” requirements for Secondary and K-12 certification listed under the College of Education in this catalog.

Suggested Course Sequence

A typical program of study, leading to a major in English (with foreign language requirement for B.A.), a minor in history (for example), and completion of the General Education Core = 120 hours.

Freshman Year

First Semester	Credit Hours
ENGL 1010 Critical Reading and Expository Writing	3
HIST 2010 The United States to 1877	3
MATH 1530 Probability and Statistics	3
Science	4
Fine Arts	3
Semester Total	16

Second Semester	Credit Hours
ENGL 1020 Critical Thinking and Argumentation	3
HIST 2020 The United States Since 1877	3
Science	4
SOAA 1020 Introduction to Sociology	3
SPCH 2300 Public Speaking	3
Semester Total	16

Sophomore Year

First Semester	Credit Hours
ENGL 2110 American Literature I or	
ENGL 2120 American Literature II	3
ENGL 2430 European Literature or	
ENGL 2330 World Literature	3
FREN 1010 Beginning French I	3
PSYC 1310 Introduction to Psychology	3
HIST 1110 World History to 1500	3
Semester Total	15

Second Semester		Credit Hours
ENGL 2210	British Literature I or	
ENGL 2220	British Literature II	3
ENGL 3270	Literature of Popular Culture	3
HIST 1120	History Since 1500	3
FREN 1012	Beginning French II	3
Elective		3
Semester Total		15

Junior Year

First Semester		Credit Hours
ENGL 3010	Poetry	3
ENGL 3300	Literary Criticism	3
HIST 3720	History of Africa	3
FREN 2020	Second-Year French I	3
THEA 1030	Introduction to Theatre	3
Semester Total		15

Second Semester		Credit Hours
ENGL 3030	Drama	3
ENGL 3500	Women Authors	3
HIST 4230	Renaissance/Reformation	3
FREN 2020	Second-Year French II	3
GEOG 1120	Earth Science	4
Semester Total		16

Senior Year

First Semester		Credit Hours
ENGL 4200	Shakespeare	3
ENGL 4010	British Novel	3
PHIL 2020	Values and Society	3
HIST 4147	The Old South	3
HIST 4227	History of Rome	3
Semester Total		15

Second Semester		Credit Hours
ENGL 4022	American Poetry	3
ENGL 4012	American Novel	3
HIST 4197	Urban History	3
Elective		3
Semester Total		12
Total		120

Minor in English—The minor consists of 24 credit hours above the freshman level (except for ENGL 2030, not offered for credit toward a minor), at least 18 of which must be at the 3000 or 4000 level, with a minimum of nine (9) hours at the 4000 level.

Graduate Study—The Department of English also offers a master's degree. See the graduate catalog for further information.

Environmental Studies Minor (ENVS)

Box 70683

Phone: (423) 439-6679

Dr. Kevin O'Donnell, Director

313 Burselson Hall

www.etsu.edu/environmentalstudies/

Students in the Environmental Studies Minor will study the social, political, and ethical implications of environmental problems and solutions. This interdisciplinary minor combines perspectives from the natural and physical sciences with perspectives from the social sciences and humanities.

This minor emphasizes service-learning and field experience, and it offers a regional focus: A number of the courses focus on the environment in the Appalachian Region, within a national and global context.

The Environmental Studies Minor, combined with training in a traditional discipline, will help prepare students for graduate study and careers in business, public health, public policy and administration, environmental law, environmental writing, and more.

The Environmental Studies minor requires the completion of 21 hours of coursework as follows:

Environmental Studies Minor Requirements ..21 Credit Hours

ENVS 2010	The Natural Environment in Appalachia or	
ENVH 3010	Human Ecology and Environmental Education	3
ENVS 4950	Integrative Seminar in Environmental Studies	3
Electives	(including at least two courses from the Sciences and two from the Social Sciences/Humanities areas, below)	15

Electives 15 Credit Hours

Sciences (choose at least 2 courses from here)

BIOL 1110/11	Biology/Lab for Science Majors	4
BIOL 4047	Ecological Field Trip	3

BIOL 4247	Appalachian Flora	3
ENVH 3400	Introduction to Air Pollution	3
ENVH 4000	Public Health Law	3
GEOG 3040	Conservation of Natural Resources	3
GEOG 3120	Intro. to Geography of Southern Appalachia	3
GEOL 2040	Earth Systems and Global Change	4
GEOL 2050	Earth Resources	3
SCED 4020	Wildlife Conservation	3

Social Sciences/Humanities (choose at least 2 courses from here)

ENGL 3040	Literary Nonfiction	3
ENGL 3050	Literature and the Environment	3
GEOL 3481	Environmental Geology	3
MGMT 4657	Strategic Environmental Mgmt. in Business	3
MGMT 4667	Environmental Law for Business	3
PHIL 3140	Environmental Philosophy	3
PHIL 3160	Native American Thinking	3
PSCI 4450	Appalachian Politics	3
SALM 3110	Interpretation of Cultural & Natural Resources	3
SALM 3130	Natural Resource Management	3
SALM 3150	Regional Outdoor Leadership and Service	3
ANTH 3250	Environmental Anthropology	3
SRVL 1020	Intro. to Service-Learning in the Community	3

Note: ENGL 3040 and SRVL 1020 count towards the Environmental Studies minor only when the topic or project focuses on environmental issues.

Film Studies Minor (FILM)

Box 70683

Phone: (423) 439-6678

Web Address: www.etsu.edu/English

The Film Studies Minor seeks to educate students about film in an interdisciplinary context. The goals of this program are to encourage serious consideration of film as an art form; to explore film as a medium of communication; and to examine the power of film in shaping attitudes, values, and our understanding of society and the world.

Courses are designed to provide students with knowledge of the techniques of the filmmaking process, the historical development of film as an institution, film theory, methods of critical analysis, and the relationship of film to broader issues within various disciplines.

The Film Studies Minor requires 21 credit hours of coursework. A 12 credit hour core is required of all minors. Students may select 9 credit hours of elective courses to complete the minor course of study.

Required Core 12 Credit Hours

ENGL 3290	Introduction to Film Study	3
RTVF 2630	Writing for Radio TV	3
RTVF 3602	Video/Film Techniques	3
ENGL 4320	Film Criticism	3

Guided Electives (from the following)* 9 Credits Hours

ENGL 4290	Film Genres	3
ENGL 4507	Literature and Film	3
ENGL 4340	Topics in Film	3
SPAN 4117	Hispanic Cinema	3
CJCR 4026	Themes of Justice	3
PSCI 4957	Special Topics in Political Science whenever topic is "Politics and Film"	3
HIST 4957	Special Topics in History whenever topic is "History of Blacks on Film"	3
RTVF 4957	Topics in Broadcasting	2-6
RTVF 4680	Broadcast Practicum	2

Total Credit Hours Required for Minor 21 Credit Hours

Note: "Broadcast Practicum" may be elected by students with special interest in production and may be applied to any of the above disciplines. "Broadcast Practicum" counts above and beyond minor requirements. Can count as an elective.

With approval of the Film Studies Committee, additional special topics courses may be counted in the minor; however, no courses counting toward the student's major may be counted toward satisfying the minor's requirements.

**Department of Foreign Languages
(LANG)**

Box 70312

Phone: (423) 439-4264

The Department of Foreign Languages offers courses in Chinese,* French, German, Japanese, and Spanish designed to give the student a working knowledge of a language in the areas of reading, writing, listening and speaking, and to help create in students an appreciation and understanding of languages and cultures other than their own. In addition to the cultural objective and personal satisfaction, the student will find that foreign language study is an aid in scientific study, business, foreign trade, travel, and international politics.

**The department currently offers Chinese courses through the fourth semester (CHIN 1010, 1020, 2010, 2020.)*

Placement—Placement in the appropriate level of foreign language, for those students with prior language experience entering ETSU, will be determined pursuant to the published policy statement of the Department of Foreign Languages at ETSU. The statement is available on the departmental web site as well as from university offices such as the Advisement Resources Career Center. It is reprinted below:

**PLACEMENT POLICY
DEPARTMENT OF FOREIGN LANGUAGES**

1. Students entering ETSU and wishing to enroll in basic language courses will be placed according to their previous experience with the language. If, in the opinion of the instructor of the ETSU course for which the student has registered, the student cannot succeed in the course, the student may drop back to the previous level for audit only. Thus, if a student has been placed in Spanish 1020 and is experiencing severe difficulty with the course, the instructor may recommend that the student enroll in Spanish 1010 on a noncredit basis.
2. Our placement guidelines are as follows:
 - a. **ONE YEAR IN HIGH SCHOOL COMPLETED:** Registration in 1020 is mandatory, unless the student has taken the high school language course four years or more previously, or unless the student has received a grade lower than C- in the last course taken in the language.
 - b. **TWO YEARS IN HIGH SCHOOL COMPLETED:** Registration in 2010 is mandatory, unless the student has taken the high school language courses four or more years previously, or unless the student has received a grade lower than C- in the last course taken in the language.
 - c. **THREE YEARS IN HIGH SCHOOL COMPLETED:** Registration in 2020 is mandatory, unless the student has taken the high school language courses four years or more previously, or unless the student has received a grade lower than C- in the last course taken in the language.
 - d. **FOUR YEARS IN HIGH SCHOOL COMPLETED:** Students in this category have two options: (a) take one course taught in the target language at the 3000 or the 4000 level; (b) take the CLEP test and pass it with a sufficiently high score to receive four semesters of college credit. One of these options is mandatory, unless the student has taken the high school language courses four years or more previously, or unless the student has received a grade lower than C- in the last course taken in the language.

A minimum grade of C- (70%) is required in 1010, 1020, 2010, and 2020 to be able to take the next level of class in any foreign language. A student who gets any grade from D+ (69%) to F (59% and below) will have to retake that particular course in order to advance to the next level.

Laboratory Requirements—As part of the requirements for course credit for the 1000 and 2000 levels of foreign language study, students must complete online language laboratory work as assigned by instructor.

Foreign Students—International students whose native language is not English and whose admission to ETSU requires them to take a

standardized test of English as a foreign language (e.g., TOEFL) may substitute scores that meet the admissions requirements for the foreign language requirement.

Transfer Students—Students transferring to ETSU and wishing to receive a major or a minor in a foreign language must complete at least 12 hours of upper division courses for the major or nine hours of upper division courses for the minor at ETSU.

Graduate School Requirements—Preprofessional students and students who are contemplating graduate study are advised to check the catalogs of professional and graduate schools regarding foreign language reading requirements.

Graduate Study—The Department of Foreign Languages has been approved to offer graduate courses in French, German, and Spanish that may lead to 15 credit hours of concentration in French, German, or Spanish as part of a master of arts degree in secondary education. Further information on graduate programs is contained in the School of Graduate Studies catalog.

Teacher Education—Students interested in pursuing a teacher education program for certification as a foreign language teacher are asked to see their foreign language advisor in the College of Arts and Sciences AND their professional advisor in the Office of Student Services, 321 Warf-Pickel, College of Education.

Pre-Teacher Education—Declaration of Intent—All ETSU students desiring to complete a teacher education or other public school licensure program (for initial licensure, add-on endorsement, or advanced study in education) must file a Declaration of Intent in the Office of Student Services, 321 Warf-Pickel Hall. The Declaration of Intent should be filed before 30 credit hours of coursework have been completed or, in the case of transfer and post-baccalaureate students, in the first semester at ETSU. Delay or failure to file the Declaration of Intent may result in incomplete advisement. Students who have not filed the Declaration of Intent will not be considered for admission to teacher education and may be ineligible to enroll in many professional education courses.

Professional Education Requirements—There is a total of 36 credit hours required for Professional Education. Please refer to the Education Minor section in this catalog for a list of the required courses that must be taken with the professional semester.

Electives 16-25 Credit Hours

Students majoring in foreign languages who wish to fulfill teacher certification requirements must complete course LANG 4417, "Teaching Foreign Languages."

Several programs of study leading to the B.A. in foreign languages are available. The traditional major, with concentrations in French, German, or Spanish, emphasizes the liberal arts training needed in a variety of jobs. These include library or museum work, general business, and teaching. These curricula are designed to help prepare students for employment in fields where knowledge of a foreign language is of particular advantage. In addition to the General Education Core Requirements, there are degree requirements in the College of Arts and Sciences outlined in the earlier pages of this section.

Requirements for the different programs are as follows:

Traditional major in foreign languages, with concentrations in French, German, or Spanish - a minimum of 33 credit hours above the 1000 level, in the language of the concentration.

Coursework, as well as a portfolio, should be planned in consultation with the major advisor. Exit requirements for the major include the completed portfolio and the exit exam.

All foreign language majors also require a minor. Students may select a minor from a number of fields that will enhance their professional opportunities, such as business, communications, criminal justice, film studies, health education, history, international studies, political science, sociology, urban studies, or a second foreign language.

Languages

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See *ETSU Academic Proficiency Requirements for details.*

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
	Communication: Oral Communication*	3
	Mathematics*	3-4
	Natural Sciences*	8
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
	Literature*	3
	Fine Arts*	3
	Humanities*	3
	Social/Behavioral Sciences*	6

*See the General Education Core Requirements for options.

B.A. Requirements 6-7 Credit Hours

Select MATH 1530, 1840, or 1910	3-4
Select one non-US History course	3

Major 33 Credit Hours

Minor 18-27 Credit Hours

Total Hours Required for Degree 120 Credit Hours

CHINESE

CHIN 1010	Beginning Chinese I	3
CHIN 1020	Beginning Chinese II	3
CHIN 2010	Intermediate Chinese I	3
CHIN 2020	Intermediate Chinese II	3

FRENCH

Major and Minor Pre-requirements 6 Credit Hours

French 1010	Beginning French I	3
French 1020	Beginning French II	3

Major Requirements 33 Credit Hours

Minor Requirements 21 Credit Hours

Credit hours to be chosen from the following:

FREN 2010	Second Year French I	3
FREN 2020	Second Year French II	3
FREN 3010	French Conversation/Composition I	3
FREN 3110	French Conversation/Composition II	3
FREN 3210	Readings in French	3
FREN 3310	French Civilization	3
FREN 3510	French Literature before 1700	3
FREN 3610	French Literature after 1700	3
FREN 4017	Advanced French Grammar	3
FREN 4117	French Drama 1600-Present	3
FREN 4217	French Literature 16th Century	3
FREN 4317	French Literature 17th Century	3
FREN 4337	French Phonetics & Pronunciation	3
FREN 4417	French Literature 18th Century	3
FREN 4517	French Literature 19th Century	3
FREN 4617	French Literature 20th Century	3
FREN 4900	Special Studies in French	3
FREN 4957	Topics in French	3

In addition to the 33 credit hours, students wishing to be certified in French must complete the following methods course, counted as an education requirement:

LANG 4417	Teaching Foreign Languages	3
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GERMAN

Major and Minor Pre-requirements 6 Credit Hours

GERM 1010	Beginning German I	3
GERM 1020	Beginning German II	3

Major Requirements 33 Credit Hours

Minor Requirements 21 Credit Hours

Credit hours to be chosen from the following:

GERM 2010	Second Year German I	3
GERM 2020	Second Year German II	3
GERM 3121	German Conversation/Composition I	3
GERM 3141	German Conversation/Composition II	3
GERM 3011	German Literature I (before 1700)	3
GERM 3021	German Literature II (1700 to present)	3
GERM 3111	German Civilization	3
GERM 4121	20th Century German Literature	3
GERM 4137	The Age of Goethe	3
GERM 4147	The German Short Narrative	3
GERM 4157	Austrian Literature	3
GERM 4167	Advanced German Grammar	3
GERM 4901	Special Studies in German	3
GERM 4957	Topics in German	3

In addition to the 33 credit hours, students wishing to be certified in German must complete the following methods course, counted as an education requirement:

LANG 4417	Teaching Foreign Languages	3
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JAPANESE

Minor Pre-requirements 6 credit hours

JAPN 1010	Beginning Japanese I	3
JAPN 1020	Beginning Japanese II	3

Minor Requirements 21 credit hours

Required Core 18 credit hours

JAPN 2010	Second Year Japanese I	3
JAPN 2020	Second Year Japanese II	3
JAPN 3015	Japanese Conversation/Composition I	3
JAPN 3025	Japanese Conversation/Composition II	3
JAPN 4015	Advanced Japanese I	3
JAPN 4025	Advanced Japanese II	3

Guided Electives (one from the following) 3 credit hours

JAPN 4975	Topics in Japanese	3
HIST 3740	History of Asia	3
HIST 4707	East Asia Since 1900	3

SPANISH

Major Requirements 33 Credit Hours

Minor Requirements 21 Credit Hours

Credit hours to be chosen from the following:

SPAN 2010	Second Year Spanish I	3
SPAN 2020	Second Year Spanish II	3
SPAN 3003	Basic Spanish Grammar	3
SPAN 3033	Hispanic Readings and Composition	3
SPAN 3113	Spanish Conversation/Composition	3
SPAN 3123	Applied Spanish: Introduction to Translation	3
SPAN 3213	Spanish Phonetics & Pronunciation	3
SPAN 3313	Civilization of Spain	3
SPAN 3413	Civilization of Latin America	3
SPAN 3513	Survey of Spanish Literature	3
SPAN 3613	Survey of Spanish-American Literature	3
SPAN 3713	Hispanic Poetry	3
SPAN 4007	Golden Age Drama	3
SPAN 4017	Advanced Spanish Grammar I	3
SPAN 4027	Advanced Spanish Grammar II	3
SPAN 4107	Cervantes	3
SPAN 4117	Hispanic Cinema	3
SPAN 4127	Intro. to the Spanish-Speaking Community	3
SPAN 4137	Translation and Community Outreach	3
SPAN 4147	Interpretation and Community Outreach	3
SPAN 4207	Nineteenth-Century Spanish Literature	3

SPAN 4307	The Generation of '98	3
SPAN 4407	Twentieth-Century Spanish Literature	3
SPAN 4507	Spanish Short Story	3
SPAN 4607	Modernist Movement in Spanish America	3
SPAN 4707	Spanish-American Theatre	3
SPAN 4737	Art at the Prado Museum	3
SPAN 4807	Spanish-American Novel	3
SPAN 4903	Special Studies in Spanish	3
SPAN 4957	Topics in Spanish	3

In addition to the 33 credit hours, students wishing to be certified in Spanish must complete the following course, counted as an education requirement:

LANG 4417	Teaching Foreign Languages	3
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Applied Spanish: Community Studies Minor... 21 Credit Hours
Required Core..... 9 credit hours

SPAN 3123	Applied Spanish: Introduction to Translation	3
SPAN 4127	Applied Spanish: Introduction to the Spanish-Speaking Communities	3
SPAN 4137	Applied Spanish: Translation and Community Outreach OR	3
SPAN 4147	Applied Spanish: Interpretation and Community Outreach	3

Courses beyond the required courses are selected in consultation with the student's advisor, based on their relevance to the student's major.

Spanish Electives 9 credit hours

SPAN 2010	Second Year Spanish I	3
SPAN 2020	Second Year Spanish II	3
SPAN 3003	Basic Spanish Grammar	3
SPAN 3113	Spanish Conversation and Composition	3
SPAN 3413	Civilization of Latin America	3
SPAN 3613	Survey of Spanish-American Literature	3
SPAN 4117	Hispanic Cinema	3
SPAN 4137	Applied Spanish: Translation and Community Outreach	3
SPAN 4147	Applied Spanish: Interpretation and Community Outreach	3
SPAN 4607	Modernist Movement in Spanish America	3
SPAN 4903	Special Studies in Spanish	1-3
SPAN 4957	Special Topics in Spanish: Migrant Education Program I & II	3
SPAN 4957	Special Topics in Spanish: The Migrant Experience	3

Interdisciplinary Elective 3 credit hours

PSCI 3830	Government and Politics of Latin America	3
GEOG 4307	Regional Geography of Latin America	3
HDAL 2340	Understanding Cultural Diversity	3
HIST 4730	Latin America: Revolution and Nationalism	3
SOAA 3700	Peoples and Cultures of Latin America	3
FCNU 4907	International Primary Health Care Practicum (Health Science Division students only)	3
SOWK 1030	Cultural Diversity	3
PUBH 4030	Community Health	3

Suggested Course Sequence for the Bachelor of Arts with a Major in Language and a Concentration in Spanish, Minor in English

Freshman Year

First Semester		Credit Hours
Science		4
ENGL 1010	Critical Reading and Expository Writing	3
SPAN 1010	Beginning Spanish I	3
MATH 1530	Probability and Statistics	3
HIST 2010	The United States to 1877	3
Semester Total		16
Second Semester		Credit Hours
ENGL 1020	Critical Thinking and Argumentation	3
SPAN 1020	Beginning Spanish II	3
Science		4
HIST 2020	The United States Since 1877	3
Social/Behavioral Sciences		3
Semester Total		16

Sophomore Year

First Semester		Credit Hours
ENGL 2330	World Literature	3
SPAN 2010	Second Year Spanish I	3
Communication: Oral Communication		3
Fine Arts Elective		3
HIST 1110	World History to 1500	3
Semester Total		13
Second Semester		Credit Hours
ENGL 2130	American Literature	3
Humanities/Fine Arts Elective		3
SPAN 2020	Second Year Spanish II	3
Social/Behavioral Sciences		3
ENGL 3100	Introduction to Linguistics	3
Semester Total		15

Junior Year

First Semester		Credit Hours
ENGL 3xxx/4xxx Elective		3
ENGL 3xxx/4xxx Elective		3
SPAN 3003	Basic Spanish Grammar	3
SPAN 3033	Hispanic Readings and Composition	3
Elective		3
Semester Total		15
Second Semester		Credit Hours
ENGL 3xxx/4xxx Elective		3
SPAN 3313	Civilization of Spain	3
SPAN 3113	Spanish Composition and Conversation	3
SPAN 3613	Survey of Spanish-American Literature	3
Elective		1
Semester Total		13

Senior Year

First Semester		Credit Hours
ENGL 4xx	Elective	3
ENGL 4xx	Elective	3
SPAN 3213	Spanish Phonetics and Pronunciation	3
SPAN 3413	Civilization of Latin America	3
Elective		3
Semester Total		15
Second Semester		Credit Hours
ENGL 4xx		3
SPAN 4107	Cervantes	3
Elective		3
SPAN 3513	Survey of Spanish Literature	3
Elective		3
Semester Total		15
Total		120

Department of Geosciences (GEOG)(GEOL)

Box 70357 Phone: (423) 439-7516
315 Yoakley Hall FAX: (423) 439-7520

Geography

The Bachelor of Science (B.S.) program offers a major in geography. Geography is a multi-faceted discipline that embraces physical science, social science, and technology. Geographic inquiry is concerned with the spatial aspects and interrelationships within the earth's human and physical environments. The department offers a major in geography leading to the Bachelor of Science degree. A geography major will provide a student with an appropriate preparation to enter such professional areas as: location analysis, landscape analysis, cartography, remote sensing, government service, environmental intelligence, and elementary and secondary education. Coursework in geographic techniques (airphoto and map interpretation, cartography and remote sensing) also is of significant value to persons majoring in many related disciplines. The department major concentrations are in geography and geography education 7-12.

Bachelor of Science Degree (B.S.) Geography Major (GEOG)

ETSU Academic Proficiency Requirements:

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.
Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In additions, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives. See *ETSU Academic Proficiency Requirements for details.*

Major—A student majoring in geography must complete a minimum of 30 credit hours in geography.

TBR General Education Requirements 41-42 Credit Hours

Communication: Oral Communication*	3
ENGL 1010 Critical Reading and Expository Writing	3
ENGL 1020 Critical Thinking and Argumentation	3
Mathematics*	3-4
GEOG 1110 Earth Science: Weather and Climate	4
GEOG 1120 Earth Science: Landforms and Processes	4
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Literature*	3
Fine Arts*	3
Humanities*	3
GEOG 1012 Introduction to Cultural Geography	3
Social/Behavioral Sciences*	3

*See TBR General Education Core Requirements.

Geography Major Requirements 30 Credit Hours

Required Courses 15 Credit Hours

GEOG 1013 Intro. to World Regional Geography	3
GEOG 2110 Modern Geographic Concepts	3
GEOG 3210 Cartography	3
GEOG 4007 Geography of the United States	3
GEOG 4217 Geographic Information Systems	3

Select at least (15) fifteen hours from the following:

GEOG 3010 Econ. Geography-Manuf. & Svc. Industries	3
GEOG 3020 Economic Geo. Agri. & Extractive Industries	3
GEOG 3040 Conservation of Natural Resources	3
GEOG 3060 Geomorphology	4
GEOG 3090 Meteorology & Climatology	4
GEOG 3120 Intro. to Geography of Southern App	3
GEOG 3300 Political Geography	3
GEOG 4017 Advanced Cartography	3
GEOG 4077 Seminar in Geography of Southern App	3
GEOG 4107 Urban Geography and Planning	3
GEOG 4117 Resource Management	3
GEOG 4227 Remote Sensing	3
GEOG 4237 Advanced Remote Sensing	3
GEOG 4257 Geography of Soils	3
GEOG 4267 Hydrology	4
GEOG 4307 Regional Geography	3
GEOG 4317 Advanced Geographic Information Systems	3
GEOG 4807 Advanced Field Methods	3
GEOG 4907 Independent Study in Geography	1-3

*Satisfies TBR General Education Core Requirements.

Minor Requirements 18-26 Credit Hours

Electives 23-31 Credit Hours

Total Hours Required For Degree 120 Credit Hours

**Suggested Course Sequence
Freshman Year**

First Semester	Credit Hours
ENTC 1510 Student in University	3
GEOG 1110 Earth Science: Weather and Climate	4
ENGL 1010 Critical Reading and Expository Writing	3
HIST 2010 The United States to 1877	3
Communication: Oral Communication	3
Semester Total	16
Second Semester	Credit Hours
HIST 2020 The United States Since 1877	3
GEOG 1120 Earth Science: Landforms and Processes	4
ENGL 1020 Critical Thinking and Argumentation	3
MATH 1530 Probability & Statistics-Non-Calculus	3
GEOG 1012 Introduction to Cultural Geography	3
Semester Total	16

Sophomore Year

First Semester	Credit Hours
Humanities/Fine Arts	6
Minor	3
Social/Behavioral Sciences	3
Electives	3
Semester Total	15
Second Semester	Credit Hours
GEOG 1013 Introduction to World Regional Geography	3
GEOG 2110 Modern Geography Concepts	3
GEOG 3210 Cartography	3
Minor	3
Electives	3
Semester Total	15

Junior Year

First Semester	Credit Hours
GEOG 4217 Geographic Information Systems	3
Minor	3
Humanities/Fine Arts	3
Electives	3
GEOG XXXX	3
Semester Total	15
Second Semester	Credit Hours
GEOG 4007 Geography of the United States	3
Minor	3
Electives	3
GEOG XXXX	4
Semester Total	13

Senior Year

First Semester	Credit Hours
Minor	6
GEOG XXXX	3
Electives	6
Semester Total	15
Second Semester	Credit Hours
Minor	6
Electives	9
Semester Total	15
Total	120

Transfer Students

The department will approve a major program in geography only after 10 hours have been completed at the university with at least a C average. Courses in geography taken at another institution shall count toward a major or minor only if they directly parallel courses offered by this department.

Minor in Geography

A minor in geography consists of a minimum of 20 credit hours of study (nine of which must be upper division courses). Lower division course requirements include: GEOG 1110 or 1120 and GEOG 1012 or 1013. Consult with departmental advisor.

Geography Minor 20 Credit Hours

GEOG 1110 Earth Science: Weather and Climate	
or	
GEOG 1120 Earth Science: Landforms and Processes	4
GEOG 1012 Introduction to Cultural Geography	
or	
GEOG 1013 Introduction to World Regional Geography	3
Upper-division Geography courses	9
GEOG elective	4

Minor in Geographic Information Systems

Geographic Information Systems (GIS) is a system for creating, storing, analyzing, managing, and presenting spatial data. The minor consists of 18 credit hours of study.

Geographic Information Systems Minor 18 Credit Hours

GEOG 3210 Cartography	3
GEOG 4217 Geographic Information System	3
GEOG 4317 Advanced GIS	3
Electives	9

(Electives can be any upper- or lower-division GEOG course.)

Note: Students who choose a minor in geology will find that most of these courses carry (4) four credit hours of credit.

Teacher Education

Students interested in pursuing a teacher education program for certification as a geography teacher in grades 7-12 are asked to see a department advisor or the professional advisor in the Office of Student Services, 321 Warf-Pickel, College of Education. Students should be

aware that admission to the university does not mean that one is admitted to teacher education. Students would be advised to read the requirements for admission to teacher education in the College of Education section of the undergraduate catalog, and to seek further information from that college's advisor about when one should apply for admission.

Geology
Bachelor of Science Degree (B.S.)
Geology Major (GEOL)

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

The Bachelor of Science (B.S.) program offers a major in Geology. Geology is the study of the Earth, its materials, processes, and development through time. The science of geology involves the application of knowledge about the Earth's physical system to modern problems of mineral resources, fuels and energy, engineering, physical hazards, and the environment. Geologists work with fossils and rocks to interpret the past and look to astronomy and space science in seeking answers about the origins of our planet. The study of geology provides the student with a practical and aesthetic appreciation of our planet and may be directed toward a vocation as a professional geologist or employment in one of the many associated areas.

TBR General Education Requirements 42 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
Communication: Oral Communication*		3
MATH 1910	Calculus I	4
Natural Science *		8
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature*		3
Fine Arts*		3
Humanities*		3
Social/Behavioral Sciences*		6

*See TBR General Education Core Requirements.

A major in geology consists of 36 hours. The geology core requirement consists of 27 hours as listed below. An additional 9 hours of geology electives are required, as well as 24 additional hours of math and other sciences. A student choosing this major must also complete a minor. Physics, biology, chemistry, or mathematics is recommended for a minor course of study.

Geology Major Core Requirements 27

GEOL 1040	Physical Geology	4
GEOL 1050	Historical Geology	4
GEOL 3001	Mineralogy	4
GEOL 3391	Invertebrate Paleontology or	
GEOL 3395	Vertebrate Paleontology	4
GEOL 4120	Petrography	4
GEOG 4217	GIS	3
GEOL 4617	Structural Geology	4

Electives: Choose 9 hours 9

GEOL 2000	Earth Systems and Global Change	4
GEOL 2020	Scientific Methods in Earth Sciences	4

GEOL 2040	Geohazards	3
GEOL 2050	Earth Resources	3
GEOL 2480	Geology Field Methods	4
GEOL 2500	Dinosaurs: History and Evolution	2
GEOL 3120	Economic Geology	4
GEOL 3335	Introduction to Geophysics	4
GEOL 3400	Geologic Illustration	2
GEOL 3481	Environmental Geology	4
GEOL 4457	Plate Tectonics	4
GEOL 4540	Sedimentation-Stratigraphy	4
GEOL 4587	Engineering Geology	4
GEOL 4857	Principles of Hydrogeology	4
GEOL 4889	Cooperative Education	3
GEOL 4899	Senior Thesis	3
GEOL 4905	Independent Study	4

Additional Requirements	20	
MATH 1920	Calculus II	4

Any two of the following three science sequences:

PHYS 2010/11	General Physics I and	4
PHYS 2020/21	General Physics II or	4
CHEM 1110/11	General Chemistry I and	4
CHEM 1120/21	General Chemistry II or	4
BIOL 1110/11	Biology for Science Majors I and	4
BIOL 1120/21	Biology for Science Majors II	4

Suggested Course Sequence

Freshman Year

First Semester		Credit Hours
ENGL 1010	Critical Reading and Expository Writing	3
MATH 1910	Calculus I	4
GEOL 1040	Physical Geology	4
CHEM 111011	General Chemistry II/Lab	4
Semester Total		15
Second Semester		Credit Hours
ENGL 1020	Critical Reading and Argumentation	3
GEOL 1050	Historical Geology	4
MATH 1920	Calculus II	4
CHEM 112021	General Chemistry II/Lab	4
Semester Total		15

Sophomore Year

First Semester		Credit Hours
GEOL 3001	Mineralogy	4
HIST 2010	The United States to 1877	3
PHYS 2010/11	General Physics I Lecture/Lab	4
Fine Arts Elective		3
Social/Behavioral Science Elective		3
Semester Total		17
Second Semester		Credit Hours
GEOL 2480	Geology Field Methods	4
PHYS 2020/21	General Physics II Lecture/Lab	4
HIST 2020	The United States Since 1877	3
Oral Communication Elective		3
Humanities Elective		3
Semester Total		17

Junior Year

First Semester		Credit Hours
GEOL 4120	Petrography	4
Literature Elective		3
Social/Behavioral Sciences Elective		3
Minor Requirements		4
Semester Total		14
Second Semester		Credit Hours
GEOL Elective		3
GEOL Elective		3
GEOL 4217	GIS	3
Minor Requirements		8
Semester Total		17

Senior Year

First Semester		Credit Hours
GEOL 3391	Invertebrate Paleontology or	
GEOL 3395	Vertebrate Paleontology	4
GEOL 4617	Structural Geology	4
Minor Requirements		7
Semester Total		15
Second Semester		Credit Hours
GEOL 4540	Sedimentation/Stratigraphy	4
GEOL Elective		3
Minor Requirements		6
Semester Total		13
Total		120 Credit Hours

**Geology Minor
(GEOL)**

A minor in geology consists of 22 hours. The course requirements are listed below.

Geology Minor Requirements	22
GEOL 1040 Physical Geology	4
GEOL 1050 Historical Geology	4
GEOL 3001 Mineralogy	4
GEOL 4120 Petrography	4
GEOL Electives	6

**Department of History
(HIST)**

Box 70672 Phone: (423) 439-4222
Web Address: www.etsu.edu/cas/history/hist.htm

History is the study of humans as revealed by the past. The study of history is an indispensable intellectual endeavor for students who desire to understand and appreciate the human condition in all its diversities as well as the historical process that has shaped their personal lives. The Department of History offers a wide array of courses in the history of Asia, Africa, Europe, Latin America, and the United States designed to acquaint students with the complexities of today's multicultural "global village" and to deepen their understanding of the events, opinions, ideas, and facts they will need to make informed political, social, and personal judgments throughout their lives. The study of history provides an appropriate background for almost any career. The history degree is particularly useful in preparation for professional and graduate studies, such as law and religion. The preprofessional historian can find a rewarding career in teaching, archival work, museums, journalism, government, administration, and other occupations that call for a strong liberal arts background.

Major—A student majoring in history must complete requirements for the B.A., B.S., or B.S./S.S. (social and behavioral sciences concentration).

**Bachelor of Arts (B.A.)
History Major (HIST)**

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.
 See *ETSU Academic Proficiency Requirements for details.*

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010 Critical Reading and Expository Writing	3
ENGL 1020 Critical Thinking and Argumentation	3
Communication: Oral Communication*	3
Mathematics*	3-4
Natural Sciences*	8
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Literature*	3
Fine Arts*	3
Humanities*	3
Social/Behavioral Sciences*	6

**See the General Education Core Requirements for options.*

History Major Requirements 33 Credit Hours

HIST 1110* & 1120 World Civilization	6
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HIST 3410 Intro. to Historical Study	3
HIST 3000-level courses (2)**	6
HIST 4000-level courses (5)**	15
One course at either the 3000 or 4000 level**	3

** Satisfies TBR General Education Core Requirement.*

*** Of the 24 credit hours taken at the 3000 and 4000 levels, at least 6 credits must be taken in each of the general areas of United States, European, and world history.*

B.A. Requirements 3 Credit Hours

Select MATH 1530, 1840, or 1910	*
Foreign Language	3

(See College of Arts and Sciences B.A. and B.S. Degree Requirements; consult the Foreign Language Department's placement policy at <http://www.etsu.edu/cas/language/students/placement.aspx>)

Minor 18-27 Credit Hours

Electives 19-28 Credit Hours

Total Hours Required for Degree 120 Credit Hours

**Bachelor of Science (B.S.)
History Major (HIST)**

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.
 See *ETSU Academic Proficiency Requirements for details.*

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010 Critical Reading and Expository Writing	3
ENGL 1020 Critical Thinking and Argumentation	3
Communication: Oral Communication*	3
Mathematics*	3-4
Natural Sciences*	8
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Literature*	3
Fine Arts*	3
Humanities*	3
Social/Behavioral Sciences*	6

**See the General Education Core Requirements for options.*

History Major Requirements 33 Credit Hours

HIST 1110* & 1120 World Civilization	6
HIST 3410 Intro. to Historical Study	3
HIST 3000-level courses (2)**	6
HIST 4000-level courses (5)**	15
One course at either the 3000 or 4000 level**	3

** Satisfies TBR General Education Core Requirement.*

*** Of the 24 credit hours taken at the 3000 and 4000 levels, at least 6 credits must be taken in each of the general areas of United States, European, and world history.*

B.S. Requirements 8 Credit Hours

Select MATH 1850 or 1910, including experience in the differential and integral calculus	*
8 credit hours of single laboratory science in addition to General Education Core Natural Science	8

**Satisfies TBR General Education Core Requirement.*

OR

B.S. with a Concentration in Social and Behavioral Sciences Requirements	12 Credit Hours
MATH 1530 Prob & Stats-Noncalculus	*
8 credit hours of single laboratory science	*
3 credit hours from each of the following areas:	12

- (1) Social Statistics
- (2) Reasoning and Argumentation
- (3) Research Design for Social Science
(subject to departmental restrictions)

**Satisfies TBR General Education Core Requirement.*

Minor	18-27 Credit Hours
Electives	10-23 Credit Hours
Total Hours Required for Degree	120 Credit Hours

Minor – A minor in history requires completion of a minimum of 21 credit hours of study, including the following:

History Minor Requirements	21 Credit Hours
HIST 1110 & 1120 World Civilization	6
HIST 4000-level courses (3)*	9
HIST 3000 or 4000 level courses (2)*	6

* Of the 15 credit hours taken at the 3000 or 4000 levels, at least 3 credits must be taken in each of the general areas of United States, European, and world history.

Transfer Students—Transfer students must meet the specific requirements for the history major or minor. Regardless of the number of credits in history they transfer, they must take a minimum of two 3000-level courses and three 4000-level courses for the major, or one 3000-level course and two 4000-level courses for the minor. Transfer students must maintain a minimum average of *C* in courses taken in the department.

Teacher Education—Students interested in pursuing a teacher education program for certification as a history teacher in grades 7-12 are asked to see the subject area advisor in the Department of History AND the professional advisor in the Office of Student Services, 321 Warf-Pickel, College of Education.

Pre-Teacher Education—Declaration of Intent—All ETSU students desiring to complete a teacher education or other public school licensure program (for initial licensure, add-on endorsement, or advanced study in education) must file a Declaration of Intent in the Office of Student Services, 321 Warf-Pickel Hall. The Declaration of Intent should be filed before 30 credit hours of coursework have been completed or, in the case of transfer and post-baccalaureate students, in the first semester at ETSU. Delay or failure to file the Declaration of Intent may result in incomplete advisement. Students who have not filed the Declaration of Intent will not be considered for admission to teacher education and may be ineligible to enroll in many professional education courses.

Professional Education Requirements—There is a total of 36 credit hours required for Professional Education. Please refer to the Education Minor section in this catalog for a list of the required courses that must be taken with the professional semester.

Graduate Study—The Department of History offers graduate programs leading to a master of arts. Further information on graduate programs is contained in the Graduate Catalog.

Humanities/Fine Arts Minor

The Humanities/Fine Arts Minor seeks to provide a base for students to construct a better understanding of the spirit and meaning of their civilization. It draws fully on other departments within the university and attempts to show the interdependence of the various disciplines. By the consideration of the vast storehouse of historical, philosophical, religious, and artistic expressions, students are better able to understand and cope with the many issues that beset humankind, and they are better able to find meaning for themselves as individuals. It is designed for the student desiring a firm background in the humanistic disciplines, and it should be of special interest to students planning to enter such professions as the ministry, law, or college teaching.

A minimum of 24 hours is required including:

HUMT 2310 Intro to the Study of Humanities/Fine Arts I	3
HUMT 2320 Intro to the Study of Humanities/Fine Arts II	3
HUMT 4950 Senior Seminar	3

Twelve hours must be upper division (3000 level or above).

The specific courses for this program must be approved by the Humanities/Fine Arts advisor, including courses in the following disciplines:

- History
- English (literature courses)
- Art History
- Introduction to Music or Music History
- Philosophy and Humanities/Fine Arts

No courses counting toward the students' major field or Service-Learning or General Education Core courses may be counted toward satisfying the Humanities/Fine Arts Minor.

Department of Mathematics (MATH)

Box 70663

Phone: (423) 439-4349

Web Address: www.etsu.edu/math/math.htm

The Department of Mathematics offers courses to serve a variety of programmatic needs, including coursework to support training in pure and applied mathematics, mathematics education for secondary certification, statistics, computer science, business, and the physical and life sciences. The programs of study enable students to select courses suited to a variety of career goals. Advising plays an integral role in achieving these objectives. Consequently, each student selecting mathematics as a major is assigned an advisor to assist with scheduling and career planning. A minor in mathematics is also available to the student who wishes to complement another choice for major.

Financial Support

Scholarships and loans are available for the conscientious mathematics majors who are seeking support for their education. The Edward Stanley Scholarship, Jeffrey Lynn Hightower Memorial Scholarship, Charles F. Wilkey Scholarship, Wilson-Hartsell Scholarship, Depew Scholarship, Faber-Neal Scholarship, and Roesel Awards are scholarships designated for mathematics and science majors. To encourage students to teach mathematics in the public schools of Tennessee, the Teacher Loan/Scholarship program has been instituted to cover tuition and fees at East Tennessee State University. The interested student should consult the Financial Aid section of this catalog.

Diagnostic/Placement Program

Students admitted to the university for the first time will be placed in a mathematics course based on their ACT score (or comparable SAT score) to ensure the best possible chance for success. Moreover the Department of Mathematics strongly recommends that each student meet with an advisor to see what mathematics courses to take based on mathematics background and program requirements.

Service Courses and General Education Requirements

Besides those mathematics courses designed for the Mathematics Major, Mathematics Minor, and other technical programs of study, there are a number of mathematics courses designed specifically to serve the needs of other programs.

Science and Technology Majors—These majors are expected to complete the three-course sequence 1720, 1840, and 1850. As electives, the interested students may wish to include coursework in linear algebra or in statistics.

General Education Requirements—See major or minor listing for courses to satisfy this requirement. To fulfill the General Education requirement in mathematics, the student must successfully complete one of the following courses: MATH 1840, MATH 1530, or MATH 1910. Undeclared majors or students in programs with no specified mathematics course should enroll in MATH 1530.

Programs of Study in Mathematics

The programs of study in mathematics available to students are briefly described here. Specific program requirements are explained in greater detail later.

Mathematics Major—The B.S. degree is available for undergraduate mathematics majors. A major must complete the mathematics core requirements and then select one of four tracks: mathematical sciences, mathematical statistics, quantitative modeling, or mathematics education. Curriculum requirements for each of the four tracks are given below. Students planning to teach mathematics at the secondary level may choose the education track. In addition, such students must complete professional

education requirements for secondary education students. Students planning to pursue careers in industry or a field that utilizes statistics should choose the statistics track, while those desiring a job in research or industry utilizing areas of mathematics other than statistics should choose the quantitative modeling track. Those intending to pursue a graduate degree in mathematics should choose the mathematical sciences track. A minor is not mandatory for students majoring in mathematics.

Mathematics Minor—Students majoring in other disciplines may wish to complement their programs by completing a minor in mathematics. The program consists of 23 credit hours of mathematics as follows: 1910, 1920, 2010 are required. The remaining coursework must be selected from 2050, 2110, 2120, 2800, or upper-level (junior/senior) courses. The interested student should be advised by the undergraduate mathematics advisor.

Co-Op Program—All students are encouraged to participate in this program to gain practical experience in the applications of mathematics. Consult the chair for information.

Graduate Program—The master of science degree in mathematical sciences is available. Consult the graduate catalog for details.

Major in Mathematics Program

Overview – The requirements for the Bachelor of Science (B.S.) in mathematics are as follows:

1. Completion of the university and college general education requirements. (See the core curriculum requirements in this catalog.)
2. Completion of the mathematics core requirements listed below, as well as completion of the requirements for one of the four mathematics tracks, also listed below.

**Bachelor of Science Degree (B.S.)
Mathematics Major (MATH)**

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, “Using Information Technology,” during their first calendar year or prior to accumulating 33 semester credits at ETSU.

In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

TBR General Education Requirements 42 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
	Oral Communication*	3
MATH 1910	Calculus	4
	Natural Science*	8
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
	Literature*	3
	Fine Arts*	3
	Humanities*	3
	Social/Behavioral Sciences*	6

*See the General Education Core Requirements for options.

B.S. Requirements 8-10 Credit Hours

Natural Sciences: PHYS 2110/20, 8-10 Credit Hours
OR BIOL 1110/11, BIOL 1120/21

(A student cannot count both “Biology for Majors” and “Biology for Non-majors” as satisfying the 8-hour science requirement. A student cannot count both “Technical Physics” and “General Physics: Non-Calculus” as satisfying the 8-hour science requirement.)

Mathematics Core Requirements 34 Credit Hours

MATH 1920	Calculus II	4
MATH 2010	Linear Algebra	3
MATH 2050	Probability & Statistics/Calculus based	3
MATH 2090	Mathematical Computing	2
MATH 2110	Calculus III	4
MATH 2120	Differential Equations	3
MATH 2800	Mathematical Reasoning	3
MATH 4010	Undergraduate Research	3
MATH 4127	Introduction to Modern Algebra	3
MATH 4217	Analysis I	3
MATH 4257	Numerical Analysis OR	
MATH 4267	Numerical Linear Algebra	3

Mathematical Sciences Track 12 Credit Hours

MATH 3340	Applied Combinatorics & Problem Solving	3
MATH 4137	Modern Algebra II	3
MATH 4337	Complex Variables	3
MATH 4347	Introduction to Graph Theory/Applications	3

OR

Mathematical Statistics Track 12 Credit Hours

MATH 3050	Statistical Modeling	3
MATH 4047	Math Statistics I	3
MATH 4057	Math Statistics II	3
MATH 4287	Applications of Statistics	3

OR

Quantitative Modeling Track 12 Credit Hours

MATH 3050	Statistical Modeling	3
MATH 3150	Mathematical Modeling	3
MATH 4337	Complex Variables	3
MATH 4347	Intro. to Graph Theory/Applications	3

OR

Mathematics Education Track 12 Credit Hours

MATH 3040	History of Mathematics	3
MATH 3150	Mathematical Modeling	3
MATH 3340	Applied Com. & Problem Solving	3
MATH 4157	Modern Geometry	3

In order to complete the requirements for teacher certification, students in the Mathematics Education Track must select a minor in education which will include:

MATH 4417 Teaching Secondary Math

Electives/Minor 22-24 Credit Hours

Total Hours Required for Degree 120 Credit Hours

**Suggested Course Sequence for
Mathematics Major - All Tracks**

Freshman Year

First Semester		Credit Hours
ENGL 1010	Critical Reading & Expository Writing	3
MATH 1910	Calculus I	4
	Natural Science	4
	Humanities/Fine Arts	3
	Semester Total	14

Second Semester		Credit Hours
ENGL 1020	Critical Reading & Argumentation	3
MATH 1920	Calculus II	4
MATH 2010	Linear Algebra	3
	Natural Science	4
	Semester Total	14

Sophomore Year

First Semester		Credit Hours
MATH 2800	Mathematical Reasoning	3
MATH 2110	Calculus III	4
	Social/Behavioral Sciences	3
HIST 2010	The United States to 1877	3
	Elective	3
	Semester Total	16

Second Semester		Credit Hours
MATH 2050	Fundamentals of Probability & Statistics	3
MATH 2090	Mathematical Computing	2
MATH 2120	Differential Equations	3
HIST 2020	The United States Since 1877	3
	Elective	3
	Semester Total	14

**Mathematical Sciences Track
Junior Year**

First Semester		Credit Hours
MATH 3340	Applied Comb. & Problem Solving	3
PHYS 2110	Technical Physics I or	
BIOL 1110/11	Biology for Science Majors	4-5
	Communication: Oral Communication	3
	Social/Behavioral Sciences	3
	Humanities-Literature	3
Semester Total		16-17
Second Semester		Credit Hours
MATH 4347	Graph Theory with Applications	3
MATH 4337	Complex Variables	3
PHYS 2120	Technical Physics II or	
BIOL 1120/21	Biology for Science Majors	4-5
	Electives	6
Semester Total		16-17

Senior Year

First Semester		Credit Hours
MATH 4127	Modern Algebra I	3
MATH 4217	Analysis I	3
MATH 4010	Undergraduate Research	3
	Electives	6-8
Semester Total		15-17
Second Semester		Credit Hours
MATH 4137	Modern Algebra II	3
MATH 4267	Numerical Linear Algebra	3
	Humanities/Fine Arts	3
	Electives	4
Semester Total		13
Total		120

**Mathematical Statistics Track
Junior Year**

First Semester		Credit Hours
MATH 3050	Statistical Modeling	3
MATH 4127	Modern Algebra I	3
PHYS 2110	Technical Physics I or	
BIOL 1110/11	Biology for Science Majors	4-5
	Communication: Oral Communication	3
	Social/Behavior Sciences	3
Semester Total		16-17
Second Semester		Credit Hours
MATH 4287	Applications of Statistics	3
PHYS 2120	Technical Physics II or	
BIOL 1120/21	Biology for Science Majors	4-5
	Humanities-Literature	3
	Elective	4
Semester Total		14-15

Senior Year

First Semester		Credit Hours
MATH 4047	Math Stat I	3
MATH 4217	Analysis I	3
MATH 4010	Undergraduate Research	3
	Elective	6-8
Semester Total		15-17
Second Semester		Credit Hours
MATH 4157	Math Stat II	3
MATH 4267	Numerical Linear Algebra	3
	Humanities/Fine Arts	3
	Electives	4
Semester Total		13
Total		120

**Mathematics Education Track
Junior Year**

First Semester		Credit Hours
MATH 3340	Applied Comb. & Problem Solving	3
MATH 3040	History of Mathematics	3
PHYS 2110	Technical Physics I or	
BIOL 1110/11	Biology for Science Majors	4-5
	Communication: Oral Communication	3
	Social/Behavior Sciences	3
Semester Total		16-17
Second Semester		Credit Hours
MATH 3150	Mathematical Modeling	3
MATH 4157	Modern Geometry	3
PHYS 2120	Technical Physics II or	
BIOL 1120/21	Biology for Science Majors	4-5
	Humanities-Literature	3
	Elective	3
Semester Total		16-17

Senior Year

First Semester		Credit Hours
MATH 4127	Modern Algebra I	3
MATH 4217	Analysis I	3
MATH 4010	Undergraduate Research	3
MATH 4417	Teaching Secondary Mathematics	3
	Elective	3
Semester Total		15

Second Semester		Credit Hours
MATH 4267	Numerical Linear Algebra	3
	Humanities/Fine Arts	3
	Elective	8-9
Semester Total		14-15
Total		120

**Quantitative Modeling Track
Junior Year**

First Semester		Credit Hours
MATH 4337	Complex Variables	3
MATH 3050	Statistical Modeling	3
MATH 3150	Mathematical Modeling	3
PHYS 2110	Technical Physics I or	
BIOL 1110/11	Biology for Science Majors	4-5
	Communication: Oral Communication	3
Semester Total		16-17

Second Semester		Credit Hours
PHYS 2110	Technical Physics I or	
BIOL 1120/21	Biology for Science Majors	4-5
	Social/Behavior Sciences	3
	Humanities/Fine Arts	3
	Electives	6
Semester Total		16-17

Senior Year

First Semester		Credit Hours
MATH 4127	Modern Algebra I	3
MATH 4217	Analysis I	3
MATH 4010	Undergraduate Research	3
	Electives	5-6
Semester Total		14-15
Second Semester		Credit Hours
MATH 4347	Graph Theory with Applications	3
MATH 4267	Numerical Linear Algebra	3
	Humanities/Fine Arts	3
	Electives	5-6
Semester Total		14-15
Total		120

Recommendations

- A student who plans to major in mathematics is encouraged to:
1. Obtain a program sheet from the Department of Mathematics which outlines the specific requirements for the selected program of study.
 2. Read the catalog to determine other requirements for the degree he/she is seeking.
 3. Work closely with an advisor. The student, and not the advisor, is responsible for knowing the program requirements for the particular degree he/she is seeking.

Department of Music (MUSC)
Box 70661 Phone **(423) 439-4270**
Web Address: www.etsu.edu/music

The Department of Music at East Tennessee State University was established in 1946 and is a fully accredited member of the National Association of Schools of Music.

The Department of Music provides specialized training in music to prepare students for professional work or advanced study, for teaching music in the elementary and secondary schools, and for general cultural attainment.

The curriculum of the Department of Music is designed to present the learning of music as an integrated whole. Solo and ensemble performance, theoretical and historical studies, concert attendance, and electives both within and outside the department are intended to provide a balanced education.

In addition to training in the various professions of music, the department provides general music studies and activities for the non-music major, the university, and the community.

Major Fields of Study and Degrees

Undergraduate instruction in the department leads to the Bachelor of Music (BM) degree with a specialization in Music Education or in Performance. Students choosing music education will identify a specialization in instrumental, vocal, or keyboard/vocal. These students must also complete the core courses required as part of the professional education program, included later in this section. Students may also pursue a minor in music.

The Department of Music also offers training in the Suzuki method for flute. Courses in this program meet certification guidelines of the Suzuki Association of the Americas (SAA).

The Department of Music also offers a wide variety of courses for the non-music major. Any student can enroll in music survey and music fundamentals courses, private lessons (depending on faculty availability), ensembles, and beginning voice classes.

Events

The Department of Music offers a wide variety of recitals, concerts, lectures, and other programs by students, faculty, and distinguished guest artists. Most of the programs are free and open to the public. The events schedule can be found at www.etsu.edu/music/events.html.

Student Organizations

The Department of Music encourages participation in music-related student organizations. Active chapters of Delta Omicron, Music Educators National Conference, Percussive Arts Society, Phi Mu Alpha Sinfonia, Kappa Kappa Psi, and Sigma Alpha Iota provide social, service and professional opportunities for both music and non-music majors.

Scholarships and Awards

Upon recommendation of the faculty, students may be awarded scholarships for talent in music. Scholarship auditions are held in February and March of each year. Details are available on the department's web page. Awards vary in size and include the following:

- The Lamar Alexander Scholarship
- The Elsie Artz Memorial Scholarship
- The Teresa Bowers Scholarship
- The Floyd Cramer Scholarship
- Ella V. Ross Scholarship
- The Mary Florence and Virgil C. Self Scholarship
- Band and Choral Performance Scholarships
- The Powell Choral Scholarship
- Richard Compton Memorial Scholarship
- W.G. Patton Scholarship
- Robert LaPella Vocal Scholarship
- Marie Hutchinson Hunter Piano Scholarship

Other awards based upon academic excellence and performance ability are also available from the Department of Music.

Admission and Enrollment Policies

Any student seeking a degree in music at ETSU must first meet the general university admission requirements. Once that admission is granted, the student must audition for admission to the music degree program. Auditions are held on selected dates during the spring (see the department Web page, www.etsu.edu/music, for dates), at all orientation sessions, and by appointment.

The audition may be performed live or via videotape (if the student lives more than 250 miles from campus). The audition is approximately 10 minutes in length and should demonstrate the student's technique and musicianship. The audition is judged by Music Department faculty.

If a student meets the audition requirements and is admitted to the program, an academic advisor will assist the student in determining courses to be taken. Students who do not meet the audition requirements may register for applied music and for ensembles and may audition again at a later date. It is not recommended that a student audition more than twice without being admitted, as the student's academic progress will be seriously delayed if a major is not declared by the sophomore year.

Applied Music

Music education majors must register for a minimum of seven semesters of applied music (private instruction) in their major area of performance; Performance majors must register for a minimum of eight semesters. Lessons must be taken with a member of the department faculty. Students may register for either one or two credit hours per semester. Each hour of credit represents a minimum of one half-hour lesson and six hours of practice per week. A fee of \$150 per credit hour is assessed.

String majors enroll for applied lessons at Milligan College. They pay the current applied music fee at Milligan, then submit their receipt to the Department of Music at ETSU. Students will be reimbursed for any difference between Milligan's fee and the fee at ETSU.

Admission to applied music is by audition only. Non-music majors may register for applied music when faculty loads permit. All students must have permission from the department to register for lessons.

Jury examinations are held at the end of each semester of applied study; the purpose of the juries is to determine student progress in the performance area. Applied study for music majors and minors is offered at three levels. Students who remain at Level I for three semesters may be advised to change to another major. Students who are retained in the music program are expected to achieve Level III (upper-division standing) during the third year of study, and a minimum of one semester of study at Level III must be successfully completed prior to graduation.

Additional performance and jury requirements are found in the Music Student Handbook in D2L.

Performance Requirements

All music majors must perform a solo work in public each semester. Freshman music majors are expected to perform once during the year. "In public" includes studio class or recital, department recital, half or full recital, or other public events as approved by the applied instructor.

All music majors, regardless of concentration, must perform a 30-minute half recital. Music performance majors must also perform an hour-long full recital. A student must be admitted to Level III prior to presenting a half or full recital.

In addition to the performance component of the half recital, students must prepare a written document demonstrating their understanding of theoretical and historical constructs related to the music being performed, as well as program notes. Details about this document are found in the Music Student Handbook on D2L.

Specific information about the recital approval process is also available in the Music Student Handbook on D2L.

Piano Proficiency

All music majors are required to meet minimum proficiency levels on piano. Beginning with the first semester of residence, music majors must enroll for piano study, either through group keyboard classes or through private lessons, every semester until the piano proficiency examination is passed. Music education majors must pass the examination prior to student teaching. Specific details about the examination are found in the Music Student Handbook.

Sight-Reading Proficiency

All music majors must successfully pass two sight-reading proficiency examinations. The examination is part of the jury for advancement from one level to another. Students advancing to Level II are expected to sight-read at Grade 7 on the Associated Board scale; students advancing to Level III must sight-read at Grade 8.

Independent Musicianship

All music majors must demonstrate the ability to prepare a new piece of music for performance without the assistance of a faculty member. This skill must be demonstrated at the jury during which a student applies for admission to Level III. Details about the requirement can be found in the Music Student Handbook.

Ensemble

Performing experience in ensembles is a vital part of the training of all musicians. Thus, all music majors are required to participate in a major ensemble every semester of full-time enrollment. Wind and percussion majors in the music education concentration must be in band (wind ensemble or concert band) each semester. Performance majors may substitute orchestra if they hold a regular, permanent position with the orchestra. String majors must enroll for orchestra at Milligan College. They may also enroll for MUSC 1204/3204, "Orchestra," at ETSU if they perform with the Johnson City Symphony. Voice majors must participate in choir. Keyboard majors must enroll in "Accompanying."

Students are not limited to a specific number of ensembles, but music majors must enroll for a minimum of ten (10) non-ensemble credits each semester of full-time attendance.

Recital Attendance

Attendance at recitals and concerts is considered critical to the education of a musician. All music majors must submit evidence of recital attendance for seven semesters; records are maintained in the student's advisement file in the department office.

Details regarding the requirements for each semester's attendance can be found in the Student Handbook on the department Web page.

Advising

All music majors will be assigned an academic advisor upon entrance to the degree program. Students should consult the Music Major Program Guidesheets for specific course requirements required in the Bachelor of Music degree. All majors must be advised prior to registration each semester.

Music education majors should consult an academic advisor in the College of Education for specific certification requirements.

**Bachelor of Music (BM)
Music Major (MUSC)**

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
	Communication: Oral Communication*	3
	Mathematics*	3-4
	Natural Sciences*	8
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
	Literature*	3
	Fine Arts*	3
	Humanities*	3
	Social/Behavioral Sciences*	6

*See the General Education Core Requirements.

Music Core: 28 Credit Hours

MUSC 1410	Theory I	2
MUSC 1411	Aural Skills I	1
MUSC 1420	Theory II	2
MUSC 1421	Aural Skills II	1
MUSC 2410	Theory III	2
MUSC 2411	Aural Skills III	1
MUSC 2420	Theory IV	2
MUSC 2421	Aural Skills IV	1
MUSC 2540	Music History I	3
MUSC 2550	Music History II	3
MUSC 3540	Music History III	3
MUSC 3550	Music History IV	3
MUSC 3570	Introduction to Conducting	2
MUSC 4600	Orchestration & Arranging	2

Must enroll in Group Piano or Applied Piano until piano proficiency examination is passed.

Select One of the Following:

Music Education Instrumental

K-12 Requirements 51 Credit Hours

MUSC 1040	Class Voice OR two semesters choir	1-2
MUSC 2010	Class Piano III	1

MUSC 2020	Class Piano IV	1
MUSC 2600	String Methods	2
MUSC 2630	Woodwind Methods	3
MUSC 2660	Brass Methods	3
MUSC 2690	Percussion Methods	3
MUSC 3590	Instrumental Conducting	2
MUSC 4560	Jazz Pedagogy	2
MUSC 4570	Marching Band Methods	2
MUSC 4571	Marching Band Internship	1
MUSC 4580	Organization and Administration	3
MUSC 4590	Beginning Band/General Music Methods	3
	Applied Music	7
	Major Ensemble	7
	Electives	10

Music Education Vocal/

General K-12 Concentration 51 Credit Hours

MUSC 2010	Class Piano III	1
MUSC 2020	Class Piano IV	1
MUSC 2710	Diction I	1
MUSC 2720	Diction II	1
MUSC 3580	Choral Conducting	2
MUSC 4510	Music in Elementary School	3
MUSC 4520	Music in Secondary School	3
MUSC 4601	Vocal Pedagogy	3
MUSC 4730	Choral Literature	3
	Applied Voice	10
	Ensemble	7
	Applied Piano	3
	Foreign Language (two semesters of French, German, or Italian; not to be the same language studied in high school)	6
	Electives	10

Music Education Keyboard/Vocal K-12 51 Credit Hours

MUSC 2710	Diction I	1
MUSC 2720	Diction II	1
MUSC 3580	Choral Conducting	2
MUSC 3739	Piano Literature I	1
MUSC 3740	Piano Literature II	1
MUSC 4510	Music in Elementary School	3
MUSC 4520	Music in Secondary School	3
MUSC 4601	Vocal Pedagogy	3
MUSC 4617	Teaching Beginning Piano	3
MUSC 4730	Choral Literature	3
	Applied Voice	5
	Ensemble	7
	Applied Piano	7
	Electives	11

Total Hours Required for Degree 120 Credit Hours

Bachelor of Music (BM)

Music Major (MUSC)

Performance Concentration (PERF)

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3

Communication: Oral Communication*	3
Mathematics*	3-4
Natural Sciences*	8
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Literature*	3
Fine Arts*	3
Humanities*	3
Social/Behavioral Sciences*	6

*See the General Education Core Requirements.

Music Core Requirements	28 Credit Hours
MUSC 1410 Theory I	2
MUSC 1411 Aural Skills I	1
MUSC 1420 Theory II	2
MUSC 1421 Aural Skills II	1
MUSC 2410 Theory III	2
MUSC 2411 Aural Skills III	1
MUSC 2420 Theory IV	2
MUSC 2421 Aural Skills IV	1
MUSC 2540 Music History I	3
MUSC 2550 Music History II	3
MUSC 3540 Music History III	3
MUSC 3550 Music History IV	3
MUSC 3570 Introduction to Conducting	2
MUSC 4600 Orchestration & Arranging	2

Performance Concentration

Instrumental Specialty	51 Credit Hours
MUSC 2010 Class Piano III	1
MUSC 2020 Class Piano IV	1
MUSC 3420 Counterpoint	3
MUSC 3590 Instrumental Conducting	2
MUSC 4750, 4760, 4770, or 4780	
Literature in appropriate applied area	3
MUSC 4751, 4761, 4771, or 4781	
Pedagogy in appropriate applied area	3
Applied Music	16
Major Ensemble	8
Chamber Ensemble	4
Electives	10

OR

Voice Specialty	51 Credit Hours
MUSC 2010 Class Piano III	1
MUSC 2020 Class Piano IV	1
MUSC 2710 Diction I	1
MUSC 2720 Diction II	1
MUSC 3420 Counterpoint	3
MUSC 3580 Choral Conducting	2
MUSC 4601 Vocal Pedagogy	3
Applied Voice	16
Ensemble	8
Music Electives	4
Electives	5
Foreign Language	6
<i>Two (2) semesters of French, German, or Italian; not to be the same language studied in high school.</i>	

OR

Keyboard Specialty	51 Credit Hours
MUSC 3420 Counterpoint	3
MUSC 3739 Piano Literature I	1
MUSC 3740 Piano Literature II	1
MUSC 3741 Piano Literature III	1
MUSC 4510 Music in Elementary School	3
MUSC 4617 Teaching Beginning Piano	3
MUSC 4627 Teaching Intermediate Piano	3
MUSC 4637 Piano Pedagogy Practicum	1
Applied Keyboard	16
Ensemble	8
Music Electives	3
Electives	8
Total Hours Required for Degree	120 Credit Hours

MUSIC MINOR

Minor in Music	28 Credit Hours
Does not meet teacher certification requirements.	
MUSC 1030 Introduction to Music	3
MUSC 1400 Music Fundamentals	2
MUSC 1410 Theory I	2
MUSC 1411 Aural Skills I	1
MUSC 1421 Aural Skills II	1
MUSC 2540 Music History I	3
Applied Music*	6
Ensemble	4
Electives**	6

* Minimum 6, must include at least one semester at Level II.

** Electives may be any music courses except ensembles.

Students who wish to pursue teacher certification should see the College of Education requirements.

**Department of Philosophy and Humanities
(PHIL) (HUMT)**

Box 70656

Phone: (423) 439-4425

Division of Philosophy and Religious Studies

Philosophy is an attempt to reason clearly and critically about all areas of experience: science, religion, art, politics, and morality. Its purpose is to understand and evaluate our most basic beliefs and values, then to integrate them into a coherent view of ourselves and the world.

Philosophy is an appropriate preparation for vocations that require a broad liberal education and skills in clear, creative thinking. Such vocations include law, government service, writing, the ministry, medicine, and many types of positions in business. It is especially attractive when paired with another major which teaches technical or professional skills, for example, philosophy with mass communication. In addition to the General Education Requirements, philosophy majors must meet degree requirements in the College of Arts and Sciences. Philosophy majors may earn a B.A. or a B.S. Details of those degree requirements are found in the front of this College of Arts & Sciences section. A minor is required of all philosophy majors.

Philosophy students should be aware that all upper-division philosophy courses (excluding those required for the major) are offered only once every other year!

Transfer Students—The department will approve a major program in philosophy only after nine hours have been completed at the university with at least a C average (for a minor, six hours must be completed). Courses in religion taken at another institution shall count toward a major or minor only if they directly parallel courses offered by this department.

Graduate Study—The department offers some graduate work in philosophy. Further information on graduate programs is contained in the Graduate Catalog.

**Bachelor of Arts (B.A.) or Bachelor of Science (B.S.)
Philosophy Major (PHIA)
Philosophy Concentration (PHIL)**

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives. See ETSU Academic Proficiency Requirements for details.

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
Communication: Oral Communication*		3
Mathematics*		3-4
Natural Sciences*		8
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature*		3
Fine Arts*		3
Humanities*		3
Social/Behavioral Sciences*		6

**See the General Education Core Requirements for options.*

Philosophy Major Requirements 33 Credit Hours

A minimum of 33 hours is required (at least 24 hours of which must be upper division), including the following:

PHIL 3010	History of Ancient Philosophy	3
PHIL 3030	History of Modern Philosophy	3
PHIL 4017	Ethical Theory	3
PHIL 4077	Contemporary Continental Philosophy or	
PHIL 4087	Topics in Analytic Philosophy	3
PHIL 4950	Senior Seminar	3
PHIL 2030	Practical Reasoning or	
PHIL 3050	Symbolic Logic	3

Plus 15 hours from PHIL courses or RELI 3230 15

B.A. Requirements 6 Credit Hours

Select MATH 1530, 1820, 1840, or 1910	*
Foreign Language	3
<small>(See College of Arts and Sciences B.A. and B.S. Degree Requirements; consult the Foreign Language Department's placement policy at http://www.wetsu.edu/cas/language/students/placement.aspx)</small>	
One course of Non-United States History	3

Minor Requirements 18-27 Credit Hours

Electives 13-22 Credit Hours

Total Hours Required For Degree 120 Credit Hours

B.S. Requirements 8 Credit Hours

MATH 1850 or 1910	*
Science (in addition to General Education Core requirements)	8

Minor Requirements 18-27 Credit Hours

Electives 13-22 Credit Hours

Total Credit Hours Required For Degree .. 120 Credit Hours

B.S./S.S. Requirements 3 Credit Hours

MATH 1530	*
Single Laboratory Science	*
Research	3

Minor Requirements 18-27 Credit Hours

Electives 10-19 Credit Hours

Total Credit Hours Required For Degree .. 120 Credit Hours

Bachelor of Arts (B.A.) or Bachelor of Science (B.S.)

Philosophy Major (PHIA)

Philosophy and Religious Studies Concentration (RELI)

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
Communication: Oral Communication*		3
Mathematics*		3-4
Natural Sciences*		8
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature*		3
Fine Arts*		3
Humanities*		3
Social/Behavioral Sciences*		6

**See the General Education Core Requirements for options.*

Religious Studies Concentration 33 Credit Hours

A minimum of 33 hours is required (at least 24 hours of which must be upper division), including the following:

PHIL 3010	History of Ancient Philosophy	3
PHIL 3030	History of Modern Philosophy	3
At least one (1) course in western religions		3
At least one (1) course in non-western religions		3
PHIL 4017	Ethical Theory	3
PHIL 4047	Philosophy of Religion	3
PHIL 4950	Senior Seminar	3

Additional Courses 12

The last 12 hours may include any courses in philosophy or in religious studies; they may also include the following specific courses from other departments:

ENGL 3280	Mythology	3
HIST 3910	History of Christianity	3
HIST 3920	History of Islam	3
SOAA 3800	Religion, Society, and Culture	3

B.A. Requirements 6 Credit Hours

Select MATH 1530, 1820, 1840, or 1910	*
Foreign Language	3
<small>(See College of Arts and Sciences B.A. and B.S. Degree Requirements; consult the Foreign Language Department's placement policy at http://www.wetsu.edu/cas/language/students/placement.aspx)</small>	
One course of Non-United States History	3

Minor Requirements 18-27 Credit Hours

Electives 13-22 Credit Hours

Total Hours Required For Degree 120 Credit Hours

B.S. Requirements 8 Credit Hours

MATH 1850 or 1910	*
Science (in addition to General Education Core requirements)	8

Minor Requirements 18-27 Credit Hours

Electives 13-22 Credit Hours

Total Credit Hours Required For Degree .. 120 Credit Hours

B.S./S.S. Requirements 3 Credit Hours

MATH 1530	*
Single Laboratory Science	*
Research	3

Minor Requirements 18-27 Credit Hours

Electives 10-19 Credit Hours

Total Credit Hours Required For Degree .. 120 Credit Hours

For students interested in preparation for seminary or divinity school, professional graduate education in theology or ministry:

Many students major in philosophy with a religious studies concentration, or minor in religious studies as a way to prepare for seminary or divinity school. (The MDiv—Master of Divinity—is the standard professional degree for students preparing for a career requiring ordination to the ministry or rabbinate.) The American Association of Theological Schools advises students to major in any humanities or social science field. While previous study in the area of religious studies and philosophy is recommended, it is not required for admission to programs of professional study leading to the MDiv. RELI 3240 ("Hebrew Scriptures") and RELI 3250 ("Greek Scriptures") are relevant for students interested in the Christian and Jewish traditions. Students aiming to apply to university divinity schools, or whose interest in the study of religions is primarily academic (as opposed

to vocational) are strongly advised to earn a B.A. degree with at least a minor in religious studies, including SOAA 3800 (“Religion, Society, and Culture”). It is also important to complete at least 6 hours in German, French, or in a classical language at the 3000 level.

**Department of Physics and Astronomy
(PHYS)(ASTR)**

Box 70652

Phone: (423) 439-4231

Physics is the study of the properties of matter, energy, radiation, and their interactions. It is generally regarded as basic to all the natural sciences, and as such is a fundamental part of the professional preparation of biologists, chemists, engineers, and other scientists and technologists.

The major program in physics provides the foundation for a broad spectrum of challenging careers in scientific and non-scientific fields. Baccalaureate physics majors find employment opportunities such as research associates in commercial and government laboratories, sales and engineering representatives for manufacturers of technical products, industrial management trainees, and teachers at the secondary school level.

Most of ETSU’s graduates in physics continue their studies in graduate and professional schools, where they specialize in a wide variety of disciplines.

Major—A major in physics at the bachelor’s level requires a minimum of 34 credit hours of study in physics. These shall include the following courses.

**Bachelor of Science Degree (B.S.)
Physics Major (PHYS)**

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, “Using Information Technology,” during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

TBR General Education Requirements 42 Credit Hours

ENGL 1010 Critical Reading and Expository Writing	3
ENGL 1020 Critical Thinking and Argumentation	3
Communication: Oral Communication*	3
MATH 1910 Calculus	4
Natural Sciences*	8
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Literature*	3
Fine Arts*	3
Humanities*	3
Social/Behavioral Sciences*	6

**See the General Education Core Requirements for options.*

Physics Major Requirements 31 Credit Hours

PHYS 2110/20 Tech. Physics-Calc. based	10
PHYS 3010 Mechanics	4
PHYS 3410 Modern Physics Lab	2
PHYS 3610 Introduction to Atomic & Nuclear Physics	3
PHYS 3710 Electricity and Magnetism	4
PHYS 4117 Thermal and Statistical Physics	4
PHYS 4617 Quantum Physics	4

Physics electives chosen from: 6

Choose a minimum of 6 credit hours from the list below:

ASTR 3415 Astrophysics	3
ASTR 3970 Variable Stars	2

ASTR 4110 Extragalactic Astronomy	4
ASTR 4900 Independent Study in Astronomy	1-3
PHYS 3210 Optics	4
PHYS 3310 Electrical Measurements	4
PHYS 3510 Introduction to Biophysics	3
PHYS 4007 Computational Physics	3
PHYS 4717 Electromagnetic Theory	4
PHYS 4850 Seminar in Physics	1
PHYS 4860 Special Topics in Physics	1-3
PHYS 4900 Independent Studies	1-3

Additional Requirements 11

MATH 1920 Calculus II	4
MATH 2110 Calculus III	4
MATH 1120 Differential Equations	3

Minor 18-27 Credit Hours

Electives 3-12 Credit Hours

Total Hours Required for Degree 120 Credit Hours

Suggested Course Sequence

Freshman Year

First Semester	Credit Hours
ENGL 1010 Critical Reading and Expository Writing	3
Natural Science	4
HIST 2010 The United States to 1877	3
MATH 1910 Calculus I	4
Semester Total	14

Second Semester	Credit Hours
ENGL 1020 Critical Reading and Argumentation	3
Natural Science	4
HIST 2020 The United States Since 1877	3
MATH 1920 Calculus II	4
Semester Total	14

Sophomore Year

First Semester	Credit Hours
PHYS 2110 Technical Physics I	5
Literature	3
Social/Behavioral Sciences	3
MATH 2110 Calculus III	4
Semester Total	15

Second Semester	Credit Hours
PHYS 2120 Technical Physics II	5
Minor Requirement	3
Fine Arts	3
Social/Behavioral Sciences	3
MATH 2010 Linear Algebra	3
Semester Total	17

Junior Year

First Semester	Credit Hours
PHYS 3010 Mechanics	4
PHYS 3610 Atomic and Nuclear Physics	3
MATH 2120 Differential Equations	3
Physics lab-based course	2
Minor requirement	3
Semester Total	15

Second Semester	Credit Hours
PHYS 3710 Electricity and Magnetism	4
PHYS 4617 Quantum Physics	4
Minor Requirement	3
Humanities	3
Electives	3
Semester Total	17

Senior Year

First Semester	Credit Hours
Minor requirement	6
Physics electives	5
Free Electives	3
Semester Total	14

Second Semester	Credit Hours
Minor requirement	3
Electives	8
Humanities/Fine Arts Elective	3
Semester Total	14
Total	120 Credit Hours

Students are also strongly encouraged to take mathematics at least through ordinary differential equations, and such additional elective courses in physics, mathematics, and chemistry as their curriculum will permit.

All major programs in physics must be approved by the chair of the department.

To complete university graduation requirements, students must complete a minor in another subject area.

Department of Physics and Astronomy offers a major in physics with the B.S. degree. The physics major must satisfy the General Education

Core Requirements and B.S. requirements at the beginning of the College of Arts and Sciences section of this catalog.

Minor—A minor in physics at the bachelor’s level requires a minimum of 20 credit hours of study in physics, distributed as follows:

Minor Requirements	20 Credit Hours
PHYS 2110-20 Technical Physics- Calc. based I, II	10
PHYS Electives chosen from	
PHYS 3415, 3970, 4117, 4617, 4717, 4850, 4860, 4900	10

Transfer Students—Transfer students majoring in physics should contact the chair of the department for advising as soon as possible. This will ensure that the student’s previous work will be coordinated efficiently with ETSU requirements.

Teacher Education—Students interested in pursuing a teacher education program for certification as a physics teacher in grades 7-12 are asked to see the department chair in the Department of Physics and Astronomy AND the professional advisor in the Office of Student Services, 321 Warf-Pickel, College of Education.

Pre-Teacher Education—Declaration of Intent—All ETSU students desiring to complete a teacher education or other public school licensure program (for initial licensure, add-on endorsement, or advanced study in education) must file a Declaration of Intent in the Office of Student Services, 321 Warf-Pickel Hall. The Declaration of Intent should be filed before 30 credit hours of coursework have been completed or, in the case of transfer and post-baccalaureate students, in the first semester at ETSU. Delay or failure to file the Declaration of Intent may result in incomplete advisement. Students who have not filed the Declaration of Intent will not be considered for admission to teacher education and may be ineligible to enroll in many professional education courses.

Professional Education Requirements—There is a total of 36 credit hours required for professional education. Please refer to the Education Minor section in this catalog for a list of the required courses that must be taken with the professional semester.

Graduate Study—Students interested in graduate studies in physics may elect to participate in the mathematical sciences program. Further information is contained in the Graduate Catalog.

**Department of Political Science
(PSCI) (URBS) (ITAF)**

Box 70651

Phone: (423) 439-4217

Political science is the study of government, politics, and public affairs in the United States and other countries, and of the relations among nations and states in the world community. The political science curriculum is designed to provide students with factual knowledge of these subjects and with the ability to analyze and evaluate critically competing ideologies, governmental systems, political practices, and policy proposals. The study of political science prepares students to be informed and engaged citizens as well as to pursue careers in law, public affairs and many other fields.

Major—Students majoring in political science must complete requirements for the General Education Program, both the core curriculum requirements and the requirements reinforcing academic proficiencies (see General Education Program section of this catalog). Students must also complete the degree requirements of the College of Arts and Sciences, either for the Bachelor of Arts (B.A.), the Bachelor of Science (B.S.), or the Bachelor of Science with a social and behavioral sciences concentration (B.S./S.S.). (See College of Arts and Sciences degree requirements in this catalog.) The political science major itself requires the completion of 36 semester credit hours.

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, “Using Information Technology,” during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives. See ETSU Academic Proficiency Requirements for details.

TBR General Education Requirements **41-42 Credit Hours**

ENGL 1010 Critical Reading and Expository Writing	3
ENGL 1020 Critical Thinking and Argumentation	3
Communication: Oral Communication*	3
Mathematics*	3-4
Natural Sciences*	8
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Literature*	3
Fine Arts*	3
Humanities*	3
Social/Behavioral Sciences*	6

**See the General Education Core Requirements for options.*

Political Science Major Requirements **36 Credit Hours**

PSCI 1110 Political Life	3 credits
PSCI 1120 Intro. to American Government	3 credits
either	
PSCI 2210 Introduction to Comparative Politics or	
PSCI 2220 Introduction to World Politics	3 credits
either	
SOAA 3350 Social Statistics or	
SOCI 3444 Data Analysis	3 credits

One course at or above the 3000 level in each of the (5) five sub-fields:

American Politics (AP)	3 credits
Comparative Politics (CP)	3 credits
International Relations (IR)	3 credits
Political Theory (PT)	3 credits
Public Law (PL)	3 credits

Three courses to be selected freely from the Political Science Department’s offerings 9 credits

B.A. Requirements **6 Credit Hours**

Select MATH 1530, 1840, or 1910	*
Foreign Language	3
<small>(See College of Arts and Sciences B.A. and B.S. Degree Requirements; consult the Foreign Language Department’s placement policy at http://www.etsu.edu/cas/language/students/placement.aspx)</small>	
One course of Non-United States History	3

B.S. Requirements **8 Credit Hours**

MATH 1850 or 1910	*
Science (in addition to General Education Core requirements)	8

B.S./S.S. Requirements **9 Credit Hours**

MATH 1530	*
Single Laboratory Science	*
Research	9

Minor Requirements **18-27 Credit Hours**
Electives **13-22 Credit Hours**
Total Credit Hours Required For Degree .. 120 Credit Hours

Political Science Minor **24 Credit Hours**

PSCI 1110 Political Life	3 credits
PSCI 1120 Intro. to American Government	3 credits
either	
PSCI 2210 Introduction to Comparative Politics or	
PSCI 2220 Introduction to World Politics	3 credits
One course at or above the 3000 level in any two of (5) five sub-fields	
..... 6 credits	
Three courses to be selected freely from the Political Science Department’s offerings	
..... 9 credits	

Transfer Students—Transfer students must meet the specific requirements for the major or minor and must complete at least nine credit hours and maintain a minimum grade point average of 2.0 in their courses

in Political Science (see section of this catalog on transfer students for other requirements).

Teacher Education—Students interested in pursuing a teacher education program for certification as a government teacher in grades 7-12 are asked to see an advisor in the Department of Political Science and the professional advisor in the College of Education in 321 Warf-Pickel Hall.

Pre-Teacher Education—Declaration of Intent/CALL students desiring to complete a teacher education program or other public school licensure program must file a Declaration of Intent in 321 Warf-Pickel Hall. For filing deadlines and other information, see the professional advisor in 321 Warf-Pickel.

Professional Education Requirements—There is a total of 36 credit hours required for professional education. Please refer to the Education Minor section in this catalog for a list of the required courses that must be taken with the professional semester.

Suggested Course Sequence for Political Science Majors*

Freshman Year

First Semester	Credit Hours
PSCI 1110 Political Life	3
ENGL 1010 Critical Reading and Expository Writing	3
Communication: Oral Communication	3
HIST 2010 The United States to 1877	3
Natural Science	4
Semester Total	16
Second Semester	Credit Hours
PSCI 1120 Introduction to American Government	3
ENGL 1020 Critical Thinking and Argumentation	3
Natural Science	4
MATH 1530 Probability and Statistics	3
HIST 2020 The United States Since 1877	3
Semester Total	16

Sophomore Year

First Semester	Credit Hours
PSCI 2210 Introduction to World Politics	3
Heritage Literature	3
Social/Behavioral Sciences	3
Minor Requirement	3
Humanities/Fine Arts	3
Semester Total	15
Second Semester	Credit Hours
Upper-Division Political Theory Course	3
Humanities/Fine Arts	3
Minor Requirement	3
Elective	3
SOAA 3210 Sociological Research	3
Semester Total	15

Junior Year

First Semester	Credit Hours
Upper-Division Comparative Politics Course	3
Upper-Division Public Law Course	3
SOAA 3444	3
Minor Requirement	3
Elective or Foreign Language	3
Semester Total	15
Second Semester	Credit Hours
Upper-Division International Relations Course	3
Minor Requirement or elective	3
Elective or Foreign Language	3
Elective	3
PSCI Elective	3
Semester Total	15

Senior Year

First Semester	Credit Hours
Upper-Division American Government Course	3
Minor Requirement or Elective	3
PSCI Elective	3
Foreign Language or PHIL 2030	3
Semester Total	12
Second Semester	Credit Hours
PSCI Elective	3
Minor Requirements or Electives	6
Electives	7
Semester Total	16
Total	120

This is only a model and may not be appropriate for all students, partly depending on whether the student is pursuing the Bachelor of Arts or one of the two options for the Bachelor of Science degree. It is highly recommended that you consult with your advisor every semester.

International Affairs (ITAF)

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010 Critical Reading and Expository Writing	3
ENGL 1020 Critical Thinking and Argumentation	3
Communication: Oral Communication*	3
Mathematics*	3-4
Natural Sciences*	8
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Literature*	3
Fine Arts*	3
Humanities*	3
Social/Behavioral Sciences*	6

**See the General Education Core Requirements for options.*

B.A. Requirements 6 Credit Hours

Select MATH 1530, 1840, or 1910	*
Foreign Language	3
<small>(See College of Arts and Sciences B.A. and B.S. Degree Requirements; consult the Foreign Language Department's placement policy at http://www.etsu.edu/cas/language/students/placement.aspx)</small>	
One course of Non-United States History	3

Major Field Core 15 Credit Hours

PSCI 1120 Introduction to American Government	3
PSCI 2210 Introduction to Comparative Politics	3
PSCI 2220 Introduction to World Politics	3
PSCI 3310 International Relations	3
PSCI 3750 International Law and Organizations	3

Major Field Electives 18 Credit Hours

Political Science 12 credits

Comparative Political Systems: Students must choose two courses (6 credits) from the following:

PSCI 3010 Chinese Politics	3
PSCI 3800 European Politics	3
PSCI 3830 Government and Politics of Latin America	3
PSCI 4820 Politics of Development and Change	3
PSCI 3870 Government and Politics of Southeast Asia	3

Issues in International Affairs: Students must choose two courses (6 credits) from the following:

PSCI 4300 International Politics	3
PSCI 3350 International Political Economy	3
PSCI 3000 Peace, Security, and Development	3
PSCI 4330 American Foreign Policy	3
ECON 4257 International Economics	3

Guided Electives 6 credits

Contemporary Societies and Cultures: Students must complete two 3-credit hour courses or one 6-credit hour course.

The following list of courses is illustrative only. These courses or others not listed should be selected in consultation with a faculty advisor.

PSCI 4007/5007 Study Abroad	6
SOAA 1240 Introduction to Cultural Anthropology	3
SOAA 3700 Peoples and Cultures of Latin America	3
HIST 3720 History of Africa	3
HIST 3740 History of Asia	3
HIST 4730 Latin America: Revolution and Nationalism	3

SPAN 3413	Civilization of Latin America	3
HIST 3340	Modern Europe	3
PUBH 4707	International Health: An Overview of Problems and Issues	3
HIST 4717	Modern Middle East	3
ECON 4527	International Economics	3

Other Credits:

Minor Program	18-28 Credit Hours
Additional university general electives	10-22 Credit Hours

Total Credit Hours Required For Degree 120 Credit Hours

**Urban Studies Minor
(URBS)**

Urban Studies Minor Requirements 21 Credit Hours

URBS 3100	Introduction to Urban and Regional Planning	3
URBS 2610	Introduction to Public Administration	3
ECON 4447	Urban and Regional Economics	3

Urban Studies Electives 12

Electives to be chosen from the following courses:

FNCE 3120	Principles of Real Estate	3
FNCE 4320	Real Estate Appraisals	3
PSCI 4160	The Idea of the City	3
PSCI 4450	Appalachian Politics	3
SOCI 4157	Sociology of the City	3
SOCI 4557	Population	3
URBS 4087	Recreation and Tourism Planning	3
URBS 4107	Urban Geography and Planning	3
URBS 4347	Economic Development Planning	3
URBS 4637	Local and Regional Planning	3

**International Studies Minor
(INTL)**

Box 70651

Phone: (423) 439-4217

Dr. Weixing Chen, Director

email: chen@etsu.edu

The International Studies Minor is an interdisciplinary program for students within all academic disciplines who would like to gain a greater appreciation for the global community and who wish to equip themselves better to perform in that community. The International Studies Minor seeks to broaden the academic perspectives of students and thereby make them sensitive to the complexities of relations and dialogues among different areas and cultures. Students completing the International Studies Minor will be better prepared to view and analyze global conditions and will be capable of creative work in the international arena.

The minor represents a highly interdisciplinary effort that draws upon the resources of several academic units across the ETSU campus. The International Studies Minor builds on the goals of the ETSU General Education Core by affording students the opportunity to confront issues of internationalization and globalization.

A minor in International Studies requires the completion of 21 hours of coursework, including two required courses:

INTL 2000	Introduction to International Studies	2
INTL 4000	International Studies Senior Seminar	1

Students are encouraged to design a course grouping for the remaining 18 hours in consultation with the International Studies Program Director and Advisory Board.

Program options are shown below. Courses listed within each option are only examples. Student course selections are not limited to those courses.

Program Option I: Requires six hours of a foreign language beyond the requirements of student's degree program or major, plus 12 hours of electives in one or two departments, to form a coherent and logical program of study.

Example:

INTL 2000	Introduction to International Studies	2
JAPN 3015	Japanese Conversation and Composition I	3

JAPN 3025	Japanese Conversation and Composition II	3
HIST 1020	World History and Civilizations Since 1500	3
HIST 3020	Minority and Ethnic History	3
HIST 3740	History of Asia	3
PSCI 3010	Chinese Politics	3
INTL 4000	International Studies Senior Seminar	1

Program Option II: Six hours of a foreign language beyond the requirements of students' degree program or major. Twelve hours of electives in up to three different departments, to form a coherent and logical program of study.

Example:

INTL 2000	Introduction to International Studies	2
GERM 2010	Second Year German I	3
GERM 2020	Second Year German II	3
GEOG 1013	Introduction to World Regional Geography	3
HIST 3340	Modern Europe	3
PSCI 3800	European Politics	3
GEOG 4307	Regional Geography	3
INTL 4000	International Studies Senior Seminar	1

Program Option III: Eighteen hours of electives in up to five different departments, to form a coherent and logical program of study. Three hours of a foreign language is optional, not required.

Example:

INTL 2000	Introduction to International Studies	2
SPAN 2010	Second Year Spanish I	3
PSCI 3830	Government and Politics of Latin America	3
SPAN 4117	Hispanic Cinema	3
GEOG 4307	Regional Geography: Latin America	3
HIST 4730	Latin America: Revolution and Nationalism	3
SOAA 3700	Peoples and Cultures of Latin America	3
INTL 4000	International Studies Senior Seminar	1

**Legal Studies Minor
(LGST)**

Box 70651

Phone: (423) 439-4217

Dr. David Briley, Director

email: briley@etsu.edu

Legal Studies Minor—The Legal Studies Minor is a 21-semester-hour interdisciplinary program which includes courses from the Departments of Political Science, Criminal Justice & Criminology, Communications, Management and Marketing, and Environmental Health. The program is designed for students who are interested in the legal system and the application of the law in specific areas, and it will complement a broad range of majors.

Required courses 12 credit hours

PSCI 3200	Law and Judicial Process	3
PSCI 3230	American Constitutional Law	3
CJCR 2540	Criminal Law	3
MGMT 3310*	Legal Environment of Business or	3
ENVH 4000	Public Health Law	3

Guided electives 9 credit hours

Select any three courses from the following:

PSCI 3205	Constitution and Civil Liberties	3
PSCI 3210	Due Process and Adjudication	3
PSCI 3220	The Supreme Court	3
CJCR 3650	Criminal Procedure	3
ENVH 4000	Public Health Law	3
MCOM 4037	Communication Law	3
MGMT 3310	Legal Environment of Business	3
MGMT 3333	Law of Commercial Transactions	3
MGMT 4600	Personnel Law	3
PHIL 4957	Special Topics in Philosophy entitled "Philosophy of Law"	3

*Prerequisite for MGMT 3330, 3333, and 4600.

For advisement, see Dr. David Briley, Department of Political Science, 219-A Rogers-Stout Hall, (423) 439-6697, e-mail: briley@etsu.edu.

**Department of Psychology
(PSYC)**

Box 70649

Phone: (423) 439-4424

The primary goals of the Department of Psychology are to encourage and support the scientific investigation of behavior and mental processes. The department's undergraduate curriculum provides general and intensive courses of study within psychology, with concentrations in general psychology, behavioral neuroscience, cognitive science, clinical psychological science, and child psychological science. All programs of study provide a well-rounded education within psychology, both for students interested in pursuing post-baccalaureate employment in psychological and human-service related professions, and for students interested in pursuing post-graduate study in psychology and related fields.

In addition to the requirements listed, a student majoring in psychology must complete requirements for the General Education Core and the College of Arts and Sciences requirements for the B.A., B.S., or the B.S. in the social and behavioral sciences, listed in this catalog under the College of Arts and Sciences.

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.
See *ETSU Academic Proficiency Requirements for details.*

TBR General Education Requirements 41 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
Communication: Oral Communication*		3
MATH 1530	Probability and Statistics	3
Natural Sciences*		8
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature*		3
Fine Arts*		3
Humanities*		3
Social/Behavioral Sciences*		6

*See the General Education Core Requirements for options.

Psychology Core Requirements for All Psychology Concentrations:

PSYC 1310	Introduction to Psychology	3
PSYC 2000	Social Psychology	3
PSYC 3100	Elementary Statistics	3
PSYC 3200/01	Principles of Psychological Research	4
PSYC 3707	Behavioral Neuroscience	3
PSYC 4010	History and Systems	3
PSYC 4320	Abnormal Psychology	3
PSYC 4321	Writing in Abnormal Psychology	1

One of the following:

PSYC 4100	Introduction to the Study of Personality	3
PSYC 4817	Introduction to Psychological Testing	3

One of the following:

PSYC 2500	Behavior Modification	3
PSYC 3600	Cognition	3
PSYC 4317	Perception	3
HDAL 4010	Managing Child Behavior	3
HDAL 4260	Learning in Human Development	3

And must take the following zero credit course six times:

PSYC 2020		0
Total Core Psychology Hours		29

Core Allied Requirements for All Psychology Concentrations:

MATH 1530*	Probability and Statistics	3
HDAL 2310	Developmental Life Span Psychology	3
PHIL 2040	Philosophy as Conversation	3
PHIL 2640**	Science and the Modern World	3
Total for Core Allied Hours		12

* Satisfies B.A. or B.S./S.S. General Education Math

** Satisfies General Education Humanities/Fine Arts elective

B.A. Requirements 6 Credit Hours

Select MATH 1530, 1840, or 1910	*
Foreign Language	3

(See College of Arts and Sciences B.A. and B.S. Degree Requirements; consult the Foreign Language Department's placement policy at <http://www.etsu.edu/cas/language/students/placement.aspx>)

One course of Non-United States History	3
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B.S. Requirements 8 Credit Hours

MATH 1850 or 1910	*
Science (in addition to General Education Core requirements)	8

B.S./S.S. Requirements 9 Credit Hours

MATH 1530 *		
Single Laboratory Science	*	
Research		6
Major Core		29
Allied Core		12
Concentration		7-19
Minor Requirements		18-24
Electives		12-15
Total Credit Hours Required for Degree		120

General Psychology Concentration:

PSYC electives	6
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Additional Allied Requirements for General Psychology:

BIOL 1010/11	Biology for Non-majors I	4
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Behavioral Neuroscience Concentration:

PSYC 4407	Psychopharmacology	3
PSYC 4707/17	Advanced Behavioral Neuroscience	4

Additional Allied requirements for Behavioral Neuroscience:

BIOL 1110/11	Biology for Science Majors I	4
BIOL 1120/21	Biology for Science Majors II	4
BIOL 1130/31	Biology for Science Majors III	4
BIOL 3100/41	General Genetics with Lab	5
BIOL 3150	Cell Biology	3
BIOL 4287	Experimental Animal Behavior	4

Recommended Allied Courses for Behavioral Neuroscience:

CHEM 1110/11	General Chemistry I	4
CHEM 1111/21	General Chemistry II	4
HSCI 3030	Biochemistry	3

Cognitive Science Concentration:

PSYC 3460	The Cognitive Growth of Infants & Children	3
PSYC 3600	Cognition	3
PSYC 4407	Psychopharmacology	3

Additional Allied Requirements for Cognitive Science:

BIOL 1010/11	Biology for Non-majors I	4
PHIL 3010	History of Ancient Philosophy	3
PHIL 3030	History of Modern Philosophy	3
PHIL 3050	Symbolic Logic	3
PHIL 4957	Special Topics: Philosophy of the Mind	3

Three of the following language courses:

CDIS 4060	Language Development	3
ENGL 3100	Introduction to Linguistics	3
ENGL 4120	Descriptive Linguistics	3
ENGL 4130	Social & Psychological Aspects of Language	3
PHIL 4957	Special Topics: Philosophy of Language	3

Clinical Psychological Science Concentration:

PSYC 4817	Introduction to Psychological Testing	3
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Take one of the following child-oriented courses:

PSYC 3470	Psychosocial Growth of Infants & Children	3
PSYC 4607	Child Psychopathology	3

Take two of the following applied courses:

PSYC 3500	Ecopsychology	3
PSYC 3700	Health Psychology	3
PSYC 4407	Psychopharmacology	3
PSYC 4807	Forensic Psychology	3
Senior Level Internship or Service-Learning or Independent Study or Honor's Thesis		3
Other courses with chair approval		

Additional Allied Requirements for Clinical Psychological Science:

BIOL 1110/11	Biology for Science Majors I	4
SOCI 1020	Introduction to Sociology	3
SOCI 2000	Marriage and the Family	3
SOCI 2020	Social Problems	3
SOCI 3030	Gender and Society	3
SOCI 3300	Deviant Behavior	3
SOCI 4087	The Family in Transition	3
SPCH 3350	Interpersonal Communication	3

Child Psychological Science Concentration:

PSYC 3460	The Cognitive Growth of Infants & Children	3
PSYC 3470	The Psychosocial Growth of Infants & Children	3
PSYC 4607	Child Psychopathology	3

Additional Allied Requirements for Child Psychological Science:

BIOL 1010/11	Biology for Non-majors I	4
CDIS 4060	Language Development	3
SOCI 3320	Juvenile Delinquency	3
HDAL 2320	Child Psychology	3
HDAL 3310	Educational Psychology	3
HDAL 4010	Managing Child Behavior	3
HDAL 4011	Developmental Psychology II	3
HDAL 4260	Learning in Human Development	3
HDAL 4666	Cultural Influences in Development	3

No grade below a C will be accepted in psychology major courses.

Psychology majors also are required to complete a minor in another discipline. Students completing the following concentrations will automatically complete the coursework sufficient for the indicated minor:

Concentration	Minor
Behavioral Neuroscience	Biological Sciences
Cognitive Science	Philosophy
Clinical Psychology	Sociology
Child Psychological Science	Human Development and Learning

Minor—Nineteen hours in psychology are required. No grade below C will be accepted in minor courses.

Psychology Minor Requirements 19 Credit Hours

PSYC 1310	Introduction to Psychology	3
PSYC 2000	Social Psychology	3
PSYC 3100	Elementary Statistics	3
PSYC 3200, 3201	Principles of Psychological Research	4
Psychology Electives		6

Advising—Academic and professional advising is recommended for all psychology majors. Students are expected to read the catalog to determine requirements for the degree they are seeking. Students are responsible for knowing the program requirements.

Teacher Education—Students interested in pursuing a teacher education program for certification as a psychology teacher in grades 7-12 are asked to contact the area psychology advisor in the Office of Student Services, 321 Warf-Pickel Hall, College of Education.

Pre-Teacher Education—Declaration of Intent Call ETSU students desiring to complete a teacher education or other public school licensure program (for initial licensure, add-on endorsement, or advanced study in education) must file a Declaration of Intent in the Office of Student Services, 321 Warf-Pickel Hall. The Declaration of Intent should be filed before 30 credit hours of coursework have been completed or, in the case of transfer and post-baccalaureate students, in the first semester at ETSU. Delay or failure to file the Declaration of Intent may result in incomplete advisement. Students who have not filed the Declaration of Intent will

not be considered for admission to teacher education and may be ineligible to enroll in many professional education courses.

Please refer to the Professional Education Requirement section in the Department of Education in this catalog for a list of the required courses.

Graduate Study—The Department of Psychology offers a master of arts degree in psychology, with options in general and clinical psychology, as well as a Ph.D. in Clinical Psychology. Further information on graduate programs is provided in the Graduate Catalog.

**Suggested Course Sequence
for all B.S. Psychology Majors with a Concentration
in the Social and Behavioral Sciences***

Freshman Year

First Semester	Credit Hours
ENGL 1010 Critical Reading and Expository Writing	3
Social/Behavioral Sciences	3
HIST 2010 The United States to 1877	3
PHIL 2030 or SPCH 2320	3
Elective	3
Semester Total	15

Second Semester	Credit Hours
ENGL 1020 Critical Thinking and Argumentation	3
MATH 1530 Probability and Statistics	3
HIST 2020 The United States Since 1877	3
PSYC 1310 Introduction to Psychology	3
Fine Arts	3
Semester Total	15

Sophomore Year

First Semester	Credit Hours
BIOL 1110/11 Biology for Science Majors Lecture/Lab I	4
HDAL 2310 Developmental Psychology	3
Communication: Oral Communication	3
Literature	3
Semester Total	13

Second Semester	Credit Hours
BIOL 1120/21 Biology for Science Majors Lecture/Lab II	4
BIOL 1130/31 Biology for Science Majors Lecture/Lab III	4
PSYC 2000 Social Psychology	4
PHIL 2640 Science and the Modern World	3
PHIL 2040 Philosophy as Conversation	3
Semester Total	14

Junior Year

First Semester	Credit Hours
Minor Course	6
PSYC 3707 Behavioral Neuroscience	3
PSYC 3100 Elementary Statistics	3
Electives	5
Semester Total	17

Second Semester	Credit Hours
PSYC 3200/01 Principles of Psychological Research and Lab	4
PSYC 4100 or 4817	3
Minor Course	3
General Elective	3
PSYC 4320 Abnormal Psychology	3
PSYC 4321 Writing in Abnormal Psychology	1
Semester Total	17

Senior Year

First Semester	Credit Hours
PSYC 4010 History & Systems of Psychology	3
Minor Course	3
Electives	6
PSYC Elective	3
Semester Total	15

Second Semester	Credit Hours
Minor Course	6
Electives	8
Semester Total	14
Total	120 Credit Hours

B.S. Requirements 8 Credit Hours

MATH 1850 or 1910	*
Science (in addition to General Education Core requirements)	8

Minor Requirements 18-27 Credit Hours

Electives	13-22 Credit Hours
Total Credit Hours Required For Degree ..	120 Credit Hours

B.S./S.S. Requirements 3 Credit Hours

MATH 1530	*
Single Laboratory Science	*
Research	3

Minor Requirements 18-27 Credit Hours

Electives	10-19 Credit Hours
Total Credit Hours Required For Degree ..	120 Credit Hours

**Religious Studies Minor
(RELI)**

Box 70656

Rogers-Stout 322

Phone: (423) 439-4425

Dr. Keith Green, Director

email: greenj@etsu.edu

The Religious Studies Minor is a 21-credit hour interdisciplinary program of study hosted by the Philosophy Department, and including faculty and courses from the departments of History, Sociology and Anthropology, English, Appalachian Studies, and other fields. The program is designed for students interested in the historical, social, scientific, and philosophical study of religions and religious thought throughout the world. It may be elected as preparation for professional graduate education in theology or ministry. Students specifically interested in critical and philosophical issues in the study of religions may also concentrate in religious studies within the philosophy major (see Philosophy Major [PHIA] Philosophy and Religious Studies Concentration [RELI]).

Religious Studies Minor 33 Credit Hours

A minimum of 21 hours is required, including :

RELI 2210 Intro. to the Study of Religion	3
At least one (1) course in western religions	3
At least one (1) course in non-western religions	3
PHIL 4047 Philosophy of Religion	3

Other courses in philosophy do not count toward a minor in religious studies without the approval of the department. The following courses from other departments or other previously approved courses may be included.

ENGL/RELI 3280 Mythology	3
APST/RELI 3530 Religion in Appalachia	3
SOAA/RELI 3800 Religion, Society, and Culture	3
HIST/RELI 3910 History of Christianity	3
HIST/RELI 3920 History of Islam	3

It is possible to major in philosophy and minor in religious studies.

For students interested in preparation for seminary or divinity school, professional graduate education in theology or ministry:

Many students major in philosophy with a religious studies concentration, or minor in religious studies as a way to prepare for seminary or divinity school. (The MDiv—Master of Divinity—is the standard professional degree for students preparing for a career requiring ordination to the ministry or rabbinate.) The American Association of Theological Schools advises students to major in any humanities or social science field. While previous study in the area of religious studies and philosophy is recommended, it is not required for admission to programs of professional study leading to the MDiv. RELI 3240 (“Hebrew Scriptures”) and RELI 3250 (“Greek Scriptures”) are relevant for students interested in the Christian and Jewish traditions. Students aiming to apply to university divinity schools, or whose interest in the study of religions is primarily academic (as opposed to vocational) are strongly advised to earn a B.A. degree with at least a minor in religious studies, including SOAA 3800 (“Religion, Society, and Culture”). It is also important to complete at least 6 hours in German, French, or in a classical language at the 3000 level.

Department of Social Work (SOWK)

Box 70645

Phone: (423) 439-6006

B.S.W. Major Accredited by: Council on Social Work Education

The Department of Social Work offers an undergraduate curriculum leading to the bachelor of social work (B.S.W.) degree. The program provides a basic knowledge of the social welfare system, the social work profession, and the professional knowledge, values, and skills necessary for entry-level professional social work practice as a generalist. The program also prepares students to pursue graduate study in social work and related professions.

The program builds upon a liberal arts base and encompasses an interdisciplinary perspective, drawing from such fields as psychology, sociology, political science, and human biology.

The program’s overall mission is to prepare students with the competencies that reflect the core values and ethical obligations necessary for generalist practice in the social work profession. The mission of ETSU’s B.S.W. program is consistent with ETSU’s mission and supports the philosophy and purpose of social work in promoting human dignity and community well-being through the promotion of social and economic justice, the prevention of conditions that limit human rights, the elimination of poverty, and the enhancement of the quality of life for all persons. The total program functions to provide leadership and instruction that will ensure preparation of a continuous pool of social work graduates who are able to assume professional positions in a variety of social welfare settings, especially in Northeastern Tennessee and the southern Appalachian region.

The faculty believes that the philosophy of social work must be demonstrated as it is taught and, as such, must be incorporated into not only faculty-student relationships but also relationships between the program and the social work practice community. The social work faculty believes that social workers should function in accordance with the profession’s purpose and with adherence to the profession’s ethical canon and therefore programmatically emphasizes acceptance of difference between and among individuals, as well as within and among groups and other larger systems.

The Baccalaureate social work program’s mission, which is consistent with ETSU’s mission, is reflected and implemented in the six broad goals of the program. The B.S.W program aims to:

1. provide a sound educational environment that nurtures learning, stimulates self-reflection, encourages open dialogue, and is characterized by honesty, integrity, trust, and respect;
2. draw on students’ liberal arts foundation to build the knowledge, skills, values, ethics, and professional identity necessary for competent entry-level generalist practice in various contexts and all levels of practice;
3. ensure a knowledge base in human behavior theories that supports intervention at multiple levels in order to improve the quality of life for all citizens, especially those who are disadvantaged;
4. prepare students to comprehend current social welfare policies’ history, socio-politico-economic contexts, provisions, and consequences of client systems, as well as to advocate for more effective policies, programs, and services to advance social well-being;
5. motivate and prepare students for use of research tools to critically evaluate the program and service delivery systems that employ social workers;
6. prepare students to meet social welfare needs in a culturally competent manner with diverse populations, giving attention to Northeast Tennessee and surrounding areas.

B.S.W. Program Competencies

As a result of the B.S.W. experience, graduates will be able to:

1. identify as a professional social worker and conduct oneself accordingly;
2. apply social work ethical principles to guide professional practice;
3. apply critical thinking to inform and communicate professional judgments;
4. engage diversity and difference in practice;
5. advance human rights and social and economic justice;
6. engage in research-informed practice and practice-informed research;
7. apply knowledge of human behavior and the social environment;
8. engage in policy practice to advance social and economic well-being and to deliver effective social work services;
9. respond to contexts that shape practice;
10. engage, assess, intervene, and evaluate with individuals, families, groups, organizations, and communities.

Social work majors must take 41 credit hours to fulfill the General Education Core Requirements, 48 credit hours of social work courses, 6

credit hours of cognates, and the remainder of credit hours in academic proficiencies and electives, for a total of 120 credit hours required for graduation. Social work majors must complete 12 credit hours in social and behavioral sciences. Six credit hours in the social and behavioral sciences, Sociology 1020 and Psychology 1310, are taken as part of the General Education Core Requirements. The remaining six hours are required cognates, Political Science 1120 and HDAL 2310. As part of the General Education Core Requirements, social work majors must complete 8 credit hours in the sciences, with 4 of those credits in human biology chosen from the following list: Biology 1010/11, 1110/11, or Health Sciences 2010/11. The remaining 4 credit hours of science can be fulfilled by any of the other core science courses. Math 1530 is required to fulfill the General Education Core Requirement in math.

All social work majors are required to complete the curriculum outlined below. All students who enroll in social work courses must comply with course sequencing and course prerequisites. Academic credit for life experience and previous work experience shall not be given in whole or in part, in lieu of the field practicum or any other required social work course.

Social Work Major—Forty-eight credit hours in social work plus Political Science 1120 and HDAL 2310. A grade of C- or below will not be accepted in the required SOWK courses offered by the program and in English composition. A minor is not required for social work majors.

Admission—Social work is a *professional* program of education and training and therefore requires comprehensive academic standards throughout the program. The Baccalaureate Social Work (BSW) Program Committee has identified academic performance standards that fall into 7 categories: scholastic, professional values and ethics, self-awareness, interpersonal relationship skills, responsibility and professional readiness, critical thinking and problem-solving abilities, and communication skills, as advanced in the program's *Academic Performance Standards for Admission, Retention, and Graduation*. These academic performance standards with essential behaviors in each category are primary indicators of professional readiness for practice in the field of social work. Students must demonstrate ability to meet these standards in order to be admitted to the program.

The academic performance standards are applied when the student meets with the BSW Program Director to open his/her file in the department. When a student meets with the BSW Program Director to set up his or her student file, s/he will be given a copy of the *Academic Performance Standards* as part of the process.

Requirements for submitting an application for admission to the Social Work Program:

1. Completion of, with a "C" or better, Introduction to Social Work (SOWK 1010), Professional Values and Ethics (SOWK 1020), and Cultural Diversity (SOWK 1030). *A grade of "C-" does not meet this criterion.*
2. A minimum overall grade point average of 2.25 and a 2.5 average in the three required social work courses.
3. Completion of 60 clock hours of face-to-face human service activity, paid or volunteer, in one or more social service agencies.

Students must complete and submit to the BSW Director the following documents that are included in the application packet:

1. An Application Cover Sheet that provides demographic and contact information.
2. A Student Self-Assessment rubric for rating personal and academic aptitude for a career in social work.
3. Documented completion of 60 hours of human service activity on a Human Service Activity form. The activity must be pre-approved by the BSW Program Director and evaluated by the student's supervisor at the agency or organization.
4. A Personal Statement essay that addresses the student's background information, human service experience, social problems of concern, areas of needed professional development, and any additional information that would support the application or should be considered by the Admission Committee.

5. A recent photo (for use in identifying students when they later request a reference letter).

Criteria for acceptance into the Social Work Program:

1. Submission of a completed application packet by October 1 for entry to the program in the spring semester or March 1 for entry to the program the following fall semester. If the application deadline does not fall on a day the institution is in session, the application is due the first school day following the deadline date.
2. Satisfactory performance during the 60 hours of human service activity, as indicated by the student's supervisor on the reference checklist, located on the back of the Human Service Activity form.
3. Positive feedback from social work instructors during the admission process on overall academic performance in completed social work courses.
4. All application materials demonstrate potential and suitability for the social work profession, as defined in the program's Academic Performance Standards.

An Academic Performance Review may be scheduled if the student's application or input from faculty suggests the student's inability to meet any of the program's Academic Performance Standards when his or her application is reviewed by the BSW Program Committee.

Only students who have formally applied for admission to the program and been approved are eligible to take Social Work Practice I and II. Transfer students, as well as ETSU students who declare social work as their major, must arrange an interview with the B.S.W. Program Director during their first semester in social work in order to open a file and complete other paperwork.

Continuance and Termination—Continuance in the program requires compliance with admission requirements and suitability standards, as outlined in the program's Academic Performance Standards and Code of Conduct. (See Student Handbook and www.etsu.edu/socialwork.)

Nondiscrimination—Every aspect of the Social Work program's organization and implementation is conducted without discrimination on the basis of race, color, gender, age, creed, ethnic or national origin, disability, or political or sexual orientation.

Advising—Advising, both academic and professional, is essential in social work education. Therefore, advising of all social work majors is required throughout their period of study. Students must sign up for appointments with their advisors during each pre-registration period to be advised and cleared for registration. Until students are in a semester during which they will complete 45 credit hours, they will be advised in the ARC, after first meeting with the B.S.W. Program Director to open a file in the social work department.

Field Instruction—"Social Work Field Experience" 4453 must be taken during the student's senior year after completion of all required major courses and General Education Core courses. An overall grade point average of 2.25 and a 2.50 grade point average in required social work courses are prerequisites to field experience. Also, only students whose written application to major in social work has been approved are eligible for the field experience.

Students are assigned full time to an agency, where they provide services to consumers under the supervision of a social work field instructor. A list of field instruction agencies is available in the Department.

School Social Work Licensure—Licensure by the Tennessee State Department of Education is available to social work majors who successfully complete the requirements for a B.S.W. degree plus the following three courses:

- SPED 2300 Exceptional Learners in Schools & Comm.
- EDFN 3301 Issues in Education
- SOWK 4467 School Social Work

Information about licensure exams is available from the Certification Analyst in the College of Education.

**Bachelor of Social Work (B.S.W.)
Social Work Major (SOWK)**

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses are SOWK courses. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses is a SOWK course.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, “Using Information Technology,” during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students will complete one technology-intensive course as part of the SOWK coursework.

Transfer students may be subject to a reduced number of intensives.

See *ETSU Academic Proficiency Requirements for details.*

TBR General Education Requirements 41 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
Communication:	Oral Communication*	3
MATH 1530	Probability and Statistics	3
BIOL 1010/11, 1020/21, 1110/11	or	
HSCI 2010/11	Anatomy and Physiology	4
Natural Sciences*		4
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Humanities and Fine Arts *		9
SOCI 1020	Introduction to Sociology	3
PSYC 1310	Introduction to Psychology	3

*See the General Education Core Requirements for options.

Social Work Major Requirements 48 Credit Hours

SOWK 1010	Introduction to Social Work	3
SOWK 1020	Professional Values and Ethics	3
SOWK 1030	Cultural Diversity	3
SOWK 2500	Interviewing and Recording Skills	3
SOWK 3000	Human Behavior/Social Environment I	3
SOWK 3010	Human Behavior/Social Environment II	3
SOWK 3430	Social Welfare Policy and Services	3
SOWK 4210	Social Work Research	3
SOWK 4310	Social Work Practice I	4
SOWK 4320	Social Work Practice II	4
SOWK 4453	Social Work Field Practicum	16

Cognate Requirements in Social and Behavioral Sciences 6 Credit Hours

PSCI 1120	Introduction to American Government	3
HDAL 2310	Developmental Life Span Psychology	3
Electives		25 Credit Hours

Total Hours Required for Degree 120 Credit Hours

** If two writing-intensive courses are not taken as part of fulfilling core requirements, and if student does not test out of CSCI 1100, the number of credit hours available for use as electives is reduced accordingly.

**Suggested Course Sequence
Freshman Year**

First Semester		Credit Hours
SOWK 1010	Introduction to Social Work	3
SOWK 1020	Professional Values and Ethics	3
ENGL 1010	Critical Reading and Expository Writing	3
SOCI 1020	Introduction to Sociology	3
MATH 1530	Probability and Statistics	3
Semester Total		15
Second Semester		Credit Hours
SOWK 1030	Cultural Diversity	3
ENGL 1020	Critical Thinking and Argumentation	3
BIOL 1010/11 or 1020/21, 1110/11 or HSCI 2010/11		4
PSYC 1310	Introduction to Psychology	3
CSCI 1100	Using Information Technology	3
Semester Total		16

Sophomore Year

First Semester		Credit Hours
SOWK 2500	Interviewing and Recording Skills	3
HIST 2010	The United States to 1877	3
Literature		3
HDAL 2310	Developmental Life Span Psychology	3
PSCI 1120	Introduction to American Government	3
Semester Total		15

Second Semester		Credit Hours
HIST 2020	The United States Since 1877	3
Humanities/Fine Arts		3
Natural Science		4
SOWK 3430	Social Welfare Policy and Services	3
SPCH 1300, 2300, or 2320		3
Semester Total		16

Junior Year

First Semester		Credit Hours
SOWK 3000	Human Behavior I	3
SOWK 3010	Human Behavior II	3
Humanities/Fine Arts		3
Electives		6
Semester Total		15
Second Semester		Credit Hours
SOWK 4310	Social Work Practice I	4
SOWK 4320	Social Work Practice II	4
Electives		6
Semester Total		14

Senior Year

First Semester		Credit Hours
SOWK 4210	Social Work Research	3
Electives		10
Semester Total		13
Second Semester		Credit Hours
SOWK 4453	Field Experience	16
Semester Total		16
Total		120

Requirements for all Social Work Minors

Social Work Minor Requirements 18 Credit Hours

(The Council on Social Work Education does not accredit minor programs of study.)

SOWK 1010	Introduction to Social Work	3
SOWK 1020	Professional Values and Ethics	3
SOWK 1030	Cultural Diversity	3

Other Course Options

Students must choose nine (9) additional credits from the following list of options:

SOWK 3000	Human Behavior/Social Environment I	3
SOWK 3010	Human Behavior/Social Environment II	3
SOWK 3430	Social Welfare Policy and Services	3
SOWK 4367	Seminar in Drug/Alcohol Abuse	3
SOWK 4517	Crisis Intervention	3
SOWK 4567	Human Sexuality	3
SOWK 4957	Special Topics in Social Work	3-6

(See prerequisites under course listing.)

A grade of C- or below will not be accepted for SOWK courses taken for the minor and no more than six (6) hours will be accepted as transfer SOWK credit.

TRANSFER STUDENTS

Course Sequencing and Suggested Schedule

The plan below for entry to ETSU assumes that SOWK 1010 (Intro), PSYC 1310 (Intro), SOCI 1020 (Intro), MATH 1530, CSCI 1100 (or test out), and one human biology course (BIOL 1010/11, 1020/21, 1110/11, or HSCI 2010/11) have been taken prior to ETSU matriculation. Other courses on the ETSU social work degree plan that have not been taken at another institution can be used to fill in each semester’s schedule. Requests to receive credit for transfer courses in social work must be submitted to the B.S.W. Program Director who, along with other faculty, will determine course equivalency using submitted documentation such as copies of the catalog course description, course syllabus, and the name of the course text. Credit for SOWK courses numbered 2000 and above must be from a program accredited by CSWE.

First Semester		Credit Hours
SOWK 1020	Professional Values and Ethics	3
SOWK 1030	Cultural Diversity	3
HDAL 2310	Life Span Development	3
PSCI 1120	American Government	3
Semester Total		12 Credit Hours
Second Semester		Credit Hours
SOWK 2500	Interviewing and Recording	3
SOWK 3430	Social Welfare Policy and Services	3
SOWK 3000	Human Behavior/Social Env. I	3
SOWK 3010	Human Behavior/Social Env. II	3
Semester Total		12 Credit Hours

Third Semester		
SOWK 4210	Social Work Research	3
SOWK 4310	Social Work Practice I	4
SOWK 4320	Social Work Practice II	4
Semester Total		11 Credit Hours
Fourth Semester		
SOWK 4453	Field Practicum	16
Semester Total		16 Credit Hours

**Department of Sociology and Anthropology
(SOAA)**

Box 70644 Phone: (423) 439-4370

email: Harville@etsu.edu

Sociology is the study of people interacting with others individually, in groups, and in social systems. Anthropology is the holistic study of the human experience over time and across cultures. An understanding of people, culture, and society will prepare the graduate for useful employment in many occupations and professions, as well as further study at the graduate level. Students can earn a major or minor in anthropology and in sociology. For other students, courses in sociology and anthropology offer excellent electives in any degree program. In addition to specific department requirements listed below, students must complete requirements for the general education core and requirements specific to the College of Arts and Sciences degrees of B.A., B.S., or B.S./S.S. (social and behavioral sciences concentration). Note: Students who major or minor in anthropology *and* sociology cannot apply credit from one field to the other. All cross-listed sociology and anthropology courses (identified as "SOAA") can be counted toward either field, but cannot be counted toward both.

Sociology Major (Bachelor of Arts, Bachelor of Science)—A student majoring in sociology must complete 30 credit hours of approved courses. In addition to maintaining an overall grade point average of at least 2.0 in the major, a student must earn a grade of C or above in each required course in the major.

TBR General Education	41-42 Credit Hours	
ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
Mathematics*	.....	3-4
Communication: Oral Communication*	.....	3
Natural Science*	.....	8
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature	.....	3
Fine Arts*	.....	3
Humanities*	.....	3
Social/Behavioral Sciences*	.....	6

**See the General Education Core Requirements*

Intensive Courses—Students who enter ETSU as freshmen or with less than 50 transfer hours must take: two oral communication-intensive courses, of which one must be in the major; one using information technology intensive course in the major; four writing-intensive courses, at least two of which must be in the major and at least two must be at the 3000-4000 level. Students must meet proficiency-intensive requirements through courses taken at ETSU.

Sociology (B.S.) Major Requirements	30 Credit Hours	
SOCI 1020	Introduction to Sociology	3
SOCI 2020	Social Problems	3
SOCI 3210	Sociological Research	3
SOAA 3350	Social Statistics	3
SOCI 3444	Data Analysis	3
SOCI 4057	Community Sociology	3
SOCI 4807	Modern Social Theory	3
SOCI or SOAA Electives**	.....	9

*** Students must choose elective courses in consultation with a sociology advisor.*

B.S. Requirements	8 Credit Hours
MATH 1850 or MATH 1910	*
Science (in addition to General Education Core requirements)	8

B.S./S.S. Requirements	3 Credit Hours
MATH 1530	*
Science	*
Social Statistics	**
Reasoning and Argumentation	3
Research Design	**

** Satisfies TBR General Education Core Requirement.*

*** Satisfied with major courses*

Sociology Major (B.A.) Requirements	30 Credit Hours	
SOCI 1020	Introduction to Sociology	3
SOCI 2020	Social Problems	3
SOCI 3210	Sociological Research	3
SOAA 3350	Social Statistics	3
SOCI 4057	Community Sociology	3
SOCI 4807	Modern Social Theory	3
SOCI or SOAA Electives**	.....	12

*** Students must choose elective courses in consultation with a sociology advisor.*

B.A. Requirements	6 Credit Hours
Foreign Language	3
<i>(See College of Arts and Sciences B.A. and B.S. Degree Requirements; consult the Foreign Language Department's placement policy at http://www.etsu.edu/cas/language/students/placement.aspx)</i>	
1 course of Non-United States History	3
MATH 1530, 1840, or 1910	*

Minor Requirements	18-26 Credit Hours
Electives	16-31 Credit Hours
Total Hours Required for Degree	120 Credit Hours

Sociology Minor—A minor consists of 18 credit hours of study in sociology. Students must earn at least a C in each required course in the minor and achieve an overall grade point average of 2.0 in courses counted for the minor.

Sociology Minor Course Requirements	18 Credit Hours	
SOCI 1020	Introduction to Sociology	3
SOCI 2020	Social Problems	3
SOCI 3210	Sociological Research	3
SOCI or SOAA Electives **	.....	9

*** Students must choose elective courses in consultation with a sociology advisor.*

Anthropology Major (Bachelor of Arts) — A student majoring in anthropology must complete 33 credit hours of approved courses. In addition to maintaining an overall grade point average of at least 2.0 in the major, a student must earn a minimum grade of C in each major core course. Students are strongly advised to complete ANTH 1240, ANTH 1260, and ANTH 1280 before enrolling in other required or elective anthropology courses.

TBR General Education	41-42 Credit Hours	
ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
Mathematics*	.....	3-4
Communication: Oral Communication*	.....	3
Natural Science*	.....	8
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature	.....	3
Fine Arts*	.....	3
Humanities*	.....	3
Social/Behavioral Sciences*	.....	6

**See the General Education Core Requirements*

Intensive Courses—Students who enter ETSU as freshmen or with less than 50 transfer hours must take: two oral communication-intensive courses, of which one must be in the major; one using information technology-intensive course in the major; four writing-intensive courses, at least two of which must be in the major and at least two must be at the 3000-4000 level. Students must meet proficiency-intensive requirements through courses taken at ETSU.

Anthropology Major Core Requirements	15 credit hours	
ANTH 1240	Introduction to Cultural Anthropology	3
ANTH 1260	Introduction to Archaeology	3
ANTH 1280	Introduction to Physical Anthropology	3
SOAA 3350	Social Statistics	3
ANTH 4830	Anthropological Theory	3

Guided Electives 18 credit hours
 Students must choose one course from each focus area:

Archaeology 3 credit hours
 ANTH 4007 Archaeology of the Southeastern US 3
 ANTH 4017 Historic Native American Cultures of the Southeastern US 3
 ANTH 4037 Old World Archaeology 3
 ANTH 4400 Archaeological Field School 3-6

Biology and Culture 3 credit hours
 ANTH 3400 Human Osteology and Paleontology 3
 ANTH 4240 Primatology 3

Culture Studies 3 credit hours
 ANTH 2150 American Folk Music 3
 SOAA 3700 Peoples and Cultures of Latin America 3
 SOAA 4357 Mass Communication and Popular Culture 3
 ANTH 4567 Scottish Ethnology 3
 ANTH 4630 Native American Cultures in Contemporary Society 3

Health and Culture 3 credit hours
 ANTH 3070 Medical Anthropology 3
 ANTH 3080 Nutritional Anthropology 3
 ANTH 3250 Environmental Anthropology 3
 ANTH 3500 Appalachian Folk Medicine 3

Aside from the five required core courses and the four required focus area course electives, students must take two other elective courses: students may choose two additional courses from the focus areas listed above, one of the elective courses listed below, or a special topics course in anthropology.

ANTH 2040 Folk Culture in the Modern World 3
 ANTH 3260 Visual Anthropology 3
 SOAA 3800 Religion, Society, and Culture 3
 ENGL 3100 Introduction to Linguistics 3
 ANTH 4070 Practicing Anthropology 3
 SOAA 4410 International Field Experience 3
 SOAA 4627 Ethnographic Field Work Techniques 3
 ANTH 4900 Independent Study 3

B.A. Requirements 6 Credit Hours
 Foreign Language 3
(See College of Arts and Sciences B.A. and B.S. Degree Requirements; consult the Foreign Language Department's placement policy at <http://www.etsu.edu/cas/language/students/placement.aspx>)
 1 course of Non-United States History 3
 MATH 1530, 1840, or 1910 *

Minor Requirements 18-26 credit hours
Electives 10-25 credit hours
Total Hours Required for Degree 120 credit hours

Anthropology Minor—A minor in anthropology requires the completion of 18 credit hours. Students must earn at least a grade of C in each required course in the minor and achieve an overall grade point average of 2.0 in courses counted for the minor.

Anthropology Minor Course Requirements 18 Credit Hours
 ANTH 1240 Introduction to Cultural Anthropology 3
 ANTH 1260 Introduction to Archaeology 3
 ANTH 1280 Introduction to Physical Anthropology 3
 ANTH or SOAA Electives * 9

* Students are strongly advised to complete ANTH 1240, ANTH 1260, and ANTH 1280 before enrolling in anthropology elective courses.

Transfer Students—Transfer students must meet the specific requirements for the sociology major and minor, or the anthropology minor. There is no predetermined maximum number of credit hours that a transfer student may apply to the sociology or anthropology curriculums. The final decision will be made by the department chair.

Teacher Education—Students interested in pursuing a teacher education program for certification as a sociology teacher in grades 7-12 are asked to speak both with an advisor in the Department of Sociology and Anthropology AND the professional advisor in the Office of Student Services, 321 Warf-Pickel, College of Education.

Pre-Teacher Education—Declaration of Intent—All ETSU students desiring to complete a teacher education or other public school licensure program (for initial licensure, add-on endorsement, or advanced study in education) must file a Declaration of Intent in the Office of Student

Services, 321 Warf-Pickel Hall. The Declaration of Intent should be filed before 30 credit hours of coursework have been completed or, in the case of transfer and post-baccalaureate students, in the first semester at ETSU. Delay or failure to file the Declaration of Intent may result in incomplete advisement. Students who have not filed the Declaration of Intent will not be considered for admission to teacher education and may be ineligible to enroll in many professional education courses.

Professional Education Requirements—There is a total of 33 credit hours required for Professional Education. Please refer to the education minor section in this catalog for a list of the required courses that must be taken with the professional semester.

Graduate Study—The Department of Sociology and Anthropology offers graduate programs leading to a master of arts degree. Further information on graduate programs is contained in the Graduate Catalog.

Technical Writing Minor
ENGL

Box 70683 **Phone: (423) 439-5991**
www.etsu.edu/English

Dr. Darryl Haley
 106 Burleson Hall

Total Credits 24 credit hours
Concentration 15 credit hours
 ENGL 3130 Advanced Composition 3
 ENGL 3134 Computers, Writing, and Literature 3
 ENGL 4057 Writing: Theory and Teaching 3
 ENGL 4100 Writing in the Professions 3
 ENGL 4857 Technical Writing 3

Electives 9 credit hours

Nine hours of approved electives related directly to technical writing are required for this minor. Electives must be 3000- or 4000-level courses directly related to technical writing. Electives may include the following:

ENGL 4957 Topics in English: Grant Writing
 ENGL 4957 Topics in English: Advanced Expository Writing
 ENGL 4957 Topics in English: Writing for Business/Government

The department's Technical Writing Program Director may approve courses from other departments in the university as electives for this minor. The following are examples of courses that may be included as electives:

ENGL 3250 Professional Communication I
 MCOM 4037 Communications Law
 ENGL 4910 Independent Study

Directions and Restrictions: Other courses may be approved by the department's Technical Writing Program Director. Courses taken toward a major in English may not be applied to this minor. The English Department may allow students to enroll in approved three-credit-hour courses offered by other departments, if those courses are directly related to technical writing, to substitute for up to three of the 3000-level courses required for the minor.

Possible Additional Course Offerings: Additional special topics courses may be offered as electives for this minor.

Women's Studies Major

Box 70262 **Phone: (423) 439-4125**

Director: Dr. Amber Kinser
 e-mail: kinsera@etsu.edu

Women's Studies offers students an interdisciplinary education that examines social processes, history, culture, politics, health, media, and justice as they relate to women. This program of study promotes an increased awareness of gender issues and highlights the relationships between race, class, and gender. Courses are designed to help students develop philosophical and historical perspectives on gender, to appreciate women's contributions

to the arts, sciences, and humanities, and to make informed choices as individuals and professionals.

Women's studies graduates are prepared to take leadership roles, particularly in positions that require training in women's and diversity issues. Fields such as criminal justice, politics, health care, teaching, social work, communications, and activism all call for the knowledge and skills students attain through coursework in women's studies. In any chosen career, women's studies graduates serve as a progressive voice for change and equality.

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See *ETSU Academic Proficiency Requirements* for details.

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
	Communication: Oral Communication*	3
	Mathematics	3-4
	Natural Sciences*	8
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
	Literature*	3
	Fine Arts*	3
	Humanities*	3
	Social/Behavioral Sciences*	6

*See the General Education Core Requirements for options.

Women's Studies Major Requirements 36 Credit Hours

Bachelor of Arts Degree Requirements* 6 Credit Hours

Foreign Language	3
<small>(See College of Arts and Sciences B.A. and B.S. Degree Requirements; consult the Foreign Language Department's placement policy at http://www.etsu.edu/cas/language/students/placement.aspx)</small>	
Non-United States History	3

*The Mathematics requirement is fulfilled with the General Education Mathematics.

Minor	.....	18-24 Credit Hours
Electives	.....	10-16 Credit Hours
Total Hours Required for Degree	.....	120 Credit Hours

Women's Studies Major Requirements

WMST 2010	Introduction to Women's Studies	3
WMST 2020	Women in Global Perspective	3
WMST 3330	Feminist Thought and Practice	3
WMST 4500	Senior Capstone	3

One of the following Women and Cultural Production Courses:

ARTH 4117	Women Artists and Their Art	3
ENGL 3500	Women Authors	3
ENGL 4087	Themes in Women's Literature	3
ENGL 4290	Film Genres: Women in Film	3
PHIL 3110	Philosophies of Feminism	3

One of the following Women's History courses:

HIST 4237	Women in the Ancient World	3
HIST 4247	History of Women in US Settlements to 1945	3
HIST 4837	American Women Since WW II	3
HIST 4956	Women in Appalachia	3

One of the following Civic Engagement courses:

SPCH 3346	Speaking for Social Change	3
WMST 4080	Women's Studies Internship	3
ELPA/MGMT 4460	Leadership Studies	3

Five elective courses chosen from general electives below, or unduplicated from any of the above:

CJCR 4950	Women and Crime	3
FCNU 4507	Social Concerns in Women's Health	3
HDAL 2340	Understanding Cultural Diversity ¹	3
PSYC 3300	Psychology of Women	3
SOCI 3030	Gender and Society	3
SOWK 1030	Cultural Diversity ¹	3
SPCH 4200	Gender and Communication	3
WMST 4018	Honors Thesis	3
WMST 4500	Senior Capstone	3
WMST 4900	Independent Study	3
WMST 4950	Issues in Women's Movement	3
WMST 4957	Special Topics in Women's Studies	3
Women's Studies Emphasis courses (max of two) ²		
Other approved special topics courses ³		

¹ Students can count either HDAL 2340 ("Understanding Cultural Diversity") or SOWK 1030 ("Cultural Diversity") toward the major, but not both.

² Women's Studies Emphasis sections are special sections of standard courses in various departments, typically General Education courses, which are designed and taught in ways that still meet their original course criteria within their own departments and within General Education, but also highlight female writers/theorists, women and gender issues, and/or feminist frameworks. These courses are designated by the Women's Studies Steering Committee (WSSC), in consultation with instructors. Limit of 2.

³ With approval of the WSSC, additional special topics or other unique courses may be counted toward the major.

Women's Studies Minor Requirements 21 Credit Hours

WMST 2010	Introduction to Women's Studies	3
and either		
WMST 2020	Women in Global Perspective	
or		
WMST 3330	Feminist Thought and Practice	3
Approved Electives (5 courses)*		15

Women and Cultural Production

ARTA 4117	Women Artists and Their Art	3
ENGL 3500	Women Authors	3
ENGL 4087	Themes in Women's Literature	3
ENGL 4290	Film Genres: Women in Film	3
PHIL 3110	Philosophies of Feminism	3

Women's History

HIST 4237	Women in the Ancient World	3
HIST 4247	History of Women in U.S. Settlements to 1945	3
HIST 4837	American Women Since WW II	3
HIST 4956	Women in Appalachia	3

Civic Engagement

SPCH 3346	Speaking for Social Change	3
WMST 4080	Women's Studies Internship	3
ELPA/MGMT 4460	Leadership Studies	3

Women's Studies Minor Electives

CJCR 4950	Women and Crime	3
CJCR 4957	Violence Toward Women	3
FCNU 4507	Social Concerns in Women's Health	3
HDAL 2340	Understanding Cultural Diversity ¹	3
PSYC 3300	Psychology of Women	3
SOCI 3030	Gender and Society	3
SOWK 1030	Cultural Diversity ¹	3
SPCH 4200	Gender and Communication	3
WMST 2020	Women in Global Perspective	3
WMST 3330	Feminist Thought and Practice	3
WMST 4018	Honors Thesis	3
WMST 4500	Senior Capstone	3
WMST 4900	Independent Study	3
WMST 4950	Issues in Women's Movement	3
WMST 4957	Special Topics in Women's Studies	3
Women's Studies Emphasis courses (limit of two) ²		
Other approved special topics courses		3

¹ Students can count either HDAL 2340 ("Understanding Cultural Diversity") or SOWK 1030 ("Cultural Diversity") toward the minor, but not both.

² Women's Studies Emphasis sections are special sections of standard courses in various departments, typically General Education courses, which are designed and taught in ways that still meet their original course criteria within their own departments and within General Education, but also highlight female writers/theorists, women and gender issues, and/or feminist frameworks. These courses are designated by the Women's Studies Steering Committee (WSSC), in consultation with instructors. Limit of 2.

³ With approval of the WSSC, additional special topics or other unique courses may be counted toward the minor.

**Suggested Course Sequence for the
Bachelor of Arts Degree in Women's Studies**

Freshman Year

Fall 1	
ENGL 1010	Critical Reading and Expository Writing 3
MATH 1530	Probability and Statistics 3
	Foreign Language (2xxx) 3
	SPCH: Oral Communication 3
	WMST 2010 Introduction to Women's Studies 3
	Semester Total 1

Spring 1	
ENGL 1020	Critical Thinking/Argumentation 3
	Natural Sciences 4
	Foreign Language (2xxx) 3
	HIST 2010 The United States to 1877 3
	WMST 2020 Women in Global Perspective 3
	Semester Total 16

Sophomore Year

Fall 2	
	Minor/Gen Ed Elective 3
	HIST 2020 The United States Since 1877 3
	Fine Arts 3
	Natural Sciences 4
	WMST 3330 Feminist Thought and Practice 3
	Semester Total 16

Spring 2	
	Social/Behavioral Science 3
	Non-United States History 3
	Humanities 3
	Minor/Gen Ed Elective 3
	Women's Studies Cultural Production Elective 3
	Semester Total 15

Junior Year

Fall 3	
	Social/Behavioral Science 3
	Minor/Gen Ed Elective 3
	Minor/Gen Ed Elective 3
	Women's Studies History Elective 3
	Women's Studies General Elective 3
	Semester Total 15

Spring 3	
	Minor/Gen Ed Electives 9
	Women's Studies General Elective 3
	Women's Studies General Elective 3
	Semester Total 15

Senior Year

Fall 4	
	Literature 3
	Minor/Gen Ed Elective 5
	WMST 4500 Senior Capstone 3
	Women's Studies General Elective 3
	Semester Total 14

Spring 4	
	Minor/Gen Ed Electives 5
	Women's Studies Civic Engagement Elective 3
	Women's Studies General Elective 3
	Semester Total 14
	Total Hours Required for B.A. in Women's Studies 120

College of Business and Technology
Box 70699**Phone: (423) 439-5275****Web address: <http://etsu.edu/cbat/>****Fax: (423) 439-5274**

College of Business and Technology

It is the vision of the College of Business and Technology to be recognized as a leader in quality education in the applied sciences, business, and technology in the Southeast. In its desire to fulfill this vision, the College defines its mission as providing quality education and promoting the social and economic development in east Tennessee. The College is comprised of seven departments, divided into two divisions: Business and Technology. The Business division has three departments: Accountancy; Economics and Finance; and Management and Marketing. The Technology division has three departments: Computer and Information Sciences; Military Science; and Technology and Geomatics.

College of Business and Technology Honors Program

The College of Business and Technology has a Honors Program to attract, retain, and recognize outstanding students. The Program provides an enriched academic experience for selected students. It features college-wide and department specific honors courses.

Applicants to the program should have a high school grade point average of 3.5 or greater and an ACT score of 27 or more (or an equivalent SAT score). Scholarships are available. Interested students should contact the College of Business and Technology Honors Program Director, East Tennessee State University, P.O. Box 70699, Johnson City, Tennessee 37614.

Business

Accredited by: AACSB - The Association to Advance Collegiate Schools of Business

In the business disciplines, undergraduate students develop an understanding of (1) the economic, social, legal, political, and technological environments that influence our society, (2) the significant functions of all private- and public-sector business organizations, and (3) a specialized area of expertise within the field of business. The importance of a broad educational background is emphasized.

The Bachelor of Business Administration (B.B.A.) curriculum includes general education requirements in the liberal arts and sciences, core requirements, and major program requirements.

Five undergraduate majors and several concentrations leading to the B.B.A. degree are available. The majors are accountancy, economics, finance, management, and marketing. Concentrations within some of the majors, include business economics, general business and economics, corporate finance and investments, banking, real estate, human resources management, logistics/supply chain management, general management, legal studies, integrated marketing communications, marketing management, and merchandising.

Also offered is the Bachelor of Arts degree (B.A. in Economics, which is a non-business degree. A concentration in International Commerce is also available under the B.A. in Economics.

Business students may also pursue graduate study in accountancy, business, economics, and law. In addition, the college provides the opportunity and environment for faculty research and service to the business community.

Course Level Requirements – All 1000- and 2000-level (lower division) courses should be completed by the end of the sophomore year. All students enrolling in 3000- and 4000-level (upper division) Business courses must have junior- or senior-level standing and have completed prerequisite courses.

Major – Students in Business meet the requirements for their major by completing the courses listed under their major program.

Entering business students are classified as pre-business (PBUS) until the Special Requirements are met (see Special Admission Requirements for College of Business and Technology B.B.A. Majors on the next page). Prior to the completion of 60 semester credit hours, each student planning to pursue a B.B.A. will be classified as a pre-business student. At the beginning of the junior year, each qualified business student must select a specific major within the college. Qualified students who do not apply for a specific major will be assigned a major in economics with a concentration in general business and economics. See the special admission requirements for Business undergraduate majors.

At least 50 percent of the B.B.A. core requirements and major program requirements for the Bachelor of Business Administration degree must be earned at East Tennessee State University.

All Business B.B.A. majors are required to complete the curriculum outlined below.

All business graduates must earn a minimum 2.0 overall GPA in all business core requirements and in all major program requirements, including work at ETSU and transfer work.

Special Admission Requirements for (College of Business and Technology) B.B.A. Majors

- Each student planning to pursue the B.B.A. degree in business must apply for admission to a business major upon completion of 60 credit hours. Application to a major is a one-time event and occurs as part of the student's advising session in the Undergraduate Programs Office during the semester that the student expects to complete the pre-business coursework. The student must meet the following requirements to be accepted into a major:
 - The student must have attained a minimum overall grade point average of 2.5.
 - The following English composition and mathematics courses of the General Education Requirements must have been successfully completed:

ENGL	1010	Critical Reading and Expository Writing
ENGL	1020	Critical Thinking and Argumentation
MATH	1530	Probability & Statistics - Non-Calculus
 - The student must have completed and earned a grade of C or better in each of the following Business courses:

ACCT	2010	Principles of Accounting I
ACCT	2020	Principles of Accounting II
ECON	2210	Principles of Economics I
ECON	2220	Principles of Economics II
ECON	2070	Quantitative Methods For Business I
ECON	2080	Quantitative Methods For Business II
 - College of Business and Technology students who are studying for a B.B.A. degree without a declared major are classified as pre-business (PBUS) students. The PBUS classification ends after 75 hours. Students changing into the PBUS category from another major or transferring into ETSU from other institutions have until 75 hours or one calendar year from their major change/admission to complete the PBUS required courses.
- The B.B.A. Admissions Committee will review applications the week after final grades are posted and students will be notified of their status via email. Those students who are denied acceptance into a major will be notified of their academic deficiency and be allowed to cure the deficiency during the subsequent regular academic term. The student who fails to cure the academic deficiency during the subsequent regular academic term must pursue a major other than the B.B.A. at East Tennessee State University.

Only in special cases will an application be considered past 75 hours of completed coursework. The college encourages and welcomes transfer students from other programs. In all instances, these students will be treated as special cases and an academic schedule will be proposed to each individual student that allows matriculation through the B.B.A. program in an appropriate manner. Progression standards are subject to change. Current standards are always available in the Undergraduate Programs Office, 213 and 316 Sam Wilson Hall.

Appeals. Students who have been denied progression to a B.B.A. major may appeal to the Undergraduate Admissions Appeal Committee. Information on the appeal procedures may be obtained in the Undergraduate Programs Office, 213 Sam Wilson Hall.

- These admission standards apply to all entering ETSU students, to ETSU students seeking to change from a nonbusiness to a business major, to students seeking to transfer from other institutions, and to students readmitted to ETSU.

Additional information regarding admissions and retention policies, as well as career opportunities in business, may be obtained in the college's Office of Undergraduate Studies, Sam Wilson Hall.

Minor – A minor is not required for students who have B.B.A. majors.

Graduate Studies – The Business Division offers the Master of Business Administration (M.B.A.) degree, the Master of Accountancy (M.Acc.) degree, and the Accelerated Master of Accountancy (AMBA). Further information on graduate programs is contained in the School of Graduate Studies Catalog or may be obtained from the college's Office of Graduate Studies in room 214, Sam Wilson Hall. Phone: (423) 439-5314.

Center for Banking – The Center for Banking conducts research and education programs for bank managers and for students with an interest in banking careers. Included are an internship program providing students with practical, on-the-job experience and a speakers program which brings banking and government officials to the classroom.

Business Internship Program

An Internship Program is offered for business students wishing practical experience in their major. Students must be Business majors with an overall GPA of 2.7 and have a GPA of 3.0 in Business courses. Students should have completed at least two courses in their major before applying for an internship.

Successful completion of the 130 hours of on-site learning earns students three elective credits in their major. Approval from the respective department chair must be given to allow the course to substitute for another course in the major. Only one internship course per student is permitted.

Basic Curriculum for All (College of Business and Technology) B.B.A. Majors

ETSU Academic Proficiency Requirements:

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, "Using Information Technology," during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

TBR General Education Requirements 41 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
	Communication: Oral Communication*	3
MATH 1530	Probability & Statistics-Non-Calculus	3
	Natural Sciences*	8

HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
	Literature*	3
	Fine Arts	3
	Humanities	3
ECON 2210	Principles of Economics I	3
	Social/Behavioral Sciences*	3

B.B.A. Core Requirements 36-39 Credit Hours

ACCT 2010/20	Principles of Accounting I and II	6
ECON 2070/80	Quantitative Methods for Business I & II	6
ECON 2220	Principles of Economics II	3
MGMT 3000	Organizational Behavior & Management	3
MGMT 3050	Decision Science	3
MGMT 3310	Legal Environment of Business	3
MKTG 3200	Principles of Marketing	3
FNCE 3220	Business Finance	3
MGMT 3100	Production and Operations Management	3
MGMT 3220**	Management Information Systems	3
MGMT 4910	Policy and Strategy Formulation	3

Major 24-27 Credit Hours

Electives 13-16 Credit Hours

Total Hours Required for Degree 120 Credit Hours

* See General Education Core Requirements for options.
** Not required for Accounting Majors.

Note: Students in the Merchandising Concentration will not have the elective requirements stated above.

Suggested Course Sequence for All B.B.A. Majors (in the College of Business and Technology)

Freshman Year

First Semester	Credit Hours
ENGL 1010 Critical Reading and Expository Writing	3
*MATH 1530 Probability & Statistics-Non-Calculus	3
HIST 2010 The United States to 1877	3
Natural Science	4
Humanities/Fine Arts/Literature	3
Semester Total	16

Second Semester	Credit Hours
ENGL 1020 Critical Thinking and Argumentation	3
HIST 2020 The United States Since 1877	3
Communication: Oral Communication	3
Natural Science	4
Humanities/Fine Arts/Literature	3
Semester Total	16

Sophomore Year

First Semester	Credit Hours
ACCT 2010 Principles of Accounting I	3
ECON 2070 Quantitative Methods I	3
ECON 2210 Principles of Economics I	3
Humanities/Fine Arts/Literature	3
Social/Behavioral Sciences	3
Semester Total	15

Second Semester	Credit Hours
ACCT 2020 Principles of Accounting II	3
ECON 2080 Quantitative Methods II	3
ECON 2220 Principles of Economics II	3
Non-Business Electives	7
Semester Total	16

Junior Year**

First Semester	Credit Hours
Business Core, Major, and Non-Business Elective courses	15
Semester Total	15

Second Semester	Credit Hours
Business Core, Major, and Non-Business Elective courses	15
Semester Total	15

Senior Year**

First Semester	Credit Hours
Business Core, Major, and Non-Business Elective courses	15
Semester Total	15

Second Semester	Credit Hours
MGMT 4910 Policy & Strategy	3
Business Core, Major, and Non-Business Elective courses	9
Semester Total	12
Total	120

* Students with fewer than two years of high school algebra should enroll in a developmental mathematics course before attempting MATH 1530. MATH 1530 must be completed as soon as possible.

** Please see the appropriate College of Business and Technology academic department for upper division course scheduling or contact the Office of Undergraduate Studies in Sam Wilson Hall.

Note: Students who anticipate working part time or full time should reduce their class loads accordingly. Actual class loads per semester may vary as long as a minimum total of 120 credit hours is completed for graduation. While the above is not a required sequence, it is strongly recommended in order to avoid scheduling problems due to course prerequisites.

Business Intensive Courses

At the present time the following business courses have been designated as intensive courses to meet university general education requirements. Writing-Intensive (WI) courses are Accountancy 3000 and 4610; Economics 4447 and 4610; Finance 4447, 4520, 4560, 4597, 4617 and 4620; Management 3300, 3320, 4657, and 4910; Marketing 3750 and 4910. Oral Communication-Intensive (OCI) courses are Accountancy 3000; Economics 3700; Finance 4617 and 4620; Management 3200, 4010, 4020, 4030, and 4460; Marketing 3740. Using Information Technology (UIT) courses are Accountancy 4310; Economics 2080; and Management 3220. An updated listing of intensive courses and requirements is available in the College of Business and Technology, Office of Undergraduate Studies, Sam Wilson Hall or call (423) 439-5275.

Department of Accountancy (ACCT)

P.O. Box 70710 Phone: (423) 439-4432
220 Sam Wilson Hall FAX: (423) 439-8659
Web address: <http://business.etsu.edu/acc/>

Accredited by: AACSB - The Association to Advance Collegiate Schools of Business

The Department of Accountancy offers a major in accountancy within the bachelor of business administration degree. The program is aimed at students seeking a general degree in accounting. Students seeking professional positions in accountancy should enroll in the Master of Accountancy program after completing their accountancy B.B.A. degree. The M.Acc. is a 33-semester-hour graduate program that enables students to achieve mastery of accounting and auditing theory and procedures and current professional topics. It also meets the educational requirements for certification as a certified public accountant, certified management accountant, or certified internal auditor.

Admission – Requirements for admission to the accountancy major: (1) have a minimum overall GPA of 2.50; (2) earn a minimum of a C in each accounting course; and (3) meet Business admission requirements.

Accountancy Major 27 Credit Hours

ACCT 3000 Professionalism in Accountancy	3
ACCT 3010 Financial Accounting I	3
ACCT 3020 Financial Accounting II	3
ACCT 3110 Management Accounting	3
ACCT 3410 Federal Income Taxes	3
ACCT 4010 Advanced Financial Accounting	3
ACCT 4310 Accounting Information Systems	3
ACCT 4610 Auditing Theory and Practice	3
ACCT 4717 Not-For-Profit Accounting	3

Accountancy Minor 18 Credit Hours

ACCT 2010 Principles of Accounting I	3
ACCT 2020 Principles of Accounting II	3
ACCT 3010 Financial Accounting I	3
ACCT 3110 Management Accounting	3
Accountancy Electives	6

(Select from courses in accountancy major)

Graduation Requirements - Accountancy Majors/Minors must have a grade of C or better in each accounting course.

Department of Economics and Finance (ECON)(FNCE)

P.O. Box 70686 Phone: (423) 439-4202
227 Sam Wilson Hall
Web address: <http://etsu.edu/cbat/efus/>

The mission of the Department of Economics and Finance is to provide students with the high quality educational experience necessary to succeed in a competitive global environment. To accomplish this mission, we offer both business and non-business degree programs.

Students can earn a Bachelor of Business Administration (B.B.A.) degree in either economics or finance. The strength of the Economics B.B.A. program is a concentration in Business Economics. Students who choose this degree path will have an in-depth study of economics to complement the requirements of a traditional business program. A graduate with a Business Economics concentration is well prepared for employment at all levels of business, government, and the not-for-profit sector. A concentration in General Business is also available for those students who desire a more broad-based education in business.

Students who are interested in Finance can earn a B.B.A. degree with concentrations in Banking, Corporate Finance and Investments, or Real Estate. Each of these concentrations offers the student a program of study that leads to a traditional career path in his or her chosen field. The students in the finance program have been especially successful in actively managing a portfolio of funds provided by the Tennessee Valley Authority. This real-life course is available to all well-prepared finance students. All finance students also have the opportunity to work with a team of students and present a case analysis of current challenges in business finance.

For students who prefer not to study in a traditional business program, the department offers a non-business Bachelor of Arts (B.A.) degree in economics. Students who aspire to an international career will particularly benefit from our concentration in International Commerce. This program combines coursework in traditional economics with business, geo-politics, and foreign language to prepare students for a host of career possibilities in government and multinational corporations. As a complement, the department has also established close ties with cooperating universities in Europe and encourages students to participate in the university's foreign study exchange programs.

Economics Major

Bachelor of Business Administration Degree

Concentration I – Business Economics 27 Credit Hours

Basic Requirements:

ECON 3310 Monetary Economics	3
ECON 4337 Government Finance & Public Choice	3
ECON 4610 Managerial Economics	3

Specific Requirements:

ECON 3030 Microeconomics: Theories of Business Behavior ...	3
ECON 3040 Macroeconomics: Analysis & Policy	3

Select three courses from the following 9

ECON 3700 History of Economic Concepts
ECON 4327 Labor Economics
ECON 4447 Urban and Regional Economics
ECON 4457 Industrial Organization and Regulation
ECON 4527 International Economics

College of Business elective:* 3

* This elective must be approved by the chair of the Department of Economics and Finance prior to enrollment.

Concentration II – General Business 27 Credit Hours

Basic Requirements:

ECON 3310 Monetary Economics	3
ECON 4337 Government Finance and Public Choice	3
ECON 4610 Managerial Economics	3

Specific Requirements: Select (1) one course from each of the following (5) five groups of courses 15

Group 1

ACCT 3010 Financial Accounting I
ACCT 3090 Administrative Accounting
ACCT 3110 Management Accounting
ACCT 3410 Federal Income Taxes

Group 2

FNCE 3120 Principles of Real Estate
FNCE 3300 Principles of Investment
FNCE 4447 Banking and Financial Intermediation

Group 3

MGMT 4010 Advanced Organizational Behavior
MGMT 4020 Organizational Theory & Development
MGMT 4510 Human Resources Management
MGMT 4617 Small Business Management

Group 4

- MKTG 3202 Consumer Behavior
- MKTG 3210 Fundamentals of Distribution
- MKTG 3250 Marketing Communications
- MKTG 3350 Retailing

Group 5

- MGMT 3300 Written Organizational Communication

*College of Business and Technology Elective 3

**This elective must be approved by the chair of the Department of Economics and Finance prior to enrollment.*

Electives 9 Credit Hours

Total Hours Required for Degree 120 Credit Hours

**See university General Education Core Requirements for options.*

Economics Major

The Bachelor of Arts Degree in Economics

The Bachelor of Arts degree in Economics (B.A.) is a non-business degree. The most significant differences between the Bachelor of Business Administration degree (B.B.A.) and the Bachelor of Arts degree in Economics (B.A.) are:

Non-Business B.A. Students:

Are required to satisfy "Bachelor Degree Requirements" listed below.

Do not complete the (College of Business and Technology) "**Basic curriculum for all college of business B.B.A. majors**".

Are required to demonstrate proficiency in a foreign language as described in this catalog.

Are required to limit their Business Administration and Management courses to no more than 25 percent of the total number of hours completed for the B.A. degree. The 25 percent limit includes courses in Accounting, Finance, Management, and Marketing.

**Bachelor of Arts Degree (B.A.)
Economics Major (ECON)**

ETSU Academic Proficiency Requirements:

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

TBR General Education Requirements 41 Credit Hours

- ENGL 1010 Critical Reading and Expository Writing 3
- ENGL 1020 Critical Thinking and Argumentation 3
- Communication: Oral Communication* 3
- MATH 1530 Probability and Statistics 3
- Natural Sciences* 8
- HIST 2010 The United States to 1877 3
- HIST 2020 The United States Since 1877 3
- Humanities/Fine Arts/Literature* 9
- ECON 2210 Principles of Economics I 3
- Social/Behavioral Sciences* (non-economics courses) 3

** See TBR General Education Core Requirements for options.*

Bachelor of Arts Degree Requirements* 6 Credit Hours

Foreign Language 3

(See College of Arts and Sciences B.A. and B.S. Degree Requirements; consult the Foreign Language Department's placement policy at <http://www.etsu.edu/cas/language/students/placement.aspx>)

Non-United States History 3

* Students studying for a B.A. must complete 3 hours credit in Non-United States History. The Department recommends either HIST 1110 or 1120 to fulfill both the B.A. Non-United States History requirement and three credit-hours of the Humanities/Fine Arts requirement. Otherwise, additional coursework is required to fulfill both requirements. The Mathematics requirement is fulfilled with the Mathematics TBR General Education Requirements.

Economics Core Requirements 21 Credit Hours

- ECON 2070 Quantitative Methods for Business I 3
- ECON 2080 Quantitative Methods for Business II 3
- ECON 2220 Principles of Economics II 3
- ECON 3030 Microeconomics: Theories of Business Behavior ... 3
- ECON 3040 Macroeconomics: Analysis & Policy 3

- ECON 3310 Monetary Economics 3
- ECON 3700 History of Economic Concepts 3

Select 2 courses from: 6 Credit Hours

- ECON 4327 Labor Economics
- ECON 4337 Gov. Finance and Public Choice
- ECON 4447 Urban and Regional Economics
- ECON 4457 Industrial Organization & Regulation
- ECON 4527 International Economics
- ECON 4610 Managerial Economics
- MGMT 4347 Collective Bargaining

Minor Requirements* 18-21 Credit Hours

** Minors are selected with the guidance of the chair of the Economics and Finance Department and the approval of the minor department.*

Electives 25-28 Credit Hours

Total Hours Required for Degree 120 Credit Hours

Suggested Course Sequence

Freshman Year

First Semester	Credit Hours
ENGL 1010 Critical Reading and Expository Writing	3
Natural Science	4
Social/Behavioral Sciences	3
MATH 1530 Probability and Statistics	3
Humanities/Fine Arts/Literature	3
Semester Total	16

Second Semester	Credit Hours
ENGL 1020 Critical Thinking and Argumentation	3
Natural Science	4
Humanities/Fine Arts/Literature	3
Social/Behavioral Sciences	3
Communication: Oral Communication	3
Semester Total	16

Sophomore Year

First Semester	Credit Hours
Foreign Language	3
HIST 2010 The United States to 1877	3
ECON 2070 Quantitative Methods I	3
ECON 2210 Principles of Economics I	3
Humanities/Fine Arts/Literature	3
Semester Total	15

Second Semester	Credit Hours
Foreign Language	3
HIST 2020 The United States Since 1877	3
ECON 2080 Quantitative Methods for Business II	3
ECON 2220 Principles of Economics II	3
Minor Requirement	3
Semester Total	15

Junior Year

First Semester	Credit Hours
ECON 3040 Macroeconomics: Analysis & Policy	3
ECON 3700 History of Economics Concepts	3
Minor Requirement	3
Elective	6
Semester Total	15

Second Semester	Credit Hours
Humanities/Fine Arts	3
Minor Requirement	3
ECON 3030 Microeconomics: Theories of Business Behavior	3
ECON 3310 Monetary Economics	3
Elective	3
Semester Total	15

Senior Year

First Semester	Credit Hours
Minor Requirement	3
Select 2 courses from	6
Elective	6
Semester Total	15

Second Semester	Credit Hours
Minor Requirement	3
Elective	10
Semester Total	13
Total	120

**Bachelor of Arts Degree (B.A.)
Economics Major (ECON)
International Commerce Concentration (INTC)**

ETSU Academic Proficiency Requirements:

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.
See *ETSU Academic Proficiency Requirements* for details.

TBR General Education Requirements 41 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
	Communication: Oral Communication*	3
MATH 1530	Probability and Statistics	3
	Natural Sciences*	8
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
	Humanities/Fine Arts/Literature*	9
ECON 2210	Principles of Economics I	3
	Social/Behavioral Sciences* (non-economics course)	3

* See TBR General Education Core Requirements for options.

Bachelor of Arts Degree Requirements* 6 Credit Hours

Foreign Language	3
(See College of Arts and Sciences B.A. and B.S. Degree Requirements; consult the Foreign Language Department's placement policy at http://www.etsu.edu/cas/language/students/placement.aspx)	
Non-United States History	3

* Students studying for a B.A. must complete 3 hours credit in Non-United States History. The Department recommends either HIST 1110 or 1120 to fulfill both the B.A. Non-United States History requirement and three credit-hours of the Humanities/Fine Arts requirement. Otherwise, additional coursework is required to fulfill both requirements. The Mathematics requirement is fulfilled with the Mathematics TBR General Education Requirements.

Economics Core Requirements 21 Credit Hours

ECON 2070	Quantitative Methods for Business I	3
ECON 2080	Quantitative Methods for Business II	3
ECON 2220	Principles of Economics II	3
ECON 3030	Microeconomics: Theories of Business Behavior	3
ECON 3040	Macroeconomics: Analysis & Policy	3
ECON 3310	Monetary Economics	3
ECON 3700	History of Economic Concepts	3

Foreign Language Requirement 6 Credit Hours

Foreign Language (3000 level or above)	6
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International Commerce Requirement 12 Credit Hours

ACCT 2010	Principles of Accounting I	3
FNCE 3220	Business Finance	3
MKTG 3200	Principles of Marketing	3
MGMT 3000	Organizational Behavior and Management	3

Geo-Political Requirement 12 Credit Hours

PSCI 3310	International Relations	3
ECON 4527	International Economics	3
	Geo-Political Electives	6

Select two of the following Geo-Political electives:

PSCI 3010	Chinese Politics	3
PSCI 3800	European Politics	3
PSCI 3830	Government and Politics of Latin America	3
PSCI 3870	Government and Politics of South Asia	3
GEOG 3300	Political Geography	3
GEOG 4307	Regional Geography	3

International Commerce Electives 6 Credit Hours

Select two of the following courses:

FNCE 3300	Principles of Investments	3
FNCE 4597	International Financial Management	3
MKTG 3202	Consumer Behavior	3
MKTG 4710	International Marketing	3
MGMT 3310	Legal Environment of Business	3
MGMT 4450	International Business Law	3

Free Electives 16 Credit Hours

Total Hours Required for Degree 120 Credit Hours

Economics Minor

Economics Minor Requirements 18 Credit Hours

ECON 2210	Principles of Economics I	3
ECON 2220	Principles of Economics II	3
ECON 3310	Monetary Economics	3
	Economics electives*	9

Electives to be chosen from the following courses:

ECON 3030	Microeconomics
ECON 3040	Macroeconomics
ECON 3700	History of Economic Concepts
ECON 4317	Health Care Economics
ECON 4327	Labor Economics
ECON 4337	Government Finance and Public Choice
ECON 4447	Urban and Regional Economics
ECON 4527	International Economics
ECON 4610	Managerial Economics

General Business Minor*

General Business Minor Requirements 21 Credit Hours

ACCT 2010	Principles of Accounting I**	3
ACCT 2020	Principles of Accounting II**	3
ECON 2220	Principles of Economics II***	3
FNCE 3220	Business Finance	3
MGMT 3000	Organizational Behavior & Management	3
MGMT 3310	Legal Environment of Business	3
MKTG 3200	Principles of Marketing	3

* The General Business Minor is designed for the non-business student who may be interested in pursuing the master of business administration degree.

** Completion of the students' college-level math requirement is a prerequisite for Principles of Accounting I and Principles of Accounting II.

*** Students should complete Economics 2210 as part of the General Education requirements.

Finance Major

Concentration I – Corporate Finance and Investments 27 Credit Hours

Basic Requirements:

FNCE 3300	Principles of Investment	3
FNCE 3500	Capital Budgeting	3
FNCE 4620	Financial Analysis and Policy	3

Specific Requirements:

ACCT 3090	Administrative Accounting	or	ACCT course with the approval of the Chair of the Department of Economics and Finance	3
FNCE 4560	Portfolio Theory and Valuation	3		
FNCE 4597	International Financial Management	3		

Select nine hours from: 9

ECON 3310	Monetary Economics		
ECON 4610	Managerial Economics		
FNCE 4330	Real Estate Finance		
FNCE 4447	Banking and Financial Intermediation		
FNCE 4617	Applied Portfolio Management	or	other upper division College of Business and Technology electives.*

* These electives must be approved by the chair of the Department of Economics and Finance Studies prior to enrollment.

Concentration II – Banking 27 Credit Hours

Basic Requirements:

FNCE 3300	Principles of Investment	3
FNCE 3500	Capital Budgeting	3
FNCE 4620	Financial Analysis and Policy	3

Specific Requirements:

ECON 3310	Monetary Economics	3
FNCE 4447	Banking and Financial Intermediation	3
FNCE 4520	Bank Policy	3

Select nine hours from: 9

ACCT 3010	Financial Accounting I		
ACCT 3020	Financial Accounting II		
FNCE 4330	Real Estate Finance		
FNCE 4500	Credit Management		
FNCE 4560	Portfolio Theory and Valuation		
FNCE 4597	International Financial Management	or	Other upper division College of Business and Technology electives.*

* These electives must be approved by the chair of the Department of Economics and Finance prior to enrollment.

Concentration III – Real Estate 27 Credit Hours

Basic Requirements:

FNCE 3300	Principles of Investment	3
FNCE 3500	Capital Budgeting	3
FNCE 4620	Financial Analysis and Policy	3

Specific Requirements:

ECON 4447 Urban and Regional Economics	3
FNCE 3120 Principles of Real Estate	3
FNCE 4320 Real Estate Appraisals	3

Select nine hours from: 9

ECON 3310 Monetary Economics	
FNCE 3130 Real Estate Law	
FNCE 4330 Real Estate Finance	
FNCE 4340 Real Estate Brokerage	
FNCE 4350 Real Estate Management	
FNCE 4360 Real Estate Appraisal Problems or	

Other upper division College of Business and Technology electives.*

** These electives must be approved by the chair of the Department of Economics and Finance prior to enrollment.*

Finance Minor Requirements 18 Credit Hours

ACCT 2010 Principles of Accounting I	3
ECON 2220 Principles of Economics II	3
FNCE 3220 Business Finance	3
Finance electives*	9

** These electives must be approved by the chair of the Department of Economics and Finance prior to enrollment.*

**Department of Management and Marketing
(MGMT) (MKTG)**

Box 70625

Phone: (423) 439-4422

225 Sam Wilson Hall

Web address: <http://business.etsu.edu/mgmtmkt>

The Department of Management and Marketing includes a management program and a marketing program. The management program offers study leading to the bachelor of business administration degree with a major in management. Management majors must select one of four concentrations. The marketing program offers study leading to the bachelor of business administration degree with a major in marketing. Marketing majors must select one of three concentrations. Programs are designed to equip students with conceptual foundations and practical skills necessary for entry-level positions in both private and public-sector organizations.

**Management Major
Bachelor of Business Administration**

Concentration I –

Human Resources Management 24 Credit Hours

Basic Requirements:	
MGMT 4020 Organizational Theory and Development	3
MGMT 4030 Current Management Systems	3

Specific Requirements:	
MGMT 4510 Human Resources Management	3
MGMT 4530 Compensation Management	3
MGMT 4560 Planning and Staffing	3
MGMT 4600 Personnel Law	3

Select two courses from: 6

MGMT 4010 Advanced Organizational Behavior	
MGMT 4520 HRM in Team-Based Organizations	
MGMT 4540 Personnel Research and Measurement	
MGMT 4570 Training and Development	
MGMT 4587 HRM Certification	
MGMT 4347 Collective Bargaining	
ECON 4327 Labor Economics	

Electives must be approved by the Chair of the Department of Management and Marketing prior to enrollment.

Concentration II –

Logistics/Supply Chain Management 24 Credit Hours

Basic Requirements:	
MGMT 4020 Organizational Theory & Development	3
MGMT 4030 Current Management Systems	3

Specific Requirements:	
MKTG 3310 Business Logistics	3
MGMT 4317 Materials Management	3
MGMT 3650 Supply Chain Management	3

Select three courses from: 9

MGMT 4357 CIM Applications	
MGMT 3660 Project Management	
MGMT 4217 Service Operations Management	
MKTG 3210 Fundamentals of Distribution	
MGMT 4510 Human Resources Management	
MGMT 4327 Decision Modeling and Simulation or	
upper division College of Business and Technology electives	

(These electives may be tailored into focus areas to fit the specific educational needs of the student.)*

** Must be approved by the Chair of the Department of Management and Marketing prior to enrollment.*

Concentration III – Legal Studies 24 Credit Hours

Basic Requirements:	
MGMT 4020 Organizational Theory & Development	3
MGMT 4030 Current Management Systems	3

Specific Requirements:

MGMT 4440 Governmental Regulations of Business	3
ENGL 4100 Writing in the Professions or	
ENGL 3130 Advanced Composition	3

Select any four courses from: 12

MGMT 4600 Personnel Law	
MGMT 4667 Environmental Law for Business	
MGMT 3330 Law of Commercial Transactions	
MGMT 4420 Law of Business Organizations	
MGMT 4430 Manufacturing & Technology Law	
MGMT 4450 International Business Law	
FNCE 3130 Real Estate Law	
ACCT 3410 Federal Income Taxes I	
ACCT 4427 Federal Income Taxes II	

Concentration IV – General Management 24 Credit Hours

Basic Requirements:	
MGMT 4020 Organizational Theory & Development	3
MGMT 4030 Current Management Systems	3

Specific Requirements:

MGMT 4510 Human Resources Management	3
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Select two courses from: 6

MGMT 4317 Materials Management	
MGMT 4327 Decision Modeling and Simulation	
MGMT 4330 Data Management	
ACCT 4310 Accounting Information Systems	
MKTG 3310 Business Logistics or	
MKTG 3210 Fundamentals of Distribution	
MGMT 3650 Supply Chain Management	
MGMT 4217 Service Operations Management	
MGMT 4357 CIM Applications	

Select one course from: 3

MGMT 4530 Compensation Management	
MGMT 4540 Personnel Research and Measurement	
MGMT 4570 Training and Development	
MGMT 4600 Personnel Law	
MGMT 4560 Planning and Staffing	
MGMT 4347 Collective Bargaining	
MGMT 4520 HRM in Team-based Organizations	

Select two courses from*: 6

Upper Division Business Courses or
Upper division College of Business and Technology electives*

** These electives must be approved by the chair of the Department of Management and Marketing prior to enrollment.*

Management Minor

Management Minor Requirements 21 Credit Hours

ACCT 2010 Principles of Accounting I	3
ECON 2210 Principles of Economics I	3
MGMT 3000 Organizational Behavior & Management	3
MGMT 4010 Advanced Organizational Behavior	3
MGMT 4020 Organizational Theory & Development	3
Management electives*	6

** These electives must be approved by the chair of the Department of Management and Marketing prior to enrollment.*

**Marketing Major
Bachelor of Business Administration**

Concentration I – Marketing Management 24 Credit Hours

Basic Requirements:
 MKTG 3202 Consumer Behavior 3
 MKTG 4617 Marketing Research 3
 MKTG 4910 Marketing Management 3

Specific Requirement:
 MKTG 3740 Sales Force Management 3

Select one course from: 3
 MKTG 4217 Health Care Marketing
 MKTG 4710 International Marketing

Select one course from: 3
 MKTG 3210 Fundamentals of Distribution
 MKTG 3310 Business Logistics
 Electives - Any (2) two Marketing courses or
 Approved electives* 6

**These electives must be approved by the Chair of the Department of Management and Marketing prior to enrollment.*

**Concentration II –
Integrated Marketing Communications 24 Credit Hours**

Basic Requirements:
 MKTG 3202 Consumer Behavior 3
 MKTG 4617 Marketing Research 3
 MKTG 4910 Marketing Management 3

Specific Requirements:
 MKTG 3250 Marketing Communications 3
 MKTG 3740 Sales Force Management 3
 MKTG 3750 Advertising Campaign Management 3
 Electives - Any two Marketing courses or
 approved electives* 6

**These electives must be approved by the Chair of the Department of Management and Marketing prior to enrollment.*

**Concentration III –
Merchandising 40 Credit Hours**

Basic Requirements:
 MKTG 3202 Consumer Behavior 3
 MKTG 4617 Marketing Research 3
 MKTG 4910 Marketing Management 3

Specific Requirements:
 MKTG 2220 Perspectives on Dress, Culture, and Society 3
 MKTG 3215 Consumer Textiles 3
 MKTG 3230 Fashion Fundamentals 3
 MKTG 3225 Apparel Product Analysis 3
 MKTG 4220 Fashion Merchandising 3
 MKTG 4255 Merchandise Planning and Buying 4
 MKTG 4240 Visual Merchandising 3
 MKTG 4250 Advertising and Promotion 3
 MKTG 4261 Merchandising Internship 3
 MKTG 4221 Merchandising Study Tour
 or

MKTG 4905 Marketing Internship 3

Note: Students in the Merchandising Concentration will not have the elective requirements stated above.

Marketing Minor

Marketing Minor Requirements 21 Credit Hours

ACCT 2010 Principles of Accounting I 3
 ECON 2210 Principles of Economics I 3
 ECON 2220 Principles of Economics II 3
 MKTG 3200 Principles of Marketing 3
 Marketing Electives* 9

**These electives must be approved by the Chair of the Department of Management and Marketing prior to enrollment.*

Department of Computer and Information Sciences

Box 70711

Phone: (423) 439-5804

E-mail: counter@etsu.edu

Major

The department offers a Bachelor of Science degree with three (3) areas of concentrations: Computer Science, Information Systems Science, and Information Technology. The Information Systems Science Concentration requires a minor in Management or Accountancy. A minor is not required in the other concentrations.

Computer Science (CS) Concentration

The Computer Science concentration is for students who wish to enter the field of software systems analysis and development in a scientific, engineering, or mathematical environment, and by those who plan graduate study in computer science or applied computational mathematics.

Information Systems Science (IS) Concentration

The IS concentration is for students who wish to enter the field of software systems analysis and development in an application area such as accountancy or management and by those who plan graduate study in certain areas of management science or information science.

Information Technology (IT) Concentration

The IT concentration is for students who wish to enter the field of web development, database and network management, and for those who plan graduate study in applied areas of computer science.

Grade Requirements

In order to graduate, a computer and information sciences major must attain:

1. An overall GPA of 2.50 or better; and
2. A GPA of 2.50 or better in all computer and information science courses; and
3. A grade of “C -” or better in all major requirements. This includes both common core and concentration specific courses, but not natural sciences; and
4. A minimum grade of “C -” in English 1010, 1020, and all math courses required for the major.

All concentrations must complete 124 credit hours, including the ETSU General Education Requirements, the Common Computer and Information Sciences Core, and the Concentration Specific Courses.

CSCI majors must pass the proficiency exam or complete CSCI 1100 (Using Information Technology) prior to accumulating 33 semester credit hours.

Bachelor of Science Degree (B.S.)

Computing Major (CISC)

Computer Science Concentration (CSCI)

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

TBR General Education Requirements 41 Credit Hours

ENGL 1010 Critical Reading and Expository Writing 3
 ENGL 1020 Critical Thinking and Argumentation 3
 Communication: Oral Communication* 3
 MATH 1530 Probability & Statistics 3
 Natural Sciences** 8

HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature*		3
Fine Arts*		3
Humanities*		3
Social/Behavioral Sciences		6

* See TBR General Education Core Requirements for options.

** Any 2-semester science sequence listed in the General Education Core Requirements except those for non-science majors.

Computer Science Common Core	22 Credit Hours
CSCI 1510	Student in University* 3
CSCI 2020	Fundamentals of Database 3
CSCI 2150	Computer Organization 4
CSCI 3250	Software Engineering I 3
CSCI 3350	Software Engineering II 3
CSCI 3400	Network Fundamentals 3
Natural Science Sequence -	
Two courses of same science sequence	**
(See note above with TBR General Education Requirements.)	
MATH 1530	Probability & Statistics 3
CSCI 1900	Math for Computer Science 3

* For 1st semester freshmen only. If not taken or passed, another approved CSCI elective must be taken in its place.

** Satisfies TBR General Education Requirement.

Computer Science Concentration	53 Credit Hours
CSCI 1250	Introduction to Computer Science I 4
CSCI 1260	Introduction to Computer Science II 4
CSCI 2160	Assembly Language 4
CSCI 2210	Data Structures 4
CSCI 2230	File Processing 4
CSCI 4717	Computer Architecture 3
CSCI 4727	Operating Systems 3
Four Major Electives*	12

* See CS and IS Electives. At least one (1) must be from category A and one (1) from category B. Required courses may not count as electives.

MATH 1910	Calculus I 4
MATH 1920	Calculus II 4
MATH 2010	Linear Algebra 3
Additional Science Credits	4
(See list at the end of section for approved courses.)	

Free Electives 8 Credit Hours

Total Credit Hours Required for Degree... 124 Credit Hours

**Suggested Course Sequence
Freshman Year**

First Semester	Credit Hours
Communication: Oral Communication	3
CSCI 1510 Student in University	3
CSCI 1200 Adventures in Computing*	3
ENGL 1010 Critical Reading and Expository Writing	3
CSCI 1900 Math for Computer Science	3
Semester Total	15

*May count as a free elective. If not taken, add three (3) hours from Free Electives.

Second Semester	Credit Hours
Humanities	3
CSCI 1250 Introduction to Computer Science I	4
CSCI 2020 Fundamentals of Database	3
ENGL 1020 Critical Thinking and Argumentation	3
Fine Arts	3
Semester Total	16

Sophomore Year

First Semester	Credit Hours
CSCI 1260 Introduction to Computer Science II	4
CSCI 2150 Computer Organization	4
MATH 1910 Calculus I	4
HIST 2010 The United States to 1877	3
Semester Total	15

Second Semester	Credit Hours
CSCI 2210 Data Structures	4
CSCI 2160 Assembly Language	4
HIST 2020 The United States Since 1877	3
MATH 1920 Calculus II	4
Semester Total	15

Junior Year

First Semester	Credit Hours
CSCI 2230 File Processing	4
CSCI 3400 Network Fundamentals	3
MATH 2010 Linear Algebra	3
Natural Science	4
Social/Behavioral Sciences	3
Semester Total	17

Second Semester	Credit Hours
CSCI 3250 Software Engineering I	3
CSCI Major Elective	3
Natural Science	4
Literature	3
MATH 1530 Probability and Statistics	3
Semester Total	16

Senior Year

First Semester	Credit Hours
CSCI 4717 Computer Architecture	3
CSCI Major Elective	3
CSCI Major Elective	3
Natural Science	4
CSCI 3350 Software Engineering II	3
Semester Total	16

Second Semester	Credit Hours
CSCI 4727 Operating Systems	3
CSCI Major Elective	3
Social/Behavioral Science	3
Free Electives	5
Semester Total	14
Total	124

**Bachelor of Science Degree (B.S.)
Computing Major (CISC)
Information Systems Concentration (INSS)**

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

TBR General Education Requirements 41 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
Communication:	Oral Communication*	3
MATH 1530	Probability & Statistics	3
Natural Sciences**		8
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature*		3
Fine Arts*		3
Humanities*		3
Social/Behavioral Sciences		6

* See TBR General Education Core Requirements for options.

** Any 2-semester science sequence listed in the General Education Core Requirements except those for non-science majors.

Computer Science Common Core 22 Credit Hours

CSCI 1510	Student in University*	3
CSCI 2020	Fundamentals of Database	3
CSCI 2150	Computer Organization	4
CSCI 3250	Software Engineering I	3
CSCI 3350	Software Engineering II	3
CSCI 3400	Network Fundamentals	3
Natural Science Sequence -	Two courses of same science sequence (See note above with TBR General Education Requirements) ..	**
MATH 1530	Probability & Statistics	**
CSCI 1900	Math for Computer Science	3

* For 1st semester freshman only. If not taken or passed, another approved CSCI elective must be taken in its place.

** Satisfies TBR General Education Requirements.

Information Systems Concentration 53-57 Credit Hours

CSCI 1250	Introduction to Computer Science I	4
CSCI 1260	Introduction to Computer Science II	4
CSCI 1710	WWW - Design & Creation	3
CSCI 2200	Introduction to UNIX	1
CSCI 2210	Data Structures	4
CSCI 2910	Client & Server Side Programming	4
CSCI 4227	Advanced Database Systems	3
CSCI 4417	System Administration	3
Two CSCI Major Electives*		6

* See Computer Science Major Elective categories, must include at least one course from Category A and one from Category B. Required courses may not count as major electives.

MATH 1840 Analytical Geometry & Differential Calculus	or	
MATH 1910 Calculus I	.....	3-4
Information Systems Emphasis	.....	18 Credit Hours

** Complete either Accountancy or Management minor (see below).*

Accountancy Minor

ACCT 2010 Principles of Accounting I	.....	3
ACCT 2020 Principles of Accounting II	.....	3
ACCT 3010 Financial Accounting I	.....	3
ACCT 3110 Management Accountancy	.....	3
Two approved ACCT electives	.....	6

Management Minor

ECON 2210 Principles of Economics	.....	*
ACCT 2010 Principles of Accounting I	.....	3
MGMT 3000 Organizational Behavior and	.....	3
MGMT 4010 Advanced Organizational Behavior	.....	3
MGMT 4020 Organizational Theory & Dev. Mgmt.	.....	3
Two approved MGMT electives	.....	6

** Satisfies General Education requirement.*

Electives	.....	6 Credit Hours
Total Credit Hours Required	.....	124 Credit Hours

**Suggested Course Sequence
Freshman Year**

First Semester	Credit Hours
Communication: Oral Communication	3
CSCI 1510 Student in University	3
CSCI 1200 Adventures in Computing *	3
ENGL 1010 Critical Reading and Expository Writing	3
CSCI 1900 Math for Computer Science	3
Semester Total	15

** May count as Free Elective. If not taken, add three (3) hours from electives.*

Second Semester	Credit Hours
CSCI 1250 Introduction to Computer Science I	4
CSCI 2020 Fundamentals of Database	3
ENGL 1020 Critical Thinking and Argumentation	3
Social/Behavioral Sciences	3
Fine Arts	3
Semester Total	16

Sophomore Year

First Semester	Credit Hours
CSCI 1260 Introduction to Computer Science II	4
CSCI 1710 World Wide Web - Design	3
CSCI 2150 Computer Organization	4
HIST 2010 The United States to 1877	3
MATH 1840 Analytic Geometry and Differential Calculus or	3-4
MATH 1910 Calculus I	3-4
Semester Total	17-18

Second Semester	Credit Hours
CSCI 2200 Introduction to UNIX	3
CSCI 3400 Network Fundamentals	3
CSCI 2910 Client & Server Side Programming	4
HIST 2020 The United States Since 1877	3
CSCI 2210 Data Structures	4
Semester Total	17

Junior Year

First Semester	Credit Hours
CSCI 4127 Database Management Systems I	3
CSCI 3250 Software Engineering I	3
Natural Science	4
MATH 1530 Probability and Statistics	3
Course from ACCT or MGMT Minor	3
Semester Total	16

Second Semester	Credit Hours
CSCI 3350 Software Engineering II	3
Literature	3
Natural Science	4
Course from ACCT or MGMT minor	3
Social/Behavioral Science	3
Semester Total	16

Senior Year

First Semester	Credit Hours
CSCI 4417 System Administration	3
CSCI Major Elective	3
Course from ACCT or MGMT minor	3
Course from ACCT or MGMT minor	3
Humanities	3
Semester Total	15

Second Semester	Credit Hours
CSCI Major Elective	3
Course from ACCT or MGMT minor	3
Course from ACCT or MGMT minor	3
Free Elective	3
Semester Total	12
Total	124

**Bachelor of Science Degree (B.S.)
Computing Major (CISC)**

Information Technology Concentration (ITEC)

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

TBR General Education Requirements **41 Credit Hours**

ENGL 1010 Critical Reading and Expository Writing	3
ENGL 1020 Critical Thinking and Argumentation	3
Communication: Oral Communication*	3
MATH 1530 Probability & Statistics	3
Natural Sciences**	8
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Literature*	3
Fine Arts*	3
Humanities*	3
Social/Behavioral Sciences	6

** See TBR General Education Core Requirements for options.*

*** Any 2-semester science sequence listed in the General Education Core Requirements except those for non-science majors.*

Computer Science Common Core **22 Credit Hours**

CSCI 1510 Student in University*	3
CSCI 2020 Fundamentals of Database	3
CSCI 2150 Computer Organization	4
CSCI 3250 Software Engineering I	3
CSCI 3350 Software Engineering II	3
CSCI 3400 Network Fundamentals	3
Natural Science Sequence - Two courses of same science sequence (See note above with TBR General Education Requirements.)	**
MATH 1530 Probability & Statistics	**
CSCI 1900 Math for Computer Science	3

** For 1st semester freshmen only. If not taken or passed, another approved CSCI elective must be taken in its place.*

*** Satisfies TBR General Core Requirements.*

Information Technology Concentration **48 Credit Hours**

CSCI 1250 Introduction to Computer Science I	4
CSCI 1260 Introduction to Computer Science II	4
CSCI 1710 World Wide Web – Design and Creation	3
CSCI 2200 Introduction to UNIX	3
CSCI 2300 Essentials of Information Security	3
CSCI 2910 Client and Server Side Program	4
CSCI 4217 Ethical Issues in Computing	3
CSCI 4417 System Administration	3
CSCI 4800 Senior Project in Information Technology	3
CSCI 4927 Human Computer Interaction	3

Five Major Electives for Information Technology Emphasis .15

(Complete General Emphasis or Web Emphasis.)

General Emphasis

CSCI 4127 Database Management Systems I	3
Guided Major Electives*	12

** See Information Technology Electives at the end of this section. At least two (2) must be CSCI electives and two (2) at the 3XXX/4XXX level.*

Web Emphasis

CSCI 3110 Advanced Topics in Web Development	3
CSCI 4127 Database Management Systems I	3
Guided Major Electives	9

** See Information Technology Electives at the end of this section. At least one (1) must be CSCI electives and one (1) at the 3XXX/4XXX level.*

Electives **13 Credit Hours**

Total Hours Required For Degree **124 Credit Hours**

**Suggested Course Sequence
Freshman Year**

First Semester	Credit Hours
Communication: Oral Communication	3
CSCI 1510 Student in University	3
CSCI 1710 WWW Design and Creation	3
ENGL 1010 Critical Reading and Expository Writing	3
CSCI 1200 Adventures in Computing*	3
Semester Total	15

*May count as Free Elective. If not taken, add three (3) hours from electives.

Second Semester	Credit Hours
CSCI 1800 Programming I	4
CSCI 1900 Math for Computer Science	3
ENGL 1020 Critical Thinking and Argumentation	3
CSCI 2020 Fundamentals of Database	3
Social/Behavioral Sciences	3
Semester Total	16

Sophomore Year

First Semester	Credit Hours
CSCI 2150 Computer Organization	4
CSCI 2200 Introduction to UNIX	3
CSCI 2800 Visual Prog-Advanced Concepts	4
HIST 2010 The United States to 1877	3
MATH 1530 Probability and Statistics	3
Semester Total	17

Second Semester	Credit Hours
CSCI 2910 Client & Server Side Prog.	4
CSCI 3400 Network Fundamentals	3
HIST 2020 The United States Since 1877	3
CSCI 2300 Essentials of Information Security	3
Literature	3
Semester Total	16

Junior Year

First Semester	Credit Hours
CSCI 4127 Database Management Systems I	3
CSCI 3250 Software Engineering I	3
CSCI 3110 Advanced Topics in Web Development*	3
Natural Science	4
Social/Behavioral Sciences	3
Semester Total	16

*General Emphasis will replace with Guided Elective.

Second Semester	Credit Hours
CSCI 4417 Systems Administration	3
CSCI 3350 Software Engineering II	3
CSCI 4927 Human Computer Interaction	3
Natural Sciences	4
Fine Arts	3
Semester Total	16

Senior Year

First Semester	Credit Hours
CSCI 4217 Ethical Issues in Computing	3
Guided Major Elective	3
Guided Major Elective	3
Humanities	3
Free Elective	3
Semester Total	15

Second Semester	Credit Hours
CSCI 4800 Senior Project in Information Technology	3
Guided Major Elective	3
Free Electives	7
Semester Total	13
Total	124

Computer Science and Information Systems Electives

Category A (Concepts of Programming Languages): CSCI 1250, CSCI 1260, CSCI 1270, CSCI 2160, CSCI 3800, CSCI 4910 (in this category), CSCI 4957 (in this category)

Category B (Advanced Topics): CSCI 1710, CSCI 2210, CSCI 2230, CSCI 2910, CSCI 4157, CSCI 4217, CSCI 4227, CSCI 4317, CSCI 4417, CSCI 4517, CSCI 4527, CSCI 4717, CSCI 4727, CSCI 4800, CSCI 4857, MATH 4257, MATH 4267, CSCI 4910 (in this category), CSCI 4956/4957 (in this category)

Information Technology Electives

ARTA 1110, ARTA 1201, ARTA 1204, ARTA 2200, ADVR 2070, CJCR 1500, CJCR 3650, CSCI 1250, CSCI 1720, CSCI 3110, CSCI 4227, CSCI 4317, CSCI 4517, CSCI 4527, CSCI 4957, DIGM 2830, DIGM 2840, DIGM 2850, DIGM 3830, DIGM 3850, ENGL 3100, ENGL 4100, MGMT 3000, MGMT 3100, MGMT 4327.

Computer Science/Information Science

Minor Track 27 Credit Hours
CSCI 1250 Intro to Computer Sci I 4

CSCI 1260 Intro to Computer Sci II	4
CSCI 2150 Computer Organization	4
CSCI 2210 Data Structures	4
CSCI Approved CSCI major electives, including at least six (6) hours at the 3000 level or above; CSCI 1100, 1101, and 1510 may not be included	11

* Note: A C- or better in all minor courses is required.

Information Technology Minor Track 27 Credit Hours

CSCI 1710 World Wide Web - Design and Creation	3
CSCI 1800 Visual Program Design w/Apps	3
CSCI 2150 Computer Organization	4
CSCI 2800 Visual Programming - Adv Concepts	4
CSCI 2910 Client & Server Side Programming	4
CSCI Approved CSCI major electives, including at least six (6) hours at the 3000 level or above; CSCI 1100, 1101, and 1510 may not be included	9

* Note: A C- or better is required in each of the courses taken to satisfy the requirements of the minor.

**Department of Family and Consumer Sciences
(FACS)**

Box 70671

Phone: (423) 439-7532

email: lewisar@etsu.edu

Accredited by: Tennessee State Board of Education
American Association of Family and Consumer Sciences (AAFCS)
Commission of Accreditation for Dietetics Education (CADE)

The degree programs offered by this department have been transferred to other departments: Nutrition and Foods to the Department of Allied Health; Merchandising to the Department of Management and Marketing; and Interior Design to the Department of Engineering Technology, Surveying, and Digital Media. The Family and Consumer Sciences Education has been terminated.

**Department of Engineering Technology,
Surveying, and Digital Media**

Box 70552

Phone: (423) 439-7813

email: johnsonk@etsu.edu

The Department of Engineering Technology, Surveying, and Digital Media administers four separate and distinct undergraduate Bachelor of Science (B.S.) degree programs: Engineering Technology, Digital Media, Interior Design, and Surveying and Mapping Science. In addition, a minor is available in technology and digital media. Engineering Technology offers a common core of classes along with six individual concentrations: biomedical engineering technology, construction technology, electronics engineering technology, industrial technology, product development, and manufacturing engineering technology. Digital Media offers a core and three separate concentrations: digital animation, digital interaction, and digital visualization. The Interior Design curriculum offers preparation for entry-level positions in residential and contact design firms, sales, design consulting, computer-aided design, and other related design areas. The Surveying and Mapping curriculum has a core curriculum and guided electives in three sequences: cadastral/design, geoscience, surveying business.

Programs

Engineering Technology

Concentrations

Biomedical Engineering Tech.
Construction Engineering Technology
Electronics Engineering Tech.
Industrial Technology
Manufacturing Engineering Tech.
Product Development

Interior Design

- Digital Media
 - Digital Animation
 - Digital Interaction
 - Digital Visualization
- Surveying and Mapping Science

GRADUATE STUDY

The Department of Engineering Technology, Surveying, and Digital Media offers a master of science degree.

TRANSFERRING TECHNICAL ASSOCIATE DEGREES

All non-technology coursework such as math, science, and English is evaluated for transfer by an analyst in the Office of Admissions. All technology coursework submitted for transfer will be analyzed by the department chair or the appropriate program coordinator. The following criteria apply:

1. Coursework must have been taken at a regionally accredited two- or four-year institution.
2. Coursework must be equivalent to an ETSU course; if not, it will count as elective credit.
3. Only courses for which a grade of C or higher was earned will be accepted for transfer credit for courses in technology, mathematics, science or English.
4. No associate degree coursework will be accepted for Engineering Technology coursework at the 4xxx level.

In consultation with the associate degree-holding student, an agreement will be written listing the coursework that must be successfully completed by the student to receive a Bachelor of Science degree with a major in technology.

Students contemplating the transfer of their technology-based associate degree should read the policy statement regarding transfer student admissions elsewhere in this catalog and confer with a Engineering Technology, Surveying, and Digital Media advisor.

Minor

A minor in technology and a minor in Digital Media are available to students who wish to acquire technical knowledge and skills. Requirements for the technology minor are 21 credit hours (nine of which must be upper division courses) of study in the department. Concentration study in a particular technical area is required. Students must meet the prerequisites listed in the catalog for a particular course they wish to take or obtain permission of the instructor.

A minor in Digital Media is available to students from all majors who wish to acquire technical knowledge and skills in Digital Media. Requirements for the minor are 24 credit hours of study in Digital Media. Students must meet the prerequisites listed in the catalog for a particular course they wish to take or obtain permission from the instructor.

Students are encouraged to choose guided electives that provide an emphasis in a particular area of specialization in Digital Media.

Students who transfer technical courses from technical institutes, colleges, or military technical schools who wish to pursue a minor in technology must complete a minimum of three (3) approved upper division courses in the department regardless of the number of credit hours transferred. Prior to registering for the final three (3) courses in the minor, students are required to meet with an academic advisor in the Department of Engineering Technology, Surveying, and Digital Media.

Biomedical Engineering Technology Concentration

This concentration is designed to prepare graduates to work as hospital-based biomedical engineering technologist.

**Bachelor of Science Degree (B.S.)
Engineering Technology Major (ENTC)**

Biomedical Engineering Technology Concentration (BIOM)

ETSU Academic Proficiency Requirements:

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives. See ETSU Academic Proficiency Requirements for details.

TBR General Education Core Requirements 41 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
Communication:	Oral Communication*	3
MATH 1530	Probability and Statistics	3
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
PHYS 2010/11	General Physics Lecture/Lab I	4
CHEM 1110/11	General Chemistry I Lecture/Lab	4
Literature*	.....	3
Fine Arts*	.....	3
ENTC 3020	Technology and Society	3
Social/Behavioral Sciences*	.....	6

* See TBR General Education Core Requirements for options.

Technology Core Requirements 19 Credit Hours

ENTC 1510	Student in University	2
ENTC 2170	Computer Aided Design Drafting	4
ENTC 3030	Technical Communication	3
ENTC 4017	Industrial Supervision	3
ENTC 4060	Project Scheduling	3
ENTC 4600	Technology Practicum	4

Biomedical Engineering

Concentration Requirements 68 Credit Hours

ENTC 2310	Electrical Principles	4
ENTC 2320	Electronics I	4
ENTC 2330	Network Systems	3
ENTC 3310	Circuit Analysis	3
ENTC 3320	Electronics II	4
ENTC 3331	RF Fundamentals	3
ENTC 3370	Electronics-Digital Circuits	4
ENTC 4277	Instrum./Process Control	4
ENTC 4337	Electronics-Microprocessors	4
ENTC 4347	Digital Signal Processors	4
ENTC 4350	Biomedical Instrumentation I	4
ENTC 4390	Medical Imaging Equipment	3
HSCI 2010/11	Anatomy and Physiology I	4
HSCI 2020/21	Anatomy and Physiology II	4
MATH 1720	Precalculus	3
MATH 1840	Analytic Geometry and Differential Calculus	3
MATH 1850	Integral Calculus for Technology	3
Technical Electives	.....	7

Total Hours Required for Degree 128 Credit Hours

**Suggested Course Sequence
Freshman Year**

First Semester		Credit Hours
ENGL 1010	Critical Reading and Expository Writing	3
ENTC 1510	Student in University	2
Communication:	Oral Communication	3
Social/Behavioral Sciences	.....	3
MATH 1720	Precalculus	3
Semester Total	.....	14

Second Semester		Credit Hours
ENTC 2170	Computer Aided Design Drafting (CADD)	4
ENGL 1020	Critical Thinking and Argumentation	3
CHEM 1110/11	General Chemistry I	4
MATH 1840	Analytic Geometry & Differential Calculus	4
Fine Arts Elective	.....	3
Semester Total	.....	17

Sophomore Year

First Semester		Credit Hours
ENTC 2310	Electrical Principles	4
MATH 1850	Integral Calculus	3
HSCI 2010/11	Anatomy & Physiology I Lecture/Lab	4
PHYS 2010/11	General Physics I Lecture/Lab	4
Literature	.....	3
Semester Total	.....	18

Second Semester		Credit Hours
ENTC 2320	Electronics I	4
ENTC 3310	Circuit Analysis	3
ENTC 3030	Tech. Communications	3
MATH 1530	Probability and Statistics	3
HSCI 2020/21	Anatomy & Physiology II Lecture/Lab	4
Semester Total		17

Junior Year

First Semester		Credit Hours
ENTC 2330	Network Systems	3
ENTC 3320	Electronics II	4
ENTC 3331	R F Fundamentals	3
ENTC 4017	Industrial Supervision	3
HIST 2010	The United States to 1877	3
Semester Total		16

Second Semester		Credit Hours
ENTC 3370	Electronics - Digital Circuits	4
ENTC 4060	Project Scheduling	3
ENTC 4277	Instr./Procd. Ctrl	4
ENTC 4600	Technical Practicum	4
HIST 2020	The United States Since 1877	3
Semester Total		18

Senior Year

First Semester		Credit Hours
ENTC 3020	Technology and Society	3
ENTC 4337	Microprocessors	4
ENTC 4350	Biomedical Instruction I	4
Technical Elective	.....	4
Semester Total		15

Second Semester		Credit Hours
ENTC 4347	Digital Signal Processors	4
ENTC 4390	Medical Imaging	3
Technical Elective	.....	3
Social/Behavioral Sciences	.....	3
Semester Total		13
Total		128

Construction Engineering Technology Concentration

This program is accredited by the Technology Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 – telephone: (410) 347-7700.

This concentration offers a diversified curriculum that prepares individuals for employment in construction management. This program of training involves field operations and office management.

**Bachelor of Science Degree (B.S.)
Engineering Technology Major (ENTC)**

Construction Engineering Technology Concentration (CONS)

ETSU Academic Proficiency Requirements:

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.
See ETSU Academic Proficiency Requirements for details.

TBR General Education Core Requirements 41 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
Communication:	Oral Communication*	3
MATH 1530	Probability and Statistics	3
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
PHYS 2010/11	General Physics I Lecture/Lab	4
PHYS 2020/21	General Physics Lecture/Lab II or	
CHEM 1110/11	General Chemistry I Lecture/Lab or	
GEO 1040	Physical Geology	4
Literature*	.....	3
Fine Arts*	.....	3
ENTC 3020	Technology and Society	3
PSYC 1310	Introduction to Psychology	3
Social/Behavioral Sciences*	.....	3

*See TBR General Education Core Requirements

Technology Core Requirements 19 Credit Hours

ENTC 1510	Student in University	2
ENTC 2170	Computer Aided Design Drafting	4
ENTC 3030	Technical Communication	3
ENTC 4017	Industrial Supervision	3
ENTC 4060	Project Scheduling	3
ENTC 4600	Technology Practicum	4

Construction Engineering

Concentration Requirements 68 Credit Hours

ENTC 2410	Construction Fundamentals	4
ENTC 2420	Residential & Commercial Planning	4
ENTC 2440	Mechanical Systems	4
ENTC 3010	Statics & Strength of Materials	4
ENTC 3400	Construction Materials	4
ENTC 3410	Construction Estimating	4
ENTC 3420	Advanced Construction Estimating	4
ENTC 3430	Materials & Methods I	4
ENTC 3440	Materials & Methods II	3
ENTC 3620	Thermal & Fluid Technologies	4
ENTC 3650	Applied Electricity-Electronics	4
ENTC 4417	Construction Financing & Admin.	3
ENTC 4777	Safety Management	3
SURV 2550	Surveying Measurement Fundamentals	4
Technology Elective	.....	3
ACCT 2010	Principles of Accounting I	3
MATH 1720	Precalculus	3
MATH 1840	Analytic Geometry and Differential Calculus	3
MATH 1850	Integral Calculus for Technology	3
Total Hours Required for Degree.....		128 Credit Hours

**Suggested Course Sequence
Freshman Year**

First Semester		Credit Hours
ENTC 1510	Student in University	2
ENTC 2410	Construction Fundamentals	4
ECON 2210	Principles of Economics I	3
ENGL 1010	Critical Reading and Expository Writing	3
MATH 1720	Precalculus	3
Semester Total		15

Second Semester		Credit Hours
ENTC 2170	CADD (Computer Aided Design Drafting)	4
ENTC 2420	Residential & Commercial Planning	4
MATH 1840	Analytic Geometry/Differential Calculus	4
ENGL 1020	Critical Thinking and Argumentation	3
PSYC 1310	Introduction to Psychology	3
Semester Total		17

Sophomore Year

First Semester		Credit Hours
ENTC 3650	Electrical Systems	4
MATH 1850	Integral Calculus	3
PSCH 2300	Public Speaking	3
PHYS 2010/11	General Physics Lecture/Lab I	4
Semester Total		14

Second Semester		Credit Hours
ENTC 2440	Mechanical Systems	4
ENTC 3010	Statics and Strengths of Materials	4
MATH 1530	Probability and Statistics	3
PHYS 2020/21	General Physics Lecture/Lab II or	
GEO 1040	Physical Geology or	
CHEM 1110/11	General Chemistry I Lecture/Lab	4
Semester Total		15

Junior Year

First Semester		Credit Hours
ENTC 3030	Technical Communication	3
ENTC 3400	Construction Material Testing	4
ENTC 3410	Construction Estimating	4
HIST 2010	The United States to 1877	3
ACCT 2010	Introduction to Accounting or	
MGMT 3310	Legal Environment of Business	3
Semester Total		17

Second Semester		Credit Hours
ENTC 3420	Advanced Construction Estimating	4
ENTC 3620	Hydraulic Technology	4
ENTC 3430	Materials and Methods I	4
HIST 2020	The United States Since 1877	3
Fine Arts	.....	3
Semester Total		18

Senior Year		Credit Hours
First Semester		
ENTC 4777	Safety Management	3
ENTC 3440	Materials and Methods II	3
ENTC 4417	Construction Financing and Admin.	3
ENTC 3020	Technology and Society	3
Literature	.....	3
Semester Total		15
Second Semester		
ENTC 4060	Project Scheduling	3
ENTC 4600	Technical Practicum	4
ENTC 4017	Industrial Supervision	3
Technology Elective	.....	3
SURV 2550	Surveying Measurement Fundamentals	4
Semester Total		17
Total		128

**Bachelor of Science Degree (B.S.)
Engineering Technology Major (ENTC)**

Electronics Engineering Technology Concentration (ELEC)

This program is accredited by the Technology Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 – telephone: (410) 347-7700. This concentration emphasizes electronics specialties in the areas of Telecommunications and Instrumentation and Automation. It prepares individuals for job opportunities in all areas of electronics with selection of the general specialty.

ETSU Academic Proficiency Requirements:

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

TBR General Education Core Requirements 41 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
Communication:	Oral Communication*	3
MATH 1530	Probability and Statistics	3
PHYS 2010/11	Physics I	4
PHYS 2020/21	Physics II	4
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature*	.....	3
Fine Arts*	.....	3
ENTC 3020	Technology and Society	3
Social/Behavioral Sciences Elective*	.....	6

*See TBR General Education Core Requirements.

Technology Core Requirements 19 Credit Hours

ENTC 1510	Student in University	2
ENTC 2170	CADD	4
ENTC 3030	Technical Communication	3
ENTC 4017	Industrial Supervision	3
ENTC 4060	Project Scheduling	3
ENTC 4600	Technology Practicum or	4
ENTC 3989	Co-op Education	4

Additional Requirements 68 Credit Hours

CHEM 1110/11	General Chemistry I Lecture/Lab	4
ENTC 2310	Electronic Principles	4
ENTC 2320	Electronics I	4
ENTC 3310	Circuit Analysis	3
ENTC 3320	Electronics II	4
ENTC 3370	Electronics Digital Circuits	4
ENTC 4037	Quality Assurance I	3
ENTC 4310	Electronics Communications	4
ENTC 4337	Microprocessors	4
MATH 1720	Precalculus	3
MATH 1840	Analytic Geometry & Diff. Calculus	3
MATH 1850	Integral Calculus for Technology	3
Elective	.....	3

Electronics Electives 11
Select from the following: ENTC 3340, ENTC 3350, ENTC 4227, ENTC 4390, PHYS 3310, MATH 2010

Specialty Electives 11
Select (1) One Area:

Telecommunications: ENTC 2330, ENTC 4307, ENTC 4347

Inst. & Automation: ENTC 4277, ENTC 4287, ENTC 4237

General: Choose 11 credit hours from courses listed above.

Total Hours Required for Degree 128 Credit Hours

**Suggested Course Sequence
Freshman Year**

First Semester	Credit Hours
ENTC 1510 Student in University	2
ENGL 1010 Critical Reading and Expository Writing	3
² Fine Arts Elective	3
MATH 1720 Precalculus	3
Communication: Oral Communication	3
Semester Total	14

Second Semester	Credit Hours
ENTC 2170 CADD (Computer Aided) Design Drafting	4
¹ MATH 1840 Analytical Geom./Diff. Calculus	3
CHEM 1110/11 General Chemistry Lecture/Lab	4
ENGL 1020 Critical Thinking	3
ENTC 2310 Electronic Principles	4
Semester Total	18

Sophomore Year

First Semester	Credit Hours
ENTC 2320 Electronics I	4
¹ MATH 1850 Integral Calculus	3
³ Literature Elective	3
PHYS 2010/11 General Physics Lecture/Lab	4
² Social/Behavioral Sciences Elective	3
Semester Total	17

Second Semester	Credit Hours
ENTC 3310 Circuit Analysis	3
ENTC 3320 Electronics II	4
MATH 1530 Probability and Statistics	3
PHYS 2020/21 General Physics Lecture/Lab I	4
² Social/Behavioral Sciences Elective	3
Semester Total	17

Junior Year

First Semester	Credit Hours
ENTC 3370 Digital Circuits	4
⁴ Electronics Elective	4
ENTC 3030 Technical Communications	3
ENTC 4037 Quality Assurance I	3
HIST 2010 The United States to 1877	3
Semester Total	17

Second Semester	Credit Hours
⁴ Electronics Elective	4
Open Elective	3
ENTC 3020 Technology & Society	3
ENTC 4060 Project Scheduling	3
HIST 2020 The United States Since 1877	3
Semester Total	16

Senior Year

First Semester	Credit Hours
ENTC 4310 Electronic Communications	4
ENTC 4337 Microprocessors	4
⁵ Electronics Specialization	4
⁴ Electronics Elective	3
Semester Total	15

Second Semester	Credit Hours
⁵ Electronics Specialization	4
⁵ Electronics Specialization	3
ENTC 4017 Industrial Supervision	3
ENTC 4600 Technical Practicum	4
Semester Total	14
Total	128

¹ MATH 1910 and MATH 1920 (8 credit hours) will satisfy the requirement of MATH 1840 and 1850 (6 credit hours).

² See catalog for course numbers that will satisfy this requirement.

³ Select one course: ENGL 2030, ENGL 2130, ENGL 2210, ENGL 2220, ENGL 2330, or ENGL 2430.

⁴ Select from: ENTC 3340, ENTC 3350, ENTC 4390, PHYS 3310, MATH 2010, ENTC 4227.

⁵ Each student must complete the courses in one of the following specialties:

Telecommunications: ENTC 2330; ENTC 4307; ENTC 4347

Inst. & Automation: ENTC 4277; ENTC 4287; ENTC 4237

General: Choose 11 credit hours from courses listed above.

**To Students Transferring into the Electronics
Engineering Technology Program at ETSU**

All students, including transfer students, must complete the published curriculum in electronics engineering technology in effect the year of their entry into the program. All students transferring into the B.S. degree electronic engineering technology program must take a minimum of four

electronics courses that must include ENTC 3310—Circuit Analysis. No associate degree coursework will be accepted for electronic coursework at the 4XXX level.

If the transfer student is from a program that is not accredited by the Accreditation Board for Engineering and Technology (ABET), the required minimum must also include ENTC 3320—Electronics II. It is the students' responsibility to provide evidence that the transferred coursework was completed at an ABET-accredited institution. (This information would usually be found in the school's catalog)

Industrial Technology Concentration

This concentration is a management-oriented curriculum with studies drawn from a variety of disciplines related to industry. The graduate develops skills to help solve managerial, technical, and production problems.

**Bachelor of Science Degree (B.S.)
Engineering Technology Major (ENTC)
Industrial Technology Concentration (INDU)**

ETSU Academic Proficiency Requirements:

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.
See ETSU Academic Proficiency Requirements for details.

TBR General Education Core Requirements 41 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
SPCH 2300	Public Speaking	3
MATH 1530	Probability and Statistics	3
CHEM 1110/11	General Chemistry I Lecture/Lab	4
PHYS 2010/11	General Physics I Lecture/Lab	4
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature*		3
Fine Arts*		3
ECON 2210	Principles of Economics I	3
PSYC 1310	Introduction to Psychology	3
ENTC 3020	Technology & Society	3

*See TBR General Education Core Requirements.

Technology Core Requirements 19 Credit Hours

ENTC 1510	Student in University	2
ENTC 2170	CADD	4
ENTC 3030	Technical Communication	3
ENTC 4017	Industrial Supervision	3
ENTC 4060	Project Scheduling	3
ENTC 4600	Technology Practicum	4

Industrial Technology Core Requirements 21 Credit Hours

ENTC 1120	Manufacturing Processes & Specification	3
ENTC 2200	Machine Tool Technology	4
ENTC 2310	Electrical Principles	or
ENTC 3650	Applied Electricity and Electronics	4
ENTC 3620	Thermal and Fluid Technologies	or
ENTC 3670	Energy/Power/Transportation	4
ENTC 4357	CIM	3
ENTC 4777	Safety Management	3

Industrial Operations Requirements 39 Credit Hours

ENTC 3600	Manufacturing Technology	3
ENTC 4037	Quality Assurance I	3
ENTC 4227	Engineering Economy	3
ENTC Electives		8
ACCT 2010	Principles of Accounting	3

CSCI 1710	World Wide Web - Design and Creation ***	3
MATH 1720	Pre-Calculus	3
MATH 1840	Analytical Geometry & Differential Calculus	4
MGMT 3000	Organizational Management	3
MGMT 3310	Legal Environment of Business	3
Elective		4

Total Hours Required for Degree 120 Credit Hours

* Cooperative Education (ENTC 4989-99) may be substituted for ENTC 3600.
 ** Technical and general electives should be selected with the goal of developing a depth of understanding in one or two technical areas. Select courses from manufacturing, electronics, engineering design graphics, computer science, management science, construction, or surveying.
 *** CSCI 2100 (4), 1310 (4), or 1800 (4) may be substituted for CSCI 1710.

**Suggested Course Sequence
Freshman Year**

First Semester		Credit Hours
ENTC 1120	Manufacturing Processes & Specification	3
ENTC 1510	Student in University	2
ENGL 1010	Critical Reading and Expository Writing	3
MATH 1720	Pre-Calculus	3
Literature/Fine Arts*		3
Semester Total		14
Second Semester		Credit Hours
ENTC 2170	CADD	4
CHEM 1110/11	General Chemistry Lecture/Lab	4
ENGL 1020	Critical Thinking and Argumentation	3
MATH 1840	Analytical Geometry & Differential Calculus	4
PSYC 1310	Introduction to Psychology	3
Semester Total		17

Sophomore Year

First Semester		Credit Hours
ENTC 2200	Machine Tool Technology	4
MATH 1530	Probability and Statistics- NonCalculus	3
PHYS 2010/11	General Physics Lecture/Lab I	4
SPCH 2300	Public Speaking	3
Semester Total		14
Second Semester		Credit Hours
ENTC Elective		4
ENTC 2310	Electrical Principles	4
ACCT 2010	Principles of Accounting	3
HIST 2010	The United States to 1877	3
Semester Total		14

Junior Year

First Semester		Credit Hours
ENTC 3030	Technical Communication	3
ENTC 4037	Quality Assurance I	3
CSCI 1710	World Wide Web -Design & Creation	4
Literature		3
HIST 2020	The United States Since 1877	3
Semester Total		16
Second Semester		Credit Hours
ENTC 3020	Technology and Society	3
ENTC 3620	Thermal & Fluid Technologies	4
ENTC 4060	Project Scheduling	3
ENTC 3600	Manufacturing Technology or	
ENTC 4989	Co-Op	3
ECON 2210	Principles of Economics I	3
Semester Total		16

Senior Year

First Semester		Credit Hours
ENTC 4227	Engineering Economy	3
ENTC 4357	CIM Applications	3
ENTC Technical Elective		4
MGMT 3000	Organizational Management	3
Elective		3
Semester Total		16
Second Semester		Credit Hours
ENTC 4017	Industrial Supervision	3
ENTC 4600	Technology Practicum or	
ENTC 4989	Co-Op	4
ENTC 4777	Safety Management	3
MGMT 3310	Legal Environment of Business	3
Semester Total		13
Total		120

Manufacturing Engineering Technology Concentration

This program is accredited by the Technology Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 – telephone: (410) 347-7700.

This concentration provides students with experiences in the major elements of manufacturing. Graduates are able to apply their knowledge and understanding to manufacturing processes and supervision. The program

is broken into two specialty sequences – Programming and Automation and a General Manufacturing Sequence.

**Bachelor of Science Degree (B.S.)
Engineering Technology Major (ENTC)
Manufacturing Technology Concentration (MANU)**

ETSU Academic Proficiency Requirements:

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

TBR General Education Core Requirements 41 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
Communication:	Oral Communication*	3
MATH 1530	Probability and Statistics	3
PHYS 2010/11	General Physics Lecture/Lab I	4
PHYS 2020/21	General Physics Lecture/Lab II or	
CHEM 1110/11	General Chemistry I Lecture/Lab	4
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature*		3
Fine Arts*		3
ENTC 3020	Technology and Society	3
ECON 2210	Principles of Economics, Part I	3
PSYC 1310	Introduction to Psychology	3

**See TBR General Education Core Requirements.*

Technology Core Requirements 19 Credit Hours

ENTC 1510	Student in University	2
ENTC 2170	CADD	4
ENTC 3030	Technical Communication	3
ENTC 4017	Industrial Supervision	3
ENTC 4060	Project Scheduling	3
⁵ ENTC 4600	Technology Practicum	4

Manufacturing Core Requirements 23 Credit Hours

ENTC 1120	Manufacturing Processes and Specification	3
ENTC 2200	Machine Tool Technology	4
ENTC 2310	Electrical Principles	4
ENTC 3710	Manual CNC Programming	3
ENTC 4037	Quality Assurance I	3
ENTC 4357	CIM Applications	3
ENTC 4777	Safety Management	3

Technical Support Core Requirements 17 Credit Hours

CSCI 2100	Introduction to "C"	4
MATH 1720	Precalculus	3
³ MATH 1840	Analytical Geo. & Diff. Calculus	3
³ MATH 1850	Integral Calculus for Technology	3
PHYS 2020/21	Gen. Physics II Lecture/Lab or	4
CHEM 1110/11	General Chemistry I Lecture/Lab	4

Specialty Sequence Requirements 29 Credit Hours

Electives	0-2 Credit Hours	
Total Hours Required for Degree	128 Credit Hours	

Specialty Sequence (Choose One)

Programming & Automation Sequence 26-27 Credit Hours

ENTC 2320	Electronics	4
ENTC 4277	Instrumentation and Process Control	4
ENTC 4327	Electronics—Digital Circuits	4
ENTC 4337	Microprocessors I	4

Choose any three or more of the following ENTC classes:

ENTC 3350	Industrial Electronics	3
ENTC 4287	Introduction to Robotics	3
⁶ ENTC/CSCI Elective		4

⁶ ENTC/CSCI Elective	4	
or		
General Manufacturing Sequence	26-29 Credit Hours	
ENTC 3010	Static & Strength of Materials	3
ENTC 3240	Engr. Materials & Materials Testing or	4
ENTC 3620	Thermal and Fluid Technologies	4
ENTC 4257	Plant Layout & Materials Handling	3
Choose any five or more of the following ENTC classes:		
⁵ ENTC 3600	Manufacturing Technology	3
ENTC 3680	Polymers & composites	3
ENTC 4227	Engineering Economy	3
ENTC 4237	Ergonomics & Process Op	4
ENTC 4247	Operational Analysis	3
⁶ ENTC/CSCI Elective		4
⁶ ENTC/CSCI Elective		4

¹ For details regarding the General Education Requirements and course selection, see the appropriate undergraduate catalog.
² MATH 1840, 1850, 1910, or 1920 may satisfy the General Education Math Requirement.
³ MATH 1910 and MATH 1920 will satisfy the MATH 1840/50 sequence.
⁴ CHEM 1120/21 may be substituted for PHYS 2020/21.
⁵ Cooperative Education (ENTC 4989/4999) may be substituted for ENTC 3600.
⁶ ENTC/CSCI electives may be chosen from any of the specialty sequence offerings or any of the following: ENTC 4217, 4347, 4900, 4957, 4989/99 or CSCI 1250, 1710, 1800, or 2100.
⁷ In special cases and only with the approval of a MET program advisor, a student may develop a track of technical electives selected with the goal of developing proven technical understanding and competence in one or two manufacturing areas.

**Suggested Course Sequence
Freshman Year**

First Semester		Credit Hours
ENGL 1010	Critical Reading and Expository Writing	3
ENTC 1510	Student in University	2
Communication:	Oral Communication	3
Social/Behavioral Sciences		3
MATH 1720	Precalculus	3
Semester Total		14
Second Semester		Credit Hours
ENTC 2170	CADD	4
ENTC 1110	Engineering Drawing	4
ENGL 1020	Critical Thinking and Argumentation	3
MATH 1840	Analytic Geometry & Differential Calculus	3
Humanities/Fine Arts		3
Semester Total		17

Sophomore Year

First Semester		Credit Hours
ENTC 1120	Manufacturing Processes and Specification	3
ENTC 2200	Machine Tool Technology	4
ENTC 2310	Electrical Principles	4
PHYS 2010/11	General Physics Lecture/Lab I	4
MATH 1850	Integral Calculus for Technology	3
Semester Total		18
Second Semester		Credit Hours
ENTC 3030	Technical Communication	3
ENTC 3710	Manual CNC Programming	3
ENTC 4357	CIM Applications	3
MATH 1530	Probability and Statistics	3
PHYS 2020/21	General Physics II Lecture/Lab	4
Semester Total		16

Junior Year

First Semester		Credit Hours
Specialty Course		3
ENTC 3620	Thermal and Fluid Technologies	4
ENTC 4777	Safety Management	3
ENTC 4600	Technical Practicum	4
HIST 2010	The United States to 1877	3
Semester Total		17
Second Semester		Credit Hours
ENTC 4060	Project Scheduling	3
ENTC 4037	Quality Assurance I	3
HIST 2020	The United States Since 1877	3
Specialty courses		7
Semester Total		16

Senior Year

First Semester		Credit Hours
ENTC 3020	Technology & Society	3
CSCI 2100	Introduction to "C"	4
Specialty Courses		6
Science		3
Semester Total		16
Second Semester		Credit Hours
ENTC 4017	Industrial Supervision	3
Specialty Course		3
Humanities/Fine Arts		3
Social/Behavioral Sciences		3
Electives		2
Semester Total		14

Total 128

**Bachelor of Science Degree (B.S.)
Engineering Technology Major (ENTC)
Product Development Concentration (PDEV)**

The Product Development concentration is a multidisciplinary, manufacturing-based curriculum designed to educate and prepare students to be multifunctional, creative, and knowledgeable leaders and team members of product design teams. Graduates are able to apply their knowledge and understanding of the product development processes and new product realization.

ETSU Academic Proficiency Requirements:

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See *ETSU Academic Proficiency Requirements for details.*

¹ For details regarding specific block requirements and course selection, see the General Education Requirements section of this catalog.
² MATH 1840, 1850, 1910, or 1920 may satisfy the General Education Math requirement.
³ Cooperative Education (ENTC 4989/4999) may be substituted for ENTC 4600 and/or ENTC 3600.
⁴ MATH 1910 and MATH 1920 will satisfy the MATH 1840/50 sequence.
⁵ CHEM 1120/21 or HSCI 2010/11 may be substituted for PHYS 2020/21/
⁶ In special cases and only with the approval of a PDEV program advisor, a student may develop an individualized sequence of specialty Engineering Technology and Technical Support courses selected with the goal of developing proven technical understanding and competence in one or two product development areas.
⁷ INTD 1115 may be substituted for ENTC 2160 for students taking INTD 2110.

TBR General Education Core Requirements¹ ... 41 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
Communication:	Oral Communication*	3
MATH 1530	Probability and Statistics ²	3
PHYS 2010/11	General Physics Lecture/Lab I	4
CHEM 1110/11	General Chemistry I Lecture/Lab	4
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature*	.....	3
Fine Arts*	.....	3
ENTC 3020	Technology and Society	3
ECON 2210	Principles of Economics, Part I	3
PSYC 1310	Introduction to Psychology	3

*See TBR General Education Core Requirements.

Technology Core Requirements 19 Credit Hours

ENTC 1510	Student in University	2
ENTC 2170	CADD	4
ENTC 3030	Technical Communication	3
ENTC 4017	Industrial Supervision	3
ENTC 4060	Project Scheduling	3
ENTC 4600	Technology Practicum ³	4

Product Development Core Requirements 20 Credit Hours

ENTC 1120	Manufacturing Processes & Specifications	3
ENTC 2200	Machine Tool Technology	4
ENTC 2310	Electrical Principles	4
ENTC 3710	Manual CNC Programming	3
ENTC 4357	CIM Applications	3
Elective (advisor approved)	.....	3

Technical Support Courses 21 Credit Hours

DIGM 1100	Visual Thinking	4
MATH 1720	Precalculus	4
MATH 1840	Analytical Geometry & Differential Calculus ⁴	4
MATH 1850	Integral Calculus for Technology ⁴	4
PHYS 2020/21	General Physics II (non-calc.) Lec/Lab ⁵ or	
CHEM 1120/21	General Chemistry II - Lecture/Lab or	
HSCI 2010/11	Anatomy and Physiology	4
Elective (advisor approved)	.....	3

Specialty Sequences Requirements⁶ 27 Credit Hours

Total Hours Required for Degree..... 128 Credit Hours

Specialty Engineering Technology Sequences

(Choose one or both)

Electronics/Communications Area 15-16 Credit Hours

ENTC 2320	Electronics I	4
ENTC 4327	Electronics Digital Circuits	4
ENTC 4277	Instrumentation and Process Control	4

Choose at least one of the following:

ENTC 3310	Circuit Analysis	3
ENTC 3340	Electrical Machinery	3
ENTC 4337	Microprocessors	4

Manufacturing and Materials Area 13-14 Credit Hours

ENTC 3240	Engineering Materials & Material Testing	4
ENTC 3600	Manufacturing Technology ³	4
ENTC 3680	Polymers and Composites	4

Choose at least one of the following:

ENTC 1600	Woodworking Technology	3
ENTC 3620	Thermal & Fluid Technologies	4
ENTC 4237	Ergonomics and Process Op	4
ENTC 4277	Instrumentation and Process Control	4
ENTC 4287	Introduction to Robotics	3

Specialty Technical Support Sequences

(Choose either both above or one below)

Digital Media/Visualization Area 14-15 Credit Hours

ARTA 1140	3-D Design	3
DIGM 1640	Vector-based Imaging or	
DIGM 1650	Raster-based Imaging	4
DIGM 3300	Product Design	4

Choose at least one of the following:

ARTA 2101	Introduction to Sculpture	3
DIGM 3010	Principles of Visualization	4
DIGM 3110	3-D Model Design	4

Construction/Architectural Area 13-15 Credit Hours

ENTC 2160	Architectural CADD ⁷	3
ENTC 2410	Construction Fundamentals	4

Choose at least two of the following:

INTD 2105	Historical Interiors I	3
INTD 1105	Interior Design Fundamentals	3
INTD 2110	Design for Human Behavior ⁷	3
ENTC 2420	Residential and Commercial Planning	4
ENTC 2440	Mechanical Systems	4
SURV 2550	Surveying Measurement Fundamentals	4
Humanities/Fine Arts	.....	3
Social/Behavioral Sciences	.....	3
Electives	.....	2

Semester Total 14

Total 128

Suggested Course Sequence

Freshman Year

First Semester		Credit Hours
ENGL 1010	Critical Thinking and Expository Writing	3
ENTC 1510	Student in University	1
ENTC 2170	CADD	4
MATH 1720	Precalculus	3
CHEM 1110/11	General Chemistry - Lecture/Lab	4
Semester Total		16

Second Semester		Credit Hours
ENGL 1020	Critical Thinking and Argumentation	3
ENTC 1120	Manufacturing Processes & Specifications	3
DIGM 1110	Visual Thinking	4
MATH 1840	Analytic Geometry & Differential Calculus	3
PHYS 2010/11	General Physics I - Non-Calculus - Lecture/Lab	4
Semester Total		17

Sophomore Year

First Semester		Credit Hours
PSYC 1310	Introduction to Psychology	3
ENTC 2200	Machine Tool Technology	4
HIST 2010	U. S. History to 1877	3
MATH 1850	Integral Calculus	3
SPCH 2300	Public Speaking	3

Semester Total	.....	16
Second Semester		Credit Hours
ENTC 2310	Electrical Principles	4
ENTC 3030	Technical Communication	3
ENTC 3710	Manual CNC Programming	3
MATH 1530	Probability and Statistics	3
ENTC	Engineering Technology Specialty Sequence course	4
Semester Total	.....	17

Junior Year

First Semester		Credit Hours
ENTC	Advisor Approved PDEV elective	3
ENTC	Engineering Technology Specialty Sequence course	3
	Technical Support Specialty course	3
	Technical Support Specialty course	4
PHYS 2020/21	General Physics II - Non-Calculus - Lecture/Lab	4
Semester Total	.....	17

Second Semester		Credit Hours
ECON 2210	Principles of Economics, Part I	3
ENTC 4060	Project Scheduling	3
ENTC 4017	Industrial Supervision	3
HIST 2020	U. S. History since 1877	3
ENTC	Engineering Technology Specialty Sequence course	4
Semester Total	.....	16

Senior Year

First Semester		Credit Hours
ENTC	Advisor Approved PDEV elective	4
ENTC 4357	CIM Applications	3
Fine Arts Elective		3
ENTC	Engineering Technology Specialty Sequence course	3
	Technical Support Specialty course	3
Semester Total	.....	16

Second Semester		Credit Hours
ENTC 3020	Technology and Society	3
ENTC 4600	Technical Practicum	4
Literature Elective		3
	Technical Support Specialty course	4
Semester Total	.....	14

Minimum Product Development Program
Total Credit Hours 128

DIGITAL MEDIA

The Digital Media Program seeks to bridge the arts and sciences by providing students with technical knowledge, an understanding of aesthetics, and practical experience in digital media, with a core emphasis on learning how to develop and express ideas, solve problems, and create digital media content. This program leads students through problem, project, and process-based learning experiences that teach them how to define, design, and develop digital media content, computer graphics, and interactive media. The program endeavors to bring together students, faculty, and industry professionals to realize interdisciplinary initiatives and prepare students for the professional challenges of the 21st century in careers in 3-D visualization, animation, interactive design, web media, product design, and digital video.

Areas of concentration in Digital Media include:

Digital Animation—This concentration gives students the background necessary to animate in any media/software with strong skills in one of several specialty areas of animation, such as character animation and special effects animation. Students in the animation concentration would typically be preparing for careers in 3-D animation, 2-D animation, motion graphics, character animation, and technical direction.

Digital Interaction—This concentration gives students the background necessary to design and develop in any media/software with an emphasis on usability, interactive design, graphic design, problem-solving, production processes, animation and interactive programming. Students in the Interaction Design concentration would typically be prepared for careers in the web design and interactive multimedia entertainment, gaming, education, corporate training, and marketing.

Digital Visualization—This concentration gives students the background necessary to create 3-dimensional digital models that provide visual solutions for both the physical and virtual worlds. Students in this concentration would typically be preparing for careers in product design, architecture, interior design, entertainment, gaming, and scientific data visualization.

A final portfolio in the senior year must be submitted in order to graduate. A committee of Digital Media faculty will evaluate each student’s work

and progress at the review and evaluate the final portfolio. No grade below a C in Digital Media required core and DIGM courses may be applied to the B.S. degree.

Digital Media Fee— A Digital Media Enhancement Fee of \$100 per semester hour will be applied to all DIGM courses for all students.

**Bachelor of Science Degree (B.S.)
 Digital Media Major (DIGM)**

ETSU Academic Proficiency Requirements:

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must complete at least one using information technology-intensive course in the major field of study. Students must also demonstrate a working knowledge of word processing, spreadsheets, electronic communication, and online searches during their first calendar year of enrollment or prior to accumulating 33 semester credits at ETSU. This requirement may be met by passing the UIT proficiency exam or by successfully completing CSCI 1100. For more information, please visit www.etsu.edu/uit.

Transfer students may be subject to reduced number of intensives.

See *ETSU Academic Proficiency Requirements for details.*

TBR General Education Core Requirements 41 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
	Oral Communication*	3
MATH 1530	Probability and Statistics	3
PHYS 2010/11	General Physics I Lecture/Lab	4
	Natural Sciences* (for science majors courses only)	4
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
	Literature*	3
	Fine Arts*	3
ENTC 3020	Technology and Society	3
	Social/Behavioral Sciences*	6

**See General Education Core Requirements.*

Digital Media Core Requirements 38 Credit Hours

DIGM 1100	Visual Thinking	4
ARTA 1110	2-D Design	3
ARTA 1204	Color Theory	3
ENTC 1510	Student in University*	2
MATH 1720	Pre-Calculus	3
DIGM 1640	Vector-Based Imaging	4
DIGM 1650	Raster-Based Imaging	4
DIGM 3000	Principles of Interaction	4
DIGM 3010	Principles of Visualization	4
ENTC 3030	Technical Communication	3
DIGM 4930	Portfolio Development for DIGM **	4

** Required of all entering students with less than 15 credit hours of college credit.*

*** Cannot be taken until the senior year, and must be taken within two (2) semesters of completing the requirements for graduation.*

Digital Animation Concentration

Requirements 37 Credit Hours

ARTA 1201	Drawing Fundamentals	3
ARTA 2120	Basic Figure Drawing	3
DIGM 2870	Animation Fundamentals	4
THEA 2510	Acting I	3
DIGM 2900	Motion Tools I: Editing	4
DIGM 3130	3D Animation	4
DIGM 4146/4147	Fund. of Character Animation & Lab	4

Choose one of the following:

DIGM 3110	3D Model Design	4
DIGM 3120	3D Lighting and Rendering	4

Choose one of the following:

DIGM 481648/17	3D Effects Animation & Lab	4
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or

DIGM	4886/4887	Technical Direction for Animation & Lab	4
Choose one of the following:			
DIGM	4646/4647	Advanced Animation & Lab	4
or			
DIGM	4957	Special Topics in Digital Media: Digital Media Production	4

Digital Animation Concentration

Guided Electives 4 Credit Hours

DIGM	2821	Desktop Publishing	4
DIGM	3110	3D Model Design	4
DIGM	3120	3D Lighting & Rendering	4
DIGM	3200	Web Design	4
DIGM	3300	Product Design	4
DIGM	3400	Interaction Design	4
DIGM	4616/4817	Advanced Raster-Based Imaging & Lab	4
DIGM	4626/4627	Motion Tools II: Compositing & Lab	4
DIGM	4646/4647	Advanced Animation & Lab	4
DIGM	4816/4817	3D Effects Animation & Lab	4
DIGM	4826/4827	Motion Tools III: Application & Lab	4
DIGM	4886/4887	Technical Direction for Animation & Lab	4
DIGM	4900	Independent Study	1-6
DIGM	4957/5957	Topics in Digital Media	2-4

Guided electives are to be chosen with the guidance of the DIGM advisor according to the student's desired area of specialization.

Total Hours Required for Degree 120 Credit Hours

Digital Interaction Concentration

Requirements 27 Credit Hours

CSCI	1800	Visual Programming I	4
DIGM	2821	Desktop Publishing	4
DIGM	2900	Motion Tools I: Editing	4
ARTA	3401	Typography	3
DIGM	3200	Web Design	4
DIGM	3400	Interactive Design	4
DIGM	4400	Interactive Development	4

Digital Interaction Concentration

Guided Electives 14 Credit Hours

Select a minimum of 8 hours from:

DIGM	2870	Animation Fundamentals	4
DIGM	3130	3D Animation	4
DIGM	4146/4147	Fund. of Character Animation & Lab	4
DIGM	4616/4617	Adv. Raster-Based Imaging & Lab	4
DIGM	4626/4627	Motion Tools II: Compositing & Lab	4
DIGM	4636/4637	Advanced Interaction Design & Lab	4
DIGM	4856/4857	Advanced Web Design & Lab	4
DIGM	4826/4827	Motion Tools III: Application & Lab	4
DIGM	4900	Independent Study	1-6
DIGM	4957	Topics in Digital Media	2-4

Guided electives are to be chosen with the guidance of the DIGM advisor according to the student's desired area of specialization.

Total Hours Required for Degree 120 Credit Hours

Digital Visualization Concentration

Requirements 11 Credit Hours

ARTA	1201	Drawing Fundamentals	3
ENTC	2170	CADD (Computer Aided Design Drafting)	4
DIGM	3110	3-D Model Design	4

Digital Visualization Concentration

Guided Electives 30 Credit Hours

Select a minimum of 16 hours from:

DIGM	2821	Desktop Publishing	4
DIGM	2870	Animation Fundamentals	4
DIGM	2900	Motion Tools I: Editing	4
DIGM	3120	3-D Lighting & Rendering	4
DIGM	3130	3-D Animation	4
DIGM	3200	Web Design	4
DIGM	3300	Product Design	4
DIGM	3400	Interaction Design	4
DIGM	4146/4147	Fund. of Character Animation & Lab	4
DIGM	4400	Interactive Development	4

DIGM	4616/4617	Advanced Raster-Based Imaging & Lab	4
DIGM	4626/4627	Motion Tools II: Compositing & Lab	4
DIGM	4636/4637	Advanced Interaction Design & Lab	4
DIGM	4646/4647	Advanced Animation & Lab	4
DIGM	4666/4667	Advanced Product Design & Lab	4
DIGM	4816/4817	3-D Effects Animation & Lab	4
DIGM	4876/4877	Advanced Modeling & Lighting & Lab	4
DIGM	4886/4887	Technical Direction for Animation & Lab	4
DIGM	4900	Independent Study	2-6
DIGM	4957	Topics in Digital Media	2-6

Guided electives are to be chosen with the guidance of the DIGM advisor according to the student's desired area of specialization.

Total Hours Required for Degree 120 Credit Hours

**Digital Animation Concentration
Suggested Course Sequence**

Freshman Year

First Semester		Credit Hours	
ENGL	1010	Critical Reading and Expository Writing	3
ENTC	1510	Student in University	2
ARTA	1110	2-D Design	3
DIGM	1100	Visual Thinking	4
HIST	2010	The United States to 1877	3
Semester Total			15

Second Semester		Credit Hours	
ENGL	1020	Critical Thinking and Argumentation	3
MATH	1720	Pre-Calculus	3
ARTA	1204	Color Theory	3
DIGM	1640	Vector-Based Imaging	4
DIGM	1650	Raster-Based Imaging	4
Semester Total			17

Sophomore Year

First Semester		Credit Hours	
DIGM	3010	Principles of Visualization	4
HIST	2020	The United States Since 1877	3
PHYS	2010/11	General Physics I Lecture/Lab	4
ARTA	1201	Drawing Fundamentals	3
Semester Total			14

Second Semester		Credit Hours	
DIGM	3000	Principles of Interaction	4
DIGM	2870	Animation Fundamentals	4
ENTC	3020	Technology & Society	3
Literature or Fine Arts			3
Semester Total			14

Junior Year

First Semester		Credit Hours	
MATH	1530	Probability and Statistics	3
ARTA	2120	Basic Figure Drawing	3
DIGM	3130	3D Animation	4
DIGM	3110	3D Model Design or	
DIGM	3120	3D Lighting and Rendering	4
Semester Total			14

Second Semester		Credit Hours	
THEA	2510	Acting I	3
DIGM	4146/4147	Fundamentals of Character Animation and Lab	4
Natural Sciences (for science majors courses only)			4
Social/Behavioral Sciences			3
Oral Communication			3
Semester Total			17

Senior Year

First Semester		Credit Hours	
ENTC	3030	Technical Communication	3
Social/Behavioral Sciences			3
DIGM	2900	Motion Tools I	4
DIGM	4816/4817	3D Effects Animation and Lab or	
DIGM	4886/4887	Technical Direction for Animation and Lab	4
Semester Total			14

Second Semester		Credit Hours	
DIGM	4930	Portfolio Development for Digital Media	4
Literature or Fine Arts			3
Guided Elective			4
DIGM	4646/4647	Advanced Animation and Lab or	
DIGM	4957	Topics: Digital Media Production	4
Guided Elective			4
Semester Total			15
Total			120

**Digital Interaction Concentration
Suggested Course Sequence**

Freshman Year

First Semester		Credit Hours	
ENGL	1010	Critical Reading and Expository Writing	3
ENTC	1510	Student in University	2
ARTA	1110	2-D Design	3
DIGM	1100	Visual Thinking	4
HIST	2010	The United States to 1877	3

Semester Total	15
Second Semester	Credit Hours
ENGL 1020 Critical Thinking and Argumentation	3
MATH 1720 Pre-Calculus	3
ARTA 1204 Color Theory	3
DIGM 1640 Vector-Based Imaging	4
DIGM 1650 Raster-Based Imaging	4
Semester Total	17

Sophomore Year

First Semester	Credit Hours
DIGM 3000 Principles of Interaction	4
ARTA 3401 Typography	3
HIST 2020 The United States Since 1877	3
PHYS 2010/11 General Physics I Lecture/Lab	4
Semester Total	14
Second Semester	Credit Hours
DIGM 3010 Principles of Visualization	4
ENTC 3020 Technology and Society	3
DIGM 2821 Desktop Publishing	4
Literature or Fine Arts	3
Semester Total	14

Junior Year

First Semester	Credit Hours
MATH 1530 Probability and Statistics	3
DIGM 3200 Web Design	4
CSCI 1800 Visual Programming	4
Oral Communication	3
Literature or Fine Arts	3
Semester Total	17
Second Semester	Credit Hours
DIGM 2900 Motion Tools I	4
DIGM 3400 Interaction Design	4
Natural Sciences (for science majors courses only)	4
Social/Behavioral Sciences	3
Semester Total	15

Senior Year

First Semester	Credit Hours
DIGM 4400 Interactive Development	4
ENTC 3030 Technical Communication	3
Social/Behavioral Sciences	3
Guided Elective	4
Semester Total	14
Second Semester	Credit Hours
DIGM 4930 Portfolio Development for Digital Media	4
Guided Electives	10
Semester Total	14
Total	120

**Digital Visualization Concentration
Suggested Course Sequence**

Freshman Year

First Semester	Credit Hours
ENGL 1010 Critical Reading and Expository Writing	3
ENTC 1510 Student in University	2
ARTA 1110 2-D Design	3
DIGM 1100 Visual Thinking	4
HIST 2010 The United States to 1877	3
Semester Total	15
Second Semester	Credit Hours
ENGL 1020 Critical Thinking and Argumentation	3
MATH 1720 Pre-Calculus	3
ARTA 1204 Color Theory	3
DIGM 1640 Vector-Based Imaging	4
Literature/Fine Arts	3
Semester Total	16

Sophomore Year

First Semester	Credit Hours
DIGM 1650 Raster-Based Imaging	4
HIST 2020 The United States Since 1877	3
PHYS 2010/11 General Physics I Lecture/Lab	4
Concentration Course	4
Semester Total	15
Second Semester	Credit Hours
DIGM 3000 Principles of Interaction	4
DIGM 3010 Principles of Visualization	4
ENTC 3020 Technology & Society	3
Literature/Fine Arts	3
Semester Total	14

Junior Year

First Semester	Credit Hours
MATH 1530 Probability and Statistics	3
Oral Communication	3
ENTC 3030 Technical Communication	3
ARTA 1201 Drawing Fundamentals	3
DIGM 3110 3D Model Design	4
Semester Total	16
Second Semester	Credit Hours
Natural Sciences (for science majors courses only)	4
Social/Behavioral Sciences	3
Guided Electives	8

Semester Total	15
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Senior Year

First Semester	Credit Hours
Social/Behavioral Sciences	3
Guided Electives	12
Semester Total	15
Second Semester	Credit Hours
DIGM 4930 Portfolio Development for Digital Media	4
Guided Electives	10
Semester Total	14
Total	120

Digital Media Minor

A minor in Digital Media is available to students from all majors who wish to acquire technical knowledge and skills in Digital Media. Students must meet the prerequisites listed in the catalog for a particular course they wish to take or obtain permission from the instructor. Students are encouraged to choose guided electives that provide an emphasis in a particular area of specialization in Digital Media.

Minor Requirements 24 Credit Hours

DIGM 1100 Visual Thinking	4
DIGM 1640 Vector-Based Imaging	4
DIGM 1650 Raster-Based Imaging	4

Choose one of the following:

DIGM 3000 Principles of Interaction or	
DIGM 3010 Principles of Visualization	4
Guided Electives	8

Eight hours in guided elective courses must be chosen in consultation with the DIGM academic advisor. No more than 8 hours of credit can be applied to both the student's major degree and the minor. (Some majors require or allow students to take Digital Media courses to meet requirements within their major program.)

Only courses for which a grade of C or higher is earned will be accepted as part of the minor program.

Choices include (but may not be limited to):

DIGM 2821 Desktop Publishing	4
DIGM 2870 Animation Fundamentals	4
DIGM 2900 Motion Tools I: Editing	4
DIGM 3110 3D Model Design	4
DIGM 3120 3D Lighting and Rendering	4
DIGM 3130 3D Animation	4
DIGM 3200 Web Design	4
DIGM 3300 Product Design	4
DIGM 3400 Interactive Design	4
DIGM 4146/4147 Fund. of Character Animation & Lab	4
DIGM 4400 Interactive Development	4
DIGM 4616/4617 Advanced Raster-Based Imaging & Lab	4
DIGM 4626/4627 Motion Tools II: Compositing & Lab	4
DIGM 4816/4817 3D Effects Animation & Lab	4
DIGM 4826/4827 Motion Tools III: Application & Lab	4
DIGM 4886/4887 Technical Direction & Lab	4

**Bachelor of Science Degree (B.S.)
Interior Design (INTD)**

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

Note: See CSCI 1100 requirement on page 46.

TBR General Education Requirements 41 Credit Hours

ENGL 1010 Critical Reading and Expository Writing	3
ENGL 1020 Critical Thinking and Argumentation	3

SPCH 2300 or 2320	3
MATH 1530	3
Natural Sciences*	8
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Fine Arts* (ARTH 2010 or 2020 recommended)	3
Literature*	3
Humanities*	3
SRVL 1020 Introduction to Service Learning	3
Social/Behavioral Sciences*	3

* See TBR General Education Core Requirements

Interior Design Requirements 79 Credit Hours

ARTA 1110 Basic Design (Studio)	3
ARTA 1204 Color Theory	3
DIGM 1100 Visual Thinking	4
ENTC 2410 Construction Fundamentals	4
ENTC 4060 Project Scheduling	3
INTD 1105 Interior Design Fundamentals	3
INTD 1115 Architectural Drafting: Studio I	4
INTD 1205 Sustainable Design	3
INTD 1215 Visual Communication: Studio II	4
INTD 2105 Historical Interiors I	3
INTD 2110 Design for Human Behavior	3
INTD 2115 Interior Design Presentation: Studio III	4
INTD 2205 Historical Interiors II	3
INTD 2210 Materials and Finishes	3
INTD 2215 Residential Design: Studio IV	4
INTD 3105 Building Systems	3
INTD 3115 AutoCAD for Interior Design: Studio V	4
INTD 3205 Lighting	3
INTD 3215 Commercial Design: Studio VI	4
INTD 4105 Professional Practices in Interior Design	3
INTD 4115 Mixed-use Design: Studio VII	4
INTD 4205 Interior Design Internship	3
INTD 4215 Senior Design Studio: Studio VIII	4

Total Hours Required for Degree 120 Credit Hours

**Suggested Course Sequence
Freshman Year**

First Semester	Credit Hours
ENGL 1010 Critical Reading and Expository Writing	3
ARTA 1110 2-D Design	3
DIGM 1100 Visual Thinking	4
INTD 1105 Interior Design Fundamentals	3
INTD 1115 Arch. Drafting: Studio I	4
Semester Total	17
Second Semester	Credit Hours
ENGL 1020 Critical Thinking/Argumentation	3
ARTA 1204 Color Theory	3
INTD 1205 Sustainable Design	3
INTD 1215 Visual Commun.: Studio II	4
Semester Total	13

Sophomore Year

First Semester	Credit Hours
ENTC 2410 Construction Fundamentals	4
INTD 2105 Historical Interiors I	3
INTD 2110 Design for Human Behavior	3
INTD 2115 Visual Design Presentation: Studio III	4
Semester Total	14
Second Semester	Credit Hours
Communication: Oral Communication*	3
SRVL 1020 Introduction to Service Learning	3
INTD 2205 Historical Interiors II	3
INTD 2210 Interior Materials and Finishes	3
INTD 2215 Residential Design: Studio IV	4
Semester Total	16

Junior Year

First Semester	Credit Hours
HIST 2010 The United States to 1877	3
Mathematics*	3-4
ARTH 2010 or 2020 Art History Survey I or II	3
INTD 3105 Interior Building Systems and Components	3
INTD 3115 AutoCAD for ID: Studio V	4
Semester Total	16-17
Second Semester	Credit Hours
HIST 2020 The United States Since 1877	3
Social and Behavioral Sciences*	3
ENTC 4060 Project Scheduling	3
INTD 3205 Lighting	3
INTD 3215 Commercial Design: Studio VI	4
Semester Total	16

Senior Year

First Semester	Credit Hours
Natural Sciences*	4
Humanities*	3
INTD 4105 Professional Practices in ID	3
INTD 4115 Mixed-Use Design: Studio VII	4
Semester Total	16
Second Semester	Credit Hours
Natural Sciences	4
Literature	3
INTD 4205 Interior Design Internship	3
INTD 4215 Senior Design: Studio VIII	4
Semester Total	14
Total	120

BACHELOR OF SCIENCE IN SURVEYING AND MAPPING

The Surveying and Mapping curriculum has a core curriculum and guided electives in three sequences: cadastral/design, geospatial, and surveying business.

This program is accredited by the Applied Science Accreditation Commission (ASAC) of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 – telephone: (410) 347-7700; www.abet.org.

It is designed to meet the following goals and objectives. Within two to four years, graduates of the program:

1. will successfully complete FLS (Fundamentals of Land Surveying) portion of the professional license exam;
2. will have received progressive experience or increased professional opportunities;
3. will obtain a position of management in a firm that conducts professional surveys;
4. will become active and strive for a leadership role in the state and national organizations that represent the profession;

Students at graduation will be have:

- a. an ability to apply knowledge of mathematics, science, and applied sciences;
- b. an ability to design experiments and conduct experiments as well as analyze data and interpret data;
- c. an ability to formulate or design a system, process, or program to meet desired needs;
- d. an ability to function on multi-disciplinary teams;
- e. an ability to identify and solve applied science problems;
- f. an understanding of professional and ethical responsibility;
- g. an ability to communicate effectively;
- h. the broad education necessary to understand the impact of solutions in a global and societal context;
- i. a recognition of the need for and an ability to engage in life-long learning;
- j. a knowledge of contemporary issues;
- k. an ability to use the techniques, skills, modern scientific and technical tools necessary for professional practice; and also be able to:
 - 1) function as effective individuals and obtain professional goals, outcomes, and opportunities;
 - 2) quickly adapt to the work environment.

Students in Surveying and Mapping Science pursue coursework leading to professional land surveying practice. Core courses include plane, geodetic, and boundary surveying. By taking a core of 64 semester hours in surveying-related courses, students are well-prepared for future licensing and professional-level positions with surveying and engineering firms, government service, utility companies, and related industries.

**Bachelor of Science Degree (B.S.)
Surveying and Mapping Science Major (SURM)**

ETSU Academic Proficiency Requirements:

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.
See ETSU Academic Proficiency Requirements for details.

TBR General Education Requirements 42 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
Communication:	Oral Communication*	3
MATH 1910	Calculus I	4
PHYS 2010/11	General Physics Lecture/Lab I**	4
PHYS 2020/21	General Physics Lecture/Lab II**	4
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature*	.....	3
Fine Arts*	.....	3
ENTC 3020	Technology and Society	3
ECON 2210	Principles of Economics	3
PSYC 1310	Introduction to Psychology	3

* See TBR General Education Core Requirements.
** PHYS 2110 and 2120 may be substituted.

Survey Core Requirements 64 Credit Hours

SURV 2550	Surveying Measurement Fundamentals	4
SURV 2560	Surveying Graphics	4
SURV 3510	Engineering and Construction Surveys	4
SURV 3520	Land Survey Systems	2
SURV 3530	Surveying Measurements & Comp Analysis	4
ENTC 3989	Co-op	1
SURV 3550	Advanced Surveying Mathematics	3
SURV 3560	Geodetic Science	4
SURV 4500	Senior Project	2
SURV 4520	Survey Science Topics	3
SURV 4537	Land Boundary Location	4
SURV 4547	Land Subdivision and Platting	4
SURV 4550	Automated Surveying and Mapping	3
FNCE 3130	Real Estate Law	3
GEOG 3210	Cartography	3
ENTC 1510	Student in University	2
ENTC 3030	Technical Communications	3
GEOL 1040	Physical Geology	4
MATH 1920	Calculus II	4
MATH 2010	Linear Algebra	3

² A minimum of one hour for Co-op should be taken; more hours are allowed; SURV/3540 can also be substituted.

Surveying Sequence Requirements 22 Credit Hours

Students should select a group of courses from one of the following sequences:

Sequence #1: CADASTRAL / DESIGN SEQUENCE

SURV 3630	Surveying Hydrology I	4
GEOG 4217	Introduction to GIS	3
SURV 4630	Surveying Hydrology II	4
³ GEOL 4587	Engineering Geology	4
⁴ SURV 4617	Digital Image Process	3
SURV 4567	Positioning with GPS	3
ENTC 3989	Co-op	1
Total	.....	22

³GEOL 4617, GEOG 4317, ENTC 4417 or EMTC 4227 can be substituted.
⁴SURV/4517 can be substituted.

Sequence #2: GEOSPATIAL SEQUENCE

SURV 4517	Photogrammetry	4
GEOG 4217	Introduction to GIS	3
CSCI 2100	Introduction to C++*	3
SURV 4617	Digital Image Process	3
GEOG 4227	Remote Sensing	3
GEOG 4237	Advanced Remote Sensing	3
GEOG 4317	Advanced GIS	3
Total	.....	22

* CIS 113 RODP can be substituted.

Sequence #3: SURVEYING BUSINESS SEQUENCE

ACCT 2010	Principles of Accounting	3
FNCE 3220	Business Finance	3
MGMT 3000	Organizational Behavior and Management	3
¹ MGMT 4420	Law of Business Organizations	3
MGMT 3310	Legal Environment of Business	3

MKTG 3200	Principles of Marketing	3
MGMT 4510	Human Resources Management	3
ENTC 3989	Co-op	1
Total	.....	22

Total Hours Required for Degree ... 128 Credit Hours

¹MGMT 4600 can be substituted.

Transfer Students - Transfer students must meet all ETSU requirements for the minimum number of hours from ETSU and from a senior institution. Articulation agreements with several two-year institutions are available for smooth transfer to ETSU.

Students are encouraged to contact the program coordinator to discuss their individual needs.

**Suggested Course Sequence
Freshman Year**

First Semester		Credit Hours
ENGL 1010	Critical Reading and Expository Writing	3
MATH 1910	Calculus I	4
SURV 2560	Survey Graphics	4
PSYC 1310	Introduction to Psychology	3
ENTC 1510	Student in University	2
Semester Total	.....	16

Second Semester		Credit Hours
ENGL 1020	Critical Thinking and Argumentation	3
MATH 1920	Calculus II	4
SURV 2550	Survey Measurement Fundamentals	4
Communication:	Oral Communication*	3
GEOL 1040	Physical Geology	4
Semester Total	.....	18

Sophomore Year

First Semester		Credit Hours
SURV 3510	Engineering & Construction Surveys	4
SURV 3520	Land Survey Systems	2
Literature	.....	3
PHYS 2010/11*	General Physics I Lecture/Lab	4
HIST 2010	The United States to 1877	3
Semester Total	.....	16

Second Semester		Credit Hours
SURV 3530	Survey Measurement & Comp. Analysis	4
MATH 2010	Linear Algebra	3
PHYS 2020/21	General Physics II Lecture/Lab	4
HIST 2020	The United States Since 1877	3
Fine Arts	.....	3
Semester Total	.....	17

Junior Year

First Semester		Credit Hours
SURV 3550	Advanced Survey Math	3
SURV 3560	Geodetic Science	4
ECON 2210	Principles of Economics	3
ENTC 3030	Technical Communications	3
Technical Elective	.....	3-4
Semester Total	.....	16-17

Second Semester		Credit Hours
FNCE 3130	Real Estate Law	3
ENTC 3020	Technology and Society	3
GEOG 3210	Cartography	3
Technical Electives**	.....	7-9
Semester Total	.....	16-18

Summer Semester		Credit Hours
ENTC 3989	Co-op Education or	
SURV 3540	Surveying Projects	1-3
Semester Total	.....	1-3

Senior Year

First Semester		Credit Hours
SURV 4520	Survey Science Topics	3
SURV 4537	Land Boundary Location	4
Technical Elective*	.....	6-7
Semester Total	.....	13-14

Second Semester		Credit Hours
SURV 4547	Land Subdivision & Platting	4
SURV 4550	Automated Surveying & Mapping	3
SURV 4500	Senior Surveying Projects	2
Technical Elective**	.....	3-4
Semester Total	.....	12-13
Total	.....	128

* PHYS 2110 and PHYS 2120 will also satisfy the Physics requirement.
** Select from one of the three previously indicated sequences.

Department of Military Science

Box 70648

Phone: (423) 439-4269

The military science program is a cooperative enterprise between ETSU and the United States Army. The program is designed to develop the students' managerial and leadership abilities, introduce students to the

mission and organization of the United States Army and prepare advanced-course students for service as commissioned officers in the Active Army, Army Reserve or Army National Guard.

Major

An academic major in military science is not offered at ETSU. However, completion of the program qualifies the student for a commission as a second lieutenant.

Minor

Students may select Military Science as a minor in one of two ways. The **first option** (*non-commissioning*) consists of 18 semester hours of study: Military Science III (MSCI 3110 and MSCI 3120); Military Science IV (MSCI 4110 and MSCI 4120); Military History (MSCI 4582) *OR* War in the Modern World (HIST 3940); and World War II in Europe (HIST 4927) *OR* World War II in the Pacific (HIST 4937).

The **second option** (*commissioning*) consists of 25 semester hours of study: Military Science III (MSCI 3110 and MSCI 3120); Military Science IV (MSCI 4110 and MSCI 4120); Military History (MSCI 4582) *OR* War in the Modern World (HIST 3940); Leadership Development and Assessment (MSCI 4580); and Physical Fitness Instructor (MSCI 3217) for 4 hours.

Course Credit

Students interested in participating in the advanced phase may receive basic phase credit for having prior active or reserve component military service, three years of junior ROTC at the high school level, or for completion of ROTC Leaders Training Course (LTC).

ROTC SCHOLARSHIPS

Army ROTC scholarships pay annual tuition costs and a textbook allowance. Scholarship cadets also receive a tax-free subsistence allowance of \$200 a month for up to 10 months each school year in which the scholarship is in effect. In addition, the university provides 80 housing scholarships for Army ROTC scholarship recipients. High school students interested in the four-year scholarship program should contact:

Army ROTC
East Tennessee State University
Box 70648
Johnson City, TN 37614
(423) 439-5291 or 5288

College students interested in a two- or three-year scholarship should also contact the Department of Military Science.

ROTC Basic Course

Any student may enroll without obligation in the Department of Military Science's Basic Course Classes. Those classes listed as 1000- and 2100-series classes are considered part of the Basic Course of military science. Students desiring to enter the Advanced Course of the ROTC program through the four-year program must complete all four Basic Course Classes. In certain cases, the Professor of Military Science may waive one of these class requirements.

The basic phase is designed to introduce the United States Army as an institution, the military as a profession, and to impart to all students basic leadership skills which can be used in a civilian environment as well as in the military. The basic phase includes both formal classroom instruction and field practice periods. Subject matter deals with the organization and history of the United States Army, the dynamics of leadership and management, military skills, and mountaineering.

ROTC Leaders Training Course (LTC)

This is a four-week, paid summer course at Ft. Knox, Kentucky, designed for students who have two academic years remaining and who have not participated in the basic course program or received equivalency credit. LTC attendees receive pay and travel allowances. Training is practical in nature and consists of exercises in which the cadet is an active participant. There are no military or other obligations for basic camp attendance. Students may earn up to six credit hours and a two-year Army ROTC Scholarship.

ROTC Advanced Course

Advanced military science cadets continue their studies in leadership and tactics with the scope of instruction expanded to include subjects such as military law, battle simulations, group dynamics, organizational management, and decision making. Advanced course contract students receive from \$350 to \$400 per month up to a maximum of 20 months (equivalent to two academic years) and an appointment upon graduation as a Second Lieutenant. Contracted students incur a military obligation to the Active Army, the Reserve, or the National Guard. This obligation can consist of as little as three months active duty, with the remainder spent on Reserve, or National Guard status. Students who prefer Reserve or National Guard duty may be guaranteed that they will not be assigned to active duty except for the short period needed to complete a branch basic officer course (three- to six-months depending on the branch selected). Students interested in enrolling as a contract cadet must contact the Department of Military Science for specific program requirements, guarantees, benefits, and military information.

Leader Development and Assessment Course

Advanced course (LDAC) cadets are required to attend the five-week Leader Development and Assessment course at Ft. Lewis, Washington, upon completion of the junior year of military science. LDAC attendance is a prerequisite to commissioning but may be delayed until completion of the senior year with the approval of the United States Army and the Professor of Military Science at ETSU.

Course Sequence Requirements

To receive a commission in the United States Army through the military science program, a student must successfully complete 11 credit hours of courses at the basic level (1100 or 2100 courses), 16 hours at the advanced level (3100 or 4100 courses) and ROTC Advanced Camp (six semester credit hours). Equivalency credit may be given for the basic level courses for those cadets who are (1) veterans, (2) graduates of junior ROTC programs, or (3) graduates of the ROTC Leaders Training Course.

One of the following two sequences will be utilized to obtain a commission as a Second Lieutenant.

FOUR-YEAR PROGRAM COURSE SEQUENCE

MSCI 1217 Physical Fitness (Basic)
MSCI 1210 Leadership/Personal Development
MSCI 1180 Leadership/Personal Development (Lab)
MSCI 1220 Introduction to Tactical Leadership
MSCI 1181 Tactical Leadership (Lab)
MSCI 2110 Innovative Team Leadership
MSCI 2150 Military Skills I
MSCI 1182 Practicum III
MSCI 3217 Physical Fitness (Instructor)
MSCI 3110 Adaptive Tactical Leadership
MSCI 3120 Leadership in a Changing Environment
MSCI 4110 Developing Adaptive Leaders
MSCI 4581 Developing Adaptive Leaders (Lab)
MSCI 4120 Leadership in a Complex World
MSCI 4582 Military History
MSCI 4580 Leadership Development and Assessment

TWO-YEAR PROGRAM COURSE SEQUENCE

MSCI 2580 Leadership Training Course or equivalent
MSCI 3217 Physical Fitness (Instructor)
MSCI 3110 Adaptive Tactical Leadership
MSCI 3120 Leadership in a Changing Environment
MSCI 4110 Developing Adaptive Leaders
MSCI 4120 Leadership in a Complex World
MSCI 4582 Military History
MSCI 4580 Leadership Development and Assessment

The Chair of the Department of Military Science may make exceptions to this policy under unusual circumstances.

College of Clinical and Rehabilitative Health Sciences

Box 70282**Phone: (423) 439-7457****Mission Statement**

The mission of the College of Clinical and Rehabilitative Health Sciences is to foster innovative collaborations that support student learning, scholarship, service, and that meet the clinical and rehabilitative health needs of our patients, clients, and communities.

Goals

1. Provide innovative curricula supported by service and research to educate clinical and rehabilitative practitioners.
2. Create an academic and clinical culture that encourages service to diverse and underserved populations and addresses the clinical and rehabilitative health needs across the lifespan and health care spectrum.
3. Provide specialized preventive, assessment, and rehabilitative health services through clinical education and community outreach programs.
4. Provide opportunities for service-learning and professional growth to students, practitioners, and faculty.
5. Promote scholarship and mentoring that supports the principles of evidence-based practice and life-long learning.

Vision

Our vision is to be an essential source of leaders, educators, expert practitioners, and cutting-edge information in the clinical and rehabilitative health sciences.

Departments and Programs**College of Clinical and Rehabilitative Health Sciences****Departments located on Johnson City campus:**

Allied Health Sciences (Dental Hygiene)
Communicative Disorders

Department located on VA Campus, Building 2:

Physical Therapy

Department located on Elizabethton campus:

Allied Health Sciences
Allied Health Leadership
Cardiopulmonary Science (Respiratory Care)
Radiography

Clinics located at the Main Campus, VA Campus, Main Hospital, Outpatient Clinic, Nave (Elizabethton), and Boones Creek Wellness Center.

Dental Hygiene Clinic
Speech and Hearing Clinic

Degrees and Majors Offered by the Departments**College of Clinical and Rehabilitative Health Sciences**

Department	Major	Concentrations	Degrees
Allied Health Sciences	ALSC	AHLD	B.S.
		CPSC	
		RADG	
Communicative Disorders	AUDI	DHYG	B.S.
		CDIS	M.S.A.H. Au.D.
Nutrition and Foods Speech Pathology	NTFD		B.S. M.S.
		PHYT	D.P.T.

Admission Requirements

Admission to most programs in the College of Clinical and Rehabilitative Health Sciences is selective. Students seeking admission to Allied Health Science programs must first apply and be admitted to ETSU. However, this admittance to the university does not assure acceptance into these

programs. Refer to admission requirements in the ETSU Undergraduate Catalog and appropriate departmental literature regarding separate admission/progression policies.

Criminal Background Investigation

In Tennessee and nationally, due to legislative and accreditation requirements, many schools, childcare, and health care facilities require that students in health-related professions be required to submit to a Criminal Background Investigation (CBI) before participating in any educational/patient care activities at their sites. These educational/clinical activities are an essential requirement for graduation or subsequent licensure and the inability to complete this requirement may result in a student's failure to meet the graduation requirements of certain ETSU College of Clinical and Rehabilitative Health Sciences programs. Students must be aware that they will be required to do the following:

1. Truthfully answer all questions, including those pertaining to felony convictions, on the student undergraduate or graduate application. Students who do not answer the questions truthfully and completely shall not be eligible for acceptance or enrollment. Discovery that the section dealing with felony convictions was not completely or truthfully answered by an enrolled student may result in dismissal.
2. Complete a CBI prior to participating in internship, field placement, or cooperative experiences at an affiliated institution that requires a CBI, as determined by the academic department.
3. Notify the Program Chair of any criminal charges within five (5) working days of their occurrence during enrollment in the program. Failure to notify the chair of such events may result in immediate dismissal.
4. Check departmental guidelines for procedures for obtaining the CBI.

**College Special Services
Speech-Language-Hearing Clinic**

The Department of Communicative Disorders provides clinical services to individuals having speech, language, or hearing problems. Evaluation and treatment procedures are performed by qualified students under the supervision of certified faculty for a nominal fee. All persons are eligible for the services. Appointments may be scheduled by contacting the Department of Communicative Disorders at (423) 439-4355.

Dental Hygiene Clinic

The Dental Hygiene program offers clinical services including dental inspection, dental prophylaxis (scaling and polishing the teeth), preventive treatments (application of fluorides and dental sealants), preventive periodontal treatment, and diagnostic dental X-rays. All treatment is provided by qualified dental hygiene students under the supervision of a licensed dentist and dental hygiene faculty for a nominal fee. All persons are eligible for the services. Appointments may be scheduled by contacting Dental Hygiene at (423) 439-4514.

Graduate Study Offered

- The Department of Communicative Disorders offers study for the Master of Science degree with a major in communicative disorders and concentration in speech-language pathology. A clinical Doctorate in Audiology (Au.D.) is also available.
- The Department of Allied Health Sciences offers a study for the Master of Science degree in Allied Health.
- The Department of Physical Therapy offers a post-baccalaureate entry-level Doctor of Physical Therapy degree (D.P.T.) program. Information on the graduate program in physical therapy is available in the ETSU Graduate Catalog and on the department web site: www.etsu.edu/crhs/physther/index/htm.

Advisement

The College of Clinical and Rehabilitative Health Sciences offers advisement for students pursuing entrance into the selective admission programs within the college. For more information, students should contact Mr. Matt Johnson (johnsonm@etsu.edu) (423) 439-7468 in the Office of Advisement.

Students interested in a career in Dental Hygiene programs should direct inquiries to Dr. Charles Faust (faust@etsu.edu) (423) 439-4497, ETSU Box 70690, Johnson City, TN 37614.

Students considering professional careers in dentistry and occupational therapy should contact Mr. Matt Johnson (johnsonm@etsu.edu) (423) 439-7468 in the Office of Advisement.

**Department of Allied Health Sciences
(ALSC)**

Box 70573 (AHL, CPSC, & RADG) Phone: (423) 547-4900

Box 70690 (DHYG) (NTFD) Phone: (423) 439-4497

The Department of Allied Health Sciences is a multidisciplinary department offering courses of study leading to Bachelor of Science degrees in Allied Health and Dental Hygiene. Five concentrations are available: Allied Health Leadership, Cardiopulmonary Science, Dental Hygiene, Radiography, and Nutrition and Foods Concentration.

All programs offered in the department call for a high degree of individual motivation, good physical health, and manual dexterity. Instruction is individualized and performance standards are exacting.

One class per year is admitted for Cardiopulmonary Science, Dental Hygiene, and Radiography. Students are required to attend designated consecutive semesters to complete the programs. Allied Health Leadership and Nutrition concentrations have open enrollment throughout the academic year.

The number of students admitted to each of the Allied Health career programs is limited. Admission is based on: successful completion of admission requirements; interview with an admissions committee; and space availability. The number of applicants admitted to each program is determined by several factors, including the number of available seats for clinical experiences, the predicted number of positions available in the health care industry for graduates, and enrollment limitations imposed by accreditation agencies. The limitation in class size and increasing popularity of the programs have created a highly competitive situation for applicants. Applicants will be notified in writing of the actions taken by the respective admission committees.

Students must apply and be admitted to East Tennessee State University. Students must also submit an application to the Allied Health concentration in which they are seeking admission.

**Allied Health Major
Bachelor of Science Degree (B.S.)**

The Bachelor of Science degree in Allied Health (B.S.) prepares students to qualify as contributing members of the Allied Health team dedicated to the conservation of life and the maintenance of health. The B.S. degree offers concentrations in Allied Health Leadership, Cardiopulmonary Science, Nutrition, and Radiography. The program correlated classroom and clinical instruction enabling the student to be competent in a specific concentration area. This approach will enable graduates to competently perform tasks as identified in the respective scopes of practice as autonomous health care providers. Students admitted to the program must have a strong and diverse academic background that will facilitate individual judgment, critical thinking skills, and utilization of appropriate professional decision-making skills. Students must also possess psychomotor, cognitive, and affective skills demonstrating competence, flexibility, responsibility, and sensitivity to client populations.

The Allied Health Leadership concentration offers students that have previously graduated from an Associate of Applied Science (A.A.S.) health-

related program the opportunity to obtain a baccalaureate degree by using more of the A.A.S. credit hours than normally transfer to a four-year institution. The B.S. completion program is designed for health care providers in a medical field such as medical assisting, medical laboratory technology, cardiovascular technology, physical therapy assistant, and occupational therapy assistant. Students must complete 41 credit hours of general education requirements, 28 credit hours of allied health core courses, and 24 credit hours in the Allied Health Leadership concentration.

Cardiopulmonary Science and Radiography concentrations are designed for students who have completed one or two years of pre-professional college work (a minimum of 40 credit hours) that includes the prerequisite courses required by the major. The Allied Health core consists of 28 credit hours and the professional phase (composed of the concentration and clinical practice components) of the curriculum consists of 51 credit hours for both concentrations. The baccalaureate degree in Allied Health requires 120 credit hours.

Admission Requirements for B.S.

Admission to the cardiopulmonary and radiography professional curriculum is a competitive process and is entirely separate from the students' admission to ETSU. A limited number of students are admitted annually to each concentration by an Admissions Committee. Each applicant is evaluated on the basis of academic record, personal interview, and clinical observation. Evidence of university admission, updated high school and/or college transcripts, and department application forms must be returned to the departmental office by **March 1** for the applicant to be considered by the Admissions Committee.

To gain admittance to a concentration area, the student must complete all admission, health, and academic requirements. Due to the large number of applicants, limited enrollment, and accreditation standards, all candidates are evaluated through a number of different instruments.

To be considered for admission to the Bachelor of Science in Allied Health, Cardiopulmonary Science and Radiography concentrations, applicants must meet the requirements for admission to ETSU. Prior to being admitted to the professional core, applicants must complete the following requirements:

1. Maintain a college GPA of 2.50 or better on a 4.0 scale;
2. Complete prerequisite general education and other allied health core courses as required by the concentration obtaining a grade of *C* or better in each course within the first two attempts by the time of admission to the professional core;
3. Complete an additional minimum of 16 credit hours from the general educational core (not including prerequisite courses) maintaining a college GPA of 2.50 or better on a 4.0 scale;
4. Meet specific health and/or essential functions.

Students seeking admission to the Allied Health Leadership concentration must meet the following requirements:

1. College GPA of 2.50 or better on a 4.0 scale on all transferable credit;
2. Transcript(s) to include proof of graduation from an accredited allied health professional program;
3. Eligibility for professional licensure in discipline.

Prerequisite General Education and Allied Health: These prerequisite courses **MUST** be completed prior to enrolling in the Cardiopulmonary Science and Radiography concentration courses.

Note: These prerequisite courses are included in the General Education and Allied Health core.

HSCI	2010	Anatomy/Physiology I	.....	3
HSCI	2011	Anatomy/Physiology Lab I	.....	1
HSCI	2020	Anatomy/Physiology II	.....	3
HSCI	2021	Anatomy/Physiology Lab II	.....	1
HSCI	2230	Intro to Microbiology	.....	3
HSCI	2231	Intro to Microbiology Lab	.....	1
ALHE	2010	Intro to Allied Health	.....	2
ALHE	2020	Patient Care & Assessment	.....	3
MATH	1530	Probability & Statistics - Non-Calculus	.....	3
CHEM	1030	Introduction to Chemistry Survey	.....	4

PHYS 1030 *Introduction to Physics Survey 4
Radiography Concentration 24 Credit Hours
Cardiopulmonary Science Concentration 28 Credit Hours

**Required only for Cardiopulmonary Science Concentration*

TBR General Education Requirements 41-42 Credit Hours
 ENGL 1010 Critical Reading & Expository Writing 3
 ENGL 1020 Critical Thinking & Argumentation 3
 Communication: Oral Communication* 3
 Mathematics* 3-4
 HSCI 2010/11 Anatomy and Physiology I Lecture/Lab 4
 HSCI 2020/11 Anatomy and Physiology II Lecture/Lab 4
 HIST 2010 The United States to 1877 3
 HIST 2020 The United States Since 1877 3
 Literature* 3
 Fine Arts* 3
 Humanities* 3
 Social and Behavioral Sciences* 6

Allied Health Core 28 Credit Hours
 CHEM 1030 Introduction to Chemistry Survey 4
 HSCI 2230 Introduction to Microbiology 3
 HSCI 2231 Introduction to Microbiology Lab 1
 PUBH 2030 First Aid & Emergency Care 3
 PUBH 2100 Health Care Systems 3
 ALHE 2010 Introduction to Allied Health 2
 ALHE 2020 Patient Care & Assessment 3
 ALHE 4060 Research in Allied Health 3
 ALHE 4070 Leadership in Allied Health 3
 ENVH 3030 Allied Health Law 3

Allied Health Leadership Concentration (AHL)

Box 70573 Phone: (423) 547-4900

The Allied Health Leadership concentration is designed to offer students with Associate of Applied Science (A.A.S.) degrees in Allied Health fields the opportunity to obtain a baccalaureate degree by using more of their A.A.S. hours than normally transfer to a four-year institution. This concentration allows A.A.S. graduates the opportunity to receive undergraduate credit for allied health professional courses completed at a community college. The B.S. completion program is designed for health care providers in a medical field such as medical assisting, medical laboratory technology, cardiovascular technology, physical therapy assistant, and occupational therapy assistant. This concentration will build upon existing professional knowledge to enhance skills in communications, critical thinking, problem solving, research, and leadership theories. In addition, the concentration will equip graduates with entry-level management, group dynamics, and supervisory skills as they relate to the allied health disciplines. Successful completion of the concentration will increase the mobility of the graduate into leadership positions in their respective profession.

TBR General Education Requirements 41-42 Credit Hours
 ENGL 1010 Critical Reading & Expository Writing 3
 ENGL 1020 Critical Thinking & Argumentation 3
 Communication: Oral Communication* 3
 Mathematics* 3-4
 HSCI 2010/11 Anatomy and Physiology I Lecture/Lab 4
 HSCI 2020/21 Anatomy and Physiology II Lecture/Lab 4
 HIST 2010 The United States to 1877 3
 HIST 2020 The United States Since 1877 3
 Literature* 3
 Fine Arts* 3
 Humanities* 3
 Social and Behavioral Sciences* 6

Allied Health Core 28 Credit Hours
 CHEM 1030 Introduction to Chemistry Survey 4
 HSCI 2230/31 Introduction to Microbiology Lecture/Lab 4
 PUBH 2030 First Aid & Emergency Care 3
 PUBH 2100 Health Care Systems 3
 ALHE 2010 Introduction to Allied Health 2
 ALHE 2020 Patient Care & Assessment 3
 ALHE 4060 Research in Allied Health 3

ALHE 4070 Leadership in Allied Health 3
 ENVH 3030 Allied Health Law 3

Professional Curriculum Allied Health

Leadership Concentration 24 Credit Hours
 ALHE 3010 Allied Health Professionals 3
 DYHG 4010 Teaching Strategies for Allied Health 3
 PUBH 3080 Principles of Epidemiology 3
 PUBH 3200 Health Services Administration 3
 PUBH 3220 Health Services Planning 3
 PUBH 4377 Health Communication 3
 PUBH 4607 Gerontology and Health 3
 MGMT 3000 Organizational Behavior 3

Field Cognate 9-27 Credit Hours
 ALHE 1100 Professional Field Cognate I 1-15
 ALHE 2100 Professional Cognate II 1-12

Total Hours Required for Degree 120 Credit Hours

Suggested Course Sequence

Year	Semester	Course	Credit Hours	
Junior	First Semester	ALHE 3010 Allied Health Professionals	3	
		PUBH 2100 Health Care Systems	3	
		PUBH 2030 First Aid & Emergency Care	3	
		PUBH 3080 Principles of Epidemiology	3	
		Humanities/Fine Arts Elective*	3	
	Second Semester	Social/Behavioral Science Elective*	3	
		Semester Total	18	
		Second Semester	PUBH 3200 Health Services Administration	3
			ALHE 4060 Research in Allied Health	3
			Mathematics*	3-4
Humanities/Fine Arts Elective*	3			
Allied Health Core	4			
Semester Total	16-17			

Senior Year

Semester	Course	Credit Hours
First Semester	DHYG 4010 Teaching Strategies for Allied Health	3
	ENVH 3030 Allied Health Law	3
	HIST 2010 The United States to 1877	3
	PUBH 4607 Gerontology and Health	3
	Allied Health Core	4
Semester Total	16	
Second Semester	ALHE 4070 Leadership in Allied Health	3
	MGMT 3000 Organization Behavior	3
	PUBH 4377 Health Communication	3
	HIST 2020 The United States Since 1877	3
	PUBH 3220 Health Services Planning	3
Semester Total	15	
Total	120	

Note: Additional General Education Core Credits may be required. Students are recommended to contact Department for A.A.S. transcript evaluation.

The department offers an online program for the Allied Health Leadership Concentration. Students interested in this format should contact the department.

Cardiopulmonary Science Concentration (CSPC)

Accredited by: Committee on Accreditation for Respiratory Care (CoARC) 1248 Harwood Rd., Bedford, TX 76021-4244 (817) 283-2835

Commission on Accreditation of Allied Health Education Programs (CAAHEP) 1361 Park St., Clearwater, FL 33756 (727) 210-2350

The Respiratory Therapist applies scientific knowledge and theory to practical clinical problems of respiratory care. Respiratory Therapists are qualified to assume primary responsibility for all respiratory care modalities, including the supervision of certified respiratory care practitioners. The Respiratory Therapist may be required to exercise considerable independent clinical judgment, under the supervision of a physician in the treatment of patients with respiratory dysfunction. The Respiratory Care Practitioner may perform the following respiratory care modalities: advanced airway management, pediatric and neonatal critical care, hemodynamic monitoring, metabolic cart studies, cardiopulmonary stress testing, and other advanced procedures.

Upon successful completion of the requirements for the Cardiopulmonary Science concentration, students are eligible to apply for

admission to sit for three examinations administered by the National Board for Respiratory Care. Candidates are required to pass the Certified Respiratory Therapist entry-level examination as a prerequisite to the two advanced practitioner examinations.

Licensure requirements for respiratory care practitioners vary according to state statutes. In Tennessee, practitioners are required to pass the national examinations for certified and/or registered respiratory therapist respectively.

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010	Critical Reading & Expository Writing	3
ENGL 1020	Critical Thinking & Argumentation	3
Communication:	Oral Communication*	3
Mathematics*		3-4
HSCI 2010/11	Anatomy and Physiology I Lecture/Lab	4
HSCI 2020/21	Anatomy and Physiology II Lecture/Lab	4
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature*		3
Fine Arts*		3
Humanities*		3
Social and Behavioral Sciences*		6

Allied Health Core 28 Credit Hours

CHEM 1030	Introduction to Chemistry Survey	4
HSCI 2230/31	Introduction to Microbiology Lecture & Lab	4
PUBH 2030	First Aid & Emergency Care	3
PUBH 2100	Health Care Systems	3
ALHE 2010	Introduction to Allied Health	2
ALHE 2020	Patient Care & Assessment	3
ALHE 4060	Research in Allied Health	3
ALHE 4070	Leadership in Allied Health	3
ENVH 3030	Allied Health Law	3

Professional Curriculum Cardiopulmonary

Science Concentration 51 Credit Hours

CPSC 3000	Foundations of CPSC	4
CPSC 3010	Foundations of CPSC Laboratory	3
CPSC 3040	Pharmacology in CPSC	3
CPSC 3100	CPSC Critical Care	3
CPSC 3110	CPSC Critical Care Laboratory	3
CPSC 3140	CPSC Disease Pathology	3
CPSC 3150	Clinical Education I	3
CPSC 3350	Clinical Education II	4
CPSC 3550	Patient Centered Practice	3
CPSC 4100	Advanced CPSC Critical Care	3
CPSC 4150	Clinical Education III	3
CPSC 4200	Neonatal & Pediatric CPSC	3
CPSC 4350	Clinical Education IV	3
CPSC 4500	CPSC Diagnostic & Therapeutic Care	3
PHYS 1030	Introduction to Physics Survey	4
PUBH 4607	Gerontology	3

Total Hours Required for Degree 120 Credit Hours

**Suggested Course Sequence
Freshman Year**

First Semester		Credit Hours
ENGL 1010	Critical Reading & Expos. Writing	3
Mathematics		3-4
*HSCI 2010/11	Anatomy & Physiology I Lecture & Lab	4
Social and Behavioral Sciences Elective		3
Semester Total		13-14

Second Semester		Credit Hours
ENGL 1020	Critical Thinking & Argumentation	3
*HSCI 2020/21	Anatomy & Physiology II Lecture & Lab	4
PUBH 2030	First Aid & Emergency Care	3
Social/Behavioral Sciences Elective		3
Semester Total		13

Sophomore Year

First Semester		Credit Hours
HIST 2010	The United States to 1877	3
HSCI 2230/31	Introduction to Microbiology Lecture & Lab	4
*CHEM 1030	Introduction to Chemistry Survey	4
*ALHE 2010	Introduction to Allied Health	2
Humanities/Fine Arts Elective		3
Semester Total		16

Second Semester		Credit Hours
HIST 2020	The United States Since 1877	3
PUBH 2100	Health Care Systems	3
*ALHE 2020	Patient Care & Assessment	3
*PHYS 1030	Introduction to Physics Survey	4
Humanities/Fine Arts Elective		3
Semester Total		16

Junior Year

First Semester		Credit Hours
CPSC 3000	Foundations of Cardiopulmonary Science	4
CPSC 3010	Foundations of Cardiopulmonary Science Lab	3
CPSC 3040	Pharmacology in Cardiopulmonary Science	3
Communication: Oral Communication		3
Semester Total		13

Second Semester		Credit Hours
CPSC 3100	Cardiopulmonary Critical Care	3
CPSC 3110	Cardiopulmonary Critical Care Lab	3
CPSC 3150	Clinical Education I	3
Humanities/Fine Arts Elective		3
Semester Total		12

Summer

Summer Semester		Credit Hours
CPSC 3140	Cardiopulmonary Disease Pathology	3
CPSC 3350	Clinical Education II	4
CPSC 3550	Patient Centered Practice	3
Semester Total		10

Senior Year

First Semester		Credit Hours
CPSC 4100	Advanced Cardiopulmonary Critical Care	3
CPSC 4150	Clinical Education III	3
CPSC 4500	Cardiopulmonary Diagnostic & Therapeutic Care	3
ALHE 4060	Research in Allied Health	3
ENVH 3030	Allied Health Law	3
Semester Total		15

Second Semester		Credit Hours
CPSC 4200	Neonatal & Pediatric Cardiopulmonary Care	3
CPSC 4350	Clinical Education IV	3
ALHE 4070	Leadership in Allied Health	3
PUBH 4607	Gerontology	3
Semester Total		12
Total		120

* Prerequisite courses must be completed prior to being accepted into the Cardiopulmonary Science Program.

Note: One Humanities/ Fine Arts Elective must be in Literature. One General Education elective must be Writing Intensive.

**Radiography Concentration
(RADG)**

Accredited by: Joint Review Committee on Education in Radiologic Technology, 20 N. Wacker Drive, Suite 2850
Chicago, Illinois 60606-3182
(312) 704-5300 – mail@jrcert.org

Radiography integrates scientific knowledge and skills with effective patient interactions to provide quality patient care and useful diagnostic information. The radiographer performs radiographic examinations that create images needed for diagnosis. Radiographers must demonstrate an understanding of human anatomy, physiology, medical terminology, pathology, radiation protection, and patient assessment. Radiographers administer contrast media and medications in accordance with state and federal regulations and assist physicians to complete intricate medical procedures. Radiographers are the primary liaison between patients, physicians, and health agency staff. Additional duties may include equipment evaluation, conducting quality assurance programs, providing patient education, and departmental administrative functions. Radiographers are employed in health care facilities including specialized medical centers, urgent care clinics, private physicians' offices and as educators or department administrators. Salaries and benefits are generally competitive with other health professions and vary according to experience and employment location.

Upon degree completion, individuals may apply to take the national certification examination. Successful completion of the American Registry of Radiologic Technologists (ARRT) certification examination permits use of the credential R.T. (R) following one's name. The R.T. signifies registered technologist and the (R) indicates radiography.

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010	Critical Reading & Expository Writing	3
ENGL 1020	Critical Thinking & Argumentation	3
Communication: Oral Communication*		3

Mathematics*	3-4
HSCI 2010/11 Anatomy and Physiology I Lecture/Lab	4
HSCI 2020/21 Anatomy and Physiology II Lecture/Lab	4
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Literature	3
Fine Arts	3
Humanities	3
Social and Behavioral Sciences	6

Allied Health Core 28 Credit Hours

CHEM 1030 Introduction to Chemistry Survey	4
HSCI 2230/31 Introduction to Microbiology Lecture and Lab	4
PUBH 2030 First Aid & Emergency Care	3
PUBH 2100 Health Care Systems	3
ALHE 2010 Introduction to Allied Health	2
ALHE 2020 Patient Care & Assessment	3
ALHE 4060 Research in Allied Health	3
ALHE 4070 Leadership in Allied Health	3
ENVH 3030 Allied Health Law	3

Professional Curriculum

Radiography Concentration 51 Credit Hours

RADT 3000 Image Production & Evaluation	4
RADT 3010 Radiation Physics	4
RADT 3020/21 Radiographic Procedures I Lecture & Lab	4
RADT 3030/31 Radiographic Procedures II Lecture & Lab	4
RADT 3040 Clinical Education I	2
RADT 3050 Clinical Education II	2
RADT 3060 Radiographic Imaging & Quality Assessment	3
RADT 3070 Radiobiology	4
RADT 4000 Clinical Education III	6
RADT 4010 Clinical Education IV	3
RADT 4020 Clinical Education V	3
RADT 4030 Radiographic Pathology	3
RADT 4040 Radiopharmaceuticals & Special Procedures	3
RADT 4060 Digital Imaging in Radiography	3
RADT 4070 Professional Transition to Radiography	3

Total Hours Required for Degree 120 Credit Hours

* Prerequisite courses must be completed prior to being accepted into the Radiography Concentration.

**Suggested Course Sequence
Freshman Year**

First Semester	Credit Hours
ENGL 1010 Critical Reading and Expository Writing	3
*HSCI 2010/11 Anatomy & Physiology I Lecture & Lab	4
PSYC 1310 Introduction to Psychology	3
Social and Behavioral Sciences Elective	3
Semester Total	13
Second Semester	Credit Hours
ENGL 1020 Critical Thinking and Argumentation	3
*HSCI 2020/21 Anatomy & Physiology II Lecture & Lab	4
Mathematics	3-4
Communication: Oral Communication	3
Humanities/Fine Arts Elective	3
Semester Total	16-17

Sophomore Year

First Semester	Credit Hours
HIST 2010 The United States to 1877	3
PUBH 2100 Health Care Systems	3
*HSCI 2230 Introduction to Microbiology Lecture & Lab	4
*ALHE 2010 Introduction to Allied Health	2
Humanities/Fine Arts Elective	3
Semester Total	15
Second Semester	Credit Hours
HIST 2020 The United States Since 1877	3
*CHEM 1030 Introduction to Chemistry Survey	4
*ALHE 2020 Patient Care and Assessment	3
PUBH 2030 First Aid and Emergency Care	3
Humanities/Fine Arts Elective	3
Semester Total	16

Junior Year

First Semester	Credit Hours
RADT 3000 Image Production and Evaluation	4
RADT 3020/21 Radiographic Procedures I Lecture & Lab	4
RADT 3040 Clinical Education I	2
ALHE 4070 Leadership in Allied Health	3
Semester Total	13

Second Semester	Credit Hours
RADT 3010 Radiation Physics	4
RADT 3060 Radiographic Imaging & Quality Assessment	3
RADT 3030/31 Radiographic Procedures II Lecture & Lab	4
RADT 3050 Clinical Education II	2
Semester Total	13

Summer

RADT 4000 Clinical Education III	6
Total	6

Senior Year

First Semester	Credit Hours
RADT 3070 Radiobiology	4
RADT 4040 Radiopharmaceuticals & Special Procedures	3
ALHE 4060 Research in Allied Health	3
ENVH 3030 Allied Health Law	3
RADT 4010 Clinical Education IV	3
Semester Total	16

Second Semester	Credit Hours
RADT 4060 Digital Imaging and Radiography	3
RADT 4030 Radiographic Pathology	3
RADT 4070 Professional Transition to Radiography	3
RADT 4020 Clinical Education V	3
Semester Total	12
Total	120

**Dental Hygiene Concentration
(DHYG)**

Box 70690

Phone: (423) 439-4497

Accredited by: Commission on Dental Accreditation, American Dental Association, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and the United States Department of Education

The dental hygienist works with the dental team in the prevention and control of dental disease and has the opportunity to work in diverse settings. In addition to the private dental office, dental hygienists may work in such practice settings as: federal, state, and local health departments, hospitals, nursing homes, school systems, educational programs for dental hygiene and dental assisting students, private business/industry, correctional facilities, private and public centers for pediatric, geriatric, and other individuals/groups with special needs, and health maintenance organizations.

The dental hygienist, a recognized member of the dental team, is devoted to helping patients prevent dental disease and maintain good oral health. The responsibilities of a licensed dental hygienist in Tennessee include scaling and polishing teeth, applying topical fluoride agents, placing pit and fissure sealants, providing nutritional counseling, exposing and processing dental radiographs, and educating the patient in the proper care of their teeth and supporting structures.

Practice and Licensure: For licensure, most states require dental hygiene graduates to pass both the National Dental Hygiene Board Examination and a licensing examination prescribed by the individual state board of examiners. Most states require dental hygienists to practice under the supervision of a licensed dentist.

The Dental Hygiene program offers a Bachelor of Science degree (B.S.).

Program Admission: All students applying to the program must meet the requirements for the specific degree programs listed in this catalog. All applicants must first apply and be admitted to the university. This admittance, however, does not assure acceptance to the dental hygiene program.

Applications for the university should be addressed to:

East Tennessee State University
Office of Admissions
Box 70731
Johnson City, TN 37614

A separate program application *must* be received by **March 1** for consideration by the admissions committee. Students may secure academic advisement prior to admission by contacting the Dental Hygiene Admissions Chair.

Requests for the application forms should be addressed to:
 East Tennessee State University
 College of Clinical and Rehabilitative Health Sciences
 Admissions Chair, Dental Hygiene
 Box 70690
 Johnson City, TN 37614

You may also obtain the information by calling (423) 439-4497 or visiting the dental hygiene web site: www.etsu.edu/crchs/dental.

Requests for the B.S. online degree completion program for practicing dental hygienists may also be obtained from the above address, phone number, and/or web site address.

Expenses: In addition to the usual registration and tuition, students are required to purchase such personal items as uniforms, dental instruments, specialized textbooks, laboratory materials, and a dental hygiene pin. Expenditures for these items, which are the personal property of the student, are approximately \$2,000. Most of this additional expense occurs during the first year of study.

Retention - Progression Policy: Dental Hygiene students will be allowed to progress in the dental hygiene curriculum as all dental hygiene courses and basic science courses (Anatomy and Physiology, Microbiology, and Chemistry) are completed with a grade of C or better. Progression status will be evaluated at the close of each semester. Students receiving less than a 2.0 in any of the classes listed above will be placed on probation. A student on probation who receives a second grade of less than 2.0 in one of the classes listed above will not be permitted to progress in the dental hygiene curriculum. Students earning failing grades in any dental hygiene course will be reviewed by the faculty to determine feasibility of progression. Following the faculty review of student performance, an individual plan for curriculum completion will be presented for consideration for any student affected.

**Bachelor of Science Degree (B.S.)
 in Dental Hygiene**

The B.S. degree consists of 67 credit hours of dental hygiene core classes and a minimum of 53 credit hours of general education core and prerequisite classes for a total of 120 credit hours. All courses offered in the dental hygiene core curriculum must be taken in sequence. The general education core classes may be taken prior to entry into the program. Because of the rigors of the curriculum, students are encouraged to complete all general education core classes prior to applying to the dental hygiene program.

Admission Requirements

Admission to the ETSU Dental Hygiene program requires that the applicant be admitted to the university before the application to the professional program can be considered. If the applicant is in the process of applying to the university, he/she may receive conditional acceptance until the final university admission is received. If the applicant is a former ETSU student, he/she must apply and be readmitted to the university. Admission to the B.S. program requires the following information be submitted:

- (1) evidence of admission to the university,
- (2) completed program application form, and
- (3) official college transcripts from all institutions attended.

The program must receive all information by **March 1**. Upon receipt of this information, the Admission's Chair will review all aspects of the applicant's record to determine if the applicant will be considered for an interview. Entry into the B.S. program requires completion of all of the first-year classes listed in the curriculum. The equivalent courses at another institution will be accepted if the university accepts them as transfer credit.

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010	Critical Reading & Expository Writing	3
ENGL 1020	Critical Thinking & Argumentation	3
	Communication: Oral Communication*	3
	Mathematics*	3-4
HSCI 2010/11	Anatomy and Physiology I Lecture/Lab	4

HSCI 2020/11	Anatomy and Physiology II Lecture/Lab	4
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature*	.....	3
Fine Arts*	.....	3
Humanities*	.....	3
Social and Behavioral Sciences*	.....	6

**See General Education Core Requirements.*

Major Requirements 67 Credit Hours

DHYG 2020	Dental Anatomy & Histology	3
DHYG 2040	Dental Office Emergencies	2
DHYG 2030	Pre-Clinical Lecture	3
DHYG 2031	Pre-Clinical Lab	3
DHYG 2050	Occupational Safety for Dental Healthcare	1
DHYG 2060	Introduction to Dental Hygiene	1
DHYG 2130	Clinical Seminar I	1
DHYG 2131	Clinical Practice I	4
DHYG 2160	Periodontology	3
DHYG 2170	Dental Radiology	3
DHYG 2171	Dental Radiology Lab	1
DHYG 3010	Head & Neck Anatomy	2
DHYG 3020	General & Oral Pathology	3
DHYG 3030	Clinical Seminar II	2
DHYG 3031	Clinical Practice II	4
DHYG 3110	Dental Materials	2
DHYG 3111	Dental Materials Lab	1
DHYG 3120	Pharmacology	3
DHYG 3130	Community Dental Health	3
DHYG 3200	Issues in Dental Hygiene	1
DHYG 4000	Dental Radiographic Interpretation	3
DHYG 4010	Teaching Strategies	1
DHYG 4020	Dental Hygiene Seminar III	1
DHYG 4021	Dental Hygiene Clinical Practice III	4
DHYG 4030	Anesthesia & Pain	1
DHYG 4031	Local Anesthesia Lab	1
DHYG 4110	Supportive Periodontal Therapy	3
DHYG 4120	Dental Hygiene Clinical Seminar IV	1
DHYG 4121	Dental Hygiene Clinical Practice IV	4
DHYG 4130	Geriatric Dental Hygiene	2
DHYG 4141	Community & Rural Dental Health	1

Additional Requirements 11 Credit Hours

HSCI 2230	Introduction to Microbiology	4
CHEM 1030	Introduction to Chemistry Survey	4
NTFD 2420	Principles of Nutrition	3

Total Hours Required for Degree 120 Credit Hours

**Suggested Course Sequence
 Semester One - Fall Semester**

ENGL 1010	Critical Reading & Expository Writing	3
	Mathematics	3-4
CHEM 1030	Introduction to Chemistry Survey	4
HSCI 2010	Anatomy & Physiology I	3
HSCI 2011	Anatomy & Physiology I-Lab	1
HIST 2010	The United States to 1877	3
Semester Total		17-18

Semester Two - Spring Semester

ENGL 1020	Critical Thinking and Argumentation	3
HSCI 2020/21	Anatomy & Physiology II Lecture & Lab	4
HSCI 2230/31	Introduction to Microbiology	4
	Lecture & Lab	
	Social and Behavioral Sciences Elective	3
HIST 2020	The United States Since 1877	3
Semester Total		17

Semester Three - Fall Semester

SOAA 1020	Introduction to Sociology	3
DHYG 2060	Introduction to Dental Hygiene	1
DHYG 2020	Dental Anatomy and Histology	3
DHYG 2040	Dental Office Emergencies	2
DHYG 2030/31	Pre-Clinical Lecture and Lab	6
DHYG 2050	Occupational Safety for Dental Healthcare Workers	1
DHYG 4010	Teaching Strategies for Allied Health	3
Semester Total		19

Semester Four - Spring Semester		
NTFD 2420	Principles of Nutrition	3
DHYG 3020	General and Oral Pathology	3
DHYG 2170	Dental Radiology	3
DHYG 2171	Dental Radiology-Lab	1
DHYG 2131	Clinical Practice I	4
DHYG 2130	Clinical Seminar I	1
	Communication: Oral Communication	3
Semester Total		18

Semester Five - Summer Semester		
	Humanities/Fine Arts Elective	3
DHYG 3010	Head and Neck Anatomy	2
DHYG 3031	Clinical Practice II	4
DHYG 3030	Clinical Seminar II	2
DHYG 2160	Periodontology	3
DHYG 4000	Dental Radiographic Interpretation	1
Semester Total		15

Semester Six - Fall Semester		
DHYG 4030	Anesthesia and Pain	1
DHYG 4031	Local Anesthesia Lab	1
DHYG 3110/11	Dental Materials Lecture and Lab	3
DHYG 4120	Pharmacology	3
DHYG 4021	Dental Hygiene Clinical Practice III	4
DHYG 4020	Dental Hygiene Seminar III	1
DHYG 3130	Community Dental Health	3
Semester Total		16

Semester Seven - Spring Semester		
	Humanities/Fine Arts Elective (Literature)	3
	Humanities/Fine Arts Elective	3
DHYG 4110	Supportive Periodontal Therapy	3
DHYG 4130	Geriatric Dental Hygiene	2
DHYG 3200	Issues in Dental Health	1
DHYG 4121	Dental Hygiene Clinical Practice IV	4
DHYG 4120	Dental Hygiene Clinical Seminar IV	1
DHYG 4141	Community and Rural Dental Health	1
Semester Total		18
Total		120

**Department of Communicative Disorders
(CDIS)**

Box 70643

Phone: (423) 439-4272

The field of communicative disorders encompasses the professions of audiology and speech-language pathology. Persons working in the field assist individuals who have difficulties with hearing, balance, speech, and/or language communication. Professionals are skilled in the techniques of evaluation, in (re)habilitation treatment, and in aspects of counseling communicatively handicapped individuals and their families. Audiologists and speech-language pathologists provide services to all age groups. Such services may be located in medical, educational, and private settings.

The Department of Communicative Disorders graduate programs in audiology and speech pathology are fully accredited by the American Speech-Language-Hearing Association (ASHA). Undergraduate students may receive preparation for the graduate programs in CDIS by selecting any major with a minor in CDIS. At the graduate level, the Department of CDIS offers two program tracks. Students enroll in either a two-year Master of Science degree in Speech-Language Pathology, or a four-year Doctorate in Audiology (AUD). Completion of the graduate programs in Communicative Disorders prepares the student to meet the requirements for professional certification by ASHA. The programs also meet licensure requirements for the Tennessee Board of Health Related Professions and the Tennessee Board of Education.

Application deadline for the graduate program is mid-February and may be completed while enrolled in prerequisite coursework. (See Graduate Catalog for specific application information). For students who have completed an undergraduate degree, conditional acceptance to the graduate program will be considered. The prerequisite coursework for the graduate programs in Communicative Disorders includes the following:

At least 6 credit hours in the Biological/Physical Science and Mathematics (at least one course in each area). A course in statistics is recommended.

At least 6 credit hours in the Behavioral and /or Social Sciences including study that pertains to understanding normal/abnormal human behavior, developments across the life span, social interaction, and issues of culturally diverse populations.

Communicative Disorders Minor .....20 Credit Hours		
CDIS 4000	Communication Sciences and Disorders	3
CDIS 4017/5017	Speech and Hearing Science I	4
CDIS 4027/5027	Speech and Hearing Science II	4
CDIS 4030	Language Development	3
CDIS 4037/5037	Speech & Hearing Anatomy & Physiology	3
CDIS 4200	The Clinical Process	3

**Nutrition and Foods
(NTFD)**

The Nutrition and Foods concentration provides students with the foundation skills and knowledge necessary to provide general nutrition education to individuals as well as to community groups. The undergraduate program in dietetics is developmentally accredited as a didactic program in dietetics (DPD) by the Commission on Accreditation for Dietetics Education (CADE) of The American Dietetic Association (ADA).

To receive the baccalaureate of science degree in Allied Health with the Nutrition and Foods concentration, 120 credit hours must be completed. The degree program includes the general education core (41 credits) and allied health core (25 credits), nutrition and foods didactic and laboratory courses (51 credits), as well as a field experience (3 credits).

Students who successfully complete the DPD program will receive a CADE Verification of Completion Statement and are then eligible to apply for a supervised practice program (dietetic internship). Successful completion of an accredited dietetic internship will allow students to complete the national Registration Examination to become a registered dietitian. Another option for DPD graduates is to take the Registration Exam for Dietetic Technicians.

ETSU Academic Proficiency Requirements

Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.

Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

Using Information Technology: Students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See *ETSU Academic Proficiency Requirements for details.*

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010	Critical Reading & Expository Writing	3
ENGL 1020	Critical Thinking & Argumentation	3
Communication: Oral Communication*		3
MATH 1530	.....	3
HSCI 2010/11	Anatomy and Physiology I Lecture/Lab	4
HSCI 2020/11	Anatomy and Physiology II Lecture/Lab	4
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature* (ENGL 2210, 2220, or 2430 suggested)		3
Fine Arts*		3
Humanities*		3
PSYC 1310	Introduction to Psychology	3
SOAA 1020	Introduction to Sociology	3

**See General Education Core Requirements.*

Core Requirements25 Credit Hours

ALHE 2010	Introduction to Allied Health	2
ALHE 2020	Patient Care and Assessment	3
ALHE 4060	Research in Allied Health	3
ALHE 4070	Leadership in Allied Health	3
ALHE 4100	Information Management	3
ENVH 3030	Allied Health Law	3
HSCI 2230/31	Introduction to Microbiology Lec/Lab	4
CHEM 1110/11	General Chemistry I Lec/Lab	4

Core Requirements 54 Credit Hours

NTFD 2415	Art and Science of Food Preparation	3
NTFD 2420	Principles of Nutrition	3
NTFD 3430	Community Nutrition	3
NTFD 3440	Quantity Food Operations	4
NFTD 3465	Human Nutrition and Metabolism	3
NFTD 3485	Basic Skills in Dietetics Practice	2
NTFD 4415	Food Systems Administration	3
NTFD 4425	Clinical Nutrition I	3
NTFD 4437	Clinical Nutrition II	3
NTFD 4447	Nutritional Biochemistry	3
NFTD 4465	Experimental Food Science	3
NTFD 4475	Managing Food Service Operations	3
NTFD 4535	Field Studies	3
PUBH 3120	Principles & Practices of Health Education	3
CHEM 1120/21	General Chemistry II Lec/Lab	4
CHEM 2010/11	Organic Chemistry Lec/Lab	4
MGMT 4510	Human Resources Management	3

Admission Requirements

Applications will be accepted and reviewed in the semester following the accrual of 60 (sixty) credit hours. The application process will include a review of transcripts and evaluation of a written statement of personal and career goals. Requirements for admission and retention in the Nutrition and Foods concentration are as follows:

- Maintain a college GPA of 2.5 or better on a 4.0 scale (developmental studies grades/quality points excluded);
- Complete science courses and all NTFD courses with a minimum grade of “C” or better in each course within the first two attempts.

Career Opportunities in Nutrition

Many exciting career opportunities await registered dietitians (RD). Students who choose not to apply for a dietetic internship also have several career options in education, sales, or public health.

Registered Dietitians have many career options:

- Clinical Dietetics: hospital inpatient and acute care
 - Nutrition Support
 - Intensive Care
 - Pediatrics and Neonatology
 - Diabetes
 - Cardiology
 - General Medicine
 - Oncology
 - Renal
 - Surgery
- Obesity/Weight Management
- Consulting to Health Care Facilities
- Government Agencies and Programs
 - Head Start
 - School Food Service
 - Coordinated School Health
 - WIC
- Food and Nutrition in Industry
- Sales and Marketing
- Nutrition Education and Research
- Pharmaceutical and Food Companies
- Sports Nutrition
- Wellness
- Long-term Care

For those students who choose not to pursue a dietetic internship following completion of the DPD program, several career options exist:

- Dietetic Technician, Registered: Students will be eligible to take the DTR exam following completion of the undergraduate program.
- WIC Nutrition Educator
- Lactation Consultant
- Agricultural Extension Service
- Medical-Nutrition Sales
- Food Service Director

Academic Advising

Students interested in the B.S. degree with a major in Allied Health, Nutrition and Foods concentration, should make an advisement appointment by calling (423) 439-7468. Periodic advising is strongly recommended.

Expenses/Financial Aid

Tuition and fees can be found at http://www.etsu.edu/comptrol/bursar_fees.htm. The student will incur the costs of tuition, room, board, and books. In addition, each student is responsible for all expenses related to clinical education including, health and liability insurance, health screening, personal, and incidental expenses.

For More Information:

Department of Allied Health Sciences:
 (423) 547-4900
 Fax: (423) 547-4921

ETSU Didactic Program in Dietetics website: <http://www.etsu.edu/crhs/alliedhealth/nutrition>

**Department of Physical Therapy
(PHYT)**

Box: 70624

Phone: (423) 439-8275

Physical Therapy, which is the care and services provided by or under the direction and supervision of a physical therapist, includes: 1) examining and evaluating patients with health-related conditions, impairments, functional limitations, and disability in order to determine a diagnosis, prognosis, and intervention; 2) alleviating impairments and functional limitations by designing, implementing, and modifying therapeutic interventions; 3) preventing injury, impairments, functional limitations, and disability, including promoting and maintaining fitness, health, and quality of life in all age populations; and 4) engaging in consultation, education, and research. (Adopted by the American Physical Therapy Association (APTA) board of directors in March 1995 (B.D. 03-95-24-64)

The university offers a post-baccalaureate entry-level doctor of physical therapy degree (D.P.T.) program. Information on the graduate program in physical therapy is available in the ETSU Graduate Catalog and on the department web site: www.etsu.edu/crhs/physther

School of Continuing Studies

P.O. Box: 70733

Phone: (423) 439-8300

The School of Continuing Studies is the academic unit responsible for the special needs of adult and nontraditional students. In addition to the Office of the Associate Vice President for Public Service and Dean of Continuing Studies, there are several centers with special programs or services.

Division of Cross-Disciplinary Studies

The Division of Cross-Disciplinary Studies administers the Bachelor of General Studies, Bachelor of Applied Science, Bachelor of Science in Interdisciplinary Studies, Bachelor of Science in Professional Studies, Master of Arts in Liberal Studies, and the Master of Professional Studies degrees. The Division facilitates credit classes at sites other than Johnson City, Bristol, and Kingsport through Cohort programs. Arrangements for off-campus courses can be made by calling Cross-Disciplinary Studies at (423) 439-6807. In order to service the needs of organizations such as business/industry and school systems, courses are taught on-site at organizations when appropriate faculty are available. The courses can be existing classes, or course content can be tailored to the organization's needs within approved limits established by ETSU academic departments and faculty.

The Division offers service-learning courses. Service-learning is a form of experiential education that ties academic coursework to meaningful service. While gaining core and oral- and writing-intensive credit in the introductory course, students work with populations or environments through placements with community agencies. Students commit to thirty (30) out-of-class hours while gaining hands-on involvement, resume building experience, time management awareness, communication skills and critical thinking practice.

Office of Professional Development

The goal of the Office of Professional Development is to provide quality non-credit continuing education and professional development programs; conferencing, seminars, workshop services; and life-long learning opportunities designed to meet the specific needs of learners of all ages that include, but are not limited to, industry, health care, academic and professional organizations, and P-16 education. Professional Development seeks to enhance ETSU credit and academic programs whenever possible. This office also offers CEU, TNA, and APA certification to qualifying programs. Internet programs are also available.

ETSU at Kingsport

Day, evening, and weekend classes including lower division, upper division, and graduate courses are offered each term at the ETSU at Kingsport campus in Kingsport, Tenn. Undergraduate offerings meet most of the freshman and sophomore degree requirements of most ETSU programs. Graduate evening courses are available in selected academic areas. Scholarships for full- and part-time students are available. Courses are taught by full-time ETSU faculty based at the center, faculty from the main campus in Johnson City, and adjunct instructors from the community. Career counseling, academic advising, and financial aid assistance are available. A variety of intramural and other student activities are also available.

Facilities on the 100-acre site include computer registration via GoldLink Online, bookstore, library, biology and chemistry labs, computer labs, and a gymnasium/weight room.

Office hours: Monday-Friday 7:30 a.m. - 7:00 p.m.
Saturday 8:00 a.m. - 1:00 p.m.
Telephone: (423) 392-8000 **Fax:** (423) 392-8014

Bachelor of General Studies (BGS)

Box 70659

Phone: (423) 439-4223

The School of Continuing Studies offers the Bachelor of General Studies (BGS) to provide adult learners an alternative to traditional degree programs. A learner-centered program, the BGS allows students to develop an individualized program of study specifically tailored to their learning needs.

The BGS program is most suited for the mature student, generally 21 or older, who wishes to complete an undergraduate degree while still fulfilling employment and family responsibilities. Each student follows an Individual Learning Plan (ILP). This plan is a written summary developed by the student and BGS advisor that includes the ETSU general education core, previous college-level work, and elective credits to meet both graduation requirements and the students' personal or professional goals. Recognizing that learning often occurs in nonacademic settings, the School of Continuing Studies encourages its BGS majors to pursue credit for college-level prior learning. Students may earn credit through such programs as the College Level Examination Program (CLEP), departmental challenge examinations, or submission of a prior learning portfolio to be evaluated by ETSU faculty. Students who have previously earned a four-year degree are not eligible to enroll in the BGS program. Due to the unique nature of the BGS degree, students may not double major.

Admission Requirements:

1. A student must be admitted to the university through the Office of Admissions.
2. Once accepted, the student must apply for admission to the BGS program through the School of Continuing Studies and meet these requirements.
 - a. The student must be 21 or older but not have 100 or more credit hours. (Exceptions to the 100 hours completed may be appealed to the Department Chair, Division of Cross-Disciplinary Studies.)
 - b. The student must complete the Cross-Disciplinary Studies application.
 - c. The student must write a brief essay that includes academic goals and objectives and the reason the B.G.S. program is appropriate.
 - d. The student must interview with the BGS advisor. The student must show evidence of ability to do highly independent work. Students better served by traditional academic programs will be referred to those programs.

Curriculum Requirements:

1. TBR General Education Requirements 41-42 Credit Hours	
ENGL 1010 Critical Reading and Expository Writing	3
ENGL 1020 Critical Thinking and Argumentation	3
Communication: Oral Communication*	3
Mathematics*	3-4
Natural Sciences*	8
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Literature*	3
Fine Arts*	3
Humanities*	3
Social/Behavioral Sciences*	6

*See the General Education Core Requirements for options.

Additional graduation requirements:

Proficiency intensives

2. **Individual Learning Plan (ILP).** The students' Individual Learning Plan, designed with the help of an academic advisor, must include the following course: BGSD 4210 Professional Field Experience

(three credit hours). The ILP is prepared early in the students' program. Each students' ILP consists of prior learning and all planned new learning. Prior learning includes previous coursework, credit for CLEP and other exams, credit recommended by the American Council on Education, and prior learning portfolio credit. New learning consists of the ETSU courses the student plans on completing to meet degree requirements. BGS majors are required to limit their hours from the College of Business and Technology to no more than 25 percent of the total number of hours completed for the BGS degree.

3. **Senior-Level Institution.** A minimum of 50 credit hours must be completed at a senior-level (four-year) institution.
4. **Upper Division and Residency.** 34 credits of the students' total program must be upper division (3000/4000 levels). At least 30 credit hours of credit must be completed in residence at ETSU. Evening, off-campus courses, and credit earned through the portfolio are considered residence credit.
5. **Grade Point Average.** A minimum grade point average of 2.0 is required to graduate.
6. **Minor.** A minor is not required for BGS students but students may choose to pursue a minor as it fits their goals.
7. **Professional Field Experience.** Satisfactory completion of the BGS Professional Field Experience (BGSD 4210) is required to graduate.
8. **Total Hours.** 120 credit hours are required.

BGSD 4210 Professional Field Experience (3 credits) – Required of all BGS students. Senior standing. The purpose is to increase the students' knowledge in a particular personal or career-related area through a practical learning experience. This must be new learning by the student and submitted in the form of a culminating project.

The Prior Learning/Experiential Learning Portfolio

The prior learning portfolio is an option available only to B.G.S., B.S.I.S., and B.S.P.S. students that allows them the opportunity to earn credit for their college-level learning that has taken place outside the traditional college classroom. In consultation with the advisor, students prepare a prior learning portfolio. The finished portfolio is submitted to the advisor to appraise form and content. Final approval is made by the appropriate departmental faculty. Credit may only be awarded for prior learning that directly equates to specific ETSU courses.

If a student transfers from the B.G.S., B.S.I.S., and B.S.P.S. to another major, hours earned through the prior-learning portfolio cannot be applied to the new major. No more than 25 percent of the degree may be earned through the prior learning portfolio process. In a 120-semester-hour program, this limit is 30 credit hours. Credit earned through the prior learning portfolio is ungraded and does not affect the students' grade point average. Portfolio credit does count as ETSU residence credit.

Bachelor of Applied Science (B.A.S.)

Box 70659 Phone: (423) 439-4223 916 W. Maple St.

The Bachelor of Applied Science (B.A.S.) degree offers students with Associate of Applied Science (AAS) degrees in technical fields the opportunity to obtain a baccalaureate degree by using more of their AAS hours than normally transfer to traditional majors. The degree is not intended for students with degrees in health-related fields or for students who have earned AAS degrees in subject areas where articulation agreements with ETSU already exist. B.A.S. students, in conjunction with the B.A.S. advisor, design an individualized program of study that best meets the students' needs for professional development and career enhancement. The program of study includes a professional development concentration which students may fulfill either by completing an ETSU minor or by completing 27 hours of related, advisor-approved courses. Students who have previously earned a four-year degree are not eligible to enroll in the B.A.S. program. Due to the unique nature of the B.A.S. degree, students may not double major.

Admission Requirements

1. Students must have the AAS degree in a field that does not have an articulated program with ETSU.
2. Students apply to ETSU and must meet ETSU general admission requirements.
3. Upon acceptance to ETSU, students complete an admissions interview with a B.A.S. advisor.
4. The B.A.S. advisor recommends admission or denial to the Department Chair, Division of Cross-Disciplinary Studies.
5. The Department Chair accepts or denies admission.

Curriculum Requirements

1. TBR General Education Requirements 41-42 Credit Hours

ENGL 1010 Critical Reading and Expository Writing	3
ENGL 1020 Critical Thinking and Argumentation	3
Communication: Oral Communication*	3
Mathematics*	3-4
Natural Sciences*	8
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Literature*	3
Fine Arts*	3
Humanities*	3
Social/Behavioral Sciences*	6

*See the General Education Core Requirements for options.

Additional graduation requirements:

- Proficiency intensives
2. **A.A.S. degree transfer hours.** Up to 60 credits from the students' AAS degree may be applied to the B.A.S. degree.
 3. **Gateway Courses.** Gateway courses are five ETSU courses required by all B.A.S. students, including the following: ENGL 1020, MATH 1530, and HIST 2010 and/or advisor approved courses. (These courses all apply to the students' degree.) Each course must be completed with the minimum 2.0 prior to petitioning to earn credit for the following technical specialty courses from their AAS degree. After completion of all Gateway courses as required, the B.A.S. advisor will complete a form to petition for credit for up to 30 technical specialty hours to be used in the degree program. These hours will be assigned to special categories used only for this degree. The advisor will determine how these hours may be applied to the students' program.
 4. **Technical Specialty.** Technical courses from AAS degree that did not have direct transfer. In order to petition to earn credit for up to 30 of these hours, students must have met two conditions: (1) completion of all Gateway courses with minimum 2.0 in each course and (2) a minimum overall 2.0 GPA for all ETSU work. Direct transfer hours and technical specialty credit combined should not exceed 60 hours.
 5. **Professional Field Experience.** Satisfactory completion of the Professional Field Experience (BGSD 4210) is required to graduate.
 6. **General Electives.** Approved electives to complete 120 total hours.
 7. All other graduation requirements of the university must be met. See index for listing of these requirements in front section of the catalog.
 8. **Total Credits.** 120 credits required.

Bachelor of Science in Interdisciplinary Studies (B.S.I.S.)

Box 70659 Phone: (423) 439-4223 916 W. Maple St.

The web-based Bachelor of Science in Interdisciplinary Studies (B.S.I.S.) is especially designed to meet the needs of those with limited access to higher education; typically, adult students whose work, place of residence, family obligations, or other confinements have made attendance difficult in traditional on-campus courses. The B.S.I.S. program is most suitable for adults who have completed an associate degree, or at minimum, some college credit. The program gives students the opportunity to integrate personal and professional growth through the exploration of perspectives,

philosophies and experience in a variety of disciplines. Students complete two areas of concentration, which they may fulfill either by completing an ETSU minor or by completing 12 hours of related, upper-level coursework in an area appropriate to their educational or professional goals. Students may obtain the degree entirely through online courses or through a combination of traditional classroom and online courses. Students who have previously earned a four-year degree are not eligible to enroll in the B.S.I.S. program. Due to the unique nature of the B.S.I.S. degree, students may not double major.

Admission Requirements

1. Students apply to ETSU and must meet ETSU general admission requirements.
2. Upon acceptance to ETSU, students complete an admissions interview with a B.S.I.S. advisor. The interview may be completed over the telephone or through some other electronic means. The purpose of the interview is to determine whether the B.S.I.S. is the best program for the student, or if the student would be better served by another degree program.
3. Students must complete the Cross-Disciplinary Studies application.
4. The B.S.I.S. advisor recommends admission or denial to the Department Chair, Division of Cross-Disciplinary Studies.
5. The Department Chair accepts or denies admission.

Curriculum Requirements

1. TBR General Education Requirements	41-42 Credit Hours
ENGL 1010 Critical Reading and Expository Writing	3
ENGL 1020 Critical Thinking and Argumentation	3
Communication: Oral Communication*	3
Mathematics*	3-4
Natural Sciences*	8
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Literature*	3
Fine Arts*	3
Humanities*	3
Social/Behavioral Sciences*	6

** See the General Education Core Requirements for options.
 * Students may choose regular ETSU general education core courses or RODP general education core courses that are currently developed.*

Additional graduation requirements:

- Proficiency intensives
- 2. **Two Concentrations.** The student will complete two concentrations of his/her choice. Each concentration is a minimum of 12 hours of related coursework in the same discipline. Of the 12 hours required for each concentration, 9 of those hours must be at the 3000-4000 levels. There may be no duplication of courses between the two concentrations.
- 3. **Professional Field Experience.** Satisfactory completion of the B.S.I.S. Professional Field Experience (B.S.I.S. 4210) is required to graduate.
- 4. **Guided electives.** The student will complete up to 52 hours of advisor-approved elective courses.
- 5. **Upper division requirement.** 34 hours of the students' entire B.S.I.S. degree program must be at the 3000/4000 levels.
- 6. All other graduation requirements of the university must be met. See index for listing of these requirements in front section of the catalog.
- 7. **Total Credit Hours.** A total of 120 credit hours are required.

Bachelor of Science in Professional Studies (B.S.P.S.)

Box 70659 Phone: (423) 439-4223 916 W. Maple St.

The web-based Bachelor of Science in Professional Studies (B.S.P.S.) is especially designed to meet the needs of those with limited access to higher education; typically, adult students whose work, place of residence, family obligations, or other confinements have made attendance difficult

in traditional on-campus courses. The B.S.P.S. program is most suitable for adults who have completed an associate degree, or, at minimum, some college credit. Students must complete a concentration in either information technology or organizational leadership. The information technology concentration provides students with knowledge of the management information systems field and prepares them to work in most information systems departments in business, industry, or government. The organizational leadership concentration provides students with the opportunity to learn and develop management and communication skills applicable to work in management areas. Students may obtain the degree entirely through online courses or through a combination of traditional classroom and online courses. Students who have previously earned a four-year degree are not eligible to enroll in the B.S.P.S. program. Due to the unique nature of the B.S.P.S. degree, students may not double major.

Admission Requirements

1. Students apply to ETSU and must meet ETSU general admission requirements.
2. Upon acceptance to ETSU, students complete an admissions interview with a B.S.P.S. advisor. The interview may be completed over the telephone or through some other electronic means. The purpose of the interview is to determine whether the B.S.P.S. is the best program for the students, or if the student would be better served by another degree program.
3. Students must complete the Cross-Disciplinary Studies application.
4. The B.S.P.S. advisor recommends admission or denial to the Department Chair, Division of Cross-Disciplinary Studies.
5. The Department Chair accepts or denies admission.

Curriculum Requirements

1.TBR General Education Requirements 41-42 Credit Hours

ENGL 1010 Critical Reading and Expository Writing	3
ENGL 1020 Critical Thinking and Argumentation	3
Communication: Oral Communication*	3
Mathematics*	3-4
Natural Sciences*	8
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Literature*	3
Fine Arts*	3
Humanities*	3
Social/Behavioral Sciences*	6

**See the General Education Core Requirements for options.*

Additional graduation requirements:

- Proficiency intensives
- 2. **Professional Core.** The professional core is a total of 21 hours. The student chooses one course from each of the following five areas:
- Area One: Administration and Supervision 3 Credit Hours**
 - Principles of Administration (METH 4381)
 - Public Administration (PADM 3601)
 - Principles of Management and Organization Behavior (MGMT 610)
 - Special Topics in Leadership (LIST 4093)
- Area Two: Organizational Systems 3 Credit Hours**
 - Non-profit Organizations (PADM 4226)
 - Complex Organizations and Occupations
 - Organizational Theory and Behavior (PM 4120)
 - Nursing Management
 - Organizational Theory and Development
- Area Three: Teamwork and Organizational Relationships 3 Credit Hours**
 - Organizational Communication (ORCO 3240)
 - Small Group Communication
 - Integrated Corporate Communication (COMM 3010)
 - Psychology of Stress Management
 - Developing Volunteer Programs
 - Professional Development

Area Four: Statistical Methods 3 Credit Hours

- Social Statistics (SOAA 3350)
- Applied Sociology
- Introduction to Social Research (SOC 4510)
- Basic Statistics for Behavioral Science
- Public Relations Research (JOUR 3410)

Area Five: International Context 3 Credit Hours

- International Relations (POLS 4508)
- International Communication
- Latin America: The Countries and Peoples (SPAN 3550)
- International Law (PISI 435)
- Sociology of Mass Communication
- International Health: Problems and Issues (PUBH 4707)
- International Political Economy (PS 3510)
- Mass Media and Cultures (PSCI 3010)
- Comparative Politics (PSCI 3010)

The student chooses two courses from Area Six:

Area Six: Written Communications 6 Credit Hours

- Technical and Professional Writing
- Computers, Writing, and Literature (ENGL 3134)
- Professional Communication (ENGL 3250)
- Professional Writing (ENGL 4100)
- Public Relations Writing (JOUR 3421)
- Software and Technical Writing
- Technical Communication (ENTC 3030)
- Written Professional Communication

3. Concentrations. Students will choose to complete one of the following 21-credit concentrations.

Information Technology 21 Credit Hours

Computer Languages 3

- CIS 1610 Programming in C++ **OR**
- CIS 209 Java Programming I

Management of Information Systems Overview 3

- PTMA 3020 Managing Information Technology **OR**
- MGMT 3220 Management of Information Systems

Files/Operating Systems 3

- CS 305 Programming Languages **OR**
- INFS 3700 Intro. to Systems Analysis and Design

Database Management 3

- CSCI 3222 Database Management Systems

Network Design and Management 3

- INFS 4900 Seminar in Data Communications

Software - Analysis and Design 3

- CSC 3700 Software Analysis and Design **OR**
- UNIV 4706 Managing Software Development

Capstone 3

- B.S.P.S. 4210 Professional Field Experience
- or**

Organizational Leadership 21 Credit Hours

- Management of Human Resources (BMGT 3630) 3
- Cultural Diversity (SW 3200) 3
- Introduction to Public Relations (JOUR 3400) 3
- Corporate Etiquette (MGMT 4547) 3
- Psychology of Personality (PSY 3590) 3
- Abnormal Psychology (PSYC 3210) 3
- Capstone (B.S.P.S. 4210) 3

- 4. Guided Electives.** The maximum total of electives is 37 hours.
- 5.** All other graduation requirements of the university must be met. See index for listing of these requirements in front section of the catalog.
- 6. Total Credit Hours.** A total of 120 credit hours are required.

Clemmer College of Education

Box 70685**Phone: (423) 439-7626****Web address: <http://coe.etsu.edu>****Accredited by:**

National Council for Accreditation of Teacher Education (NCATE);
Tennessee State Board of Education

Memberships:

American Association of Colleges of Teacher Education
Organization

The college includes the departments of Curriculum and Instruction (Interdisciplinary Studies in Education [elementary], secondary teaching, reading, instructional media, instructional technology, and science education); Human Development and Learning (early childhood education, foundations of human development and learning, counseling, and special education); Kinesiology, Leisure and Sport Sciences (physical education, exercise science, and sport management and leisure services), and Educational Leadership and Policy Analysis (beginning administrator). There is also a concentration at the doctoral level for persons in postsecondary and private sectors who do not have teacher certification.

The ETSU child study center is operated as a part of the early childhood education program. In addition, University School, a campus school, grades K-12, is operated in association with the Clemmer College of Education.

For a listing of majors, degrees, and concentrations, see the section of Degrees and Graduation Requirements and subsection Majors, Degrees, and Concentrations.

Teacher Education

The university is approved for the offering of courses appropriate to initial teacher licensure, renewal of the Teachers Professional Certificate, and planned added endorsements. Policies of the Tennessee State Board of Education and of East Tennessee State University must be followed in completing programs leading to the university's recommendation for teacher licensure.

Entering students who are pursuing degrees leading to teacher licensure in elementary education, early childhood education, physical education, or special education are classified as Pre-Education (PRED) until they meet the requirements for admission to teacher education (see below). These students receive advising from the Office of Student Services located in room 321 of Warf-Pickel Hall. Once students are formally admitted to Teacher Education, they declare a major in early childhood education, interdisciplinary studies in education, special education, or physical education and are assigned a faculty advisor for their program.

Students who want to teach in an area usually taught in secondary schools major in the teaching content area (ex. History). Initial advising for students in secondary education is provided by personnel in the department that offers the teaching major or minor (or area concentration). Advising is available from Clemmer College of Education personnel for secondary education students who identify themselves to the Clemmer College of Education. A professional advisor is available in room 321 of Warf-Pickel Hall. All students should check with their advisors frequently to make sure they are completing the correct requirements for their particular situations.

All students planning to teach must be formally admitted to the university's approved teacher education program as described in this section of the catalog. One prerequisite for teacher education is a satisfactory performance on a prescribed test of basic skills mandated by the Tennessee State Board of Education.

A post-baccalaureate non-degree program is available to students holding the bachelor's degree who want to become eligible for initial classroom teacher licensure in special education. Those students must meet all requirements for admission to teacher education as well as other requirements for the bachelor's degree for teachers. In all other licensure areas, the Clemmer College of Education requires the completion of an

appropriate second bachelor's or master's degree for initial certification of individuals who hold a non-teaching baccalaureate degree. For further information consult the professional advisor of the Clemmer College of Education, 321 Warf-Pickel Hall.

Responsibilities of the Clemmer College of Education include planning, coordinating, and implementing all university teacher education programs leading to initial or advanced preparation of public school teachers or school service personnel; providing professional services as requested by schools in the service area of the university; providing or assisting in the provision of appropriate in-service and professional development activities as requested; and planning and conducting research and development studies growing out of needs identified in academic programs or in the public schools.

Title II Report Information

As required by Title II of the federal Higher Education Act, East Tennessee State University reports the results of candidate performance on state licensing examinations. This information is reported to the state in an Institutional Report that is submitted annually.

For the 2006-2007 academic year, ETSU's "Summary Pass Rate" was 100%. This compares to a statewide summary pass rate of 97%.

The Title II report can be accessed at <http://www.etsu.edu/coe/TitleII>.

Non-teaching Programs

In addition to those majors and concentrations leading to teacher licensure, the College offers additional majors and concentrations that do not have a teaching focus. The Department of Human Development and Learning offers three non-teaching concentrations. These are the early childhood development (general) concentration in the early childhood development major and the human development and learning (career) concentration in the human development and learning major. The Department of Kinesiology, Leisure and Sport Sciences offers two non-teaching concentrations. These are: a) exercise science and b) sport management and park and recreation management. Admission to these concentrations may take place at the time of admission to the university. Advisement is provided by faculty in the respective departments.

Center for Early Childhood Learning and Development

The Center for Early Childhood Learning and Development operates a model early childhood program for both infants and toddlers and an early learning program for children ages 3, 4, and 5. The programs are designed to include both normally developing and young children with disabilities. The center is used in preparing students to work in early childhood development and other related areas. Students may observe and participate in both center programs. For additional information call (423) 439-7555.

A child care program, Little Buccaneers Student Child Care Center, specifically designed to meet the needs of ETSU students, opened in June 1997. ETSU students can enroll their children for blocks of time each semester that would accommodate their child care needs while attending classes and during study times. This program is supported by the Student Activities Allocation Committee and ETSU. Information for this program can be obtained by calling 439-7549.

Pre-Teacher Education – Declaration of Intent

All ETSU students desiring to complete a teacher education or other public school licensure program (for initial licensure, add-on endorsement, or advanced study in education) must file a Declaration of Intent in the Office of Student Services, 321 Warf-Pickel Hall. The Declaration of Intent should be filed before 30 credit hours of coursework have been completed or, in the case of transfer and post-baccalaureate students, in the first semester at ETSU. Delay or failure to file the Declaration of

Intent may result in incomplete advisement. Students who have not filed the Declaration of Intent will not be considered for admission to teacher education and may be ineligible to enroll in many professional education courses.

Who must file a Declaration of Intent?

- undergraduates pursuing first-time teaching licensure
- transfer students pursuing first-time teaching licensure
- post-baccalaureate students pursuing first-time teaching licensure or additional endorsements; and
- students enrolled in master's degree programs desiring to earn teacher licensure or additional public school endorsement

Admission to Teacher Education

Students admitted to Teacher Education must:

1. Make formal application to the College of Education Teacher Education Program.
2. Complete 32 credit hours of General Education courses including the following: Writing (6 hrs.); Sciences (8 hrs.); Mathematics (3 hrs.); and 15 additional hours chosen from History, Humanities and Fine Arts, and Social and Behavioral Sciences.
3. Achieve a GPA of at least 2.50 on all general education coursework attempted as reflected in the calculated grade point average, excluding Developmental Studies courses and CSCI 1100.
4. Meet standardized test requirements [either ACT composite score of at least 22; or S.A.T. combined score of at least 920 (1020 if taken after 4/1/95); or minimum Praxis I scores for Reading (174, PPST or C-PPST), for Math (173, PPST or C-PPST), and for Writing (173, PPST or C-PPST)].
5. Submit a portfolio as initiated in EDFN 2100 Orientation to the Profession of Education and EDFN 2300 Foundations for Teaching.
6. Complete a successful interview with the College of Education Admission Board.
7. Demonstrate good moral character and freedom from any condition that would impair effectiveness as a teacher.¹
8. Complete EDFN 2100 Orientation to the Profession of Education with a grade of C or better and EDFN 2300 Foundations for Teaching with a grade of C or better. (Early Childhood majors must complete ECED 2150 Foundations for Early Childhood with a grade of C or better.)
9. Complete CSCI 1100 Using Information Technology or pass proficiency exam.
10. Complete a background check and receive clearance. (This must be initiated in the Clemmer College of Education Advisement Office, room 321, Warf-Pickel Hall, and must be completed four weeks prior to submitting a teacher education application.)

Because of the nature of the program, the university reserves the right to change the requirements in the teacher education program at any time when it is needed to meet state licensure standards.

Following admission to teacher education, students may declare a major in early childhood education, interdisciplinary studies in education, physical education (K-12 licensure), or special education.

¹ Applicants will complete a speech and hearing screening and be informed of any condition that may require modifications or accommodations and sign a notarized statement of character.

Requirements for Entering Teacher Training Programs

1. All students wishing to enter approved teacher training programs shall be required to:
 - A. Agree to the release of all investigative records to the administrator of the selected teacher training program;
 - B. Supply a fingerprint sample and submit to a criminal history records check to be conducted by the Tennessee Bureau of Investigation (TBI); and
 - C. Sign an authorization and release form provided by the department or board, authorizing a qualified Tennessee licensed private investigation company by and on behalf of the board to complete a criminal history records check.

2. As used in subdivision (a)(l), "qualified Tennessee licensed private investigation company" means a company that is licensed by the department of commerce and insurance, insured with at least three million dollars (\$3,000,000) worth of errors and omissions insurance and carries sufficient indemnification coverage.
3. Any reasonable costs incurred by the TBI in conducting an investigation of an applicant shall be paid by the applicant. The applicant shall be provided a copy of all criminal history records check documentation. In lieu of additional criminal history records checks for subsequent applications to the selected teacher training program, the applicant may submit copies of the applicant's initial criminal history records check documentation and shall not be required to pay any additional costs.
4. Any criminal history records check performed pursuant to this section shall not be submitted and used for the criminal history records check required under ' 49-5-4 13 for employment by an LEA or child care program as defined in ' 49-1-1 102. [Acts 2007, ch. 454, ' 1.]

Directed Student Teaching

All requirements for unconditional admission to teacher education must have been completed before enrolling in student teaching. Prior to admission to student teaching, students shall declare the areas in which they seek recommendation for licensure. Students will be placed in their major fields as well as other areas in which recommendation for licensure is sought with the approval of the appropriate department. ETSU will not recommend initial endorsement for areas that have not been declared before directed student teaching.

Students declaring a second field must have completed at least two-thirds of this requirement, as well as lower-division cognate courses, before being eligible for directed student teaching.

Applications for admission to the directed teaching program should be submitted to the Director of Field Services, 321 Warf-Pickel Hall, during the first week of the semester preceding the semester in which placement is requested. Students will not normally be placed earlier than one full semester following official acceptance of the application. Applications will be processed according to filing date. Students who delay applying for admission to teacher education, who delay in completing requirements, or who delay in applying for student teaching should be aware that they will be considered for placement on a space-available basis only.

Applications should indicate preference for placement in the locations being used in the semester concerned. However, the university reserves the right to exercise its best judgment in final determination of student placement based on student performance, teaching situations available, the number of applicants for a specific instructional area, and personal hardships.

A minimum academic average of 2.50 overall, in professional education courses (with no grade below C-), and in all areas for which endorsement is sought (with no grade below C-) is required for admission to student teaching. Candidates who student teach beginning fall 2001 are required to meet state mandated test score requirements on the Praxis II (formerly NTE) examination no later than two weeks prior to student teaching.

Applications must be endorsed by the major department not only for academic qualifications but also for physical, moral, and emotional health qualities appropriate to the teaching profession. If a second field is sought, the applicant must also have the endorsement of that department.

Questions regarding clarification of these policies should be referred to the Director of Field Services.

LICENSURE

Elementary teacher education students must complete the approved sequence of courses described in the Department of Curriculum and Instruction section.

Secondary teacher education students at East Tennessee State University must complete an approved teaching major or an approved teaching

concentration. If other areas of licensure are sought, the appropriate approved program must be completed.

The initial Tennessee teacher's license will be issued only to those applicants who have completed a teacher preparation program in a Tennessee higher education institution approved by the Tennessee State Board of Education for the preparation of teachers in the area of licensure sought.

If the initial license is not obtained following completion of the approved program, requirements in effect at the time of application must be satisfied. In all cases, current state licensure requirements must be met regardless of when the student enters the program.

A person who holds a Tennessee Teachers Professional License may add teaching area endorsements by completing teacher education add-on programs after the original license has been issued. Such programs include the addition of a secondary endorsement to an elementary license or the addition of an elementary endorsement to a secondary license. A person who holds a Tennessee Teachers Professional License and wishes to add an endorsement in another teaching area should contact the certification analyst, room 323C, Warf-Pickel Hall.

All applicants for a teaching license in Tennessee must submit satisfactory scores on specified Praxis II tests. Applicants should request that a copy of their test scores be sent to:

East Tennessee State University
 Recipient Code #1198

Request current information about Tennessee test requirements at the Office of Education Student Services, Room 321, Warf-Pickel Hall. Upon completion of an ETSU teacher preparation or other school licensure program, application for Tennessee licensure must be submitted to Angela Murray, Certification Analyst, room 323C Warf-Pickel Hall. Contact Ms. Murray for application forms and instructions. Phone (423) 439-7562 or email murrayap@etsu.edu. Licensure renewal information is available at www.state.tn.us/education/lic.

Following is a list of the teacher education areas in which we have licensure programs available:

Education Licensure

- Early Childhood Education PreK-3
- Elementary Education K-6
- English 7-12
- Foreign Language (*French, German, Spanish*) 7-12
- Health K-12
- Mathematics 7-12
- Music Education (*Vocal, Instrumental*) K-12
- Physical Education K-12
- Psychology 9-12
- School Social Worker PreK-12
- Biology, Chemistry, Physics, Earth Science 7-12
- History, Gov./Political Science, Geography, Economics 7-12
- Sociology 9-12
- Special Education
 - Modified K-12
 - Comprehensive K-12
 - Preschool/Early Childhood (graduate) PreK-3
- Speech Communication 7-12
- Speech/Language Pathology (*master's program, only*) PreK-12
- Technology Engineering 5-12
- Theatre K-12
- Visual Arts K-12
- Vocational Consumer Homemaking 5-12

In addition to the above programs for initial licensing, the college offers "add-on" endorsements in many of these areas. An appropriate initial license must be verified in order to apply for an "add-on". Consult the certification analyst for information about specific programs.

The college also offers extensive graduate work, including school licensing programs in counseling, reading, library media, and administration. Consult the Graduate Catalog for details.

**Department of Curriculum and Instruction
 (CUAI, MEDA, READ, SCED)**

Box 70684

Phone: (423) 439-7587

Chair: Dr. Rhona Cummings

Phone: (423) 439-7595
 email: cummingr@etsu.edu

Program Coordinator: Dr. Edward J. Dwyer

Phone: (423) 439-7593
 email: dwyer@etsu.edu

The Department of Curriculum and Instruction offers approved teacher education programs that lead to a Bachelor of Arts or Bachelor of Science degree and licensure in the state of Tennessee. A program is offered in Interdisciplinary Studies in Education (elementary education K-6), as well as courses required for licensure in fields of secondary education and K-12 teacher education. A Master of Arts in Teaching degree is offered for liberal arts graduates to obtain teaching licenses at either the elementary or secondary level.

**Interdisciplinary Studies in Education
 (ISED/Elementary Education)**

Teacher education students who will follow the 2006 catalog must complete the major as follows. Specific general education core courses are mandated for all students who wish to complete the Interdisciplinary Studies in Education program.

TBR General Education Requirements 41-42 Credit Hours

- ENGL 1010 Critical Reading & Expository Writing 3
- ENGL 1020 Critical Thinking & Argumentation 3
- Communication: Oral Communication* 3

Choose one of the following:

- SPCH 1300 General Speech
- SPCH 2300 Public Speaking
- SPCH 2320 Argumentation and Debate
- Mathematics 3-4

Choose one of the following:

- MATH 1530 Probability and Statistics
- MATH 1840 Analytic Geometry & Differential Calculus
- MATH 1910 Calculus I
- HIST 2010 The United States to 1877 3
- HIST 2020 The United States Since 1877 3
- Sciences 8

Choose one course from BIOL and one course from CHEM

- BIOL 1310/11 Concepts in Biology
- BIOL 1020/21 Biology for Non-Majors & Lab and
- CHEM 1030 Introduction to Chemistry **or**
- BIOL 1110/11 Biology I Lecture and Lab
- CHEM 1110/11 General Chemistry & Lab
- Literature* 3
- Fine Arts 3

Choose one of the following:

- ARTH 2010 Art History Survey I
- ARTH 2020 Art History Survey II
- Humanities* 3
- Social/Behavioral Sciences 6

Choose one course from:

- ECON 1050 Economics and Society
- ECON 2210 Principles of Economics I
- And one from:
- PSCI 1110 Political Life
- PSCI 1120 Introduction to American Government

*See TBR General Education Core Requirements.

Professional Education 38 Credit Hours

- EDFN 2100 Orientation to the Prof. of Ed 1
- EDFN 2300 Foundations for Teaching 2
- EDFN 3301 Issues in Education 3
- HDAL 3310 Educational Psychology 3
- SPED 2300 Exceptional Learners 3

MEDA 3570	Educational Technology	2
CUAI 4310	Integrated Teaching – Mathematics	3
CUAI 4210	Integrated Teaching – Language Arts	3
CUAI 4220	Integrated Teaching – Social Studies	3
CUAI 4241	Performance Assessment in Clinical Settings	3
CUAI 4580	Student Teaching	12

Interdisciplinary Studies in Ed. Major 41 Credit Hours

Mathematics	6 Credit Hours	
MATH 1410	Number Concepts & Algebraic Structures	3
MATH 1420	Logic and Problem Solving	3

(General Education Science plus the following to total 15 credits)

SCED 4020	Wildlife Conservation	3
SCED 4321	Exploring and Discovery in Science	4

Social Studies 6 Credit Hours

Choose:
GEOG 1012 Introduction to Cultural Geography

AND

One course from:
SOCI 1020 Introduction to Sociology
ANTH 1240 Introduction to Cultural Anthropology
SOCI 2020 Social Problems

Language Arts 16 Credit Hours

READ 3000	Current Issues in Literacy	1
READ 3100	Early Literacy	3
READ 3200	Expanding Literacy	3
READ 4026	Assessment & Enhancement of Children’s Literacy	3
READ 4146	Storytelling and Literacy	3
READ 4626	Materials for Children’s Literacy	3

Electives 6

Select two (2) courses as electives from the following:
ASTR, ARTA, CUI, ENGL, GEOL, HUMT,
MATH, MUSC, PHIL, PHYS, or THEA

Interdisciplinary Studies in Education Majors interested in 5-8 specialization should contact the professional education advisor in room 321, Warf-Pickel Hall in the College of Education.

Total Hours Required for Degree 120 Credit Hours

Please read carefully the following information:

Interdisciplinary Studies in Education Majors are required to complete the Initial Level Portfolio for presentation to the Department of Curriculum and Instruction Admission Board, an Evaluative Level Portfolio presentation, and the Student Teaching Portfolio for presentation to a panel of peers and faculty.

Retention Criteria

1. Review of students’ grades and personal/professional functioning will be undertaken. Coursework, fieldwork, and any other pertinent factors will be considered by the faculty of the Department of Curriculum and Instruction. Recommendations will be made for continuance in the program, continuance with specified remediations, or discontinuance.
2. During the semester prior to student teaching, each student will be evaluated. Factors to be considered will be coursework, field experiences, ethical behavior, and personal/professional concerns. The review will culminate in either approval for entry into student teaching or disapproval. A disapproval will result in a conference with the student and a description of necessary remedial steps. All remedial conditions must be removed prior to student teaching.

**Suggested Course Sequence
Freshman Year**

First Semester		Credit Hours
ENGL 1010	Critical Reading and Expository Writing	3
BIOL 1020/21	Biology for Non-Majors Lecture & Lab II	4
MATH 1530	Probability & Statistics - Non-Calculus	3
HIST 2010	The United States to 1877	3
EDFN 2100	Orientation to the Profession of Ed	1
Fine Arts	.....	3
Semester Total	.....	17

Second Semester		Credit Hours
ENGL 1020	Critical Thinking and Argumentation	3
CHEM 1030	Introduction to Chemistry Survey	4
HIST 2020	The United States Since 1877	3
SPCH 1300, 2300, or 2320	.....	3
EDFN 2300	Foundations for Teaching	2
Semester Total	.....	15

Sophomore Year

First Semester		Credit Hours
HDAL 3310	Educational Psychology	3
Literature	.....	3
Humanities	.....	3
Social/Behavioral Sciences	.....	3
MATH 1410	Number Concepts & Algebraic Structure	3
READ 3000	Current Issues in Literacy	1
Semester Total	.....	16

Second Semester		Credit Hours
SPED 2300	Exceptional Learners	3
Social/Behavioral Sciences	.....	3
MATH 1420	Logic/Problems/Geom.	3
READ 3100	Early Literacy	3
Major Social Studies	.....	3
Semester Total	.....	15

Junior Year

First Semester		Credit Hours
READ 3200	Expanding Literacy	3
SCED 4020	Wildlife Conservation	3
EDFN 3301	Issues in Education	3
Major Social Studies	.....	3
READ 4146	Storytelling and Literacy	3
Semester Total	.....	15

Second Semester		Credit Hours
SCED 4321	Exploring and Discovery Science	4
READ 4626	Materials for Children’s Literacy	3
MEDA 3570	Educational Technology	2
Major Elective	.....	3
Major Elective	.....	3
Semester Total	.....	15

Senior Year

First Semester		Credit Hours
CUAI 4240	Methods and Materials in Curriculum Instruction	9
CUAI 4241	Perf. Assessment in Clinical Settings	3
READ 4026	Assessment & Enhancement of Literacy	3
Semester Total	.....	15

Second Semester		Credit Hours
CUAI 4580	Student Teaching	12
Semester Total	.....	12
Total	.....	120

**Professional Education Requirements for
Secondary and K-12 Students**

The professional education requirements for secondary and K-12 students are met by completing the Teaching Education minor (see Human Development and Learning) and the professional semester (CUAI 4580 - Student Teaching). Students are required to submit a professional portfolio for admission to teacher education.

Retention Criteria

1. Review of students’ grades and personal/professional functioning will be undertaken. Coursework, fieldwork, and any other pertinent factors will be considered by the faculty of the Department of Curriculum and Instruction. Recommendations will be made for continuance in the program, continuance with specified remediations, or discontinuance.
2. During the semester prior to student teaching, each student will be evaluated. Factors to be considered will be coursework, field experiences, ethical behavior, and personal/professional concerns. The review will culminate in either approval for entry into student teaching or disapproval. A disapproval will result in a conference with the student and a description of necessary remedial steps. All remedial conditions must be removed prior to student teaching.

Reading (READ)

The Reading Program offers courses in reading and storytelling that are required for licensure. Elective courses at the undergraduate level are provided for those interested in any aspect of teaching reading.

Science Education (SCED)

The Science Education Program offers an approved teacher education program leading to 7-12 licensure in a primary discipline such as biology,

chemistry, physics, or earth science. After completing the program for one of the approved disciplines, the student would be eligible for licensure in the primary discipline, middle school science (7th and 8th), and physical science. Please note that a minor is required.

The entire program consists of the general education core for secondary and K-12 teachers, the professional education requirements, the general science basic core, and a specialization in one of the basic sciences. Students should confer with the appropriate discipline advisor, the science education advisor, and the College of Education professional advisor.

Educational Media and Educational Technology (MEDA)

The Educational Media and Educational Technology program offers courses in both school library media and technology.

The Educational Media and Educational Technology program offers coursework required for school library media specialist licensure for the state of Tennessee.

**Department of Human Development and Learning
(ECED, EDFN, HDAL, SPED)**

Box 70548

Phone: (423) 439-7688

Chair: Dr. Patricia Robertson

email: robertpe@etsu.edu Phone: (423) 439-7693

Human Development and Learning offers programs that focus on the application of development, learning, and other psychological principles in a wide variety of settings including home, school, and community. Courses in the behavioral sciences are provided both for majors and students in other academic areas. Areas of emphasis include developmental, educational and applied psychology, psychological assessment, counseling, early child development, and special education.

The Department of Human Development and Learning offers three undergraduate programs leading to the Bachelor of Science degree: early childhood development, foundations of human development and learning, and special education. The department offers individuals holding professional teaching certification an opportunity to add an endorsement in special education and early childhood. Also offered are programs leading to the master of arts degree in early childhood, school counseling, marriage and family therapy, community agency counseling, special education, and a Ph.D. in Early Childhood.

Students failing to demonstrate ethical and/or professional behaviors, as required by either the appropriate professional associations and/or the National Educational Association, upon review and substantiation (with due process), may be denied continuance in departmental programs. If intervention is indicated and completed, the student may petition the department for readmission.

**Early Childhood Development
(ECED)**

Program Coordinator: Dr. Pamela Evanshen

email: evanshep@etsu.edu Phone: (423) 439-7694

The Department of Human Development and Learning in the Clemmer College of Education offers an interdisciplinary undergraduate program leading to the Bachelor of Science degree in early childhood development. The program is designed to provide academic preparation in the growth and development of young children (0-8), their families, and environmental factors influencing their development. This major leads to licensure in PreK-3 in the state of Tennessee.

Advising: Each student will be assigned a faculty advisor when he or she enters the early childhood development program. Beyond the major requirements, the students and their advisors will determine the courses needed that are consistent with the students' professional interests and goals.

Early Childhood Development (PreK-Grade 3 Licensure)

This program in early childhood is designed to meet the state competencies for licensure in PreK-3. It includes courses in early childhood development, a professional education component, and a student teaching experience in both PreK-K and grades 1-3.

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010	Critical Reading and Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
	Communication: Oral Communication*	3
Mathematics*		3-4
Natural Sciences*		8
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature*		3
Fine Arts*		3
Humanities*		3
Social/Behavioral Sciences*		6

**See the General Education Core Requirements.*

Professional Studies 24 Credit Hours

EDFN 2100	Orientation to Professional Education	1
EDFN 2300	Foundations for Teaching	2
EDFN 3301	Issues in Education	3
HDAL 2310	Developmental Life-Span Psychology	3
SPED 2300	Exceptional Learners in Schools & Comm.	3
ECED 4347	Technology & Media in Inclusive ECED	3
ECED 4517	Family-School-Community Involvement	3
CUAI 4517	Math Methods for Early Childhood	3
CUAI 4547	Emergent Literacy	3

Major in Early Childhood Development 27 Credit Hours

ECED 2010	Healthy & Safe Settings for Young Children	3
ECED 2110	Infant/Toddler/Child Development	3
ECED 2150	Foundations of Early Childhood Development	3
ECED 3140	Guiding Young Children	3
ECED 3220	Designing Physical Environments	3
ECED 4010	Observing & Assessing Young Children	3
ECED 3150	Creative Development in Young Children	3
ECED 4150	Literacy for Young Children	3
ECED 4140	Program Development for Young Children	3

Concentration in Early Childhood

Education (ECDP) 28 Credit Hours

MATH 1410	Number Concepts & Algebraic Structures	3
ECED 3160	Body/Brain Based Learning	3
SPED 3322	Early Intervention for Exceptional Children	3
ECED 4130	Prof. Issues in Early Childhood Educ.	3
ECED 4161	Curriculum Development	3
ECED 4580	Student Teaching in Early Childhood	12
Elective		1

Total Hours Required for Degree 120

Admission: Any student who chooses to pursue early childhood for licensure in PreK-3 must apply for admission to the Teacher Education Program.

Transfer Students: Transfer students should apply for admission into the program and meet with an early childhood development advisor to plan their program. These students must meet the requirements of the university regarding transfer and program admission.

**Suggested Course Sequence
Freshman Year**

First Semester		Credit Hours
ENGL 1010	Critical Reading and Expository Writing	3
	Humanities/Fine Arts Elective	3
MATH 1530	Probability and Statistics	3
	Science	4
	Social/Behavioral Sciences Elective	3
Semester Total		16
Second Semester		Credit Hours
ENGL 1020	Critical Thinking and Argumentation	3
	Science	4
EDFN 2100	Orientation to Profession of Teaching	1
ECED 2110	Infant/Toddler/Child Development	3
ECED 2150	Foundations of Early Childhood Development	3
	Humanities	3
Semester Total		17

Sophomore Year

First Semester		Credit Hours
Oral Communication Elective		3
EDFN 2300 Foundations of Teaching		2
HIST 2010 The United States to 1877		3
HDAL 2310 Developmental Psychology		3
Humanities/Fine Arts Elective		3
Elective		1
Semester Total		15

Second Semester		Credit Hours
EDFN 3301 Issues in Education		3
HIST 2020 The United States Since 1877		3
ECED 2010 Healthy & Safe Environments		3
Social/Behavioral Sciences		3
ECED 3140 Guiding Young Children		3
Semester Total		15

Junior Year

First Semester		Credit Hours
ECED 3150 Creative Development		3
ECED 3220 Designing Physical Environments		3
SPED 2300 Exceptional Learners		3
MATH 1410 Number Concepts		3
ECED 4347 Technology & Media in Inclusive ECED		3
Semester Total		15

Second Semester		Credit Hours
CUAI 4517 Math Methods for Early Childhood		3
CUAI 4547 Emergent Literacy for EC		3
ECED 3160 Body/Brain Based Learning		3
ECED 4140 Program Development for Young Children		3
SPED 3322 Early Intervention of Exceptional Children		3
Semester Total		15

Senior Year

First Semester		Credit Hours
ECED 4150 Literacy in Young Children		3
ECED 4161 Curriculum Development for Young Children		3
ECED 4130 Professional Issues in Early Childhood		3
ECED 4517 Family/School/Community Involvement		3
ECED 4010 Observing & Assessing Young Children		3
Semester Total		15

Second Semester		Credit Hours
ECED 4580 Student Teaching in Early Childhood		12
Semester Total		12
Total		120

Early Childhood Development

This is an interdisciplinary degree that combines the early childhood offerings in Human Development and Learning along with a designated minor. This major is not designed for licensure.

A minimum of 34 hours is required for this program in early childhood development plus a six-hour practicum/field experience. Students must have earned a grade of C or higher in all courses included in the undergraduate major in early childhood development. In addition, students need to declare a minor.

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010 Critical Reading and Expository Writing	3
ENGL 1020 Critical Thinking and Argumentation	3
Communication: Oral Communication*	3
Mathematics*	3-4
Natural Sciences*	8
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Literature*	3
Fine Arts*	3
Humanities*	3
Social/Behavioral Sciences*	6

*See the General Education Core Requirements.

Major Requirements 27 Credit Hours

ECED 2010 Healthy and Safe Settings for Young Children	3
ECED 3150 Creative Development of Young Children	3
ECED 3220 Designing Physical Environments	3
ECED 4010 Observing and Assessing Young Children	3
ECED 4140 Program Development for Young Children	3
ECED 4150 Literacy in Young Children	3
ECED 2110 Infant/Toddler/Child Development	3
ECED 2150 Foundations of Early Childhood	3
ECED 3140 Guiding Young Children	3

Concentration in Early Childhood (ECEG) 24 Credit Hours

ECED 3160 Body-Brain Based Learning	3
ECED 4257 Mentoring in Early Childhood	3

ECED 4347 Technology & Media in IECE	3
ECED 4357 Administration & Mgmt. of ECP	3
ECED 4517 Family/School/Community	3
NTFD 4537 Field Studies	3
ECED 4570 Practicum in Early Childhood	3
SPED 3322 Early Intervention Strategies for the Exceptional Child	3

Minor Requirements 18-24

Electives 0-10

Total Hours Required for Degree 120 Credit Hours

Suggested Semester Schedule

Freshman Year

First Semester		Credit Hours
ENGL 1010 Critical Reading and Expository Writing		3
Humanities/Fine Arts Elective		3
MATH 1530 Probability and Statistics		3
Science Elective		4
Social/Behavioral Sciences Elective		3
Semester Total		16

Second Semester		Credit Hours
ENGL 1020 Critical Thinking and Argumentation		3
Science		4
ECED 2110 Infant/Toddler/Child Development		3
ECED 2150 Foundations of Early Childhood		3
Fine Arts		3
Semester Total		16

Sophomore Year

First Semester		Credit Hours
Communication: Oral Communication		3
HIST 2010 The United States to 1877		3
Literature		3
Minor		3
Elective 3		3
Semester Total		15

Second Semester		Credit Hours
HIST 2020 The United States Since 1877		3
ECED 2010 Healthy and Safe Environments		3
ECED 3140 Guiding Young Children		3
Social/Behavioral Sciences Elective		3
Minor		3
Semester Total		15

Junior Year

First Semester		Credit Hours
ECED 3150 Creative Development in Young Children		3
ECED 3220 Designing Physical Environments		3
ECED 4347 Technology & Media in Inclusive ECED		3
Minor Requirement		6
Semester Total		15

Second Semester		Credit Hours
ECED 3160 Body/Brain Based Learning		3
ECED 4140 Program Development for Young Children		3
SPED 3322 Early Intervention of Exceptional Children		3
ECED 4257 Mentoring Young Children		3
Minor Requirement		3
Semester Total		15

Senior Year

First Semester		Credit Hours
ECED 4150 Literacy for Young Children		3
NTFD 4537 Field Studies		3
ECED 4010 Observing and Assessing Young Children		3
Minor Requirement		3
Elective 3		3
Semester Total		15

Second Semester		Credit Hours
ECED 4570 Practicum in Early Childhood Education		3
ECED 4357 Administration & Mgmt. of Early Childhood Programs		3
ECED 4517 Family-/School-Community Involvement		3
Electives		4
Semester Total		13
Total		120

Minor: A student majoring in this Early Childhood Development non-licensure program must select a minor in another area and meet the requirements of that specific program. A minor may include, but is not limited to, the following:

Art	Business
Family and Consumer Sciences*	Music
Physical Education	Professional Studies
Psychology	Public Health
Social Work	Special Education

* Students who minor in Family and Consumer Sciences cannot duplicate courses in major and minor.

Minor in Early Childhood Development	18 Credit Hours
ECED 2110 Infant/Toddler/Child Development	3
ECED 2150 Foundations of Early Childhood	3
ECED 4010 Observing and Assessing Young Children	3
ECED 4517 Family, Community, and School Involvement	3
ECED 4140 Program Development for Young Children	3
ECED 3150 Creative Development of Young Children or	
HDAL 4127 Divorce: Causes and Consequences	3

Graduate Study – The Department of Human Development and Learning offers a graduate program leading to a master’s degree in early childhood education. Further information on this program may be obtained from the School of Graduate Studies.

**Educational Foundations
(EDFN)**

The mission and purpose of the foundations program unit in the College of Education is to plan, coordinate, and deliver educational experiences consistent with the college’s core requirements regarding knowledge, skills, and values deemed to be essential requisites for all of the college’s graduates.

We believe that all of the college’s graduates should:

- demonstrate research competence (possess inquiry skills);
- demonstrate technological literacy;
- demonstrate effective communication skills;
- demonstrate grounding in historical, social, psychological, philosophical, political, and legal foundations related to their area of preparation;
- demonstrate an understanding of the challenges and opportunities surrounding issues of diversity and multiculturalism;
- demonstrate skills appropriate to leadership within the profession/field for which the graduate has been prepared; and
- demonstrate a knowledge of personal competencies and areas for continuing development.

The educational foundations unit will plan, coordinate, and deliver courses and other educational experiences which help develop these skills, attitudes, and competencies in all students, graduate and undergraduate, across the college. The unit will also maintain a course listing and matrix of courses offered throughout the college which identifies courses, segments of courses, and other learning experiences which contribute to the acquisition of these competencies.

**Human Services
(HSER)**

Program Coordinator: Dr. Jamie Kridler

Phone: (423) 439-7667 email: kridlerj@etsu.edu

The program in Human Services leads to the Bachelor of Science degree (B.S.) and is designed to provide a human and behavioral science background for persons interested in entering professions such as counseling, case management, teaching, program administration, and similar endeavors. Human service practitioners work in a variety of settings for a broad range of organizations dedicated to helping others transition through their developmental issues and processes.

Human service professionals are credentialed under the auspices of the National Organization of Human Services, a collaboration of over 1200 colleges and universities in the U.S. with degree programs in Human Services, in addition to human service practitioners throughout the country. The Southern Organization of Human Services represents the ETSU region. Human service professionals compose the largest number and proportion of helping professionals, exceeding psychiatrists, psychologists, and social workers combined. All these professions work together in providing the best of care for people as they grow and develop through life.

Many graduates of Human Services continue their education beyond the bachelor’s degree. Students often select the Human Services degree program in order to become licensed counselors, especially in school, marriage and family, community agency, and college/university settings. Students entering graduate programs in communicative disorders,

counseling, education, psychology, and related health professions regularly take Human Services coursework to prepare for their competencies.

Professional employment in Human Services is applied in treatment centers, hospitals, child and youth care facilities, community mental health centers, licensed professional practice, colleges/universities, schools, academies, governmental and non-governmental organizations, institutions, group homes, foster and transitional care, in-home counseling, homeless and runaway shelters, community action agencies, wilderness and adventure programming, and similar programs for social and personal development.

Admission

1. Students are not formally admitted to the program until they have completed 30 credit hours; however, interested students are encouraged to seek advising earlier. Students seeking advising or admission should see the program coordinator.
2. A broadly based determination of the applicant’s potential for academic and professional success will be made by departmental faculty. Factors considered for admission will include the applicant’s academic record, entrance examination scores, career goals, and communication skills. The following indicators of academic performance will be given particular attention.
 - a. Scores on either the ACT or SAT will be considered in the context of the applicant’s high school and college record. Students with ACT subscores of less than 19 (16 if the ACT was taken prior to 1989) or SAT subscores of less than 360 and students who have not taken the ACT or SAT may be required to complete a prescribed program of HDAL courses prior to a final decision for admission.
 - b. A grade point average of 2.50 on all college-level courses completed at the time of admission is a minimum criterion.
 - c. Effective communication skills are required. Students who lack acceptable communication skills but who are otherwise qualified for admission may be asked to complete certain courses or undergo other experiences in order to correct the noted deficiencies. Upon completion of the assigned remedial experiences, admission will either be granted, denied or additional work will be recommended.
3. Certain students who fail to meet minimum requirements for admission may be admitted on a probationary basis provided they have acceptable communication skills as noted above. Those students who present evidence of significant work experiences with children or adults, or those students whose admission test scores and/or grades are determined to have been diminished by cultural, linguistic, or certain educational factors may be admitted with the written understanding that they maintain a minimum grade point average of 2.50. Students who also lack acceptable communication skills must satisfy the requirements described in item 2(c), above, prior to probationary admission.

Course and Graduation Requirements

1. Two lower division prerequisites are required for entrance into certain of the major courses. The prerequisite courses include Child Psychology-HDAL 2320 or Developmental Life Span Psychology-HDAL 2310, and Elementary Statistics-PSYC 2810 or Probability and Statistics (Non-Calculus) -MATH 1530.
The preceding required major courses and prerequisites, must be completed with a grade of “C -” or higher in order to be accepted for major credit. Otherwise they must be repeated.
2. In addition to the courses constituting the HDAL major (and their prerequisites), students majoring in HDAL are required to complete the university’s general education core, a minor or second major, and electives chosen by the student and approved by the faculty advisor. In all, students must complete 120 credit hours (see typical program of study).

Minor (chosen from the list below) 18-26 hours

(If required, must be advised for requirements in minor by an advisor in that minor.)

- African and African American Studies
- Anthropology

- Appalachian Studies
- Applied Sociology
- Applied Spanish: Community Studies
- Family and Consumer Sciences
- Communicative Disorders
- Criminal Justice and Criminology
- Early Childhood Development
- Environmental Studies
- International Studies
- Leadership Studies
- Leisure Services
- Management
- Psychology
- Religious Studies
- Social Work
- Special Education
- Women's Studies

3. A minimum grade point average of 2.50 is required for all work completed at the time of graduation.
4. Provided they have satisfied all other university, college, and departmental requirements, students may be granted the Bachelor of Science degree if:
 - a. they have completed the major described in item one above;
 - b. and the approved general education core and the minor or second major, and electives described in item two.

TBR General Education Requirements 41-42 Credit Hours

ENGL 1010 Critical Reading and Expository Writing	3
ENGL 1020 Critical Thinking and Argumentation	3
Communication: Oral Communication*	3
Mathematics*	3-4
(Recommend MATH 1530 as it is a pre-requisite for HDAL 4950.)	
Natural Sciences*	8
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
(HIST 2030, History of Tennessee may be substituted for 3 credits of U.S. History.)	
Literature*	3
Fine Arts*	3
Humanities*	3
Social/Behavioral Sciences*	6
(Recommend PSYC 1310, Introduction to Psychology and HDAL 2310, Developmental Psychology as they are pre-requisites for required HDAL courses.)	

**See the General Education Core Requirements.*

Human Services Major Requirements 36 Credit Hours

To graduate with a degree in Human Services, students must earn a C- or better in all courses within the major and have a cumulative overall GPA of 2.5 or higher.

Be sure to check with an advisor to determine availability of classes. Not all classes meet every semester.

Human Services Core 18 Credit Hours

HDAL 2510 Introduction to Human Services	3
HDAL 2320 Child Psychology OR	
HDAL 2330 Adolescent Psychology OR	
HDAL 2335 Adult Development	3
HDAL 2340 Understanding Cultural Diversity	3
HDAL 3610 Counseling Theory and Practice	3
HDAL 4011 Developmental Psychology II	3
<i>(Pre-requisites: PSYC 1310 and HDAL 2310 or 2320)</i>	
HDAL 4950 Research in Learning and Development	3
<i>(Pre-requisites: PSYC 1310 and MATH 1530 or PSYC 2810)</i>	

Human Services Field Experience 6 Credit Hours

(Must take both courses.)	
HDAL 4710 Human Services Practicum	3
HDAL 4720 Human Services Internship	3

Interdisciplinary Requirements 12 Credit Hours Total

Choose ONE of the four following groups. Substitutions must be approved by an advisor.

Group One – Human Development

Required	6
Select two of these, excluding the course from the Human Services Core.	
HDAL 2320 Child Psychology	3
HDAL 2330 Adolescent Psychology	3
HDAL 2335 Adult Development	3
Guided Elective	3
Select one of the following:	
HDAL 4666 Cultural Influences on Development	3
SOWK 3330 Cultural Diversity in Social Work Practice	3
Human Development Elective	3
Select one of the following:	
ECED 2110 Infant/Toddler/Child Development	3
HDAL 4010 Managing Child Behavior	3
PUBH 4607 Gerontology and Health	3
PUBH 4357 Thanatology	3
SOWK 4567 Human Sexuality	3

Group Two – Social Services

Required	6
Must take both of the following:	
SOWK 1010 Introduction to Social Work	3
SOWK 2500 Interviewing and Recording Skills	3
Guided Elective	3
Select one of the following:	
SOWK 3000 Human Behavior/Social Environment	3
SOWK 4367 Seminar in Drug/Alcohol Abuse	3
SOWK 4517 Crisis Intervention	3
SOWK 4567 Human Sexuality	3
SOCI 4337 Social Psychology	3
PSYC 4320 Abnormal Psychology	3
Human Development Elective	3
Select one of the following:	
HDAL 2330 Adolescent Psychology	3
HDAL 2335 Adult Development	3
HDAL 4666 Cultural Influences on Development	3

Group Three – Offender Services

Required	6
Must take both of the following:	
CJCR 1100 Introduction to Criminal Justice	3
CJCR 2540 Criminal Law	3
Guided Elective	3
Select one of the following:	
CJCR 3300 Criminal Justice Ethics	3
CJCR 3100 Criminology	3
CJCR 3500 Juvenile Justice: Theory & Practice	3
PSYC 4807 Forensic Psychology	3
SOCI 3320 Juvenile Delinquency	3
PSYC 4320 Abnormal Psychology	3
Human Development Elective	3
Select one of the following:	
HDAL 2330 Adolescent Psychology	3
HDAL 2335 Adult Development	3
HDAL 4666 Cultural Influences on Development	3

Group Four – Health Services

Required	6
Must take both of the following:	
PUBH 4030 Community Health	3
PUBH 4937 Stress Management	3
Guided Elective	3
Select one of the following:	
PUBH 2120 School Health Education	3
ENVH 3010 Human Ecology and Environmental Education	3
SOCI 3060 Medical Sociology	3
PSYC 3700 Health Psychology	3

NTFD 3430	Community Nutrition	3
CDIS 4000	Communication Sciences and Disorders	3
PUBH 4007	Principles and Practices of Patient Education	3
Human Development Elective	.....	3
Select one of the following:		
PEXS 3032	Motor Development	3
HDAL 2330	Adolescent Psychology	3
ECED 2150	Foundations in Early Childhood	3
Minor Requirements	..... 18-26 Credit Hours	
Total Hours Required for Degree	..... 120 Credit Hours	

Human Development and Learning

Suggested Semester Sequence
Freshman Year

First Semester		Credit Hours
ENGL 1010	Critical Reading and Expository Writing	3
Social/Behavioral Sciences	.....	3
Science	.....	4
Communication: Oral Communication	.....	3
PSYC 1310	Introduction to Psychology	3
Semester Total	.....	16
Second Semester		Credit Hours
ENGL 1020	Critical Thinking and Argumentation	3
MATH 1530	Probability and Statistics	3
Humanities/Fine Arts	.....	3
Science	.....	4
Social/Behavioral Sciences	.....	3
Semester Total	.....	16

Sophomore Year

First Semester		Credit Hours
HIST 2010	The United States to 1877	3
HDAL 2310	Lifespan Developmental Psychology	3
Literature	.....	3
Minor Requirement	.....	3
Elective	.....	3
Semester Total	.....	15
Second Semester		Credit Hours
PHIL 2030	Practical Reasoning	3
HIST 2020	The United States Since 1877	3
Humanities/Fine Arts	.....	3
Social/Behavioral Sciences	.....	3
Elective	.....	3
Semester Total	.....	15

Junior Year

First Semester		Credit Hours
HDAL 3110	Parent/Child/School Relations	3
Minor Requirement	.....	6
Elective	.....	3
Semester Total	.....	12
Second Semester		Credit Hours
PEXS 3032	Psychomotor Development	3
PSYC 4320	Abnormal Psychology or	3
HDAL 3310	Educational Psychology	3
Minor Requirement	.....	3
Minor or Elective	.....	3
Elective	.....	3
Semester Total	.....	15

Senior Year

First Semester		Credit Hours
HDAL 4010	Managing Child Behavior	3
HDAL 4950	Research in HDAL	3
HDAL 4260	Learning in Human Development	3
Minor Requirement	.....	3
Minor/Elective	.....	3
Semester Total	.....	15
Second Semester		Credit Hours
HDAL 4011	Developmental Psychology II	3
HDAL 4666	Cultural Influences	3
Guided Research Independent Study (elective)	.....	3
Minor/Elective	.....	3
Elective	.....	3
Elective	.....	1
Semester Total	.....	16
Total	.....	120

Human Development and Learning Minor

The minor in Human Development and Learning (HDAL) consists of 18 credit hours. Required courses make up twelve (12) of the credit hours. The other six (6) must be chosen from the guided electives. Nine (9) credit hours of the total minor must be Upper Division Courses.

Minor Requirements 18 Credit Hours
A grade of C - or above must be earned in all minor courses.

Required Courses

HDAL 2310	Developmental Lifespan Psychology	3
HDAL 4011	Developmental Psychology II	3
HDAL 4260	Learning in Human Development	3
HDAL 4950	Research in Learning and Development	3

Guided Electives (choose two)

HDAL 2320	Child Psychology	3
HDAL 2330	Adolescent Psychology	3
HDAL 3310	Educational Psychology	3
HDAL 4010	Managing Child Behavior	3
HDAL 4666	Cultural Influences in Development	3

Education Minor

The Education Minor is required for students seeking licensure with secondary and K-12 teaching fields listed below. Completion of the minor and CUAI 4580 - Student Teaching (12 hours) completes the professional education requirements for licensure. Students should contact the College of Education Professional Advisor in 321 Warf-Pickel Hall.

Teaching Edu. Minor Requirements 21-27 Credit Hours

Required courses for all students 17 Credit Hours

EDFN 2100	Orientation to the Profession of Teaching	1
EDFN 2300	Foundations for Teaching	2
EDFN 3301	Issues in Education	3
HDAL 3310	Educational Psychology	3
SPED 2300	Exceptional Learners in Schools & Comm.	3
MEDA 3570	Educational Technology	2
READ 4437	Reading Instr. in Middle/Secondary School	3

Additional Required Courses 3-10 Credit Hours

Students majoring in Biology, Chemistry, Physics, Geography, French, German, Spanish, English, History, Economics, Political Science, Mathematics, Speech, and Theatre 7 Credit Hours

CUAI 4417	Secondary Curriculum & Methodology	3
CUAI 4427	Sec. Curr. & Methodology Field Experience	1

and

SCED 4417 or LANG 4417 or ENGL 4417 or GEOG 4417 or HIST 4417 or MATH 4417 or SPCH 4417 or THEA 4417	.....	3
(as appropriate to the teaching major)		

Students majoring in Psychology, Sociology, and Health 4 Credit Hours

CUAI 4417	Secondary Curriculum & Methodology	3
CUAI 4427	Sec. Curr. & Methodology Field Experience	1

Students majoring in Theatre 10 Credit Hours

CUAI 4417	Secondary Curriculum & Methodology	3
CUAI 4427	Sec. Curr. & Methodology Field Experience	1

and

SCED 4417 or LANG 4417 or ENGL 4417 or GEOG 4417 or HIST 4417 or MATH 4417 or SPCH 4417	.....	3
THEA 4417	Teaching Theatre in Grades K-12	3

Students majoring in Art 3 Credit Hours

CUAI 4419	Teaching Art in Secondary Schools	3
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Interdisciplinary Minor in Leadership Studies

The Department of Human Development and Learning serves as the academic host for the interdisciplinary minor in leadership studies. It is designed to provide students with the necessary knowledge, skills and experiences to fulfill future community-based and business leadership roles. It is designed to complement any major at ETSU. The minor consists of 21 credits and eight experiences for a portfolio. Once the student has officially declared the intent to participate in the minor, a portfolio advisor will be assigned from the Center for Community Engagement, Learning, and Leadership. It is recommended that a student begin work on the portfolio as soon as possible. Assignment of a community/campus mentor will not be made until the end of the junior year.

Two upper division courses are required of all students in the minor, MGMT 3000 and MGMT/ELPA 4460. These courses meet the required competency in leadership and management. Nine of the 21 credits are to be taken from the prescribed core competency areas below. Six additional

credits must come from the list of focused competency electives to develop the students' understanding of leadership through multicultural, sociological and experiential methods, no two courses from the same department. Details can be obtained from the Chairperson of Human Development and Learning.

Core Competency21 Credit Hours

Ethics and Social Responsibility

Select one course from: 3

- SRVL 1020 Introduction to Service-Learning
- SPCH 4366 Communications Ethics
- PHIL 4017 Ethical Theory
- MGMT 3320 Management and Social Responsibility
- ENGL 3150 Literature, Ethics and Values

Oral Communication

Select one course from: 3

- MGMT 3200 Organizational Communication
- SPCH 2320 Argumentation and Debate
- SPCH 3380 Dynamics of Group Leadership
- SPCH 4346 Business and Professional Communication
- SPCH 4357 Communications in Organizations

Written Communications

Select one course from: 3

- ENGL 3130 Advanced Composition
- ENTC 3030 Technical Communication
- JOUR 2120 Writing for Print Media

Focused Competency electives 6

List available from Leadership Minor advisor.

Required Portfolio – Students are asked to contact the Leadership Minor advisor.

**Special Education
(SPED)**

Box 70548

Phone: (423) 439-7688

Program Coordinator: Dr. Lori Marks

Phone: (423) 439-7685 email: marks@etsu.edu

Students receiving a B.S. in special education (SPED) will obtain licensure in both the Modified and Comprehensive concentrations. This licensure in the state of Tennessee enables students to teach K-12. The Modified concentration will enable students to provide direct services in resource room and inclusive classroom settings plus consultative services to teachers in regular classroom settings. The Comprehensive concentration enables students to provide direct intensive services in more restrictive settings such as a self-contained classroom or a segregated setting. Students may earn a bachelor's degree after four years.

In addition to initial licensure at the baccalaureate level, post-baccalaureate programs are provided for adding a special education endorsement to existing education licenses. Licensure in Early Childhood special education is available at this level. This license will enable professionals to provide intervention services to children with developmental delays and their families.

Special education licensure programs in Tennessee are non-categorical covering mental retardation, learning disabilities, physical and multiple handicapped, emotionally disturbed, and gifted/talented. Students planning to teach in those states requiring categorical certification should meet with their advisor(s) to plan their programs according to the certification/licensure requirements of those states.

Special education programs require a minimum of 120 clock hours in the field prior to the student teaching experience. Mentor teachers, as well as university supervisors, will be involved in the assessment of each prospective student teacher's overall competency in actual classroom settings. Records are maintained and skills and competencies are evaluated following each field experience. Students who have difficulties in field experiences may be required to complete additional hours in the field.

Admission, Student Teaching, and Retention Standards

Admission Procedures

Students must meet the requirements for admission to teacher education as developed by the Clemmer College of Education. Students majoring in special education, who desire admission to teacher education, must also meet the following conditions:

1. Successful completion of 32 credit hours of general education core, which includes completion of all English, Math, and Science coursework.
2. Grade point average of at least 2.50 in the above coursework.
3. Praxis I, or acceptable ACT, SAT, or PPST scores. (See standards as specified by the College of Education.)
4. Submission of a brief (2-3 pages) typewritten statement addressing reasons for choosing special education as a major field.
5. An interview with a panel, consisting of faculty from the special education program and representatives from community school districts.
6. Completion of EDFN 2100 and EDFN 2300 with a grade of C or better.

Following a review of the above by the special education faculty, the student will complete any additional coursework or remediation outlined by the SPED faculty. Admission to SPED is provisional.

Retention Criteria

1. Maintenance of 2.50 GPA in all coursework.
2. Special education courses with grades lower than C (2.0) must be repeated. In computing SPED grade point average (GPA) all grades received will be included.
3. Review of students' grades and personal/professional functioning will be undertaken each semester. The SPED faculty will consider coursework, fieldwork, and any other pertinent factors. Recommendations will be made at this time for continuance in the program, continuance with specified remediations, or discontinuance.
4. During the semester before the student teaching/internship experience, each student will be evaluated. Factors to be considered will be coursework, field placement experiences, ethical behavior, and personal/professional concerns as described in the International Council for Exceptional Children code of ethics. The review will culminate in either approval for entry into the student teaching/internship in SPED, or disapproval. A disapproval will result in a conference with the student and a description of the necessary remedial steps. All remedial conditions must be removed prior to the student teaching clinical internship experience.

Student Teaching Criteria

Students wishing to apply for student teaching in special education must meet the following conditions:

1. Admission to Teacher Education.
2. Completion of all educational and special education methodology classes.
3. Grade point average of at least 2.50 in all coursework.
4. Grades of "C -" or better in all special education coursework.

**SPECIAL EDUCATION
GRADUATION REQUIREMENTS**

TBR General Education Requirements 41 Credit Hours

- ENGL 1010 Critical Reading & Expository Writing 3
- ENGL 1020 Critical Thinking & Argumentation 3
- Communication: Oral Communication* 3
- MATH 1530 Probability and Statistics 3
- HIST 2010 The United States to 1877 3
- HIST 2020 The United States Since 1877 3
- Natural Sciences* 8
- Literature* 3
- Fine Arts* 3
- Humanities* 3
- Social/Behavioral Sciences* 6

*See TBR General Education Core Requirements.

Professional Education Requirements 30 Credit Hours

EDFN 2100	Orientation to Profession of Teaching	1
EDFN 2300	Foundations for Teaching	2
EDFN 3301	Issues in Education	3
READ 3100	Foundations of Reading	or
HDAL 4150	Literacy in Young Children	or
READ 4437	Reading for Middle & Secondary Schools	3
HDAL 2310	Developmental Psychology	3
HDAL 3310	Educational Psychology	3
SPED 2300	Exceptional Learners	3
SPED 4850	Student Teaching in Special Educ.	12

Additional Program Requirement

PUBH 2030	First Aid and Emergency Care	3
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Special Education Core 24 Credit Hours

SPED 3300	Instructional Methodology in Special Education	3
SPED 3350	Medical Aspects in Special Education	3
SPED 3400	Behavior Management for Individuals with Disabilities	3
SPED 3410	Preclinical Experience in Behavior Management	1
SPED 3445	Assistive Technology	3
SPED 4477	Assessment in Special Education	3
SPED 4487	Collaboration with Families, Agencies, and Schools	3
SPED 4700	Adaptations & Modifications for the Inclusive Classroom	3
SPED 4710	Preclinical Experience in Special Ed	2

Special Education Concentration 19 Credit Hours

SPED 3365	Integrating Functional Skills into the Curriculum	3
CUAI 3430	Methods in Teaching Elementary Mathematics	3
SPED 4411	Preclinical Experience in Management Strategies for Individuals with Severe Behaviors	1
SPED 4497	Curriculum in Special Education	3
SPED 4725	Management Strategies for Individuals with Severe Behaviors	3
SPED 4757	Curriculum-Based Assessment	3
SPED 4750	Instructional & Transitional Services for Adolescents & Young Adults with Disabilities	3

Total Hours Required for Degree 120 Credit Hours

Nonteaching Minor

SPED 2300, 3350, 4477, plus 9 hours of approved electives

Suggested Course Sequence for All B.S. Majors in Special Education

Freshman Year

First Semester	Credit Hours	
MATH 1530	Probability and Statistics	3
ENGL 1010	Critical Reading and Expository Writing	3
HIST 2010	The United States to 1877	3
EDFN 2100	Orientation to Education	1
Social/Behavioral Science		3
Communication: Oral Communication		3
Semester Total	16	

Second Semester	Credit Hours	
ENGL 1020	Critical Thinking and Argumentation	3
HIST 2020	The United States Since 1877	3
Science		4
Elective		3
Humanities/Fine Arts		3
Semester Total	16	

Sophomore Year

First Semester	Credit Hours	
EDFN 2300	Foundations for Teaching	2
Science		4
PUBH 2030	First Aid and Emergency Care	3
Humanities (Literature)		3
HDAL 2310	Devel. Lifespan Psy.	3
Semester Total	16	

APPLY TO TEACHER EDUCATION BEGINNING OF SPRING SEMESTER

Sophomore Year

Second Semester	Credit Hours	
HDAL 3310	Educational Psychology	3
Humanities Elective		3
SPED 2300	Exceptional Learners	3
READ 3100	Foundations of Reading	3
Elective		3
Semester Total	15	

Junior Year

First Semester	Credit Hours	
CUAI 3430	Meth. Tch Elem Math	3
SPED 3300	Instructional Method. in Spec. Ed.	3
SPED 3350	Medical Aspects SPED	3
SPED 3365	Funct. Skill Instruction	3
SPED 3400	Behavior Mgmt. for Individ. with Disab.	3
SPED 3410	Preclinical Exper. in Behav. Mgmt	1
Semester Total	16	

Second Semester	Credit Hours	
SPED 4725	Mgmt. Strat. for Individ. with Sev. Beh.	3
SPED 4410	Preclinical Experience in Strategies for Individuals with Sev. Behaviors	1
SPED 4497	Curriculum in SPED	3
SPED 3445	Assistive Technology	3
SPED 4477	Special Educ. Assess.	3
SPED 4487	Collaboration	3
Semester Total	16	

Senior Year

First Semester	Credit Hours	
SPED 4700	Adaptations & Modif.	3
SPED 4710	Preclinical	2
EDFN 3301	Issues in Education	3
SPED 4757	Curriculum-Based Assessment	3
SPED 4750	Transitional Services	3
Semester Total	14	

Second Semester	Credit Hours	
SPED 4850	Student Teaching SPED	12
Semester Total	12	
Total	120	

Suggested Course Sequence for All B.S. Majors in Special Education

Freshman Year

First Semester	Credit Hours	
MATH 1530	Probability and Statistics	3
ENGL 1010	Critical Reading and Expository Writing	3
HIST 2010	The United States to 1877	3
EDFN 2100	Orientation to Education	1
Social/Behavioral Science		3
Communication: Oral Communication		3
Semester Total	16	

Second Semester	Credit Hours	
ENGL 1020	Critical Thinking and Argumentation	3
HIST 2020	The United States Since 1877	3
Science		4
Elective		3
Humanities/Fine Arts		3
Semester Total	16	

Sophomore Year

First Semester	Credit Hours	
EDFN 2300	Foundations for Teaching	2
Science		4
PUBH 2030	First Aid and Emergency Care	3
Humanities (Literature)		3
HDAL 2310	Devel. Lifespan Psy.	3
Semester Total	16	

APPLY TO TEACHER EDUCATION BEGINNING OF SPRING SEMESTER

Sophomore Year

Second Semester	Credit Hours	
HDAL 3310	Educational Psychology	3
Humanities Elective		3
SPED 2300	Exceptional Learners	3
READ 3100	Foundations of Reading	3
Elective		3
Semester Total	15	

Junior Year

First Semester	Credit Hours	
CUAI 3430	Meth. Tch Elem Math	3
SPED 3300	Instructional Method. in Spec. Ed.	3
SPED 3350	Medical Aspects SPED	3
SPED 3365	Funct. Skill Instruction	3
SPED 3400	Behavior Mgmt. for Individ. with Disab.	3
SPED 3410	Preclinical Exper. in Behav. Mgmt	1
Semester Total	16	

Second Semester	Credit Hours
SPED 4725 Mgmt. Strat. for Indiv. with Sev. Beh.	3
SPED 4410 Preclinical Experience in Strategies for Individuals with Sev. Behaviors	1
SPED 4497 Curriculum in SPED	3
SPED 3445 Assistive Technology	3
SPED 4477 Special Educ. Assess.	3
SPED 4487 Collaboration	3
Semester Total	16

Senior Year

First Semester	Credit Hours
SPED 4700 Adaptations & Modif.	3
SPED 4710 Preclinical	2
EDFN 3301 Issues in Education	3
SPED 4757 Curriculum-Based Assessment	3
SPED 4750 Transitional Services	3
Semester Total	14
Second Semester	Credit Hours
SPED 4850 Student Teaching SPED	12
Semester Total	12
Total	120

**Department of Kinesiology, Leisure and Sport
Sciences
(PEXS/PHED/SALM)**

Box 70654

Phone: (423) 439-4265

Chair: Dr. Kevin L. Burke email: burkek@etsu.edu

The Department of Kinesiology, Leisure and Sport Sciences offers two different baccalaureate degree programs: B.S. in Physical Education with concentrations in K-12 Teacher Education and Exercise Science and a B.S. in Sport and Leisure Management with concentrations in Sport Management and Park and Recreation Management.

The K-12 teacher licensure concentration prepares students as professional physical educators in grades K-12. The Exercise Science concentration prepares students to work in fitness management, wellness programs, and exercise prescription/rehabilitation. The Sport Management concentration prepares students to work as leaders in the sport industry. The Park and Recreation Management concentration prepares students for leadership roles in the leisure service industry including community, commercial, and natural resource management settings.

The Kinesiology, Leisure and Sport Sciences department also offers minors in Park and Recreation, Sport Management, and Coaching. The Park and Recreation minor has been designed along a broad spectrum in order to allow students completing this minor to either begin work in a recreational capacity or to pursue other educational advancement on a graduate program level.

The Coaching minor has been designed to enable students to develop competencies necessary to coach in public or private schools or recreational settings. Emphasis is placed on psychology and physiology of sport, care and prevention of athletic injury, and advanced skill in coaching.

The Sport Management minor has been designed to enable students to develop basic competencies in sport management. This minor, in combination with an appropriate major, will allow students to seek employment in the sport industry as entry-level employees or pursue other educational advancement at the graduate level.

The Physical Education minor at East Tennessee State University is offered for students who are interested in physical education but who do not want to major in teacher certification in physical education. This minor is designed to help students acquire skills and knowledge to assist in preparation for entering the Master of Arts in Teaching program and for those who plan to work with children outside the school setting. Students in the minor take **18 hours** from the following courses. ETSU does not confer teacher certification for this minor.

Flexibility in the Physical Education minor allows students to customize an 18-semester hour program in consultation with the program coordinator. The minor does not lead to teacher licensure.

**Bachelor of Science Degree (B.S.) in
Physical Education**

**Concentrations: Physical Education (K - 12)
Exercise Science**

TBR General Education Requirements	41-42 Credit Hours
ENGL 1010 Critical Reading & Expository Writing	3
ENGL 1020 Critical Thinking & Argumentation	3
Communication: Oral Communication	3
Mathematics*	3-4
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Science I **	4
Science II **	4
Literature*	3
Fine Arts*	3
Humanities*	3
Social/Behavioral Sciences	6

* See General Education Core Requirements.
** See Concentrations for Specific Science Courses.

The K-12 teaching concentration prepares students for teacher licensure in physical education in the state of Tennessee. When students satisfy the requirements for teacher licensure, they will be licensed to teach physical education in grades kindergarten through 12. The program of study provides extensive training in elementary and secondary pedagogy and supports the mission of the Clemmer College of Education—Educating Leaders in the 21st Century. Teacher candidates are trained to assume leadership roles in the classroom, school, and community, while developing skills and knowledge in professional content and pedagogy with a special emphasis on technology, multicultural, and inclusion education. Physical Education specialists develop skills in reflective thinking and decision-making as they grow personally into caring lifelong learners. Students must be admitted to Teacher Education prior to enrolling in PEXS 4007, 4700, and 4717, EDFN 3301, MEDA 3570, and CUA1 4580.

Science Requirement for K-12:

HSCI 2010/11 Anatomy and Physiology I	4*
Science	4*

Major Core Requirements

PHED 1130 Fitness for Life	2
PEXS 2955 Care & Prevention of Ath. Injuries	3
PEXS 3032 Psychomotor Development in Children	3
PEXS 3080 Theory & Practice of Aerobic Cond.	3
PEXS 3510 Foundations of PE	3
SALM 4210 Legal Issues	3
PUBH 2030 First Aid and Emergency Care	3

Physical Education TE Concentration

PEXS 2701 Aquatics	1
PEXS 3085 Teaching Rhythms & Gymnastics	3
PEXS 3095 Teaching Sports Skills I	3
PEXS 3850 Scientific Basis of Human Performance	4
PEXS 4001 Teaching Sports Skills II	3
PEXS 4060 Measurement & Evaluation	3
PEXS 4700 PE Secondary I—Lifetime Wellness	3

Professional Education Core

EDFN 2100 Orientation to Education	1
EDFN 2300 Foundation of Education	2
EDFN 3301 Issues in Education	3
HDAL 3310 Educational Psychology	3
MEDA 3570 Educational Technology	2
PEXS 3005 Instructional Delivery Techniques	3
PEXS 4007 Elementary Physical Education	3
PEXS 4250 Atypical Populations	3
PEXS 4717 Secondary Wellness Education	3
CUA1 4580 Student Teaching	12
Electives	4

Total Hours Required for Degree..... **120**

**Suggested Course Sequence
Freshman Year**

First Semester		Credit Hours
ENGL 1010	Critical Reading and Expository Writing	3
MATH 1530	Probability and Statistics - Non-calculus	3
HIST 2010	The United States to 1877	3
SOAA 1240	Introduction to Cultural Anthropology	3
PHED 1130	Fitness for Life	2
PEXS 2701	Aquatics	1
Semester Total		15

Second Semester		Credit Hours
ENGL 1020	Critical Thinking and Argumentation	3
EDFN 2100	Orientation to the Profession of Ed	1
HIST 2020	The United States Since 1877	3
PHIL 1030	Self and World or	3
PHIL 2020	Values and Society	3
GEOG 1012	Introduction to Cultural Geography	3
ENGL 2330	World Literature	3
Semester Total		16

Sophomore Year

First Semester		Credit Hours
DANC 3500	Dance as Human Experience	3
PEXS 3005	Instructional Delivery Techniques	3
HSCI 2010/11	Anatomy and Physiology I Lecture & Lab	4
EDFN 2300	Foundations for Teaching	2
SPCH 1300	General Speech or	3
SPCH 2300	Public Speaking	3
Semester Total		15

Second Semester		Credit Hours
HSCI 2020/21	Anatomy and Physiology II Lecture & Lab	4
PUBH 2030	First Aid and Emergency Care	3
PEXS 3510	Foundation of Physical Ed & Sports	3
PEXS 3032	Psychomotor Development in Children	3
PEXS 3085	Teaching Rhythms & Gymnastics	3
Semester Total		16

Junior Year

First Semester		Credit Hours
PEXS 3080	Theory and Practice of Aerobic Cond.	3
PEXS 4700	Secondary Wellness Education	3
PEXS 3095	Teaching Sports Skills	3
PEXS 3850	Scientific Basis of Human Performance	4
PEXS/SALM	Elective	4
Semester Total		17

Second Semester		Credit Hours
PEXS 4007	Elementary Physical Education	3
PEXS 4717	Secondary Wellness Education	3
PEXS 4001	Sports Skills II	3
HDAL 3310	Educational Psychology	3
PEXS 4060	Measure & Evaluation	3
Semester Total		15

Senior Year

First Semester		Credit Hours
PEXS 2955	Care and Prevention of Athletic Injuries	3
MEDA 3570	Educational Technology	2
EDFN 3301	Issues in Education	3
SALM 4210	Legal Issues	3
PEXS 4250	PE for Atypical Populations	3
Semester Total		14

Second Semester		Credit Hours
CUAI 4580	Student Teaching	12
Semester Total		12
Total		120

EXERCISE SCIENCE CONCENTRATION

The Exercise Science concentration is a multidisciplinary approach to exercise, fitness, and wellness. The primary emphasis is on the effects of exercise on various body systems. Support studies from psychology, health education, and applied human sciences provide a knowledge base in the psychological aspects of health and behavior, generally oriented toward lifestyle maintenance and health promotion/risk reduction.

TBR General Education Requirements 41 Credit Hours

ENGL 1010	Critical Reading & Expository Writing	3
ENGL 1020	Critical Thinking & Argumentation	3
	Communication: Oral Communication*	3
	Mathematics*	3-4
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
	Science I *	4
	Science II *	4
	Literature*	3
	Fine Arts*	3
	Humanities*	3
	Social/Behavioral Sciences	6

*See General Education Core Requirements.

Physical Education Core 20 Credits Hours

PHED 1130	Fitness for Life	2
PEXS 2955	Care & Prevention of Athletic Injuries	3
PHED 3032	Motor Development	3
PEXS 3080	Teaching of Aerobic Conditioning	3
PEXS 3510	Foundations of Physical Education	3
SALM 4210	Legal Issues	3
PUBH 2030	First Aid and Emergency Care	3

Exercise Science Concentration 47 Credits Hours

PEXS 3610	Exercise Physiology I	3
PEXS 4061	Exercise Fitness Testing	3
PEXS 4062	Cardiovascular Testing	3
PEXS 4270	Kinesiology & Neuromuscular Physiology	3
PEXS 4620	Exercise Physiology II	3
PEXS 4630	Exercise Science Internship I	6
PEXS 4631	Exercise Science Internship II	6
PEXS 4656	Sport Conditioning and Training	3
PEXS 4657	Sports Nutrition and Ergogenic Aids	3
PEXS 4977	Exercise Management	3
NTFD 2420	Principles of Nutrition	3
HSCI 3000	Human Anatomy	4
HSCI 3020	Human Physiology	4

Guided Electives 9

Electives 3

Total Hours Required for Degree 120 Credit Hours

**Suggested Four-Year Sequence for
Exercise Science Concentration**

Freshman Year

First Semester		Credit Hours
ENGL 1010	Critical Reading and Expository Writing	3
Mathematics	.....	3
HIST 2010	The United States to 1877	3
Social/Behavioral Science	.....	3
PHED 1130	Fitness for Life	2
Semester Total		14

Second Semester		Credit Hours
ENGL 1020	Critical Thinking and Argumentation	3
HIST 2020	The United States Since 1877	3
Humanities/Fine Arts	.....	6
Social/Behavioral Science	.....	3
Semester Total		15

Sophomore Year

First Semester		Credit Hours
DANC 3500	Dance as Human Experience	3
SPCH 1300	General Speech or	3
SPCH 2300	Public Speaking	3
HSCI 3000	Human Anatomy	4
NTFD 2420	Principles of Nutrition	3
Science	.....	4
Semester Total		17

Second Semester		Credit Hours
PEXS 2955	Care and Prevention of Athletic Injuries	3
PEXS 3032	Psychomotor Development in Children	3
PEXS 3085	Teaching Rhythms and Gymnastics	3
HSCI 3020	Human Physiology	4
Science	.....	4
Semester Total		17

Junior Year

First Semester		Credit Hours
PEXS 3610	Exercise Physiology I	3
PEXS 3080	Teaching Aerobic Conditioning	3
PEXS 3510	Foundations of Physical Education	3
PEXS 4xx	Cardiovascular Exercise Testing	3
PEXS 4061	Exercise Fitness Testing	3
PUBH 2030	First Aid and Emergency Care	3
Elective	.....	3
Semester Total		18

Second Semester		Credit Hours
PEXS 4620	Exercise Physiology II	3
PEXS 4xx	Cardiovascular Exercise Testing	3
PEXS 4270	Structural Kinesiology	3
PEXS 4467	Nutrition and Exercise	3
Elective	.....	3
Semester Total		15

Senior Year

First Semester		Credit Hours
PEXS 4630	Exercise Science Internship I	6
SALM 4210	Legal Issues and Risk Mgmt.	3
PEXS 4977	Exercise Management	3
Semester Total		12

Second Semester	Credit Hours
PEXS 4631 Exercise Science Internship II	6
Electives	6
Semester Total	12
Total	120

**Bachelor of Science Degree (B.S.)
in Sport and Leisure Management**

Concentrations: Sport Management
Park and Recreation Management

TBR General Education Requirements 41 Credit Hours

ENGL 1010 Critical Reading & Expository Writing	3
ENGL 1020 Critical Thinking & Argumentation	3
Communication: Oral Communication	3
Mathematics*	3-4
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Science I*	4
Science II*	4
Fine Arts*	3
Humanities/Fine Arts (Literature)	6
Social/Behavioral Sciences	6

* See General Education Core Requirements.

SPORT MANAGEMENT CONCENTRATION

The sport management concentration provides instruction and training in planning, organization, and leadership as they relate to the field of sport management. Students are prepared to work in a consumer-driven and constituent-based profession. Clinical experience is a significant part of this program of study.

General Education Core (see above) 41 Credit Hours

Major Core 33 Credit Hours

SALM 3220 Facility and Event Management	3
SALM 3225 Marketing Strat. & Public Relations in Sport	3
SALM 4210 Legal Issues in Sport and Leisure Activities	3
SALM 4215 Social Psychology of Sport & Leisure	3
SALM 4225 Management of Sport and Leisure Activities	3
SALM 4240 Research Design & Analysis in SALM	3
SALM 4250 Internship in SALM	12
ACCT 2010 Principles of Accounting	3

Sport Management Concentration 18 Credit Hours

SALM 3200 Introduction to Sport Management	3
SALM 3230 Sport in the Social Context	3
SALM 3240 Sport Government	3
SALM 4205 Issues and Trends in Sport Management	3
SALM 4230 Fund-Raising in Sports	3
MGMT 3000 Organizational Management	3

Business Guided Electives 12 credits

Select from the following:

MGMT 4010 Advanced Organizational Behavior	3
MGMT 4510 Human Resources Management	3
MGMT 3200 Organizational Communication	3
MGMT 4100 Decision Making	3
MGMT 3310 Legal Environment of Business	3
MGMT 4600 Personnel Law	3
MKTG 3250 Marketing Communications	3
PUBR 2700 Introduction to Public Relations	3
MKTG 3200 Principles of Marketing	3
MGMT 3320 Management Social Responsibility	3

Guided Electives 9 Credit Hours

Electives 8 Credit Hours

Total Hours Required for Degree 120 Credit Hours

PARK AND RECREATION MANAGEMENT CONCENTRATION

General Education Core Requirements 41 Credit Hours

Major Core (see above) 33 Credit Hours

SALM 3220 Facility and Event Management	3
SALM 3225 Marketing Strat. & Public Relations in Sport	3
SALM 4210 Legal Issues in Sport and Leisure Activities	3
SALM 4215 Social Psychology of Sport & Leisure	3
SALM 4225 Management of Sport and Leisure Activities	3

SALM 4240 Research Design & Analysis in SALM	3
SALM 4250 Internship in SALM	12
ACCT 2010 Principles of Accounting	3

Park and Recreation Management 21 Credit Hours

SALM 3100 Introduction to Leisure Services	3
SALM 3105 Programming & Leadership in Leisure Services	3
SALM 3117 Recreation for Special Pop.	3
SALM 3120 Natural Resources Management	3
SALM 3210 Practicum I in SALM	1
SALM 3211 Practicum II in SALM	1
SALM 3140 Leadership and Group Processes	3
SALM 4110 Professional Development in Park & Recreation Management	1
SALM 4105 Commercial Recreation and Tourism	3

Recreation Electives 15-21 Credit Hours

SALM 3110 Interpretation of Cultural & Natual Resources	3
SALM 3115 Wilderness First Responder	3
SALM 3120 Outdoor Recreation Skills	3
SALM 3125 Camp Leadership	3
SALM 3150 Regional Outdoor Leadership & Service	3
SALM 4107 Alpine Tower Leadership	3
SALM 4117/8/9 Outdoor Leadership	3
SALM 4200 Adventure Programming	3
SALM 4956 Managing Park Services	3
PSCI 2610 Introduction to Public Administration	3

Guided Electives 1-7 Credit Hours

SALM 4127 Rocky Mountain Experience	3
SALM 4137 Wilderness Education Stewardship	3
MKTG 3200 Principles of Marketing	3
ARTA 2200 Basic Photography	3
ASTR 1010 Astronomy I	4
ENVH 3010 Human Ecology & Environmental Education	3
GEOG 4217 Geographic Information Systems	3
GEOG 3040 Conservation of Natural Resources	3
SCED 4020 Wildlife Conservation	3
PHED 2xxx Lifetime Activity	1
Free Electives	3 Credit Hours

Total Hours Required for Degree 120 Credit Hours

**Suggested Semester Schedule
Freshman Year**

First Semester	Credit Hours
ENGL 1010 Critical Reading and Expository Writing	3
HIST 2010 The United States to 1877	3
Social/Behavioral Science	3
PHED 1130 Fitness for Life	2
PHED 2XXX Activity	1
Semester Total	15

Second Semester	Credit Hours
ENGL 1020 Critical Thinking and Argumentation	3
HIST 2020 The United States Since 1877	3
Communication: Oral Communication	3
Humanities/Fine Arts	3
Social/Behavioral Science	3
Semester Total	15

Sophomore Year

First Semester	Credit Hours
SALM 3220 Facility & Event Management	3
PUBH 2030 First Aid and Emergency Care	3
DANC 3500 Dance as Human Experience	3
Science	4
SALM 3210 Practica in SALM I	1
Semester Total	14

Second Semester	Credit Hours
SALM 3225 Marketing Strategies & Public Relations in SALM	3
SALM 3211 Practica in SALM II	1
SALM 3200 Introduction to Sport Management	3
Science	4
Humanities	3
ACCT 2010 Principles of Accounting I	3
Semester Total	17

Junior Year

First Semester	Credit Hours
Business Elective	3
MGMT 3000 Organizational Mgmt	3
SALM 4230 Fund-Raising in Sports	3
Business Elective	3
Guided Elective	3
Semester Total	15

Second Semester		Credit Hours
SALM 4205	Issues and Trends in Sport Management	3
SALM 4210	Legal Issues in Sport and Leisure Activities	3
SALM 4215	Social Psychology of Sport and Leisure	3
Guided Electives	.....	6
Semester Total		15

Senior Year

First Semester		Credit Hours
SALM 4225	Management of Sport and Leisure Activities	3
Business Elective	.....	3
Guided Electives	.....	6
Electives	.....	5
Semester Total		17

Second Semester		Credit Hours
SALM 4250	Internship in SALM	12
Semester Total		12
Total		120

MINORS

Park and Recreation Management Minor 18 Credit Hours

SALM 3100	Introduction to Leisure Services	3
SALM 3105	Programming & Leadership in Leisure Services	3
SALM 3110	Interpretation of Cultural & Natural Resources	3
SALM 3117	Recreation for Special Populations	3
SALM 3120	Outdoor Recreation Skills	3
SALM 4225	Management of Sport and Leisure Activities	3

Students selecting the leisure services minor should contact the department coordinator.

Sport Management Minor 18 Credit Hours

SALM 3200	Introduction to Sport Management	3
SALM 3220	Facility and Event Management	3
SALM 3225	Marketing Strategies & Public Relations in SALM	3
SALM 4205	Issues and Trends in Sport Management	3
SALM 4225	Management of Sport and Leisure Activities	3
SALM 4230	Fund-Raising in Sports	3

Coaching Minor 18 Credit Hours

PEXS 2955	Care & Prevention of Athletic Injuries	3
PEXS 3510	Foundations of Physical Education and Sport	3
PEXS 3655	Sports Nutrition	3
PEXS 4600	Athletic Coaching Practicum	3
SALM 4210	Legal Issues in Sport and Leisure Activities	3

Electives (3 hours from the following):

PEXS 3095	Sport Skills I	3
PEXS 4001	Sport Skills II	3
SALM 4215	Social Psychology of Sport and Leisure	3
SALM 4225	Management of Sport and Leisure Activities	3

Physical Education Minor 18 Credit Hours

PEXS 3005	Instructional Delivery Techniques for PE	3
PEXS 3510	Foundations of Physical Education & Sport	3
PEXS 3032	Psychomotor Development in Children	3
PEXS 3080	Teaching Aerobic Conditioning	3
PEXS 3085	Teaching Rhythms and Gymnastics	3
PEXS 4060	Measurement and Evaluation in PE	3

GRADUATE

Graduate Study – The Department of Kinesiology, Leisure and Sport Sciences offers a Master of Arts degree with concentrations in K-12 Physical Education, Exercise Physiology and Performance, and Sport Management. Additional information on the Master of Arts degree is available in the Graduate Catalog.

College of Nursing

Box 70617

e-mail: nursing@etsu.edu**Dean's Office:** (423) 439-7051**Student Services:** (423) 439-4578**Toll free:** 1-888-37NURSE**Fax:** (423) 439-4522 (Student Services)

The mission of the College of Nursing at East Tennessee State University is to facilitate the health of the community through excellence and innovation in nursing education, leadership, research, scholarship, and practice. The college provides undergraduate and graduate programs. The Bachelor of Science in Nursing degree program includes curricula designed for four-year traditional students and second-degree students in an accelerated track. In addition, programs of advanced placement are available to eligible diploma or associate degree prepared licensed registered nurses and to eligible licensed practical nurses interested in pursuing a Bachelor of Science in Nursing degree. (Information on the master's and doctoral degree programs is found in the Graduate Catalog.)

The program is approved by the Tennessee Board of Nursing and accredited by the American Association of Colleges of Nursing's Commission on Collegiate Nursing Education (CCNE.) The CCNE is an additional resource for information (1 Dupont Circle, Suite 530, Washington, DC 20036, 1-202-887-6791.) The College of Nursing is affiliated with the National Student Nurses' Association. Membership in the Epsilon Sigma Chapter of Sigma Theta Tau, the International Nursing Honor Society, is available to eligible candidates.

Bachelor of Science in Nursing

Accredited by: Commission Collegiate on Nursing Education (CCNE)

The Bachelor of Science in Nursing (B.S.N.) degree program prepares a generalist in nursing with leadership skills, basic research abilities, and a holistic health approach to professional nursing with a focus on the community. A broad foundation in science and liberal arts enables the professional nurse to enter into the collaborative health care process in a variety of settings.

The Bachelor of Science in Nursing degree is the foundation for professional nursing practice. The professional nurse practices in collaboration with other health care providers and is responsible for coordinating and practicing comprehensive nursing care for individuals, families, groups, and communities, and assuming management and leadership positions in nursing practice.

A course of study that meets the degree requirements and the university's General Education Program Requirements will be planned with the student through regular advising sessions each semester.

Students who complete the baccalaureate degree program, and are not already licensed registered nurses, will write the National Council Licensure Examination for Registered Nurses (NCLEX-RN). Graduates of the nursing program who have been convicted of a violation of the law other than a minor traffic violation (i.e., misdemeanor and/or felony) may be denied a license to practice as a registered nurse by the Tennessee Board of Nursing. Questions about eligibility for licensure should be directed to the Tennessee Board of Nursing (1-888-778-4123).

Admission Requirements

Admittance to the university as a pre-nursing major does not assure admission to the major. Because limited numbers of students can be admitted to the nursing major, students must make a separate application to the College of Nursing. Applications for admission to the B.S.N. major and other information can be obtained through the College of Nursing Office of Student Services, Room 230, Roy S. Nicks Hall, (423) 439-4578 or 1-888-37NURSE, by e-mail: nursing@etsu.edu or online at: www.etsu.edu/etsucon/undergraduate.htm.

The College of Nursing admits students to the four-year B.S.N. major twice a year. Application deadlines are February 1 (fall) and October 1 (spring). The priority deadline for application to the accelerated B.S.N. track for second-degree students, which begins during the summer term, is February 1. The priority deadline for application to the B.S.N. program for R.N. students is June 1. Applications will be considered until each class is filled.

To be considered for admission to the four-year baccalaureate nursing major, the applicant must have a minimum cumulative grade point average of 2.6 GPA, on a 4.0 scale, on all college-level work as computed by East Tennessee State University. The actual GPA for admission may be higher, depending on the applicant pool. Developmental studies/remedial coursework are not included in the calculation of the cumulative grade point average for College of Nursing admission purposes.

The four-year B.S.N. applicant must have completed, or have in progress, all of the following courses, or their equivalents: ENGL 1010, ENGL 1020, and Speech; 12 credit hours that will satisfy course requirements under Humanities and Fine Arts and Social and Behavioral Sciences; HSCI 2230/31; HIST 2010, HIST 2020; MATH 1530; approved literature course; HSCI 2010/11; and HSCI 2020/21. Additionally, the applicant must have earned a minimum grade of *C* (2.0) in each of the required health science courses. No more than two (2) health science courses may be repeated, and no more than one health science course may be repeated more than once in order to achieve a minimum grade of *C* (2.0).

Selection Process

After the deadline for application, eligible applicants will be rank-ordered within their respective tracks by cumulative college-level grade point average. Class size is limited. Should there be more eligible applicants than there are spaces available, a position in the class will be offered to the top-ranked students in the applicant pool.

Eligible students who cannot be accommodated will be notified in writing and may reapply during the next application period. No waiting list is maintained for admission. A final verification of eligibility will be made once semester grades become available. Students who, at the end of the semester of acceptance are no longer eligible, will not be permitted to maintain their admission to the nursing major and must reapply.

Maintenance and Progression

Students admitted to the nursing major must earn a minimum grade of *C* (2.0) in each required theory and/or clinical nursing course. Grades of *C*, *D+*, *D*, and *F* indicate that the course content has not been mastered and are considered nursing failures. Students who earn a grade less than *C* (2.0) in any two required nursing courses (classroom or clinical practicum) will be academically dismissed from the College of Nursing. This policy applies even if one of the failed courses has been repeated previously with a grade of *C* (2.0) or higher. Students who earn a grade of *F* in any one clinical course will be academically dismissed from the College of Nursing. Students who earn a grade of less than *C* (2.0) in a required nursing course and who wish to repeat the course and progress must file an appeal with the College of Nursing Student Affairs Committee. For additional information, contact the college's Office of Student Services.

If a student drops any of the following courses – ALNU 3030, FCNU 3070, FCNU 3080, ALNU 4040, ALNU 4050, PMNU 3090, or PMNU 4060 – the student must also withdraw from the corresponding clinical course (ALNU 3031, FCNU 3071, FCNU 3081, ALNU 4041, ALNU 4051, PMNU 3091, PMNU 4061, or PMNU 4062).

Fully admitted students who continue to progress successfully in the curriculum on a full-time basis can expect to complete degree requirements in five semesters/terms. Students may complete the program on a part-time basis but are strongly advised to meet with a nursing advisor to develop an individualized plan for part-time study.

Students will obtain a copy of the College of Nursing policies and clinical course requirements, including the substance abuse policy, clinical course requirements, and information on Core Performance Standards from the college's Office of Student Services. Students must sign forms indicating they have received the College of Nursing policies and agree to abide by them.

In partial fulfillment of the requirements of designated B.S.N. courses, students take three standardized assessment exams designed to prepare them for professional practice and the National Council Licensure Examination for the Registered Nurse (NCLEX-RN). Four-year and accelerated second-degree B.S.N. students take an Entrance Assessment, used as a diagnostic tool, two weeks from the time of their letter of acceptance to the major (or prior to the first day of class for late admits). Students with reading comprehension or cumulative scores below 80 percent are required to add FCNU 3300, Promoting Academic Success in Nursing (1 credit) to their schedule. This course supports and strengthens students' study and test-taking skills. A Mid-Curricular Exam, the second standardized assessment in the curriculum, must be passed as a requirement of a designated nursing course in the second semester of the junior year. In the last semester of their academic program, all four-year and accelerated second-degree B.S.N. undergraduate students must pass a comprehensive Exit Exam as a requirement of a designated nursing course in the second semester of the senior year. Passing of Mid-Curricular and Exit Exams is required to pass the associated nursing course. Each exam will cost approximately \$37.00. Personnel in the Testing Center, as well as designated faculty, assist students in test preparation, interpretation of test results, identification of areas of academic deficiency, selection of learning resources and development of study plans to meet specific learning needs. More information on schedules for each exam, payment procedures, review sessions, and policies for re-examination are provided within the designated courses.

After admission to the major and before beginning any clinical practice courses, students must furnish evidence of having met clinical course requirements, including documentation of good health and freedom from communicable diseases, compliance with substance abuse policy, CPR certification, professional liability insurance coverage, knowledge of universal precautions, HIPAA and other policies in the College of Nursing Student Handbook. Additional information may be required and the College of Nursing may add or choose clinical requirements based on current information. For example, criminal background checks may be a requirement at some clinical sites. Any student enrolled in a College of Nursing course or program may be asked to present evidence of physical or mental health at any time during the nursing program and program continuance may be contingent upon this evidence.

Many sites are used for nursing courses and students must provide or arrange for their own transportation. Opportunities exist for rural, and interprofessional clinical experiences, as well as international nursing experiences.

Given the rapid change in health care and technology, the faculty maintains the right and responsibility for revising the curriculum to anticipate societal needs for nursing care. Students are strongly advised to contact the college for current requirements.

Bachelor of Science in Nursing Curriculum

The nursing courses listed are from the three departments in the College of Nursing: Adult Nursing (ALNU), Professional Roles/Mental Health Nursing (PMNU), and Family/Community Nursing (FCNU). The ratio of credit hours to clock hours per week is 1:1 for didactic courses and 1:2 for clinical courses, unless otherwise specified.

TBR General Education Requirements 41 Credit Hours

ENGL 1010	Critical Reading & Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
Communication:	Oral Communication*	3
MATH 1530	Probability and Statistics	3
HSCI 2010/11	Anatomy and Physiology I	4
HSCI 2020/21	Anatomy and Physiology II	4

HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature*	.....	3
Fine Arts*	.....	3
Humanities*	.....	3
Social/Behavioral Sciences*	.....	6
CSCI Proficiency	.....	0-3

* See the General Education Core Requirements.

Additional Nursing Requirements 4 Credit Hours

HSCI 2230/31	Introduction to Microbiology	4
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Nursing Core 75

ALNU 2016	Pathophysiology	4
ALNU 3010	Pharmacology for Nursing	3
ALNU 3030	Foundations of Nursing Practice	3
ALNU 3031	Foundations Practicum	4
ALNU 4040	Care of the Adult	4
ALNU 4041	Care of the Adult Practicum	4
ALNU 4050	Care of Older Adults	3
ALNU 4051	Care of Older Adults Practicum	3
FCNU 2030	Health Assessment	4
FCNU 3070	Young Adults and Childbearing Families	3
FCNU 3071	Young Adults and Childbearing Families Practicum	3
FCNU 3080	Care of Children and Their Families	3
FCNU 3081	Care of Children and Their Families Practicum	3
FCNU 4110	Population-based Nursing Care I	3
FCNU 4120	Population-based Nursing Care II	3
PMNU 2020	Introduction to Professional Nursing	3
PMNU 2310	Communication for Health Professionals	2
PMNU 3090	Care of Persons with Psychiatric Disorders	3
PMNU 3091	Care of Persons with Psychiatric Disorders Practicum	3
PMNU 3220	Nursing Theory and Research	3
PMNU 4060	Transition to Professional Practice	3
PMNU 4061	Senior Practicum	8

Total Hours Required for Degree 120

Suggested Course Sequence for the Four-Year Bachelor of Science in Nursing Degree Program

Freshman Year *

First Semester		Credit Hours
ENGL 1010	Critical Reading and Expository Writing	3
MATH 1530	Probability and Statistics**	3
HSCI 2010/11	Anatomy and Physiology I	4
HIST 2010	The United States to 1877	3
CSCI Proficiency	.....	0-3
Semester Total		13-16

Second Semester		Credit Hours
ENGL 1020	Critical Thinking and Argumentation	3
Social/Behavioral Sciences	.....	3
HSCI 2020/21	Anatomy and Physiology II	4
HIST 2020	The United States Since 1877	3
Humanities/Fine Arts	.....	3
Semester Total		16

Sophomore Year

First Semester		Credit Hours
HSCI 2230/31	Introduction to Microbiology	4
Literature	.....	3
Social/Behavioral Sciences	.....	3
Humanities/Fine Arts	.....	3
SPCH 1300 or 2300	.....	3
Semester Total		16

Second Semester		Credit Hours
ALNU 2016	Pathophysiology	4
PMNU 2020	Introduction to Professional Nursing	3
FCNU 2030	Health Assessment	4
PMNU 2310	Communication For Health Professionals	2
Semester Total		13

Junior Year

First Semester		Credit Hours
PMNU 3220	Nursing Theory and Research	3
ALNU 3010	Pharmacology for Nursing	3
ALNU 3030	Foundations of Nursing Practice	3
ALNU 3031	Foundations Practicum	4
Semester Total		13

Second Semester	Credit Hours
FCNU 3070 Young Adults and Childbearing Families	3
FCNU 3071 Young Adults & Childbearing Families Practicum	3
FCNU 3080 Care of Children and Their Families	3
FCNU 3081 Care of Children & Their Families Practicum	3
PMNU 3090 Care of Persons with Psychiatric Disorders	3
PMNU 3091 Care of Persons with Psychiatric Disorders Practicum	3
Semester Total	18

Senior Year

First Semester	Credit Hours
ALNU 4040 Care of the Adult	4
ALNU 4041 Care of the Adult Practicum	4
ALNU 4050 Care of Older Adults	3
ALNU 4051 Care of Older Adults Practicum	3

Second Semester	Credit Hours
FCNU 3070 Young Adults and Childbearing Families	3
FCNU 3071 Young Adults & Childbearing Families Practicum	3
FCNU 3080 Care of Children and Their Families	3
FCNU 3081 Care of Children & Their Families Practicum	3
FCNU 4110 Population-based Nursing Care I	3
Semester Total	17

Second Semester	Credit Hours
PMNU 4060 Transition to Professional Practice	3
FCNU 4120 Population-based Nursing Care II	3
PMNU 4061 Senior Practicum	8
Semester Total	14
Total	120
Total Nursing Credits	75

* If you are identified by the East Tennessee State University's Office of Admissions as needing Developmental coursework, you will be advised by counselors in Developmental Studies and by advisors in the College of Nursing.

** MATH 1530 must be completed prior to earning 33 semester hours at ETSU.

A C (2.0) or higher is required in all science, health science, and nursing courses. College of Nursing policy limits the number of science and health science attempts. Consult the University Undergraduate Catalog or consult with a College of Nursing advisor.

Advanced Placement for R.N. Students

To facilitate the education of registered nurses, the College of Nursing has developed an upper division sequence of courses leading to the B.S.N. degree. Eligible graduates of diploma and associate degree nursing programs who are seeking additional study in nursing may be given advanced standing by articulation, challenge examination, and/or validation processes.

Eligible RN students are admitted in the fall semester (deadline for application is June 1st; however, applications are accepted until classes are filled). Eligible applicants will be rank-ordered by college level grade point average; admission will be offered to the top ranked applicants and may be limited by space availability. Applications received after the deadline will be considered on a space available basis. Eligible applicants who are not admitted may apply for the next available class. In addition to meeting GPA and science grade requirements, the applicant must be a graduate of an accredited program and hold active licensure as an RN in Tennessee or a compact state. Graduates of diploma and non-accredited programs must also have a minimum of 35 hours of specified courses to be eligible for the major. Coursework must include: English composition – 6 semester credits; Natural Science – 8 semester credits; Behavioral/Social Sciences – 6 semester credits; General education/electives – 15 semester credits. Credit may be earned by taking the courses from a regionally, accredited institution or by taking departmental challenge examinations or equivalency examinations such as CLEP.

Students must satisfy a residency requirement of not less than two semesters during the junior and senior years, including the last full semester. This shall be a minimum of 30 hours. Not less than 12 semester hours may be counted as a semester of residence. Courses taken at ETSU off-campus centers are classified as residence credit. A minimum of 50 semester hours of credit must have been completed in a senior-level college or university. The R.N./ B.S.N. major requires 32 semester credits. These 32 credits will partially fulfill the university requirement of 50 semester credits having been completed in a senior-level college or institution and can usually be satisfied while completing the general education requirements. Therefore, an additional 18 semester credits must be completed at a senior-level college or university and can usually be satisfied while completing the general education requirements.

All nursing courses transferred into ETSU, in which a grade of C (2.0) or higher was earned, will be transferred in as elective courses and will count as elective credit in partial fulfillment of the B.S.N. degree requirements. Non-nursing credits are transferred and evaluated according to the policies of East Tennessee State University.

Upon successful completion of PMNU 3120 Professional Community-Based Nursing, FCNU 2030 Health Assessment, and ALNU 3010 Pharmacology for Nursing, the student will be awarded 39 semester credits in nursing; ALNU 3030, ALNU 3031, ALNU 4040, ALNU 4041, ALNU 4050, ALNU 4051, FCNU 3070, FCNU 3071, FCNU 3080, FCNU 3081, PMNU 3090, and PMNU 3091. Students graduating from a community college where ETSU has an Articulation Agreement will receive seven (7) semester hours credit upon successful completion of FCNU 2030 and PMNU 3120.

New "cohorts" of students form each fall at Johnson City, Sevierville, Kingsport, Knoxville, and Cleveland, Tennessee. Candidates should schedule an academic advising session with a College of Nursing advisor to plan their program of study.

R.N. to B.S.N. Online Program Plan

Fall

CSCI 1100 Using Information Tech (or proficiency/challenge exam)	0-3*
FCNU 2030 Health Assessment (Lecture is online/Lab is onsite)	4
PMNU 3120 Professional Community Based Nursing (online)	4
Total	8-11

Spring

ALNU 2016 Pathophysiology (online)	4
ALNU 3010 Pharmacology (online)	3
PMNU 3220 Nursing Theory & Research (online)	3
Total	10

Summer

FCNU 4040 Care of Communities II (online/onsite)	3
PMNU 4060 Transition to Professional Practice (online)	3
PMNU 4062 RN Practicum (240 clinical hours)	8**
Total	14
Total Hours	32-35

* Students who enroll in and successfully complete CSCI 1100 will receive college credit. College credits are not awarded for the proficiency exam.

** Students may receive credit toward their practicum by portfolio submission. Portfolios are submitted and evaluated when students are enrolled in PMNU 4060.

† indicates technology intensive courses

‡ indicates writing and technology intensive courses

* indicates writing and oral intensive courses

Advanced Placement for LPNs

Eligible L.P.N.s who are admitted to the B.S.N. program follow the same admission/progression standards as the traditional baccalaureate student but are given the advantage of advanced standing. An L.P.N. student is required to take ALNU 3170, L.P.N. to B.S.N. Transition course (3 credits) in lieu of ALNU 3030 Foundations of Nursing Practice (3 credits) and ALNU 3031 Foundations Practicum (3 credits), but otherwise follow the traditional B.S.N. program.

B.S.N. Accelerated Track for Second-Degree Students

This program is designed for students who hold a bachelor's degree in another field that was received from a regionally accredited institution. A minimum of a 2.6 on a 4.0 scale on all college work as computed by ETSU is required for admission. Developmental studies coursework is not included in the calculation for admission. Students should have completed or have in progress all the following courses or their equivalents:

HSCI 2230/31 Introduction to Microbiology
MATH 1530 Probability and Statistics
HSCI 2010/11 Anatomy and Physiology I
HSCI 2020/21 Anatomy and Physiology II

Students must have earned a minimum of a C (2.0) in each of the required health science-related courses. Each HSCI course may be repeated one time and only two HSCI courses may be repeated to achieve a C (2.0).

The application deadline is February 1st of each year. The program is designed for full-time study. Classes begin in the summer term only and the curriculum can be completed in five semesters including the summer term of admission into the program. A student who fails to successfully complete one or more nursing courses, if allowed to progress, must then follow the traditional B.S.N. curriculum.

Accelerated Second Degree Program of Studies

Summer Term		First Semester
PMNU 3120	Professional Community-based Nursing	4
FCNU 2030	Health Assessment	4
ALNU 2016	Pathophysiology	4
Fall Term		Second Semester
ALNU 3010	Pharmacology for Nursing	3
PMNU 3220	Nursing Theory and Research	3
ALNU 3030	Foundations of Nursing Practice	3
ALNU 3031	Foundations Practicum	4

Spring Term		Third Semester
FCNU 3070	Young Adults & Childbearing Families	3
FCNU 3071	Young Adults & Childbearing Families Practicum	3
FCNU 3080	Care of Children & Their Families	3
FCNU 3081	Care of Children & Their Families Practicum	3
PMNU 3090	Care of Persons with Psychiatric Disorders	3
PMNU 3091	Care of Persons with Psychiatric Disorders Practicum	3
Summer Term		Fourth Semester
ALNU 4040	Care of the Adult	4
ALNU 4041	Care of the Adult Practicum	4
ALNU 4050	Care of Older Adults	3
ALNU 4051	Care of Older Adults Practicum	3
Fall Term		Fifth Semester
FCNU 4120	Population-based Nursing Care II	3
PMNU 4060	Transition to Professional Practice	3
PMNU 4061	Senior Practicum	8
Total Nursing Credits		71

College of Public Health

Box 70623

Phone: (423) 439-4243

Vision

The ETSU College of Public Health is the school of choice for students who want to improve the health of people from the state, the region, the nation, and the world.

Mission Statement

1. Provide public health students and practitioners with the academic, professional, and practical skills necessary to meet the health needs of the region, the state, the nation, and the world.
2. Advance the science of public health through research focused on identifying practical solutions to leading health challenges.
3. Collaborate with public and private partners to identify and meet public health priorities.
4. Improve the health status of all people including those in underserved communities through education, evidence-based advocacy, and partnerships.
5. Contribute to the quality of life at East Tennessee State University through instruction, research, and service.

**Departments and Programs
College of Public Health**

Departments:

- Biostatistics and Epidemiology
- Community Health
- Environmental Health
- Health Sciences
- Health Services Administration

Department	Major	Concentrations	Degrees
Biostatistics and Epidemiology	PUBH	Biostatistics Epidemiology Epidemiology	M.P.H. M.P.H. Dr.P.H.
Community Health	PHBS PUBH	Community Health Community Health Community Health	B.S. M.P.H. Dr.P.H.
Environmental Health	ENVH ENVH	Environmental Health Practice Occupational Health and Safety Administrative Program Specialist Program Environmental Health Sciences	B.S.E.H. M.P.H. M.S.E.H. Ph.D.
Health Sciences	HSCI	Microbiology	B.S.

*M.B.I.M.

	Microbiology	*M.S.
	Human Health	B.S.
Health Services Administration	PHBS Health Administration	B.S.
	PUBH Public Health Administration	M.P.H.

**Offered in conjunction with Biological Science.*

Admission Requirements

Refer to admission requirements in the ETSU Undergraduate Catalog and appropriate departmental literature regarding separate admission/progression policies.

Criminal Background Investigation

In Tennessee and nationally, due to legislative and accreditation requirements, many schools, childcare, and health care facilities require that students in health-related professions be required to submit to a Criminal Background Investigation (CBI) before participating in any educational/patient care activities at their sites. These educational/clinical activities are an essential requirement for graduation or subsequent licensure and the inability to complete this requirement may result in a student's failure to meet the graduation requirements of certain ETSU College of Public Health programs. Students must be aware that they will be required to do the following:

1. Truthfully answer all questions, including those pertaining to felony convictions, on the student undergraduate or graduate application. Students who do not answer the questions truthfully and completely shall not be eligible for acceptance or enrollment. Discovery that the section dealing with felony convictions was not completely or truthfully answered by an enrolled student may result in dismissal.
2. Complete a CBI prior to participating in internship, field placement, or cooperative experiences at an affiliated institution that requires a CBI, as determined by the academic department.
3. Notify the Program Chair of any criminal charges within five (5) working days of their occurrence during enrollment in the program. Failure to notify the Chair of such events may result in immediate dismissal.
4. Check departmental guidelines for procedures for obtaining the CBI.

Graduate Study Offered

- The Department of Biostatistics and Epidemiology offers the Master of Public Health (M.P.H.) degree in two concentrations (biostatistics and epidemiology) and the Doctor of Public Health (Dr.P.H.) in epidemiology. The department also offers two graduate certificates in biostatistics and epidemiology.
- The Department of Community Health offers the Master of Public Health (M.P.H.) degree in community health and the Doctor of

Public Health (Dr.P.H.) degree in community health. The department also offers a graduate certificate in rural health and an interdisciplinary graduate certificate in gerontology in conjunction with the colleges of Nursing, Business and Technology, Medicine, Arts and Sciences, and Education.

- The Department of Environmental Health offers the Master of Science in Environmental Health (M.S.E.H.) degree and the Doctor of Philosophy (Ph.D.) in Environmental Health Sciences. The student may choose the administrative concentration or the specialist concentration within the M.S.E.H. The department also offers the M.P.H. degree in environmental health.
- The Department of Health Sciences, in conjunction with Biological Sciences, offers the Master of Science (M.S.) degree in Microbiology.
- The Department of Health Services Administration offers the M.P.H. degree in public health administration and the interdisciplinary graduate certificate in health care management in conjunction with the College of Nursing and the College of Business and Technology.

**Department of Community Health
(COMM)**

Box 70674

Phone: (423) 439-4332

The Department of Community Health offers the Bachelor of Science (B.S.) degree in public health with a concentration in community health. The degree prepares students to become effective health educators and community health specialists capable of developing and implementing health programs in a variety of community-based settings. Students completing the degree are eligible to sit for the national credential exam - Certified Health Education Specialist (CHES).

TBR General Education Requirements 41 Credit Hours

ENGL 1010	Critical Reading & Expository Writing	3
ENGL 1020	Critical Thinking & Argumentation	3
SPCH 2320	Public Speaking	3
MATH 1530	Probability and Statistics	3
HSCI 2010/11	Anatomy and Physiology I Lec/Lab	4
HSCI 2020/21	Anatomy and Physiology II Lec/Lab	4
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature ¹		3
Fine Arts ¹		3
PHIL 2640	Science and the Modern World	3
ECON 2210	Principles of Economics I	3
PSYC 1310	Introduction to Psychology	3

Public Health Core 47 Credit Hours

ENVH 3040	Environmental Sanitation I	3
PUBH 1010	Lifetime Behaviors for Healthy Living	3
PUBH 2030 ²	First Aid and Emergency Care	3
PUBH 2750	Medical Terminology	3
PUBH 3000	Biostatistics	3
PUBH 3080	Principles of Epidemiology	3
PUBH 3200	Health Services Administration	3
PUBH 4030	Community Health	3
PUBH 4220	Family Health and Human Sexuality	2
PUBH 4457	Emerging Technology for Health Professions	3
PUBH 4607	Gerontology and Health	3
PUBH 4927	Cultural Competence and Spirituality in Health Care	3
PUBH 4850	Field Experience or	
CUAI 4580 ³	Student Teaching	12

Community Health Concentration: 15-16 Credit Hours

NTFD 2420	Principles of Nutrition	3
PUBH 3120	Principles & Practices of Public Health Ed.	4
PUBH 4060	Community Org. for Health Ed Programs	3
PUBH 4357	Thanatology	3

Electives (select at least one of the following)

PUBH 2120	School Health	3
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PUBH 3010	Accident Prevention	3
PUBH 3220	Health Services Planning	3
PUBH 3500	Consumer Health Education	2
PUBH 3950	Public Health Research	3
PUBH 4007	Principles & Practices of Patient Education	3
PUBH 4937	Stress Management	3

Minor 18 Credit Hours
Total Hours Required for Degree 121-122 Credit Hours

¹ See General Education Core requirements.

² Lab fee applies.

³ See College of Education for requirements of K-12 licensure with emphasis on health.

Public Health Minor

Public Health Minor Requirements 18

PUBH 1010	Lifetime Behaviors for Healthy Living	3
PUBH 3200	Health Services Administration	3
PUBH 4030	Community Health	3
Public Health (PUBH) Electives*		9

These electives must be approved by your advisor.

Emergency/Disaster Response Management Minor

Required Courses 6 Credit Hours

PEXS 2950	Disaster Response Training	3
PUBH 2030	First Aid and Emergency Care	3

Guided Electives 12 Credit Hours

ENVH 3500	Environmental Safety	3
ENVH 4207	Radiological Health	3
ENVH 4727	Hazardous Waste Operations and Emergency Response	3
PUBH 1010	Lifetime Behaviors for Healthy Living	3
PUBH 3010	Accident Prevention	3
PUBH 4030	Community Health	3

Total Hours Required for Minor 18

Transfer Students – Transfer students who major or minor in public health shall earn a minimum of 18 hours of credit (12 hours must include either field experience or student teaching) with an average grade of “C” or above in this department. (See section of catalog on transfer students for other requirements.)

Graduate Study - The Department of Community Health offers the Master of Public Health (M.P.H.) degree in Public Health and the Doctor of Public Health (Dr.P.H.) degree in community health. The department also offers a graduate certificate in rural health and an interdisciplinary graduate certificate in gerontology in conjunction with the colleges of Nursing, Business and Technology, Medicine, Arts and Sciences, and Education.

**Department of Environmental Health
(ENVH)**

Box 70682

Phone: (423) 439-5245

Accredited by: The National Environmental Health Science and Protection Accreditation Council

Statement of Purposes, Goals, and Objectives

The need for a healthful environment is common to all peoples and to all communities. The needs for environmental health services are complex because of changes brought about by economic and technological advances. There is an increasing need for technical personnel in the field of environmental health. The many problems brought about by economic and technological advances require a comprehensively trained specialist in environmental health.

The educational objectives of the department are to provide the student with an opportunity to:

1. Develop an understanding of
 - a. the chemical, biological, physical, and social factors which affect the health of the community;
 - b. relevant concepts from the social and behavioral sciences; and
 - c. the environmental health systems.

2. Become proficient in
 - a. identifying community environmental health needs;
 - b. information collection, storage, retrieval, analysis, and dissemination; and
 - c. environmental monitoring, analysis, and management.
3. Acquire skills in the application of the above techniques and knowledge necessary for solution of environmental health problems.

Degrees and Concentrations

At the undergraduate level the department offers the Bachelor of Science in environmental health degree. The programs leading to this degree are the environmental health concentration, which has a public health orientation, and the occupational health and safety concentration. In addition, the department offers a minor in environmental health and a minor in safety.

Degree Requirements

TBR General Education Requirements 41 Credit Hours

ENGL 1010	Critical Reading & Expository Writing	3
ENGL 1020	Critical Thinking & Argumentation	3
Communication:	Oral Communication*	3
MATH 1840	Calculus	3
BIOL 1110/11	General Biology I Lec/Lab	4
CHEM 1110/11	General Chemistry I Lec/Lab	4
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature*		3
Fine Arts*		3
Humanities*		3
Social and Behavioral Sciences*		6

*See General Education Core Requirements.

Mathematics and Science Requirements 30 Credit Hours

CHEM 1120/21	General Chemistry II Lecture/Lab	4
CHEM 2010/11	Organic Chemistry I Lecture/Lab	5
PHYS 2010	General Physics I-Non-Calculus	3
HSCI 3000	Human Anatomy	4
HSCI 3020	Human Physiology	4
HSCI 3320/21	General Microbiology Lecture/Lab	4
PUBH 3000	Introduction to Biostatistics	3
PUBH 3080	Principles of Epidemiology	3

Environmental Health Requirements 49 Credit Hours

ENVH 3010	Human Ecology and Environmental Education	3
ENVH 3100	Water Supplies & Wastewater Treatment	3
ENVH 3400	Introduction to Air Pollution	3
ENVH 3500	Environmental Safety	3
ENVH 3700	Solid Waste Management	3
ENVH 4000	Public Health Law	3
*ENVH 4080	Environmental Health Practice	3
ENVH 4100	Shelter Environments	3
ENVH 4207	Principles of Radiological Health	3
ENVH 4340	Occupational Health	3
ENVH 4357	Toxicology	3
ENVH 4387	Biological Analysis in Environmental Health	4
ENVH 4397	Environmental Analysis	4
ENVH 4400	Environmental Health Program Planning and Administration	3
ENVH 4607	Food Sanitation Principles	3
ENVH 4610	Soil Science for Environmental Health	2

Total Hours Required for Degree 120 Credit Hours

Note: ENVH 2989, ENVH 3989, or ENVH 4989 will substitute for ENVH 4080.

Note: ENVH 4000 not required for international students.

**Suggested Course Sequences
Environmental Health Concentration**

Freshman Year

Course	Credit Hours	
ENGL 1010	Critical Reading and Expository Writing	3
BIOL 1110/11	Biology I Lecture/Lab	4
Oral Communication		3
Humanities/Fine Arts option		3
Social/Behavioral Sciences option		3
Using Information Technology Challenge Exam		3
Semester Total		16

Course	Credit Hours	
ENGL 1020	Critical Thinking and Argumentation	3
CHEM 1110/11	General Chemistry I Lecture/Lab	4
MATH 1840	Analytic Geometry & Differential Calculus	3
Social/Behavioral Sciences option		3
Semester Total		13

Sophomore Year

Course	Credit Hours	
HIST 2010	The United States to 1877	3
CHEM 1120/21	General Chemistry II Lecture/Lab	4
PHYS 2010	General Physics I	3
ENVH 3010	Human Ecology and Environmental Education	3
Humanities and Fine Arts Elective (Literature)		3
Semester Total		16

Course	Credit Hours	
HIST 2020	The United States Since 1877	3
PUBH 3000	Introduction to Biostatistics	3
HSCI 3320/21	Microbiology Lecture/Lab	4
ENVH 3400	Introduction to Air Pollution	3
Semester Total		13

Junior Year

Course	Credit Hours	
CHEM 2010/11	Organic Chemistry I	5
HSCI 3000	Human Anatomy	4
ENVH 3100	Water Supply and Waste Water Treatment	3
ENVH 3700	Solid Waste Management	3
Semester Total		15

Course	Credit Hours	
HSCI 3020	Human Physiology	4
PUBH 3080	Principles of Epidemiology	3
ENVH 4000	Public Health Law	3
ENVH 4100	Shelter Environments	3
Semester Total		13

Course	Credit Hours	
*ENVH 4080	Environmental Health Practice	3
Semester Total		3

*Offered in summer only

Senior Year

Course	Credit Hours	
ENVH 4340	Occupational Health	3
ENVH 4357	Toxicology	3
ENVH 4387	Biological Analysis in Environmental Health	4
ENVH 4607	Food Sanitation Principles	3
Humanities/Fine Arts option		3
Semester Total		16

Course	Credit Hours	
ENVH 3500	Environmental Safety	3
ENVH 4207	Principles of Radiological Health	3
ENVH 4397	Environmental Analysis	4
ENVH 4400	Environmental Health Program Planning & Administration	3
ENVH 4610	Soil Science for Environmental Health	2
Semester Total		15
Total		120

Concentration: Occupational Health and Safety

TBR General Education Requirements 41 Credit Hours

ENGL 1010	Critical Reading & Expository Writing	3
ENGL 1020	Critical Thinking & Argumentation	3
Communication:	Oral Communication*	3
MATH 1840	Analytic Geometry & Differential Calculus	3
BIOL 1110/11	General Biology I Lecture/Lab	4
CHEM 1110/11	General Chemistry II Lecture/Lab	4
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature*		3
Fine Arts*		3
Humanities*		3
Social and Behavioral Sciences*		6

*See General Education Core Requirements.

Mathematics and Science Requirements 40 Credit Hours

CHEM 1120/21	General Chemistry II Lecture/Lab	4
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CHEM 2010/11	Organic Chemistry I Lecture/Lab	5
CHEM 2020/21	Organic Chemistry II Lecture/Lab	5
CHEM 2220/21	Quantitative Analysis Lecture/Lab	4
PHYS 2010/11	General Physics I Lecture/Lab	4
HSCI 3000	Human Anatomy	4
HSCI 3020	Human Physiology	4
HSCI 3320/21	General Microbiology Lecture/Lab	4
PUBH 3000	Introduction to Biostatistics	3
PUBH 3080	Principles of Epidemiology	3

ENVH 4207	Principles of Radiological Health	3
ENVH 4340	Occupational Health	3
ENVH 4357	Toxicology	3
ENVH 4387	Biological Analysis in Env. Health	4
Social/Behavioral Sciences option		3
Semester Total		16
Second Semester		
ENVH 4347	Ergonomics	3
ENVH 4360	Industrial Hygiene Lab	4
ENVH 4397	Environmental Analysis	4
ENVH 4710	Introduction to Hazardous Waste	3
Semester Total		14
Total		120

Occupational Health and Safety

Requirements 39 Credit Hours

ENVH 3400	Introduction to Air Pollution	3
ENVH 3500	Environmental Safety	3
ENVH 4207	Principles of Radiological Health	3
ENVH 4340	Occupational Health	3
ENVH 4347	Ergonomics	3
ENVH 4357	Toxicology	3
ENVH 4360	Industrial Hygiene Laboratory	4
ENVH 4387	Biological Analysis in Envir. Health	4
ENVH 4397	Environmental Analysis	4
ENVH 4500	Fundamentals of OS&H	3
ENVH 4710	Introduction to Hazardous Waste	3
ENVH 4989	Cooperative Education	3

Total Hours Required for Degree 120 Credit Hours

Note: ENVH 2989, ENVH 3989, or ENVH 4989 will substitute for ENVH 4080.

**Suggested Course Sequences
Occupational Health and Safety Concentration**

Freshman Year

First Semester		Credit Hours
ENGL 1010	Critical Reading and Expository Writing	3
BIOL 1110/11	Biology for Science Majors I	4
CHEM 1110/11	General Chemistry I	4
Oral Communication option		3
Semester Total		14

Second Semester		Credit Hours
ENGL 1020	Critical Thinking and Argumentation	3
CHEM 1120/21	General Chemistry II	4
PHYS 2010/11	General Physics I Lecture/Lab	4
Humanities/Fine Arts option		3
Semester Total		14

Sophomore Year

First Semester		Credit Hours
HIST 2010	The United States to 1877	3
MATH 1840	Analytic Geometry & Differential Calculus	3
CHEM 2010/11	Organic Chemistry I	5
Humanities/Fine Arts option		3
Semester Total		14

Second Semester		Credit Hours
HIST 2020	The United States Since 1877	3
CHEM 2020/21	Organic Chemistry II	5
HSCI 3000	Human Anatomy	4
Humanities/Fine Arts option		3
Semester Total		15

Junior Year

First Semester		Credit Hours
CHEM 2220/21	Quantitative Analysis Lecture/Lab	4
PUBH 3000	Introduction to Biostatistics	3
HSCI 3020	Human Physiology	4
Social/Behavioral Sciences option		3
Semester Total		14

Second Semester		Credit Hours
PUBH 3080	Principles of Epidemiology	3
HSCI 3320/21	General Microbiology	4
ENVH 3400	Introduction to Air Pollution	3
ENVH 3500	Environmental Safety	3
ENVH 4500	Fundamentals of Occ. Safety & Health	3
Semester Total		16

Summer Session

Summer Semester		Credit Hours
*ENVH 4989	Cooperative Education	3
Semester Total		3

** Offered summer, fall, or spring semester of either sophomore, junior, or senior year*

Senior Year

First Semester		Credit Hours
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Minor in Environmental Health

The objective in offering this minor is to enable students to find a wider selection of employment opportunities. For example, the students may wish to major in biological sciences, chemistry, criminal justice, physics, geography/geology, health science, technology, and pre-med or pre-engineering. A minor in environmental health will broaden their knowledge and augment their chances of employment in their chosen field. If employment is not available in their chosen field, they may be employed in environmental health/public health protection types of work.

A student with a major in the sciences and a minor in environmental health has an enhanced opportunity of finding employment in some industrial settings. As an example, the chemical industry needs environmental control personnel who are trained in chemistry.

Preprofessional majors, who choose not to or are unable to continue in professional school, will be much better prepared to seek employment within a federal, state, or local public health agency.

Admission Requirements – In addition to meeting the requirements for admission to the university, applicants must apply to the Department of Environmental Health. Students must have an overall GPA of 2.30.

Environmental Health Minor 22 Credit Hours

- A. * PUBH 3080 Principles of Epidemiology, and
ENVH 3040 Environmental Sanitation 6
- B. Select at least one of the following:
* ENVH 4387 Bio. Analysis in Envir. Health, or
* ENVH 4397 Environmental Analysis 4
- C. Select at least two of the following:
ENVH 3100 Water Supplies and Wastewater Treatment
ENVH 3400 Introduction to Air Pollution
ENVH 3700 Solid Waste Management
ENVH 4340 Occupational Health
* ENVH 4607 Food Sanitation Principles 6
- D. At least six hours of other environmental health courses.
These courses must be approved by the Department of
Environmental Health 6

**Note: Prerequisites must be completed prior to enrollment.*

Minor in Safety

The objective of a minor in safety is to allow students in other disciplines to supplement their major knowledge with safety training. For example, students may wish to major in chemistry and minor in safety and thus enhance their chances of being employed in an industry where a strong knowledge of safety programs is needed. Students with the following majors would find a safety minor to be of particular interest: engineering technology, technology, biological sciences, chemistry, criminal justice, and management.

Students minoring in safety should be qualified for a wide variety of employment opportunities with local, state, and federal agencies, as well as with industry. Graduates of this program would be able to offer employers the alternative of hiring an academically qualified safety officer as opposed to the expensive alternative of retraining an employee in safety management.

Admission Requirements – In addition to meeting the requirements for admission to the university, applicants must apply to the Department of Environmental Health.

Safety Minor 20 Credit Hours

- ENVH 3500 Environmental Safety 3

ENVH 4347 Ergonomics	3
PUBH 2030 First Aid and Emergency Care	3
PUBH 3010 Accident Prevention	2
ENTC 4777 Safety Management	3
ENVH Electives	6

Suggested Electives Include:

ENVH 4340 Occupational Health	3
ENVH 4207 Principles of Radiological Health	3
ENVH 4710 Introduction to Hazardous Wastes	3
Cooperative Education	3

The Department of Environmental Health also offers a minor in Emergency/Disaster Response Management. This minor is offered jointly with the Department of Health. Requirements for completion of this minor are listed in the catalog in the Department of Community Health section.

Graduate Study

Admission to the graduate program requires a baccalaureate degree from an accredited institution of higher learning. Majors pursue studies with emphasis in the specialist area or the administrative area. Further information on graduate programs is contained in the Graduate Catalog.

Department of Health Sciences (HSCI)

Box 70673

Phone: (423) 439-4564

The Department of Health Sciences is a multidisciplinary department offering a variety of courses concerning those sciences relevant to or implicating the human body. The department offers the Bachelor of Science (B.S.) degree in Health Sciences. Three concentrations are available, Microbiology with a minor, Microbiology without a minor, and Human Health. In addition, minors in Health Sciences and Microbiology are offered. These courses of study are designed for students who plan to pursue such professions as medicine, dentistry, veterinary medicine, and microbiology. Courses are also offered for students in other disciplines who desire to acquaint themselves with a scientific attitude and the phenomena of living organisms.

Microbiology Concentration (minor required)

During the sophomore year the microbiology major should choose general microbiology and pathogenic microbiology. Frequent advising is necessary to ensure that career objectives are attained.

TBR General Education Requirements 41 Credit Hours

ENGL 1010 Critical Reading & Expository Writing	3
ENGL 1020 Critical Thinking & Argumentation	3
SPCH 1300, 2300, or 2320 (select one)	3
MATH 1530 Probability and Statistics	3
BIOL 1110/11 Biology for Science Majors I Lecture/Lab	4
BIOL 1120/21 Biology for Science Majors II Lecture/Lab	4
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Literature (select one)	3
Fine Arts (select one)	3
Humanities (select one)	3
PSYC 1310 Introduction to Psychology	3
Social and Behavioral Science (select one)	3

Other graduation requirements

CSCI 1100 Using Information Technology	3
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Additional science requirements

CHEM 1110/11 General Chemistry I Lecture/Lab	4
CHEM 1120/21 General Chemistry II Lecture/Lab	4
PHYS 2010/11 General Physics I Lecture/Lab	4
PHYS 2020/21 General Physics II Lecture/Lab	4
CHEM 2010/11 Organic Chemistry I Lecture/Lab	5
CHEM 2020/21 Organic Chemistry II Lecture/Lab	5

Microbiology Core (minor required) 29 Credit Hours

HSCI 3320/21 General Microbiology	4
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HSCI 3510 Pathogenic Microbiology	4
HSCI 3540 Immunology	3
HSCI 4607 Bacterial Physiology	4
HSCI 4770 Virology	4
BIOL 4147/57 Biochemistry of Macromolecules Lec/Lab	3
HSCI 4730 Molecular and Microbial Genetics	3
HSCI Elective	4

Minor and Free Electives 21 Credit Hours

Total Hours Required for Degree..... 120 Credit Hours

Microbiology Concentration (no minor required)

During the sophomore year the microbiology major should choose general microbiology and pathogenic microbiology. Frequent advising is necessary to ensure that career objectives are attained.

TBR General Education Requirements 41 Credit Hours

ENGL 1010 Critical Reading & Expository Writing	3
ENGL 1020 Critical Thinking & Argumentation	3
SPCH 1300, 2300, or 2320 (select one)	3
MATH 1530 Probability and Statistics	3
BIOL 1110/11 Biology for Science Majors I Lecture/Lab	4
BIOL 1120/21 Biology for Science Majors II Lecture/Lab	4
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Literature (select one)	3
Fine Arts (select one)	3
Humanities (select one)	3
PSYC 1310 Introduction to Psychology	3
Social and Behavioral Science (select one)	3

Other graduation requirements

CSCI 1100 Using Information Technology	3
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Additional science requirements

CHEM 1110/11 General Chemistry I Lecture/Lab	4
CHEM 1120/21 General Chemistry II Lecture/Lab	4
PHYS 2010/11 General Physics I Lecture/Lab	4
PHYS 2020/21 General Physics II Lecture/Lab	4
CHEM 2010/11 Organic Chemistry I Lecture/Lab	5
CHEM 2020/21 Organic Chemistry II Lecture/Lab	5

Microbiology Core (no minor required) 27 Credit Hours

HSCI 3320/21 General Microbiology	4
HSCI 3510 Pathogenic Microbiology	4
HSCI 3540 Immunology	3
HSCI 4607 Bacterial Physiology	4
HSCI 4770 Virology	4
BIOL 4147/57 Biochemistry of Macromolecules Lec/Lab	4
HSCI 4730 Molecular and Microbial Genetics	3

Microbiology Electives 23

PUBH 3000 Biostatistics	3
PUBH 3080 Epidemiology	3

Select 17 additional hours from the following list:

HSCI 3000 Human Anatomy	4
HSCI 3020 Human Physiology	4
HSCI 4747 Mycology	4
HSCI 4480 Clinical Parasitology	4
HSCI 2500 AIDS: Biology and Beyond	3
HSCI 4590 Independent Study	1-4
HSCI 4067 Neurology	4
HSCI 4018 Senior Thesis	3

Total Hours Required for Degree..... 120 Credit Hour

The American Society for Microbiology (ASM) program certification requires that the student have at least 20 credit hours in microbiology as broadly defined. In addition to the ASM requirements and a year of Physics (2010-2011, 4 hours; 2020-2021, 4 hours), the National Registry of Microbiologists requires a minimum of one year of work experience before an applicant for registration may take written examinations in general microbiology and in at least two specialty areas. The specialties include both theoretical and applied aspects of pathogenic bacteriology, immunology and serology, parasitology, mycology, virology, and the

combined areas of food, dairy, and sanitation microbiology, or of agricultural and industrial microbiology.

**Suggested Course Sequence (minor required)
Freshman Year**

First Semester		Credit Hours
ENGL 1010	Critical Reading and Expository Writing	3
BIOL 1110/11	Biology I Lecture/Lab	4
CHEM 1110/11	General Chemistry I Lecture/Lab	4
CSCI 1100	Using Information Technology	3
Semester Total		14

Second Semester		Credit Hours
ENGL 1020	Critical Thinking and Argumentation	3
BIOL 1120/21	Biology II Lecture/Lab	4
CHEM 1120/21	General Chemistry II Lecture/Lab	4
SPCH 1300, 2300, or 2320 (Communication Requirement)		3
Semester Total		14

Sophomore Year

First Semester		Credit Hours
CHEM 2010/21	Organic Chemistry I Lecture/Lab	5
HSCI 3320/21	General Microbiology Lecture/Lab	4
MATH 1530	Probability and Statistics	3
HIST 2010	The United States to 1877	3
Semester Total		15

Second Semester		Credit Hours
CHEM 2020/21	Organic Chemistry II Lecture/Lab	5
HSCI 3510	Pathogenic Microbiology	4
HIST 2020	The United States Since 1877	3
Fine Arts (select one)		3
Semester Total		15

Junior Year

First Semester		Credit Hours
HSCI 4730	Molecular and Microbial Genetics	3
HSCI 3000	Human Anatomy	4
Minor or Free Elective		3
Literature (select one)		3
Social and Behavioral Science (select one)		3
Semester Total		16

Second Semester		Credit Hours
HSCI 3540	Immunology	3
HSCI 4770	Virology	4
Minor or Free Elective		3
PSYC 1310	Introduction to Psychology	3
Humanities (Select one)		3
Semester Total		16

Senior Year

First Semester		Credit Hours
BIOL 4147/57	Biochemistry of Macromolecules Lec/Lab	5
Minor or Free Elective		4
Minor or Free Elective		3
PHYS 2010/11	General Physics I Noncalculus Lec/Lab	4
Semester Total		16

Second Semester		Credit Hours
Minor or Free Elective		4
HSCI 4607	Bacterial Physiology	4
HSCI 4590	Independent Study	2
PHYS 2020/21	General Physics II Noncalculus Lec/Lab	4
Semester Total		14
Total		120

**Suggested Course Sequence (no minor required)
Freshman Year**

First Semester		Credit Hours
ENGL 1010	Critical Reading and Expository Writing	3
BIOL 1110/11	Biology I Lecture/Lab	4
CHEM 1110/11	General Chemistry I Lecture/Lab	4
CSCI 1100	Using Information Technology	3
Semester Total		14

Second Semester		Credit Hours
ENGL 1020	Critical Thinking and Argumentation	3
BIOL 1120/21	Biology II Lecture/Lab	4
CHEM 1120/21	General Chemistry Lecture/Lab	4
SPCH 1300, 2300, 2320 (Communication Requirement)		3
Semester Total		14

Sophomore Year

First Semester		Credit Hours
CHEM 2010/11	Organic Chemistry I Lecture/Lab	5
HSCI 3320/21	General Microbiology Lecture/Lab	4
MATH 1530	Probability and Statistics	3
HIST 2010	The United States to 1877	3
Semester Total		15

Second Semester		Credit Hours
CHEM 2020/21	Organic Chemistry II Lecture/Lab	5
HSCI 3510	Pathogenic Microbiology	4
HIST 2020	The United States Since 1877	3
Fine Arts (Select one)		3
Semester Total		15

Junior Year

First Semester		Credit Hours
HSCI 4730	Molecular and Microbial Genetics	3

HSCI 3000	Human Anatomy	4
PUBH 3000	Biostatistics	3
Literature (Select one)		3
Social and Behavioral Science (Select one)		3
Semester Total		16

Second Semester		Credit Hours
HSCI 3540	Immunology	3
HSCI 4770	Virology	4
PUBH 3080	Epidemiology	3
PSYC 1310	Introduction to Psychology	3
Humanities (Select one)		3
Semester Total		16

Senior Year

First Semester		Credit Hours
BIOL 4147/57	Biochemistry of Macromolecules Lec/Lab	5
HSCI 4747	Mycology	4
HSCI 2500	AIDS: Biology and Beyond	3
PHYS 2010/11	General Physics I Noncalculus Lecture/Lab	4
Semester Total		16

Second Semester		Credit Hours
HSCI 3020	Human Physiology	4
HSCI 4607	Bacterial Physiology	4
HSCI 4590	Independent Study	2
PHYS 2020/21	General Physics II Noncalculus Lecture/Lab	4
Semester Total		14
Total		120

This concentration will satisfy the university's requirement for a major and a minor field of study. All majors and minors must work in close consultation with their departmental advisors in preparing their schedules. Failure to do so could result in improper scheduling which might require extra coursework. All graduates must complete the General Education Core Requirements as listed in this catalog.

Human Health Concentration

The purpose of the Human Health Concentration is to provide a "human-centric" program with exposure to current concepts, laboratory techniques, and disease prevention/health care recommendations and protocols. Emphases will be placed on anatomy, physiology, disease, and human health. The program is intended for students:

- desiring to enter the health care industry, but uncertain about a specific health discipline
- targeting specific health disciplines, particularly those that require graduate degrees, or
- who complete the concentration as a foundation for technical, managerial, or administrative work in health care and industry.

TBR General Education Requirements 41 Credit Hours

ENGL 1010	Critical Reading & Expository Writing	3
ENGL 1020	Critical Thinking & Argumentation	3
SPCH 1300, 2300, or 2320 (select one)		3
MATH 1530	Probability and Statistics	3
BIOL 1110/11	Biology for Science Majors I Lecture/Lab	4
BIOL 1120/21*	Biology for Science Majors II Lecture/Lab	4
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature (select one)		3
Fine Arts (select one)		3
Humanities (select one)		3
Social and Behavioral Science (select two)		6

*BIOL 1130/31 may be substituted for BIOL 1120/21.

Other graduation requirements

CSCI 1100	Using Information Technology	3
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Major Field Core 16 Credit Hours

CHEM 1110/11	General Chemistry I	4
CHEM 1120/21	General Chemistry II	4
PHYS 2010/11	General Physics I (non-calculus)	4
PHYS 2020/21	General Physics II (non-calculus)	4

Concentration Requirements 40 Credit Hours

HSCI 2500	HIV/AIDS: Biology and Beyond	3
HSCI 3000	Human Anatomy	4
HSCI 3020	Human Physiology	4
HSCI 3030/31	Introduction to Biochemistry and Lab	4
HSCI 3540	Immunology	3
PUBH 3080	Principles of Epidemiology	3
HSCI 4067	Neurology	4
PUBH 3000	Biostatistics	3

ENVH 3010	Human Ecology ENV	3
ENVH 3040	Environmental Sanitation	3
HSCI 3046	Human Genetics	3
HSCI 3006	Microbes and Human Disease	3
Electives	.....	23 Credit Hours
Total Hours Required for Degree.....		120 Credit Hour

Health Sciences Minor

Health Sciences Minor		22 Credit Hours
HSCI 3000	Human Anatomy	4
HSCI 3020	Human Physiology	4
HSCI 3320/21	General Microbiology Lecture/Lab	4
*BIOL 4167/77	Biochemistry of Metabolism	5
Electives	.....	5

**BIOL 4147/4157 may be substituted*

Microbiology Minor

Microbiology Minor		19 Credit Hours
HSCI 3320/21	General Microbiology Lecture/Lab	4
HSCI 3510	Pathogenic Microbiology	4
HSCI 4480	Clinical Parasitology	4
HSCI 4770	Virology	4
HSCI 3540	Immunology	3

Graduate Study – The department also offers the Master of Science in Microbiology. The M.S. is offered as a concentration in the Department of Biological Sciences in the College of Arts and Sciences. Further information on graduate programs is contained in the Graduate Catalog.

**Department of Health Services Administration
(HESA)**

Box 70674

Phone: (423) 439-4346

The Department of Health Services Administration offers the bachelor of science degree (B.S.) in public health with a concentration in health services administration. Students gain the knowledge and skills necessary to become effective health care administrators capable of managing and delivering health services in a variety of settings.

Students completing the health administration concentration with a minor in management and completing an internship at a long-term care facility may take the Tennessee State Licensing Exam for Nursing Home Administrator.

TBR General Education Requirements: 41 Credit Hours

ENGL 1010	Critical Reading & Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
SPCH 2300	Public Speaking	3
MATH 1530	Probability & Statistics	3
HSCI 2010/11	Anatomy & Physiology I Lecture/Lab	4
HSCI 2020/21	Anatomy & Physiology II Lecture/Lab	4
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Literature ¹	.....	3
Fine Arts ¹	.....	3
ECON 2210	Principles of Economics I	3
PHIL 2640	Science and the Modern World	3
PSYC 1310	Introduction to Psychology	3

¹ See General Education Core Requirements.

Public Health Core

Public Health Core		47 Credit Hours
ENVH 3040	Environmental Sanitation I	3
PUBH 1010	Lifetime Behaviors for Healthy Living	3
PUBH 2030	First Aid and Emergency Care	3
PUBH 2750	Medical Terminology	3
PUBH 3000	Biostatistics	3
PUBH 3080	Principles of Epidemiology	3
PUBH 3200	Health Services Administration	3
PUBH 4030	Community Health	3
PUBH 4220	Family Health and Human Sexuality	2
PUBH 4457	Emerging Technology for Health Professions ...	3
PUBH 4607	Gerontology and Health	3
PUBH 4927	Cultural Competence and Spirituality in Health Care	3
PUBH 4850	Field Experience	12

Health Administration Concentration

Health Administration Concentration		15 Credit Hours
PUBH 2100	Health Systems	3
PUBH 3220	Health Services Planning	3
PUBH 3600	Quality & Utilization Assurance	3
PUBH 3950	Principles of Public Health Research	3

Electives (select at least one of the following)

PUBH 3120	Principles & Practices of Public Health Ed	3
PUBH 3950	Public Health Research	3
PUBH 4357	Thanatology	3

Minor

18 Credit Hours
Total Hours Required for Degree..... 121-122 Credit Hours

School of Graduate Studies
P.O. Box 70720**Phone: (423) 439-4221**

The School of Graduate Studies currently offers 15 master's degrees, covering a wide range of academic disciplines, as well as the Education Specialist degree (Ed.S.), the Doctor of Audiology (Au.D.), the Doctor of Education (Ed.D.), the Doctor of Philosophy (Ph.D.), and the Doctor of Science in Nursing (D.S.N.) degrees. In addition to these degree programs, ETSU offers graduate certificates in: Advanced Nursing Practice, Epidemiology, Gerontology, Health Care Management, Business Administration, E-Business, Entrepreneurial Leadership, Archival Studies, and Emerging Technology.

Specific degree and certificate program requirements are found in the Graduate Catalog. Upon completion of the bachelor's degree, a student may take courses in a degree program or as a non-degree graduate. Undergraduates are welcome to apply for admission during their final year of coursework and can be admitted contingent upon completion of the undergraduate degree.

Graduate Program Specialists

Each graduate program or major is represented by a Graduate Program Specialist who is prepared to assist students with all aspects of the graduate process, from admission through graduation. If you have questions or would like to explore options for graduate study, please contact the appropriate program specialist listed below. Non-degree student applications are processed by Ms. Fiona Goodyear, goodyear@etsu.edu, (423) 439-4707.

Mary Duncan	duncanm@etsu.edu (423) 439-4302	Allied Health, Environmental Health, Nursing, Physical Therapy, Public Health, and five (5) certificate programs: Advanced Nursing Practice, Biostatistics, Epidemiology, Gerontology, and Health Care Management
Judy Lawson	lawsonj@etsu.edu (423) 439-6590	M.B.A., Accounting, City Management, Public Administration, all degrees in Educational Leadership and Policy Analysis, Social Work, and three (3) certificate programs: Business Administration, E-Business, and Entrepreneurial Leadership
Robin O'Dell	odell@etsu.edu (423) 439-6148	Counseling, Early Childhood Education, Elementary and Secondary Education, M.A.T., Educational Media and Technology, Physical Education, Reading/Storytelling, Special Education, and Advanced Studies in Teaching and Learning, (RODP)
Gail Powers	powers@etsu.edu (423) 439-4703	Art, Biological Sciences, Chemistry, Clinical Nutrition, English, History, Psychology, Technology, Mathematics, Microbiology, Communications (Professional), Sociology, Liberal Studies, and two (2) certificate programs: Archival Studies and Emerging Technology
Shella Bennett	bennetsg@etsu.edu (423) 439-4708	Audiology, Biomedical Sciences, Computer Science, Speech Pathology, Technology

Application for Graduate Study

Any student wishing to take graduate courses, whether degree seeking or non-degree, may submit a traditional paper application or an electronic application. Paper applications are available in the Graduate Office, located at 309 Burgin Dossett Hall, and will be mailed on request. Electronic applications are available at the Graduate School web site: www.etsu.edu/goldlink.htm

Both paper and electronic formats contain complete instructions and requirements for admission.

Non-Degree Students

Students who wish to take graduate coursework but do not wish to pursue a graduate degree should apply for admission as Graduate Non-Degree students. Graduate Non-Degree classification is limited to those students who have earned a bachelor's degree and who wish to take graduate-level classes. All Graduate Non-Degree applicants must provide official transcripts verifying that they have earned a bachelor's degree from a regionally accredited institution and must receive approval to register from the chair or graduate coordinator of the appropriate department. All questions regarding non-degree status should be directed to Robin O'Dell, (423) 439-6148, odell@etsu.edu.

Advanced Admission for Undergraduates

A senior lacking no more than nine credit hours for graduation at East Tennessee State University may petition to register for graduate courses during the final semester of undergraduate enrollment. The petition form is available in the Graduate Office. The following stipulations apply:

1. Student must be within 9 hours of completion of the undergraduate degree at ETSU.
2. The total course load for a senior enrolled for graduate coursework may not exceed 12 credit hours.
3. Student must meet the undergraduate grade point average required in his or her specific program.
4. Undergraduate degree must be completed during the semester in which the student is allowed to register for graduate work.

Graduate Catalog

The School of Graduate Studies issues a Catalog which includes detailed information about graduate program offerings and requirements for admission. The Catalog is available in hard copy and online. For a hard copy, please send an e-mail to gradsch@etsu.edu or write to the School of Graduate Studies, East Tennessee State University, P.O. Box 70720, Johnson City, TN 37614-1710. The online Catalog is available at: www.etsu.edu/reg/grad-cat-index.htm

Course Descriptions

Code	Course Description	Code	Course Description
ACCT	Accountancy	GEOL	Geology
ADVR	Advertising	GERM	German
AFAM	African and African American	HDAL	Human Development and Learning
ALHE	Allied Health	HIST	History
ALNU	Adult Nursing	HSCI	Health Sciences
ANTH	Anthropology	HUMT	Humanities
APST	Appalachian Studies	IDPH	Interdisciplinary Public Health
ARTA	Art and Design	INTD	Interior Design
ARTH	Art History	INTL	International Studies
ASTR	Astronomy	JAPN	Japanese
BADM	Business Administration	JOUR	Journalism
BASD	Applied Science	LANG	Foreign Languages
BGSD	General Studies	LATN	Latin
BIOL	Biological Sciences	LGST	Legal Studies
BLUE	Bluegrass, Old Time, and Country Music Minor	MATH	Mathematics
BNKC	Banking	MCOM	Mass Communications
BSIS	Interdisciplinary Studies	MEDA	Educational Media/Technology
BSPS	Professional Studies	MGMT	Management
CDIS	Communicative Disorders	MKTG	Marketing
CHEM	Chemistry	MSCI	Military Science
CJCR	Criminal Justice and Criminology	MUSC	Music
CPSC	Cardiopulmonary Science	NTFD	Nutrition and Foods
CSCI	Computer and Information Sciences	PEXS/PHED	Physical Education, Exercise & Sport Sciences
CUAI	Curriculum and Instruction	PHIL	Philosophy
DHYG	Dental Hygiene	PHYS	Physics
DIGM	Digital Media	PHYT	Physical Therapy
DSPW	Developmental Composition	PMNU	Professional Roles/Mental Health Nursing
DWPM	Developmental Math	PSCI	Political Science
DSPR	Developmental Reading	PSYC	Psychology
DSPS	Developmental Study Skills	PUBH	Public Health
ECED	Early Childhood Education	PUBR	Public Relations
ECON	Economics	RADT	Radiologic Technology
EDFN	Foundations in Human Development and Learning	READ	Reading
ELPA	Educational Leadership and Policy Analysis	RELI	Religious Studies
ENGL	English	RTVF	Radio/Television/Film
ENTC	Technology	SALM	Sports and Leisure Management
ENVH	Environmental Health	SCED	Science Education
ENVS	Environmental Studies	SOAA	Sociology and Anthropology
FACS	Family and Consumer Sciences	SOWK	Social Work
FCNU	Family/Community Nursing	STOR	Storytelling
FNCE	Finance	URBS	Urban Studies
FREN	French	WMST	Women's Studies
GEOG	Geography	RODP	Regents Online Degree Program Courses

Academic Affairs
ETSU

ETSU 1000 University Seminar (2 credits)— This course is designed to help students learn about themselves, the university, and learning itself, so they succeed in graduating from ETSU and in achieving their goals beyond college.

Accountancy
ACCT

Note: All accountancy majors and minors must earn a grade of "C" or better in each accounting course. All students enrolled in 4000-level accounting courses must have a declared major. All students enrolling in upper-division (3000-4000 level) College of Business and Technology courses must have junior or senior standing.

ACCT 2010 Principles of Accounting I (3 credits)—*Prerequisite(s): Required freshman math courses as defined by the student's major.* A study of accounting theory and procedures underlying financial statement preparation. Additional topics include accountability, financial auditing, financial statement analysis, and income tax accounting. (fall, spring, summer)

ACCT 2020 Principles of Accounting II (3 credits)—*Prerequisite(s): ACCT 2010.* (A continuation of ACCT 2010) This course is a study of management accounting including costing, cost-volume-profit analysis, budgeting, productivity analysis, capital investment decisions, planning and control, and managerial decision-making in advanced manufacturing environments. Additional topics include accounting information systems and quality control measurements. (fall, spring, summer)

ACCT 3000 Professionalism in Accountancy (3 credits)—*Prerequisite(s): A minimum grade of "C" (2.0) in ACCT 2010; junior standing.* This course emphasizes professional ethics and legal requirements of the accounting profession, report writing, impact of Securities and Exchange Commission and other regulatory agencies, career choices in accountancy, and legal and educational requirements of various professional certifications. (fall, spring)

ACCT 3010 Financial Accounting I (3 credits)—*Prerequisite(s): A minimum grade of "C" (2.0) in ACCT 2010 and ACCT 2020; junior standing.* An advanced study of financial accounting and reporting including historical development, theoretical structure, the accounting process, financial statements, revenue recognition, current asset and liability recognition, and inventory valuation. (fall, spring, summer)

ACCT 3020 Financial Accounting II (3 credits)—*Prerequisite(s): ACCT 3000 and ACCT 3010 with a minimum grade of "C" (2.0); admission to a major.* (A continuation of ACCT 3010) A study of financial accounting theory and practice for recording and reporting plant assets, financial instruments, income taxes, stockholders' equity, earnings per share, and capital maintenance theories. (fall, spring, summer)

ACCT 3090 Administrative Accounting (3 credits)—*Prerequisite(s): ACCT 2020; junior standing.* The study of accounting as it relates to administrative planning and control in the business environment. Topics addressed will include budgeting, responsibility accounting systems, financial statement analysis, and special quantitative decision techniques. NOT FOR ACCOUNTANCY MAJORS OR MINORS (fall, spring)

ACCT 3110 Management Accounting (3 credits)—*Prerequisite(s): ACCT 2020; junior standing.* A study of cost accounting emphasizing job order costing, process costing, capital budgeting, and budget control analysis. (fall, spring, summer)

ACCT 3410 Federal Income Tax Accounting (3 credits)—*Prerequisite(s): ACCT 2020; junior standing.* A study of federal income tax law with emphasis on taxation of individuals with an introduction to taxation of partnerships and corporations. (fall, summer)

ACCT 4010 Advanced Financial Accounting (3 credits)—*Prerequisite(s): ACCT 3020 and admission to a major.* A study of leases, pensions, and application of accounting theory to partnerships, branches, business combinations, consolidated financial statements, installment sales, consignments, and corporate reorganization. (fall, spring, summer)

ACCT 4018 Senior Honors Seminar (1-6 credits)—*Prerequisite(s): ECON 3088 and admission to the College of Business and Technology Honors Program.* A seminar for College of Business and Technology Honors students who are working on senior honors theses or their approved projects. Upon successful completion of the course, students will have demonstrated the ability to complete the research process by creating a written product suitable for submission to the College of Business and Technology faculty.

ACCT 4127 Cost Accounting II (3 credits)—*Prerequisite(s): ACCT 3110.* A study of cost accounting emphasizing managerial cost information for forecasting, planning, control, and behavioral factors.

ACCT 4310 Accounting Information Systems (3 credits)—*Prerequisite(s): ACCT 3020, ACCT 3110, CSCI 1100, and admission to a major.* A study of accounting information systems concepts and applications. Topics include conceptual foundation of AIS, technology of information systems, design processes and concepts, and AIS applications in several functional areas. (fall, spring, summer)

ACCT 4427/5427 Federal Income Taxes II (3 credits)—*Prerequisite(s): ACCT 3410.* (A continuation of ACCT 3410) A study of federal income taxation of partnerships, corporations, trusts, gifts, and estates. (spring)

ACCT 4527/5527 Financial Statement Analysis (3 credits)—*Prerequisite(s): ACCT 2010 or ACCT 5000.* An in-depth study of the methods used to analyze balance sheets, income statements, cash flow statements, and other financial information. The types of analyses studied include ratio analysis, cross-sectional analysis, time-series analysis, and capital market analysis.

ACCT 4610 Auditing Theory and Practice (3 credits)—*Prerequisite(s): ACCT 3020, ACCT 4310, and admission to a major; Corequisite(s): ACCT 4310.* An introduction to the theory, concepts, and principles of auditing, emphasizing audit evidence, audit risk, ethical conduct and legal restrictions, professional standards, audit planning, and audit reports. (fall, spring, summer)

ACCT 4627/5627 Auditing II (3 credits)—*Prerequisite(s): ACCT 4610 or equivalent.* (A continuation of ACCT 4610) Emphasis on the uses of statistical sampling, auditing EDP systems, analytic review techniques and objectives, and methodology of operational auditing.

ACCT 4717 Not-For-Profit Accounting (3 credits)—*Prerequisite(s): Completion of ACCT 3010 and ACCT 3020 with a grade of "C" or better.* Introduces the student to governmental and other not-for-profit entity accounting, in addition to governmental entities, and voluntary health and welfare. (fall, spring, summer)

ACCT 4900 Independent Study in Accountancy (1-3 credits)—*Prerequisite(s): Departmental and college approval.* A course designed for advanced students who, under the direction of a Department of Accountancy faculty member, wish to engage in independent research or an intensive study of subjects not covered in other available courses.

ACCT 4905 Accountancy Internship (3 credits)—*Prerequisite(s): Completed at least six credit hours at the upper-division level in the student's major; junior or senior standing; and a 2.7 (minimum) GPA.* Students are selected through a competitive process for assignments in approved business or public-sector organizations as interns under the supervision of the internship coordinator and field placement supervisors. Students may not earn more than three (3) semester credits for this course, which can be used as a free elective or an elective within a business major with prior approval by the department chair.

ACCT 4957/5957 Topics in Accountancy (1-6 credits)—*Prerequisite(s): Senior or graduate standing and permission of instructor.* This course gives students an opportunity to study special problems and new developments in the field of accountancy.

Graduate Course Listing*For Descriptions and Prerequisite(s) see the Graduate Catalog*

ACCT 5000	Essentials of Accounting	(3 credits)
ACCT 5010	Seminar in Financial Accounting I	(3 credits)
ACCT 5019	Supervised Teaching	(1-3 credits)
ACCT 5050	Health Care Accounting	(3 credits)
ACCT 5110	Seminar in Managerial Accounting	(3 credits)
ACCT 5310	Seminar in Management Advisory Services	(3 credits)
ACCT 5410	Seminar in Taxation	(3 credits)
ACCT 5510	Seminar in Accounting Regulations	(3 credits)
ACCT 5610	Seminar in Auditing	(3 credits)
ACCT 5717	Non-Profit Accounting	(3 credits)
ACCT 5720	Governmental Accounting Issues	(3 credits)
ACCT 5810	Seminar in International Accounting	(3 credits)
ACCT 5890	Professional Accounting Experience	(3 credits)
ACCT 5900	Independent Study in Accountancy	(1-3 credits)

Advertising**ADVR**

ADVR 2070 Advertising Graphics (3 credits)—Fundamentals and practice in the creation and production of advertising communication using computer technology.

ADVR 3240 Advertising Principles (3 credits)—Advertising fundamentals in relation to the media and business activities. Stress on communications aspects of advertising.

ADVR 3250 Advertising Copy and Layout (3 credits)—*Prerequisite(s): ADVR 3240 and a grade of "C" or better in ADVR 2070.* Instruction and practice in preparing advertising copy and layouts for presentation to potential customers. Ideas and their translation into persuasive words and pictures for both print and broadcast media.

ADVR 3260 Radio/TV Advertising (3 credits)—*Prerequisite(s): RTVF 2600 or ADVR 3240.* The role of the radio and television industry as an advertising medium with a study of its organization, agencies, principles, and practices in the techniques of advertising campaigns.

ADVR 3270 Advertising Media Planning (3 credits)—*Prerequisite(s): ADVR 3250 or consent of instructor.* Instruction in fundamental concepts of media-buying decisions, including media arithmetic, creative strategy, and vehicle selections.

***ADVR 3750 Advertising Campaign Management (3 credits)**—*Prerequisite(s): ADVR 3270.* Instruction in planning and implementing the complete advertising campaign. Stresses managerial practices of setting objectives, creative and media strategies, budgeting, measuring effectiveness, and dealing with agencies.

NOTE: Students cannot receive credit for both ADVR 3750 and MKTG 3750.

ADVR 4018 Honors Thesis (3 - 6 credits)—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

ADVR 4080 Advertising Internship (3 credits)—*Prerequisite(s): Permission of instructor.* Supervised professional experience in advertising.

ADVR 4101 Topics in Advertising (1-6 credits)

ADVR 4250 Advertising Agency Management (3 credits)—*Prerequisite(s): ADVR 3270.* Instruction in the decision-making processes of advertising agency managers. Current social, legal and ethical issues, advertising agency relations, and agency management. Students will generate alternatives and develop solutions using case study methods.

ADVR 4900/5900 Independent Study—Advertising (1-3 credits)

* Cross-listed with MKTG 3750

Graduate Course Listing*For Descriptions and Prerequisite(s) see the Graduate Catalog*

ADVR 5101	Topics in Advertising	(1-6 credits)
ADVR 5900	Independent Study in Advertising	(1-3 credits)

African and African American**AFAM**

***AFAM 3989 Cooperative Education (3 credits)**—*Prerequisite(s): Permission of program advisor.* Planned and supervised employment related to African/African American Studies.

***AFAM 3999 Cooperative Education (3 credits)**—*Prerequisite(s): Permission of program advisor.* An extension of a planned and supervised employment related to African/African American Studies.

****AFAM 4900 Special Studies (3 credits)**—*Prerequisite(s): Permission of program advisor.* Designed to afford opportunities for study not provided for in regular course offerings for undergraduates.

AFAM 4950 Senior Seminar (3 credits)—*Prerequisite(s): SOAA 3110 and 12 credit hours completed in African and African American Studies.* An integrated interdisciplinary study of a selected topic in African and African American Studies. Requires a student research study.

* May not be repeated for credit.

** May provide credit for an approved travel-study program or an approved program of independent study.

Allied Health**ALHE**

ALHE 1100 Professional Field Cognate I (1-15 credits)

ALHE 2010 Introduction to Allied Health (2credits)—A course familiarizing the student with the many facets of allied health professions including types of health care professionals, medical ethics, terminology, safety, infection control, and microbiology.

ALHE 2020 Patient Care and Assessment (3 credits)—*Prerequisite(s): Current CPR certification.* This course emphasizes medical techniques and nursing procedures required during medical procedures for allied health majors. Assessment of vital signs, pharmacology, venipuncture, legal implications, and patient and physician rights will be introduced. Agency protocol for the various disciplines will be presented.

ALHE 2100 Professional Field Cognate II (1-15 credits)

ALHE 3010 Allied Health Professionals (3 credits)—The purpose of this course is to serve as a transition course for the student in pursuit of a baccalaureate degree in Allied Health. Theories and concepts of professional allied health practitioners are explored in relationship to their roles in the health care system. The course includes content about practice and expectations of a baccalaureate degree allied health practitioner in a multi-cultural society.

ALHE 4060 Research in Allied Health (3 credits)—This course is intended to enhance the allied health practitioner's skills in the development and interpretation of research. Discussions on various research designs, statistical procedures, sampling techniques, and literature reviews. Assignments inclusive of advanced writing applications and technology utilization will be required.

ALHE 4070 Leadership in Allied Health (3 credits)—This course provides a historical prospective of leadership theory. Various models will be discussed to allow the students to develop their personal leadership style. An analysis of trends in motivational studies, conflict resolution, and organizational change will be conducted. Professional specific knowledge will be reviewed to assure students transition into the health care system. Basic issues concerning human resource management will be included.

ALHE 4900 Independent Study (1-6 credits) Individual or group projects done with permission of and under supervision of faculty. A detailed research paper is required.

Adult Nursing**ALNU**

ALNU 2016 Pathophysiology (4 credits) — *Prerequisites: HSCI 2010/11 and 2020/21 or permission of the department chair.* This course examines the pathophysiology of disease processes throughout the life

span that cause alterations at the molecular, cellular, tissue, and organ levels. (fall, spring, summer)

ALNU 3005 Dosage Calculations (1 credit)—This course focuses on the necessary steps involved in solving clinically oriented calculations. A basic math review includes number systems, conversion of systems, fractions, decimals, ratio and proportion, and percentage. Methods of dosage calculation are included as a prerequisite to solving practical calculation problems for oral, injectable, and intravenous medications. (fall, spring)

ALNU 3010 Pharmacology for Nursing (3 credits)—*Prerequisite(s): ALNU 2016 or permission of Department Chair.* This course focuses on concepts required by nurses to make sound decisions about the administration of pharmacotherapeutic agents. The nursing process is used to discuss pharmacotherapeutic agents in relation to disease prevention and health promotion, health protection, and maintenance. (fall, spring, summer)

ALNU 3030 Foundations of Nursing Practice (3 credits) – *Prerequisite: Completion of second semester, sophomore courses. Prerequisite or Corequisite: ALNU 3010.* This course introduces the foundations for nursing care of clients’ human needs. Emphasis is placed on independent and interdependent nursing interventions that aid adult clients and families in meeting their needs related to hygiene, mobility, safety, oxygenation, comfort, rest, sleep, and elimination. (fall, spring)

ALNU 3031 Foundations Practicum (4 credits)— *Prerequisite(s): Completion of second semester, sophomore courses; Prerequisite or Corequisite: ALNU 3030.* This course focuses on the development of nursing skills. Students use the concepts of caring, nursing process, critical thinking, and communication to provide nursing care for adults with diverse health needs. (fall, spring)

ALNU 3170 Transition to Professional Practice for Licensed Practical Nurses (3 credits)—*Prerequisite(s): FCNU 2010, FCNU 2030, and PMNU 2020; Prerequisite(s) or Corequisite(s): ALNU 3010 and ALNU 3016.* This course is designed as a transition course for the Licensed Practical Nurse pursuing a baccalaureate degree in nursing. The course focuses on validation and enhancement of previously learned skills, as well as the development of new knowledge and skills for the practice of professional nursing in the 21st century. (fall, spring, summer)

ALNU/FCNU/PMNU 4008 Honors Mentorship in Nursing (1 credit) —*Prerequisite(s): Acceptance into the College of Nursing Honors in Discipline Program.* An individualized course in which the student collaborates with a mentor to create a program of learning that supports academic and professional goals. May be taken twice for credit. (fall, spring)

ALNU/FCNU/PMNU 4018 Nursing Honors Thesis (3 or 6 credits)—*Prerequisite(s): Admission to the College of Nursing Honors in Discipline Program, Honors Mentorship in Nursing, or permission of instructor.* An independent course for the senior-level honors student to complete a thesis suitable for presentation. The written paper will demonstrate scholarship, basic understanding of the research process, and relevance to professional trends and issues. (fall, spring)

ALNU 4040 Care of the Adult (4 credits) — *Prerequisite: Completion of second semester junior courses.* Content of this course covers the nursing care of adults with emphasis on commonly occurring acute health problems. (fall, spring, summer)

ALNU 4041 Care of the Adult Practicum (4 credits) — *Prerequisite or Corequisite: ALNU 4040.* This practicum focuses on the care of a cross section of adults with common and acute health problems emphasizing planning, evaluating, and managing nursing care. (fall, spring, summer)

ALNU 4050 Care of Older Adults (3 credits)—*Prerequisite(s): Completion of second semester, junior courses. Prerequisites or Corequisites: ALNU 4040, ALNU 4041.* Content of this course focuses on the care of the

older adult emphasizing (a) the promotion of health in the elder; (b) restoration and rehabilitation for the ill elder; (c) chronicity and the elder; and (d) palliative measures for the dying client. (fall, spring, summer)

ALNU 4051 Care of the Older Adult Practicum (3 credits) — *Prerequisite or Corequisite: ALNU 4050.* This practicum will focus on the nursing care of the older adult in long-term and community environments emphasizing planning, evaluating, and managing nursing care. (fall, spring, summer)

ALNU 4260 Introduction to Critical Care Nursing (2 credits)— *Prerequisite(s): ALNU 4000, ALNU 4020, ALNU 4021, PMNU 4030, or permission of instructor.* This course presents specific content for care of the critically ill adult, including advanced technology, nursing skills, nursing assessments, and nursing interventions. (fall, spring)

ALNU 4267/5267 Nursing Management of the Critically Ill Adult (3 credits)—*Prerequisite(s): Current R.N. Licensure, or permission of the instructor, an Arrhythmia or Dysrhythmia course.* Comprehensive, systems-based nursing care of the critically ill adult client utilizing the nursing process with emphasis on health maintenance and restoration concepts, client and family psychosocial issues, and ethical-legal issues. Elective (fall, spring)

ALNU 4300 Skills Validation (1 credit)—*Prerequisite(s): Admission to the nursing major.* Selected clinical skills will be reviewed and validated specific to the student’s particular level in the nursing program. May be repeated. Elective (fall, spring)

ALNU 4900 Nursing Independent Study (1-3 credits) (fall, spring)

ALNU 4957/5957 Special Topics in Nursing (1-6 credits)— *Prerequisite(s): Permission of the instructor.* Special topics related to nursing and health care will be presented. Course may include didactic and experiential methods of instruction. May be repeated for credit if course content is significantly different or advanced. Elective (fall, spring)

ALNU/FCNU/PMNU 4989 Cooperative Education in Nursing (1-3 credits)—*Prerequisite(s): Permission of department chair.* This course, with 1-3 credits, as arranged, allows the student to spend time in a career-related work experience. Formal agreements are established by the university and the employer to help students accomplish specific educational outcomes. Course is offered only on a pass/fail basis. Elective

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

ALNU 5009	Health Assessment Throughout the Lifespan	(3 credits)
ALNU 5010	Health Assessment Practicum	(3 credits)
ALNU 5011	Life Span Assessment & Clinical	(2 credits)
	Management: Young & Middle Adults	
ALNU 5012	Life Span Assessment & Clinical	(3 credits)
	Management: Young & Middle Adult Practicum	
ALNU 5013	Life Span Assessment & Clinical	(2 credits)
	Management: Older Adults	
ALNU 5014	Life Span Assessment & Clinical	(3 credits)
	Management: Older Adult Practicum	
ALNU 5016	Pathophysiology for Nursing	(3 credits)
	Diagnoses and Interventions	
ALNU 5018	Advanced Clinical Pharmacology	(3 credits)
ALNU 5021	Case Management	(2 credits)
ALNU 5022	Case Management Practicum	(3 credits)
ALNU 5031	Care of the Older Adult in Structured Settings	(2 credits)
ALNU 5032	Practicum in the Care of the Older	(3 credits)
	Adult in Structured Settings	
ALNU 5038	Advanced Concepts in Pathophysiology	(3 credits)
ALNU 5900	Independent Study	(1-3 credits)
ALNU 5960	Thesis	(1-6 credits)
ALNU 5990	Readings and Research	(1-3 credits)
ALNU 6010	Concept Development in Nursing Practice I	(3 credits)
ALNU 6012	Concept Development in Nursing Practice II	(3 credits)
ALNU 6016	Pharmacology and Therapeutics for Older Adults	(1 credit)
ALNU 6900	Dissertation Seminar	(1 credit)
ALNU 6960	Doctoral Dissertation	(1-12 credits)
ALNU 6990	Readings and Research	(1-3 credits)

Anthropology ANTH

ANTH 1240 Introduction to Cultural Anthropology (3 credits)—A comprehensive examination of the human experience. Major topics include the relationship between biology and culture; cultural diversity; and the cultural evolution of communication, kinship, religion, art, political organization, and foodways.

ANTH 1260 Introduction to Archaeology (3 credits)—Examination of archaeological field techniques, laboratory methods, and requisite federal and state laws. The archaeology of world prehistory is surveyed from the beginnings of the human lineage and the rise of anatomically modern humans through the development of fully agricultural societies.

ANTH 1280 Introduction to Physical Anthropology (3 credits)—An examination of the evolution of humankind focusing on genetic, paleontological, and primatological evidence. Human biological variation is also considered with respect to the dynamics of evolution and the interaction between biology and culture.

ANTH 2040 Folk Culture in the Modern World (3 credits)—An introduction to the major theories, concerns, and methods of modern folklore scholarship with strong emphasis upon field studies of family and regional traditions and the practical applications of folklore research in cultural outreach and public educational programs.

ANTH/BLUE 2150 American Folk Music (3 credits)—A multi-cultural survey of America's diverse ethnic and regional traditions of folk music, how they have been revived and popularized in the twentieth century, and their contributions to contemporary popular culture around the world.

ANTH 3028 Honors Cultural Anthropology (3 credits)—Open to those in the Honors Scholars Program only. An introduction to ethnography and the world of cultural diversity as well as to ethnographic research methods.

ANTH 3070 Medical Anthropology (3 credits)—An introduction to the crosscultural, holistic, and evolutionary study of illness and health. Major topical areas include ethnomedical belief systems, the interaction of biology and culture, and culture as an adaptive mechanism.

ANTH 3080 Nutritional Anthropology (3 credits)—This course examines the biological and social forces that shape human food use and the nutritional status of individuals from an evolutionary and cross-cultural perspective.

ANTH 3250 Environmental Anthropology (3 credits)—Study of the political economy and cultural ecology of global development policies and their social and material impacts for peoples of the world. Special focus will be given to indigenous populations whose lifeways and worldviews are most compromised.

ANTH 3260 Visual Anthropology (3 credits)—An exploration of the impact that technological advances in capturing images on film has made in the field of anthropology. Ethnographic films and associated literature will be investigated.

ANTH 3400 Human Osteology and Paleontology (3 credits)—An intensive survey of the human skeleton, including differences by sex, age, and ethnicity. Study of the evolutionary history of humankind from early hominids to anatomically modern humans.

ANTH 3500 Appalachian Folk Medicine (3 credits)—The study of folk medical beliefs and practices, focusing on Southern Appalachia from the late 1800s to 1940. Topics examined include folk materia medica and therapeutics, magico-religious beliefs and practices, folk healers, folk concepts of illness and human physiology.

ANTH 3903 Prehistory of Southern Appalachia (3 credits)—*Prerequisite or Corequisite: ANTH 1260.* An archaeological survey of 12,000 years of Native American prehistory in Southern Appalachia with particular

focus on highland regions. Students gain exposure to prehistoric archaeology, current research, and analytical methods. Important aspects of material culture and infrastructure are highlighted.

ANTH 4007/5007 Archaeology of the Southeastern United States (3 credits)—Intensive survey of the prehistory of the Southeastern United States. Course covers the span of time from the peopling of the New World, some 13,000+ years ago, up through European contact.

ANTH 4017/5017 Historic Native American Cultures of the Southeastern U.S. (3 credits)—An archaeological survey of the historically known Native American tribes of the Southeastern U.S. Study of native lifeways and the effects of European influence and colonization efforts on aboriginal societies.

ANTH 4018 Honors Thesis (1-6 credits) — Repeatable up to a total of 6 hours. Open only to students in Anthropology. Directed research in an approved topic. Required for departmental honors.

ANTH 4037/5037 Old World Archaeology (3 credits)—*Prerequisite: SOAA 1260.* An intensive survey of the prehistory of Africa, Asia, and Europe from the Palaeolithic Era (including human origins and early hunter gatherer adaptations) through the Iron Age (including the transition to domestication and agriculture as well as the rise of complex societies).

ANTH 4070 Practicing Anthropology (3 credits)—*Prerequisite: ANTH 1240.* This course focuses on the practice of anthropology in real-world settings, including medicine, education, international and community development and business. The course focuses on tools and skills for practicing anthropology as well as establishing a career as an applied anthropologist.

ANTH 4240 Primatology (3 credits) — *Prerequisites: ANTH 1240, 1260, and 1280.* A survey of the study of nonhuman primates, especially the apes. Topics include the evolution of primates, morphology, ecology, social organization, sexual behavior, tool use, play, communication, and protoculture.

ANTH 4250 Ethnomedicine (3 credits)—A cross-cultural and historical examination of medical belief systems, focusing in particular on the context of medical pluralism and culturally competent health care delivery. Medical belief systems examined include Latin American folk medicine, Native American medicine, Chinese traditional medicine, Ayurvedic medicine, Euro-American folk medicine, and biomedicine.

ANTH 4400 Archaeological Field School (3-6 credits) — Field work intensive course designed to introduce students to archaeological excavation methods. Students will learn to map, recover, catalog, and process archaeological artifacts. The significance and context of archaeological investigations will be addressed.

ANTH 4567/5567 Scottish Ethnology (3 credits)—*Prerequisites: ANTH 1240 or APST 2010.* A survey of Scottish ethnic and regional groups and their folk traditions. Topics covered include life history, material culture, subsistence patterns, folk narrative, and beliefs and customs.

ANTH 4630 Native American Culture in Contemporary Society (3 credits)—An introduction to Native American populations of the United States. Classical anthropological study of indigenous mythologies and pre-contact traditions will be addressed, as well as contemporary issues of poverty, health, public policy, and pan-Indianism.

ANTH 4830 Anthropological Theory (3 credits) — *Prerequisites: ANTH 1240, 1260, and 1280.* An examination of the historical development of anthropological theory from the late nineteenth century to the present.

ANTH 4957/5957 Special Topic in Anthropology (1-6 credits)
Appalachian Studies
APST

APST 2060 Introduction to Appalachian Studies (3 credits)—An introduction to the study of the Appalachian region, focusing on the idea of Appalachia in American and world consciousness and its treatment

in the social sciences, media, literature, and the arts. Required for Appalachian Studies minor.

APST 3530 Religion in Appalachia (3 credits)—This course will survey the diversity of religions in Appalachia both historically and currently.

APST 4177/5177 Art and Appalachia (3 credits)—*Prerequisite(s): ARTH 2010 or 2020 or APST 2060 or permission of the instructor.* A survey of major styles and trends in the arts created in, for, and about the Appalachian region from the late 18th century to contemporary times.

APST 4237/5237 Scots-Irish in Appalachia (3-6 credits)— This course will examine the contribution of the Scots-Irish and Scots to Appalachian culture.

APST /ENGL 4337/5337 Appalachia in Scotland (3-6 credits)— This course will survey the relationship among Appalachian, Scottish, and Irish cultures, with an emphasis on Scotland and Ireland.

APST/SOAA 4567/5567 Scottish Ethnology (3 credits)—A survey of Scottish ethnic and regional groups and their folk traditions. Topics covered include life history, material culture, subsistence patterns, folk narrative, and beliefs and customs.

APST/SOAA 4907/5907 Appalachian Foodways (3 credits)— Traditional and developing food cultures of the Mountain South. Topics include: the historical roots of Appalachian cookery; food and class in Appalachia; Native American and African influences on mountain cuisine; immigrant cooking in the mountains; the rituals of the mountain table; the products of the land and larder; traditional food preservation techniques and beliefs; and the emergence and viability of sustainable agriculture and aquaculture.

APST 4997/5997 Current Issues in Appalachian Studies (3 credits)—Seminar surveying major issues and concerns in Appalachian Studies since the 1970's. Required for Appalachian Studies minor.

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

APST 5150	Appalachia and Religion	(3 credits)
APST 5690	Documenting Community Traditions	(3 credits)

Art and Design

ARTA

ARTA 1110 2-D Design (3 credits)—A fundamental exploration of the elements of two-dimensional art (line, shape, texture, value, and color) and their relationship to the principles of design (balance, rhythm, variety, and unity). Stress is placed on visual thinking through the use of problem-solving structures.

ARTA 1140 3-D Design (3 credits)—An examination of three-dimensional forms in order to gain a spatial understanding of the elements and principles as applied in design. An exploration in the media, processes, and applications of three-dimensional concepts.

ARTA 1201 Drawing Fundamentals (3 credits)—An introductory drawing course based primarily on direct observation techniques, analysis, basic pictorial composition, and spatial organization. An exploration of a variety of subject matter, media, processes, and attitudes as related to drawing and the visual arts.

ARTA 1204 Color Theory (3 credits)—*Prerequisite(s): ARTA 1110 or ARTA 1201; or permission of instructor.* An introduction to the basic principles of color theory as related to the visual arts to include both additive and subtractive color systems. An exploration of a variety of media and processes which stresses the use of a problem-solving structure.

ARTA 2012 Intermediate Drawing (3 credits)—*Prerequisite(s): ARTA 1110, ARTA 1140, ARTA 1201, ARTA 1204, or permission of the instructor.* A course based on the observation of various subject matters and their representation through various drawing materials. Emphasis on colored drawing and more complex pictorial and spatial problems. Nonobjective and abstract problems will be included. Development of individual responses will be encouraged.

ARTA 2051 Foundations in Painting (3 credits)—*Prerequisite(s): ARTA 1110, ARTA 1140, ARTA 1201, or permission of instructor.* An introductory course with an emphasis on a variety of materials, techniques, and approaches.

ARTA 2071 Beginning Weaving (3 credits)—An introduction to floor-loom weaving through the study of basic two and four harness weaves, fiber types, and color relationships. Emphasis on the development of technical skills, color, and design.

ARTA 2081 Beginning Jewelry Design and Metalsmithing (3 credits)—*Prerequisite(s): ARTA 1140.* Basic techniques and concepts of jewelry design and construction.

ARTA 2091 Introduction to Ceramics (3 credits) —This introductory course explores the nature of clay and its unique possibilities for artistic expression through hand building projects and a variety of firing methods. Ceramic history is emphasized and basic technical information is covered.

ARTA 2120 Basic Figure Drawing (3 credits)—*Prerequisite(s): ARTA 1110, ARTA 1201, ARTA 1204, or permission of instructor.* An introductory course in drawing in human figure to emphasize observation, proportion, and a more intuitive approach to human anatomy. Students will work directly from the skeleton and models to analyze the figure and explore a variety of media and pictorial problems.

ARTA 2128 Artistic Experience II (3 credits)—*Prerequisite: THEA 2118.* This course covers the variety of critical thinking that can be utilized in the appreciation of many different types of the arts. An emphasis is placed on challenging the notion that art is unrelated to other disciplines. May involve historical, analytic, or creative activity. Open only to students in the Honors Scholars Program.

ARTA 2200 Basic Photography (3 credits)—Introductory course in black and white photography. The course will cover basic photographic techniques and darkroom procedures from the taking of the picture to the finished print. Each student should have a camera that can be used in the course.

ARTA 2210 Introductory Printmaking (3 credits)—*Prerequisite(s): ARTA 1110, ARTA 1201, and ARTA 1204.* An introduction to basic intaglio and relief processes, including line etch, aquatint, linocut, dry point, color registration, editioning, small press operation, use of hand tools, use of grounds, general shop procedure, and aesthetic development.

ARTA 2401 Commercial Art/Graphic Design I (3 credits)—*Prerequisite(s): ARTA 1110, ARTA 1140, or permission of instructor.* An introductory studio course in the design and reproduction of commercial art and visual communications.

ARTA 2501 Introduction to Sculpture (3 credits)—*Prerequisite(s): ARTA 1140.* An introduction to sculptural techniques and concepts, including figure study, abstraction, work with clay, wood, plaster, mixed media, and site specific sculpture. Slide lectures covering historical and contemporary approaches to sculpture will be an ongoing component.

ARTA 2916 Works in Progress Review (0 credit)—*Prerequisite(s): Completion of 35 credit hours in art.* Students pursuing the BFA degree (Bachelor of Fine Arts) must complete a portfolio review prior to acceptance in the BFA program and completion of the degree requirements. Review of portfolio work will be completed by a committee of faculty members from within the department. Date and time for the individual review will be announced each semester. Students must complete the review after accumulating 36 art credits and before accumulating 45 art credits.

ARTA 2957 Topics in Art (1-6 credits)

ARTA 2989 Cooperative Education (1-3 credits)

ARTA 3010 Advanced Drawing (3 credits)—*Prerequisite(s): ARTA 2012, ARTA 2120, or permission of instructor.* A visual investigation of

advanced concepts in drawing with further exploration of traditional and nontraditional subject matter and materials. Students will work toward thematic development through small series and will be encouraged to develop personal iconography.

ARTA 3071 Intermediate Weaving II (3 credits)—*Prerequisite(s): ARTA 2071 or by permission of instructor.* A study of intermediate multi-harness weaving techniques to include complex pattern weaves, twills, and doubleweave. Focus on functional or fine art application while emphasizing technical skill and craftsmanship, experimentation, color, and design.

ARTA 3072 Intermediate Weaving III (3 credits)—*Prerequisite(s): ARTA 2071 and ARTA 3071; or by permission of the instructor.* This course explores the image-making potential of the woven textile including inlay, tapestry, and brocade. Painted and ikat-dyed advanced considerations of color, design, construction, and finishing techniques.

ARTA 3073 Fiber Construction (3 credits)—Off-loom textile processes explore three-dimensional form in fiber using traditional and non-conventional materials. Emphasis on the development of technical skills, form, and concept.

ARTA 3081, 3082 Intermediate Jewelry Design and Metalsmithing (3 credits)—*Prerequisite(s): ARTA 1140 and ARTA 2081.* Intermediate techniques including fabrication, stone setting, casting, forging, raising, and jewelry design. May be repeated for credit one time.

ARTA 3091 Beginning Throwing (3 credits)—This is a beginning course in ceramics. It concentrates on the potter's wheel as a major tool. It deals with the vessel in traditional and nontraditional format.

ARTA 3092 Intermediate Ceramics (3 credits)—*Prerequisite(s): ARTA 3091.* An intermediate course in ceramics. Forming techniques will be used in combination. There will be lectures on clays, glazes, and firing techniques.

ARTA 3110 Intermediate Painting (3 credits)—*Prerequisite(s): ARTA 2051 or permission of the instructor.* A course that concentrates on building color relationships and visual clarity.

ARTA 3120 Life Painting (3 credits)—*Prerequisite(s): ARTA 2051, ARTA 3110, or permission of instructor.* An oil painting course with an emphasis on selecting subject matter, painting from nature, still life, and the figure.

ARTA 3130 Watercolor Painting (3 credits)—Broad range of problems and techniques.

ARTA 3147 Advanced Watercolor Painting (3 credits)—Advanced projects in watercolor.

ARTA 3201 Intermediate Figure Drawing (3 credits)—*Prerequisite(s): ARTA 2120 or permission of the instructor.* An additional exploration of the figure and its expressive potential with advanced analysis of human anatomy including musculature and surface features. Ink and color drawing will be emphasized along with expanded problem solving.

ARTA 3211 Lithography (3 credits repeatable)—*Prerequisite(s): ARTA 1110, ARTA 1140, ARTA 1201.* A creative exploration of basic plate and stone lithography, utilizing crayon and tusche materials, etching techniques, stone graining, small press operation registration, and editioning.

ARTA 3221 Screen Process (3 credits repeatable)—*Prerequisite(s): ARTA 1110, ARTA 1201, and ARTA 1204.* A creative exploration of serigraphy, use of screen construction, photo stencil and other stencil methods, color theory review, multiple registration, editioning, with optional digital output applications.

ARTA 3301 Intaglio (3 credits repeatable)—*Prerequisite(s): ARTA 2210.* A continuation of the intaglio processes learned in ARTA 2210, students may choose from a variety of plate processes, including line etching, photo plates, plate engraving, marbling and experimental processes.

ARTA 3341 Relief Printmaking (3 credits repeatable)—*Prerequisite: ARTA 2210.* This course is primarily an exploration of the linocut process, using a multiple registration of colors. Other options of study may include woodcut, wood engraving, surface etching, or collography.

ARTA 3380 Color, Fiber, and Dye (3 credits)—*Prerequisite(s): ARTA 1204.* An investigation of dye color applications to fiber and fabric using chemical dyes with cellulose, protein and synthetic fibers. Emphasis on the development of technical skills and color. Course repeatable for credit.

ARTA 3401 Typography (3 credits)—A studio course in typography for graphic design. Design projects explore type form and content relationships. Projects emphasize type design, page layout, and font manipulation to bring visual resonance to a written message. The course explores creative uses of type with graphic design software.

ARTA 3402 Commercial Art (3 credits)—*Prerequisite(s): ARTA 2401 and ARTA 3401.* A studio course devoted to the design and preparation of two-dimensional materials for commercial reproduction.

ARTA 3501 Intermediate Sculpture (3 repeatable)—*Prerequisite(s): ARTA 2501.* Continued development of sculptural techniques and concepts, including metal fabrication and casting, stone carving, and work of the student's choice. Students will complete several projects.

ARTA 3502 Intermediate Sculpture (3 repeatable)—*Prerequisite(s): ARTA 2501.* Continued development of sculptural techniques and concepts. Students will complete several projects.

ARTA 3601 Intermediate Photography (3-9 repeatable)—*Prerequisite(s): ARTA 2200 or permission of instructor.* Projects in black and white photography above the basic level, concerning natural lighting, darkroom, composition, camera and lens, processing, and special effects. The emphasis is on visual communication.

ARTA 3602 Color Photography (3 repeatable)—*Prerequisite(s): ARTA 2200 or permission of the instructor.* Projects in color transparency and color print materials concerning learning the technical and aesthetic aspects of the photographic color medium. Students will do all their own processing with total control as the goal.

ARTA 3603 Alternate Photographic Processes (3 repeatable)—*Prerequisite(s): ARTA 2200 or permission of instructor.* Emphasis on the design elements in photography. Experience in high contrast materials, solarization, and print manipulation, as well as non-silver materials. Emphasis on exploration of the creative possibilities of the medium.

ARTA 3989 Cooperative Education (1-3 credits)

ARTA 4002 Graphic Design (3 repeatable)—*Prerequisite(s): ARTA 2401.* The Graphic Design Workshop: Students work with clients on actual graphic design assignments receiving practical experience in account management and production to provide a foundation for professional practice.

ARTA/ARTH 4018 Honors Thesis (3-6 credits)—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

ARTA 4071 Advanced Fibers I (3 repeatable)—*Prerequisite(s): ARTA 2071, ARTA 3071 and ARTA 3072; or by permission of the instructor.* Students work independently while developing an individual direction. Technical, aesthetic, and conceptual input will be structured toward individual needs. Professional practices within the independent studio or for industry will be addressed.

ARTA 4072 Advanced Fibers II (3 repeatable)—*Prerequisite(s): ARTA 2071, ARTA 3071, ARTA 3072, and ARTA 4071; or by permission of instructor.* Continuation of ARTA 4071

ARTA 4073 Fabric Design (3 repeatable)—*Prerequisite(s): ARTA 1204.* An introduction to applied textile design. Hand-printed and dyeing techniques include stamping, block-printing, tie-dye/shibori discharge,

and other techniques to develop imagery and color/pattern relationships on fabric.

ARTA 4081, 4082 Jewelry and Metalsmithing (3 credits)—Advanced courses in metal techniques and jewelry design.

ARTA/ARTH 4107/5107 Art Study Tour (1-3 credits, variable)—This course is designed to acquaint the student with original works of art. The lecture series is followed by a trip to selected museums in the United States and/or Europe.

ARTA 4110 Combined Media Painting (3 credits)—*Prerequisite(s): ARTA 2051, ARTA 3110, ARTA 3120, or permission of the instructor.* Painterly approaches to alternative methods and techniques in image-making. A focus on concept, visual communication, and craftsmanship. (Course Repeatable for Credit.)

ARTA 4120 Figure Painting (3 credits)—*Prerequisite(s): ARTA 2051, ARTA 3110, ARTA 3120, ARTA 2120 or permission of the instructor.* A studio course in oil painting utilizing traditional, as well as contemporary, approaches to the human figure. (Course Repeatable for Credit.)

ARTA 4201 Advanced Figure Drawing (3 repeatable)—*Prerequisite(s): ARTA 2120 and ARTA 3201; or permission of the instructor.* An advanced course in the study of the human form. Emphasis is placed on individual expressive content using the figure as a point of departure.

ARTA 4202 Mixed Media Drawing (3 repeatable)—*Prerequisite(s): ARTA 2012 or ARTA 2120; and ARTA 3010; or permission of the instructor.* A focus on alternative drawing methods and formats emphasizing combined media. Advanced studies in content and visual communication with special emphasis on contemporary drawing directions.

ARTA 4211 Advanced Lithography (3 credits repeatable) —*Prerequisite(s): ARTA 2210, ARTA 3211.* A continuation of ARTA 3211, with options to explore color printing, and experimental lithographic processes.

ARTA 4217/5217 Book Arts (3 credits)—A course exploring adhesive and nonadhesive book formats. Emphasis is placed on a book as a complete format of cover, text, and image. Paper decoration, books as sculptural objects, and time-based directions will be addressed.

ARTA 4221 Advanced Screen Process (3 credits repeatable)—*Prerequisite(s): ARTA 2210, ARTA 3221.* A continuation of ARTA 3221, with options to explore experimental stencil techniques.

ARTA 4271 Advanced Ceramics I (3 credits)—*Prerequisite(s): ARTA 2091, ARTA 3091, ARTA 3092.* Advanced class which will allow students to work on special problems and techniques on an individual basis. It will also include lectures on clay, glazes, and firing techniques.

ARTA 4272 Advanced Ceramics II (3 credits repeatable)—*Prerequisite(s): ARTA 2091, ARTA 3091, ARTA 3092, and ARTA 4271.* (A continuation of ARTA 4271) Emphasizing individual direction, expression, and work at an advanced level.

ARTA 4273 Technical Ceramics (3-9 repeatable)—*Prerequisite(s): ARTA 2091 and, ARTA 3091.* This course deals with the technical considerations of ceramics: clay, glazes, firing techniques, kilns, raw materials, testings, and special firings. It will be a lecture format course with lab work.

ARTA 4301 Displays and Package Design (3 credits)—*Prerequisite(s): ARTA 3401, ARTA 3402, or permission of instructor.* An advanced studio course in the design, construction, and aesthetics of product packaging and three-dimensional visual displays. Projects in this course will emphasize graphic design concepts and processes to create visual identity and branding for containers and promotional structures.

ARTA 4302 Illustration (3 repeatable)— *Prerequisite(s): ARTA 2401 or permission of instructor.* An advanced studio course in contemporary illustration techniques for solving visual communication design problems.

Projects develop conceptual thinking, drawing, and illustration software skills.

ARTA 4303 Computer Art and Design (3 repeatable)—*Prerequisite(s): ARTA 2401, ARTA 3401, ARTA 3402, or permission of the instructor.* An advanced studio course which focuses on the computer as a creative tool for visual communication problem-solving. Course emphasizes computer methods for solving graphic design problems and the development of computer skills in creating art, design, and illustration.

ARTA 4330 Elementary School Art (2-3 credits)—Required course for all elementary education majors. Should be taken in the junior year. ARTA 4330 is required of all students desiring certification in art. The courses include art media experiences and art appreciation.

ARTA 4401 Advanced Intaglio (3 repeatable)—*Prerequisite(s): ARTA 2210, ARTA 3301.* A continuation of ARTA 3301, with advanced work in plate etching, experimental grounds, mixed processes, and optional innovative processes not covered in other printmaking courses.

ARTA 4419 Teaching Art in Secondary Schools (3 credits)—A study of the aims, philosophy, and curricula of the secondary school art program based on an examination of available literature. Required for certification in art. No course substitutions. This course counts as education credit and cannot be used to meet the art course requirement for a minor or major in art. At the beginning of the course the student will submit a portfolio of his/her art works to the art education faculty for review.

ARTA 4501 Advanced Sculpture (3 repeatable)—*Prerequisite(s): ARTA 3501 or ARTA 3502.* Students develop work on an individual basis, working on specific problems and processes developed in consultation with the instructor. Both creative thinking and technical skills will be emphasized.

ARTA 4502 Advanced Sculpture (3 repeatable)—*Prerequisite(s): ARTA 3501 or ARTA 3502.* Continued advanced work in sculpture, emphasizing personal direction and self-motivation in sculpture, both technically and conceptually.

ARTA 4602 View Camera Photography (3 repeatable)—*Prerequisite(s): ARTA 3601 or permission of instructor.* An advanced course using 4 x 5 or 8 x 10 view cameras, furnished to students enrolling in this course for its duration, concerning techniques, the zone system, and development of professional quality.

ARTA 4603 Introduction to Studio Photography (3 repeatable)—*Prerequisite(s): ARTA 2200, ARTA 3601, or permission of instructor.* Basic studio lighting techniques. Projects concerning portrait, fashion, and product lighting. Work toward professional quality.

ARTA/ARTH 4901-02 Independent Study in Sculpture (1-6 repeatable)—*Prerequisite(s): ARTA 3502 or ARTA 3502.* Independent Studies in studio printmaking, photography, metalsmithing, jewelry design, ceramics, sculpture, weaving, drawing, painting, graphic design, art history, art education, and internship in premed illustration.

ARTA 4912 Independent Studies in Photography (1-6 credits repeatable)

ARTA 4915 Independent Studies in Weaving (1-6 credits repeatable)

ARTA 4916 Portfolio and Exhibit (1-3 credits variable)—*Prerequisite(s): ARTA 2916.* The B.F.A. student takes this course in the last semester before graduation. The course is designed to allow the student to prepare a portfolio for the job market and to prepare work for the final required undergraduate B.F.A. exhibition in the department gallery. Students will take this course with a professor in the area of concentration, and provide the Art Department with slides of their exhibition materials.

ARTA/ARTH 4957/5957 Special Topics in Art (1-6 credits)

ARTA 4989 Cooperative Education (1-3 credits)

Art History ARTH

ARTH 2010 Art History Survey I (3 credits)—A survey of architecture, painting, sculpture, and the minor arts in the Western world from prehistoric times to the end of the Middle Ages.

ARTH 2020 Art History Survey II (3 credits)—A survey of architecture, sculpture, and painting in the Western world from the Italian Renaissance to the present.

ARTH 3403 History of Graphic Design—A survey of visual communication/graphic design from prehistory through current graphic design methods, styles, and industry-leading designers.

ARTH 4017/5017 Classical Art (3 credits)—A survey of the arts of Greece and Rome. Offered in alternate years.

ARTA/ARTH 4018 Honors Thesis (3-6 credits)—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

ARTH 4027/5027 Medieval Art (3 credits)—A survey of European architecture, sculpture, and painting from Late Antiquity to the end of the Gothic period. Offered in alternate years.

ARTH 4037/5037 Renaissance Art (3 credits)—A survey of European art from 1300 to 1600 with emphasis on Italian and Flemish art. Offered in alternate years.

ARTH 4047/5047 Baroque Art (3 credits)—A survey of the major styles of European art from 1600 to 1750: Baroque, Classicism, Realism, and Rococo. Offered in alternate years.

ARTH 4057/5057 19th Century Art (3 credits)—A survey of the major styles and trends in art from Neoclassicism to Postimpressionism. Offered in alternate years.

ARTH 4067/5067 Modern Art (3 credits)—Major developments in painting and sculpture and other art forms from Postimpressionism through Surrealism. Offered every fall semester.

ARTH 4077/5077 Contemporary Art (3 credits)—A survey of art from Surrealism to the present day. Offered every spring semester.

ARTH 4087/5087 Asian Art (3 credits)—A study of the arts of India, China, and Japan.

ARTH 4097/5097 Art History, Theory, and Criticism (3 credits repeatable)—An investigation of aesthetic theories as they relate to the practices of art history and art criticism, with an emphasis on contemporary approaches and recent philosophical developments.

ARTA/ARTH 4107/5107 Art Study Tour (1-3 credits, variable)—This course is designed to acquaint the student with original works of art. The lecture series is followed by a trip to selected museums in the United States and/or Europe.

ARTH 4117/5117 Women Artists and Their Art (3 credits) — *Prerequisites:* ARTA or ARTH 2020, WMST 2010, or permission of the instructor. This course examines the contributions of women artists throughout history and addresses the question of why women's art has been ignored or denigrated in the study and criticism of art. It also considers how women overcame social, educational, and legal obstacles to become professional artists.

ARTH 4127/5127 History of Architecture (3 credits) — *Prerequisites:* ARTH 2010 and ARTH 2020 or permission of instructor. A detailed and critical survey of the history of architecture, from pre-history to the present day, including both western and non-western architecture.

ARTH 4177/5177 Art and Appalachia (3 credits)—*Prerequisites:* ARTH 2010 or 2020 or APST 2060 or permission of the instructor. A survey of major styles and trends in the arts created in, for, and about the Appalachian region from the late 18th century to contemporary times.

ARTH 4601 History of Photography (3 credits)—Exploring the history of photography from its beginning to the present day.

ARTA/ARTH 4901-02 Independent Study in Sculpture (1-6 repeatable)—*Prerequisite(s):* ARTA 3502 or ARTA 3502. Independent Studies in studio printmaking, photography, metalsmithing, jewelry design, ceramics, sculpture, weaving, drawing, painting, graphic design, art history, art education, and internship in premed illustration.

ARTA/ARTH 4957/5957 Special Topics in Art (1-6 credits)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog.

ARTA 5061	Metalsmithing and Jewelry Design	(1-6 credits repeatable)
ARTA 5110	Ceramics	(1-6 credits repeatable)
ARTA 5130	Painting	(1-6 credits repeatable)
ARTA 5140	Photography	(1-6 credits repeatable)
ARTA 5160	Sculpture	(1-6 credits repeatable)
ARTA 5170	Weaving	(1-6 credits repeatable)
ARTA 5200	Drawing	(1-6 credits repeatable)
ARTA 5220	Field Experience in Art Education	(3 credits)
ARTA 5330	Elementary School Art Teaching Methods	(3 credits)
ARTA 5340	Teaching Art in the Secondary School	(3 credits)
ARTA 5350	Graphic Design	(1-6 credits repeatable)
ARTA 5430	The Supervision of Art	(3 credits)
ARTA 5440	History and Philosophy of Art Education	(3 credits)
ARTA 5901/02	Independent Studies in Graduate Art	(1-6 credits repeatable)
ARTH 5910	Independent Studies in Art History	(1-6 credits repeatable)
ARTA 5911	Printmaking	(1-6 credits repeatable)
ARTA 5950	Methods of Research	(3 credits)
ARTA 5960	Thesis	(3 credits)
ARTH 5960	Thesis	(3 credits)
ARTA 5990	Readings and Research	(1-3 credits)

Astronomy

ASTR

ASTR 1010 Astronomy I (4 credits)—An introductory course which includes historical astronomy, celestial motions, properties and observation of light, and physical characteristics of the solar system and the sun. Includes laboratory activities involving telescope observations of solar system and stellar objects. Designed for students desiring a laboratory science for its general education value. Three (3) hours of lecture, and one (2) two hour lab each week.

ASTR 1020 Astronomy II (4 credits)—Introduces students to the study of stars, galaxies, and the universe as a whole. Includes laboratory activities involving telescope observations of star systems, nebulae, and galaxies. Three (3) hours of lecture, and one (2) two hour lab each week.

ASTR 1035 Life in the Universe (4 credits)—Explores the possibility of life elsewhere in the Universe, including the origin and evolution of life on earth, life elsewhere in our solar system, recent discoveries of extrasolar planets, and advanced civilizations elsewhere in the galaxy. Also includes topics in interstellar communication, space travel, and UFOs. Three (3) hours of lecture, and one (2) two hour lab each week.

ASTR 3415 Astrophysics (3 credits)—*Prerequisite(s):* PHYS 2110, PHYS 2120, or permission of instructor. Astrophysics covers the theoretical basis of what we know about the Universe around us. Topics include stellar atmospheres and spectra, stellar interiors, nuclear physics, stellar evolution and the HR diagram, and galactic structure. Galaxies: morphology and evolution; Cosmology: Hubble's law, the Big Bang theory, general relativity, and the history of the Universe. Three (3) hours of lecture each week.

ASTR 3970 Variable Stars (2 credits)—*Prerequisite(s):* ASTR 1010 and ASTR 1020; *Corequisite(s):* Permission of the instructor. A hands-on laboratory course on variable stars. Students will make approximately weekly observations of variable stars using the 14-inch Celestron telescope at the Harry D. Powell Observatory. Observations will be analyzed and light curve derived. Final data will be submitted to public archives for possible future use by astronomers around the world.

Business Administration

BADM

BADM 1130 Introduction to Business (3 credits)—*Prerequisite(s):* Open only to lower division students. This course is designed to provide an

overview of business operations, the role of business in society, the ethical issues in business, and the various disciplines within a business organization. Guidance to first-year university students as they begin their academic work through coverage of lifestyle issues, career planning, and other relevant topics is provided.

General Studies
BASD

BASD 3210 Professional Field Experience (3 credits)—Required of all B.G.S. and B.S.P.S. students; Dean's approval required; junior standing. The purpose of this course is to increase the student's knowledge in a particular personal or career-related area through a practical learning experience or internship. This must be a new learning experience by the student and submitted in the form of a culminating project.

BGSD

BGSD 2100 Successful Online Learning (1 credit)—Introduction to philosophy of learning online and development of skills and mastery of tools essential to success in an asynchronous learning environment. The purpose of this course is to prepare students for learning via an electronic medium, which is rapidly becoming not only an academic requirement, but also a requisite in the work force. The course has two major components – (1) tips for succeeding in an online course; and (2) the mastery of technical skills in order to learn asynchronously. (fall, spring)

BGSD 2200 Multimedia Presentations Studies for General Studies (1 credit)—*Prerequisite(s): CSCI 1100.* Instruction and exercises in building presentations with Microsoft PowerPoint 2000. Students will learn how to construct elements of presentations, including outlines, speaker notes, graphics, etc. (fall, spring, summer)

BGSD 2300 Building e-Portfolios (1 credit)—This course teaches fundamentals of professional portfolio content and promotes familiarity with the process of building a professional portfolio on a web site. Students will learn the basics of professional portfolio development (including cover letters, resumes, etc.) as supported by the ETSU Office of Career Placement and Internship Services. Students will develop skills in the use of basic tools for assembling Web content (including web pages with hyperlinks) and build confidence in attempting more advanced courses in web design. (fall, spring)

BGSD 4210 Professional Field Experience (3 credits hours)—*Required of all B.G.S. students; Chair's approval required; junior standing.* The purpose of this course is to increase the student's knowledge in a particular personal or career-related area through a practical learning experience or internship. This must be a new learning experience by the student and submitted in the form of a culminating project. (fall, spring, summer)

BGSD 4950 Special Topics in Adult Continuing Education (1-6 credits)—*Prerequisite(s): Junior or senior status and permission of the instructor; open to B.G.S. students only.* This course gives students the opportunity to study special topics and new developments in the field of adult continuing education. (fall, spring, summer)

BSIS

BSIS 4210 Professional Field Experience (3 credits)—*Required of all B.S.I.S. students; Chair's approval required; junior standing.* The purpose of this course is to increase the student's knowledge in a particular personal or career-related area through a practical learning experience or internship. This must be a new learning experience by the student and submitted in the form of a culminating project. (fall, spring, summer)

BSPS

BSPS 4210 Professional Field Experience (3 credits)—*Required of all B.S.P.S. students; Chair's approval required; senior standing.* The purpose is to increase the student's knowledge in a particular personal or career-related area through a practical learning experience or internship. This must be new learning by the student and submitted in the form of a culminating project. (fall, spring, summer)

BNKC

BNKC 1600 Financial Accounting for Bankers (2 credits)—This course is designed to provide students with a strong basic knowledge of accounting terms, concepts, and procedures. Emphasis is placed on developing a firm foundation of fundamental procedures with appropriate repetition of content through the use of examples and color-coded illustrations.

BNKC 1610 Economics for Bankers (2 credits)—This course introduces the banking community to the study of economics.

BNKC 1620 Law and Banking Principles (2 credits)—An introduction to laws pertaining to secured transactions, letters of credit, and the bank collection process.

BNKC 1630 Marketing Financial Services (2 credits)—Introduces the banking community to marketing financial services. It examines what motivates customers to purchase financial services and teaches students to develop a successful marketing plan.

BNKC 1640 Principles of Banking (2 credits)—This course provides entry-level bankers with the information they need to provide effective service to their customers, thereby having an impact on bank profitability. This information includes how banks affect the economy, why they are in business, what services they provide, and how they provide them. Students will also get a basic understanding of the interrelationships among various departments within a bank.

BNKC 1650 Developing Basic Teller Skills (2 credits)—This course reflects the changing responsibilities of the modern teller and includes the most recent compliance information. It is designed for the entry-level teller. Students are not required to have prior banking experience.

Biological Sciences
BIOL/BMS

BIOL 1010 Biology for Non-majors I (4 credits)—*Corequisite(s): BIOL 1011.* A biology course with laboratory experience in general education. The role of biology in today's society, with an emphasis on current issues in ecology, evolution, and behavior. Three (3) hours of lecture and two hours of lab. A common grade will be given in BIOL 1011/11.

BIOL 1011 Biology for Non-majors Laboratory (0 credit)—*Corequisite(s): BIOL 1010.* Laboratory exercises corresponding to Biology for Non-majors I. One (2) two-hour lab per week. Students must register for BIOL 1010. A common grade will be given in BIOL 1010/11.

BIOL 1020 Biology for Non-majors II (4 credits)—*Corequisite(s): BIOL 1021.* A biology course with laboratory experience in general education. The role of biology in today's society, with an emphasis on current issues in reproduction, growth, genetics, and biotechnology. Three (3) hours of lecture and two hours of lab per week. Students must register for BIOL 1021. A common grade will be given in BIOL 1020/21.

BIOL 1021 Biology for Non-majors Laboratory II (0 credit)—*Corequisite(s): BIOL 1020.* Laboratory exercises corresponding to Biology for Non-majors II. 1 two-hour lab per week Students must register for BIOL 1020. A common grade will be given in BIOL 1020/ 1021.

BIOL 1110 Biology for Science Majors Lecture I (4 credits)—*Corequisite: BIOL 1111.* Principles of molecular and cellular biology, including metabolism and genetic inheritance. Designed for biology majors, minors, and others who plan to take upper-level courses for which this is a prerequisite. Three (3) hours of lecture and two hours of lab. A common grade will be given in BIOL 1110/11.

BIOL 1111 Biology for Science Majors Lab I (0 credit)—*Corequisite(s): BIOL 1110.* Laboratory exercises to gain the ability to identify and use the processes of biological science with materials corresponding to Biology for Science Majors Lecture I. One (2) two-hour lab per week. A common grade will be given in BIOL 1110/11.

BIOL 1120 Biology for Science Majors Lecture II (4 credits)—*Prerequisite(s):* BIOL 1110; *Corequisite(s):* BIOL 1121. Principles of organismal biology, including structure and function of multicellular organisms, especially chordate animals, and flowering plants. Designed for biology majors, minors, and others who plan to take upper-level courses for which this is a prerequisite. Three hours lecture and two hours of lab per week. A common grade will be given in BIOL 1120/21.

BIOL 1121 Biology for Science Majors Lab II (0 credit)—*Corequisite(s):* BIOL 1120. Laboratory exercises to gain the ability to identify and use the processes of biological science with materials corresponding to Biology for Science Majors Lecture II. One (2) two-hour lab per week. A common grade will be given in BIOL 1120/21.

BIOL 1130 Biology for Science Majors Lecture III (4 credits)—*Prerequisite(s):* BIOL 1110; *Corequisite(s):* BIOL 1131. Principles of population biology including taxonomy and systematics, evolutionary processes, the phylogenetic history of life on earth, and ecological relationships. Designed for biology majors, minors, and others who plan to take upper-level courses for which this is a prerequisite. Three hours lecture and two hours of lab per week. A common grade will be given for BIOL 1130/31.

BIOL 1131 Biology for Science Majors Lab III (0 credit)—*Corequisite(s):* BIOL 1130. Laboratory exercises to gain the ability to identify and use the processes of biological science with materials corresponding to Biology for Science Majors Lecture III. One (2) two-hour lab per week. A common grade will be given in BIOL 1130/31.

BIOL 1310 Concepts in Biology (4 credits)—*Corequisite(s):* BIOL 1311. A one-semester survey for non-majors that covers basic themes of biology, including cell theory, heredity, reproduction, energy conversion, interactions, and diversity. Three (3) lectures/week.

BIOL 1311 Concepts in Biology Lab (0 credit)—*Corequisite(s):* BIOL 1310. Introduction to scientific method, use of microscopes, designing and implementing experiments; data collection and interpretation. Students must enroll in BIOL1310. Two (2) hours/week.

BIOL 2190 Introduction to Computational Biology (3 credits)—This course introduces students to the general concepts of calculus, probability theory, fractals, game theory and other mathematical tools to ecology, evolution, genetics and genomics. Concepts covered may include equilibrium, stability, emergence of complexity, hypothesis testing, Bayesian inference, genetic algorithms etc.

BIOL/MATH 2390 Introduction to Research in Quantitative Biology (3 credits)—*Prerequisite(s):* *Permission of the instructor.* Students rotate between a Biological Sciences lab and the Mathematics Department. Students learn math needed to support research in biology. One rotation per semester, consisting of one research experience in each department. The course may be repeated once.

BIOL 2999 Cooperative Education (1-3 credits)

BIOL 3100 General Genetics (3 credits)—*Prerequisite(s):* BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent; plus MATH 1530 or MATH 1910. The mechanisms of genetic transmission involving the chromosome theory of inheritance, linkage, recombination and mapping, chromosomal modifications and evolution, the organization of the hereditary material and the nature of gene action, mutation, population genetics, and statistical analysis. Three (3) hours lecture. (See optional BIOL 3141.)

BIOL 3141 Genetics Laboratory (2 credits)—*Prerequisite(s) or Corequisite(s):* *A course in genetics.* Laboratory experiences designed to demonstrate basic genetic mechanisms including patterns of transmission, recombination, regulation, and the nature of the nucleic acids. Two (2) hour labs per week.

BIOL 3150 Cell Biology (3 credits)—*Prerequisite(s):* BIOL 3100 plus one (1) year general chemistry; *organic chemistry recommended.* A study of structural and functional relationships in the eukaryotic cell. Two (2) hours lecture, one (1) hour oral component.

BIOL 3151 Cell Biology Laboratory (2 credits)—*Prerequisite(s) or Corequisite(s):* BIOL 3150 or equivalent. Laboratory exercises demonstrating cell structure and function. Two (2) hour labs per week.

BIOL 3220 Comparative Anatomy (4 credits)—*Prerequisite(s):* BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent. Comparisons of structure and development of representative vertebrate systems. Three hours lecture and 2 three-hour laboratories per week.

BIOL 3230 Vertebrate Embryology (4 credits)—*Prerequisite(s):* BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent. Development of vertebrate embryos. Laboratory work based on representative organisms. Two hours lecture and (2) two-hour labs per week.

BIOL 3240 Plant Anatomy (4 credits) — *Prerequisites:* BIOL 1010/11, either 1120/21 or 1130/31, or equivalent. Introduction to the structure, growth, and development of the shoot and root systems of the vascular plants. Two hours lecture and two two-hour laboratories per week.

BIOL 3260 Animal Physiology (4 credits)—*Prerequisite(s):* BIOL 1110/11, 1120/21, 1130/31, or equivalent; plus one year general chemistry. An introductory course in general and comparative physiology dealing with physical and chemical processes in animals. Two hours lecture and (2) two-hour labs per week.

BIOL 3350 Ecology (4 credits)—*Prerequisite(s):* BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent. An introduction to the principles of ecology with emphasis on interspecific and organismal-environmental relationships as they affect the size, development, distribution, and structure of populations, communities, and ecosystems. Three hours lecture and one (2) two-hour lab per week.

BIOL 3410 Vertebrate Zoology (4 credits)—*Prerequisite(s):* BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent. Biology, collection, identification, museum preparation, and natural history of vertebrates. Lecture, laboratory, and field studies. Emphasis on vertebrates of the Eastern United States. Two hours lecture and (2) two-hour labs per week.

BIOL 3420 Plant Biology (4 credits)—*Prerequisite(s):* BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent. Basic biology of plants, including morphology, reproduction, development, physiology, ecology, relationships of major plant groups, and their green algae ancestors. Two hours lecture and two-hour laboratories per week.

BIOL 3450 Algae and Fungi (4 credits) — *Prerequisites:* BIOL 1110/11, 1120/21, or 1130/31, or equivalent. Morphology, biology, life cycles and relationships of the algae and fungi. Two hours lecture and two two-hour laboratories per week.

BIOL 3460 Invertebrate Zoology (4 credits)—*Prerequisite(s):* BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent. Morphology, biology, life cycles, and relationships of the invertebrate organisms. Two hours lecture and (2) two-hour labs per week.

BIOL 3480 General Entomology (4 credits)—*Prerequisite(s):* BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent. The biology of insects including their anatomy, physiology, life histories, behavior, taxonomy, geological history, and economic importance. Two hours lecture and (2) two-hour labs per week.

BIOL 3550 Microtechnique (2 credits)—*Prerequisite(s):* BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent. Methods for the study of plant and animal tissues. Two (2) hour labs per week.

BIOL 3992 Research Orientation (2 credits)—*Prerequisite(s):* or *Corequisite(s):* BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, BIOL 3100, MATH 1530, or MATH 1910. Introduction to current research topics and methods in the biological sciences. Discussions of methods and experimental

design, and workshops on writing and oral presentations. Students will select an area of investigation, and an appropriate faculty mentor for an individual research project, and complete a research prospectus. One two-hour meeting per week.

BIOL 3999 Cooperative Education (1-3 credits)

BIOL 4018 Honors Thesis (3-6 credits)—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

BIOL 4037/5037 Coastal Biology Field Trip (1 credit)—

Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent; and permission of instructor. Intensive field survey of the coastal flora and fauna. Course may be repeated for credit with limit of one (1) credit toward major. (Extra fees.)

BIOL 4047/5047 Ecological Field Trip (3 credits)—

Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent; and permission of instructor. An extended field-oriented ecology course (approximately three weeks camping) to outstanding biomes of North America, i.e., deserts, alpine tundra, boreal forest and prairies, involving field instruction, specimen collection, identification of organisms in their natural habitats. Some pre-trip and post-trip classroom sessions. Course can be repeated for credit with limit of three credits toward degree. (Extra fees.)

BIOL 4147/5147 Biochemistry of Macromolecules (3 credits)—

Prerequisite(s): BIOL 1110 and one year of organic chemistry; or equivalent. Topics include cellular organization: pH and buffering, energy changes in molecular interactions, structure and characteristics of amino acids and proteins, structure/function relationships of enzymes, carbohydrates, lipids, and studies of the production, structure, and function of nucleic acids. Three hours lecture per week.

BIOL 4157/5157 Biochemistry of Macromolecules Lab (2 credits)—

Prerequisite(s) or Corequisite(s): BIOL 4147/5147, or equivalent. The theory and use of lab instruments and techniques will be introduced through a series of experiments designed to explore buffering, enzyme isolation and characterization, and DNA isolation and characterization. Experiment planning and interpretation of data generated by the students will culminate in journal-style reports. One four-hour lab per week.

BIOL 4167/5167 Biochemistry of Metabolism (3 credits)—

Prerequisite(s): BIOL 1110 and one year of organic chemistry; or equivalent. The metabolism of carbohydrates, lipids, amino acids, and nucleotides will be covered with emphasis on reactions, enzymes, energy changes, pathway regulation, and pathway integration. Production of energy-rich molecules in the cell will be linked to important cellular functions (i.e., biosynthesis, movement, and transport). Three hours lecture per week.

BIOL 4177/5177 Biochemistry of Metabolism Lab (2 credits)—

Prerequisite(s) or Corequisite(s): BIOL 4167/5167 or BIOL 4147/5147; or equivalent. The theory and use of lab instruments and techniques will be introduced through a series of experiments designed to investigate photosynthesis, electron transport, polymerase chain reactions, and enzyme kinetics. Experiment planning and interpretation of data generated by the students will culminate in journal-style reports. One four-hour lab per week.

BIOL 4247/5247 Appalachian Flora (3 credits)—

Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent; or permission of the instructor. Field and laboratory identification and ecology of plants of the Southern Appalachian environs. Sixteen hours Lecture and labs/field per week.

BIOL 4257/5257 Appalachian Fauna (3 credits)—

Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent; or permission of the instructor. Field and laboratory identification and ecology of the animals of the Southern Appalachian environs. Sixteen hours Lecture and labs/field per week.

BIOL 4267/5267 Plant Development (4 credits)—*Prerequisite(s):* BIOL 3100 or permission of instructor. Pattern of plant development from zygote or spore to mature plant. Emphasis on cell and tissue differentiation, organogenesis, and the influence of growth regulators. In the laboratory, students will observe morphogenesis and will design and undertake a project of their choice. Two hours lecture and four hours laboratory per week.

BIOL 4277/5277 Neurobiology (4 credits)—*Prerequisite(s):* BIOL 1110/11, BIOL 1120/21, or equivalent. An introduction to the study of neurobiology. Topics include fundamentals of cellular communication (action potentials, synaptic transmission, synaptic integration), sensory systems, motor systems, the neural basis of behavior, developmental plasticity, and learning. Examples are drawn from invertebrates, as well as vertebrates. Four hours lecture per week.

BIOL 4300 Seminar in Biology (2 credits)—*Prerequisite(s):* Permission of instructor. For senior biology majors and minors. Training and experience in oral presentation of recent developments in biology research.

BIOL 4337/5337 Plant Systematics (4 credits)—

Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent. Flowering plant classification and evolution. Characteristics and methods of traditional plant taxonomy and computer-based phylogenetic methods using morphological and molecular data sets. Plants will be studied in field and lab. Students will use data collected from plant specimens and from GenBank to conduct phylogenetic analysis in various angiosperm groups. Two hours of lecture and four hours of laboratory per week.

BIOL 4347/5347 Biogeography (2 credits)—

Prerequisite(s): BIOL 1130 or equivalent; or permission of instructor. Global and regional patterns in the distribution, abundance, and variation of plants and animals related to geographic conditions and earth history. One two-hour lecture per week.

BIOL 4357/5357 Ethology (3 credits)—

Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent. An introduction to the study of animal behavior. Emphasis is placed on the ecology and evolution of behavioral patterns. Three hours lecture per week.

BIOL 4360 Evolution (3 credits)—

Prerequisite(s): Completion of 20 credits in biological science courses. A survey of current topics related to the evolution of life on earth. Intended for senior biological sciences majors. One hour lecture and two hours discussion per week.

BIOL 4367/5367 Systems Ecology (3 credits)—

Prerequisite(s): BIOL 3350 or permission of instructor. Computer simulation modeling of ecological systems. Three hours lecture/discussion/workshop per week.

BIOL 4450 Bryophytes, Ferns, and Seed Plants (4 credits)—

Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent. Principal taxa of land plants characterized and compared in terms of structural, functional, and reproductive adaptations. Two hours lecture and (2) two-hour labs per week.

BIOL 4467/5467 Ichthyology (3 credits)—

Prerequisite(s): BIOL 3410 or permission of instructor. An introduction to the methodology of field collection, preservation, and identification of fishes. Quantitative analysis and preparation of summary reports on field collections will be emphasized. Two (2) one-hour lectures and one three-hour lab per week.

BIOL 4477/5477 Ornithology (4 credits)—

Prerequisite(s): BIOL 3410 or permission of instructor. An introduction to the methodology of field identification, population censuses, seasonal diversity, and ecology of birds. One three-hour lecture and one three-hour lab per week.

BIOL 4597/5597 Recombinant DNA Laboratory (3 credits)—

Prerequisite(s): BIOL 1110/11, BIOL 1120/21, or BIOL 1130/31; or equivalent; plus one year organic chemistry or permission of instructor. Theory and practice in molecular biology and recombinant DNA techniques, including recombinant DNA construction and gene transfer. One hour lecture and two three-hour laboratories per week.

BIOL 4647/5647 Molecular Biology (3 credits)—

Prerequisite(s): BIOL 3100 plus one year organic chemistry. (BIOL 3150 recommended)

Investigations into gene structure, gene expression and its regulation, and modern molecular methodology. Three hours lecture per week.

BIOL 4737/5737 Conservation Biology (4 credits)—*Prerequisite(s): BIOL 3100 or equivalent.* Underlying ecological and population genetic forces governing the structure and dynamics of populations. Evaluation of current conservation strategies. Labs include field experiments on biodiversity, species monitoring strategies, field trips and use of population viability analysis. Two hours lecture, one hour discussion, and three hours laboratory per week.

BIOL 4747/5747 Population Genetics (4 credits)—*Prerequisite(s): BIOL 3100 or equivalent.* An exploration of mechanisms of genetic change in populations. Theoretical predictions and empirical evidence are considered. Emphasis on molecular-based methods. A combination of field and lab exercises. Three hours lecture and one three-hour lab per week.

BIOL 4757/5757 Developmental Biology (3 credits)—*Prerequisite(s): BIOL 3230 or permission of instructor.* A study of advanced topics in developmental biology such as the role of extracellular matrix and gene regulation on gametogenesis and embryogenesis. Two one-hour lectures and one (2) two-hour lab per week.

BIOL 4767/5767 Plant Physiology (4 credits)—*Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent; and CHEM 2010.* A course in plant physiology dealing with physical and chemical processes affecting the growth, metabolism, and reproduction of plants. Includes study of the highly developed and diverse responses of plants to their environment. Three hours lecture, one hour oral component per week.

BIOL 4857/5857 Aquatic Biology (3 credits)—*Prerequisite(s): BIOL 3350.* Field trips collection, identification, and ecology of freshwater plants and animals. One hour lecture and Two (2) hour labs per week.

BIOL 4867/5867 Marine Biology (4 credits)—*Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31 or equivalent.* (BIOL 3460 recommended) Principles of marine biology with emphasis on habitats and ecological processes. Two hours lecture and (2) two-hour labs per week.

BIOL 4900 Independent Studies (1-4 credits).

BIOL 4910 Research in Biology (1-4 credits)—*Prerequisite(s): Permission of the instructor.* Independent directed research for the advanced student. Field of study to be determined by mutual consent of the student and faculty advisor.

BIOL 4917/5917 Philosophy of the Biological and Biomedical Sciences (3 credits)—Topics of philosophical and theoretical interest generated by the biological and biomedical sciences. Includes consideration of the broader social and cultural implications of biological and biomedical theory.

BIOL 4957/5957 Special Topics in Biological Sciences (1-6 credits)—Dependent on subject matter. Selected topics in biological sciences. Offered upon sufficient demand for specific subject matter. May be repeated for different topics. Consultation with the instructor is recommended before enrollment.

BIOL 4999 Cooperative Education (1-3 credits)

IBMS 1100 Integrative Biology and Statistics (6 credits) — *Prerequisites: High school Algebra and/or Precalculus; approval of the instructor.* This course integrates biological concepts from evolution, cellular biology, Mendelian genetics, and molecular genetics with probability and statistics concepts and skills. Five lectures/week and one 2-hour lab/week.

IBMS 1200 Integrative Biology and Calculus (6 credits) — *Prerequisite: IBMS 1100.* This course integrates biological concepts from population biology, ecology, neurobehavior, and membrane function with concepts and skills from Calculus. Five lectures/week and one 2-hour lab/week.

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

BIOL 5100	Topics in Cell and Molecular Biology	(3 credits)
BIOL 5200	Topics in Organismal Biology	(3 credits)
BIOL 5300	Topics in Ecology and Evolution	(3 credits)
BIOL 5400	Topics in Systematic Biology	(3 credits)
BIOL 5600	Bibliographic Research	(1 credit)
BIOL 5700	Seminar	(1 credit)
BIOL 5900	Independent Studies	(1-4 credits)
BIOL 5960	Thesis	(1-3 credits)
BIOL 5990	Readings and Research	(1-3 credits)
BIOL 5989-99	Cooperative Education	(1-3 credits)

Bluegrass, Old Time, and Country Music

BLUE

BLUE 1710 Introduction to Bluegrass and Country Music Theory (1 credit)—An introduction to fundamental musical principles including scales, chords, and meters commonly used in Bluegrass and Country Music.

BLUE 1810 Introduction to Sound Equipment and the Recording Studio (1 credit)—An introduction to the fundamentals of audio equipment, setup procedures, and use of live sound and recording systems.

BLUE/ANTH 2150 American Folk Music (3 credits)—A multi-cultural survey of America's diverse ethnic and regional traditions of folk music, how they have been revived and popularized in the 20th century, and their contributions to contemporary popular culture around the world.

BLUE 2240, 3240, 4240 Bluegrass Seminar I, II, and III (1 credit)—This course focuses on listening and performance skills; musical analysis; how to engage an audience musically, visually, and verbally; how to work as a full-time or part-time musician; and how to live one's life as an artist.

BLUE 2310 Guitar I (Introductory) (1 credit)—A course for beginners, as well as those who have some playing experience. Basic flatpicked lead playing and accompaniment, with emphasis on clarity, smoothness, and solid rhythm; focus on folk, bluegrass, gospel, and country traditions.

BLUE 2330 Fiddle Harmony II (2 credits)—*Prerequisite: Permission of instructor.* A study of basic Bluegrass, Old Time and Country Music harmony fiddle techniques used in what is commonly referred to as "twin" fiddling.

BLUE 2380 Instrument Setup and Maintenance (3 credits)—A study of the anatomy, mechanics, and maintenance of stringed instruments with practical application of techniques associated with instrument setup, maintenance, diagnostics, and repair.

The following are individual instruction courses, each of which is a flexibly designed course of study under an experienced musician. It provides an opportunity for the student to gain confidence with the fundamentals of the instrument and to develop musically.

BLUE 2410, 3410, 4410 Acoustic Guitar I, II, and III (1 credit)

BLUE 2420, 3420, 4420 Country Electric Guitar I, II, and III (1 credit)

BLUE 2430, 3430, 4430 Mandolin I, II, and III (1 credit)

BLUE 2440, 3440, 4440 Bluegrass Banjo I, II, and III (1 credit)

BLUE 2450, 3450, 4450 Old Time Banjo I, II, and III (1 credit)

BLUE 2460, 3460, 4460 Bluegrass Fiddle I, II, and III (1 credit)

BLUE 2470, 3470, 4470 Old Time Fiddle I, II, and III (1 credit)

BLUE 2480, 3480, 4480 Dobro I, II, and III (1 credit)

BLUE 2490, 3490, 4490 Acoustic Bass I, II, and III (1 credit)

BLUE 2510, 3510, 4510 Bluegrass Band I, II, and III (1 credit)—A flexibly designed course of study under the direction of an experienced

musician and band leader with focus on individual instrumentation and ensemble performance.

BLUE 2520, 3520, 4520 Old Time String Band I, II, and III (1 credit)—A flexibly designed course of study under the direction of an experienced musician and band leader with focus on individual instrumentation and ensemble performance.

BLUE 2530, 3530, 4530 Country Band I, II, III (1 credit)—A flexibly designed course of study under the direction of an experienced musician and band leader with focus on individual instrumentation and ensemble performance.

BLUE 2540 Celtic Band I (1 credit)—*Corequisite: Students enrolled in Celtic Band I must also be enrolled in at least one hour of individual instruction in voice or an appropriate instrument.* A flexibly designed course of study under the direction of an experienced Celtic-style musician and band leader, with focus on basic individual instrumentation and ensemble performance.

BLUE 2610 Individual Instruction Voice I (1 credit)—A study of basic vocal techniques applicable to Bluegrass, Old Time and Country singing under the private instruction of an experienced vocalist.

BLUE 2710 Bluegrass and Country Music Theory I (2 credits)—*Prerequisite: BLUE 1710.* A practical study of musical principles used in Bluegrass and Country Music including melody, harmony, and rhythm; intervals; standard musical notation; and the Nashville Number System.

BLUE 2720 Bluegrass and Country Music Theory II (2 credits)—*Prerequisite: BLUE 2710.* A practical study of advanced musical principles used in Bluegrass and Country Music including progressive melody, harmony, and rhythm; extended intervals; advanced use of the Nashville Number System; tablature; solo creation; and improvisation.

BLUE 2810 Sound Reinforcement (2 credits)—*Prerequisite: A final grade of B- or higher in BLUE 1810.* A practical study of live sound reinforcement techniques and procedures including transport, set up, and operation of live sound equipment.

BLUE 3110 Introduction to Bluegrass Music (3 credits)—An introductory study of the principal figures in bluegrass music, their lives, times, and music.

BLUE 3120 Country Music Then and Now (3 credits)—A study of the history of country music including genres of country music; impact of country music traditions on other music; history of country music in America; country music outside the United States.

BLUE 3130 Bluegrass Music History I (3 credits)—A study of the music and lives of Bluegrass artists through 1965.

BLUE 3140 Bluegrass Music History I (3 credits)—*Prerequisite: BLUE 3130.* A study of the music and lives of Bluegrass artists from 1966 - 2000.

BLUE 3320 Guitar II (Intermediate) (1 credit)—For students who have completed Guitar I and those who play at an equivalent or higher level. An expansion of skills developed in BLUE 2310-Guitar I, with an introduction to Doc Watson-style crosspicking and Merle Travis-style fingerpicking.

BLUE 3330 Fiddle Harmony II (2 credits)—*Prerequisite: Permission of instructor.* A study of intermediate Bluegrass, Old Time and Country Music harmony fiddle techniques used in what is commonly referred to as “twin” fiddling.

BLUE 3540 Celtic Band II (1 credit)—*Prerequisite: Permission of instructor; Corequisite: Students enrolled in Celtic Band II must also be enrolled in at least one hour of individual instruction in voice or an appropriate instrument.* A flexibly designed course of study under the direction of an experienced Celtic-style musician and band leader with focus on intermediate individual instrumentation and ensemble performance.

BLUE 3710 Chart Writing and Application (2 credits)—*Prerequisites: BLUE 2720 or BLUE 2220.* A practical study and application of the industry standard style of chart writing used in Bluegrass and Country Music.

BLUE 3810 Recording Engineering for Musicians (2 credits)—*Prerequisite: A final grade of B- or higher in BLUE 1810.* A practical study of recording engineering techniques and procedures in a modern recording laboratory.

BLUE 3820 Record Production for Musicians (2 credits)—*Prerequisite: A final grade of B- or higher in BLUE 1810.* A practical study of the various roles of record producers, production techniques, and procedures.

BLUE 4130 Survey of Contemporary Bluegrass (3 credits)—An overview of the diverse musical forms that makeup contemporary bluegrass music, with an emphasis on the lasting contributions of significant artists and the tension between traditional and exploratory approaches.

BLUE 4147/5147 Bluegrass and America’s Music (3 credits)—The musical and commercial interaction between bluegrass and American Folk music, jazz, pop, gospel, blues, rock, and classical traditions.

BLUE 4150 Roots of Bluegrass and Country Music (3 credits)—An exploration of the diverse musical genres preceding the emergence of bluegrass music, which serves as the building block for the structure of bluegrass music.

BLUE 4167/5167 Bluegrass—The First Generation (3 credits)—A study of the musicians and the innovations that shaped the structure on which today’s bluegrass is built.

BLUE 4210 Music Theory for Acoustic Players (3 credits)—Chord construction, harmonies, scales, transposition, etc. in a laboratory setting. Reading standard music notation, while included, is not a prerequisite.

BLUE 4220 Bluegrass Harmony Part Singing (3 credits)—A study of bluegrass harmony singing, chord structure, and theory, emphasizing learning intervals, numbers, and elementary ear training.

BLUE 4230 Songwriting (1 credit)—Students will create original songs under the tutelage of a songwriter with professional credentials.

BLUE 4257/5257 Band Leadership Skills (4 credits)—*Prerequisite: By permission only.* An experiential course that helps students develop band leadership skills through collective and individual study and practical experience.

BLUE 4330 Fiddle Harmony III (2 credits)—*Prerequisite: Permission of instructor.* A study of advanced Bluegrass, Old Time and Country Music harmony fiddle techniques used in what is commonly referred to as “twin” fiddling.

BLUE 4510 Bluegrass Band III (1 credit)

BLUE 4520 Old Time String Band III (1 credit)

BLUE 4540 Celtic Band III (1 credit)—*Prerequisite: Permission of instructor; Corequisite: Students enrolled in Celtic Band III must also be enrolled in at least one hour of individual instruction in voice or an appropriate instrument.* A flexibly designed course of study under the direction of an experienced Celtic-style musician and band leader with focus on advanced individual instrumentation and ensemble performance.

BLUE 4610 Individual Instruction Voice I (1 credit)—*Prerequisite: Permission of instructor.* A study of advanced vocal techniques applicable to Bluegrass, Old Time and Country singing under the private instruction of an experienced vocalist.

BLUE 4900 Independent Study (1-3 credits)

BLUE 4957/5957 Special Topics (1-6 credits)

Communicative Disorders CDIS

CDIS 4000 Communication Sciences and Disorders (3 credits)—

An introduction to the professions of audiology and speech-language pathology providing an overview of communication sciences and normal communicative processes contrasted with disorders of speech, language, and hearing. Course also requires students to observe speech-language pathologists and audiologists perform evaluations and therapy.

CDIS 4017/5017 Speech and Hearing Science I (4 credits)—A

study of the basic theories, physics, and acoustics of speech production. Information pertaining to the anatomy and physiology of spoken language are also presented. This course provides a laboratory experience that includes an introduction to the International Phonetic Alphabet and transcriptions of speech from typical speakers with different regional dialects.

CDIS 4027/5027 Speech and Hearing Science II (4 credits)—

Prerequisite(s): CDIS 4017. A study of the physiologic acoustics of the auditory periphery, neurophysiology of the speech and hearing systems, and an introduction to research tools in speech and hearing science. The laboratory portion of the course provides interactive demonstrations pertaining to the physiologic acoustics of the auditory periphery, neurophysiology of the speech and hearing systems, and an introduction to instrumentation used in speech and hearing science.

CDIS 4037/5037 Anatomy and Physiology of the Speech and Hearing Systems (3 credits) — A study of the basic anatomy and physiology of speech/hearing mechanisms. Theories and mechanisms of speech production and hearing will also be covered.

CDIS 4060 Language Development (3 credits)—*Prerequisite(s): CDIS 4000 and CDIS 4017.* A study of the psycholinguistic aspects of language including cultural influences, the complex nature of language, the language-learning process, and the strategies involved in analyzing normal child communication.

CDIS 4200 The Clinical Process (3 credits)—*Prerequisite(s): CDIS 4000.* A lecture-discussion-demonstration course which includes supervised observation of the evaluation and treatment of children and adults with disorders of speech, language, and/or hearing, as well as information related to clinical procedures and reports.

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

CDIS 5010	Neurological Bases of Communication	(3 credits)
CDIS 5015	Language Disorders in Children	(3 credits)
CDIS 5025	Clinical Phonology	(3 credits)
CDIS 5030	Fluency Disorders	(3 credits)
CDIS 5035	Motor Speech Disorders	(3 credits)
CDIS 5040	Adult Language Disorders	(3 credits)
CDIS 5045	Dysphagia	(3 credits)
CDIS 5070	Voice Disorders	(3 credits)
CDIS 5200	Language Dis. of School-Aged Children	(3 credits)
CDIS 5210	Communication Problems of the Aging	(3 credits)
CDIS 5240	Pediatric Organic Disorders	(3 credits)
CDIS 5260	Seminar in Intervention Issues	(3 credits)
CDIS 5270	Augmentative Communication	(3 credits)
CDIS 5275	Dysphagia Laboratory	(1 credit)
CDIS 5285	Voice Laboratory	(1 credit)
CDIS 5290	Advanced Adult Neurogenic Cognitive Communication Disorders	(3 credits)
CDIS 5320	Auditory Processing Disorders	(3 credits)
CDIS 5590	Externship Audiology	(6-9 credits)
CDIS 5610	Speech-Language Pathology Clinic: Audiologists	(1 credit)
CDIS 5620	Speech-Language Pathology Clinic: Child Evaluation/Treatment	(3 credits)
CDIS 5640	Speech-Language Pathology Clinic: Adult Evaluation/Treatment	(3 credits)
CDIS 5670	Speech-Language Pathology Clinic: Advanced	(3 credits)
CDIS 5690	Externship: Speech-Language Pathology	(6-9 credits)
CDIS 5900	Independent Study	(3 credits)
CDIS 5960	Thesis	(3-6 credits)
CDIS 5980	Special Topics in Communication Disorders	(1-6 credits)
CDIS 5990	Readings and Research	(1-3 credits)
CDIS 6100	Instrumentation and Acoustic Measurement	(3 credits)

CDIS 6110	Anatomy and Physiology: Aud.Sys. II	(3 credits)
CDIS 6115	Audiologic Evaluation I	(3 credits)
CDIS 6140	Amplification Systems I	(3 credits)
CDIS 6141	Amplification Systems II	(3 credits)
CDIS 6142	Amplification Systems III	(3 credits)
CDIS 6145	Pathologies of the Auditory System	(3 credits)
CDIS 6150	Psychoacoustics	(3 credits)
CDIS 6160	Audiologic Evaluation II	(3 credits)
CDIS 6180	Pediatric Audiology	(3 credits)
CDIS 6195	Electrophysiology I	(3 credits)
CDIS 6196	Electrophysiology II	(3 credits)
CDIS 6205	Speech-Language Pathology for Audiology Students	(3 credits)
CDIS 6300	Rehabilitative Audiology for Children	(3 credits)
CDIS 6310	Rehabilitative Audiology for Adults	(3 credits)
CDIS 6330	Speech Perception	(3 credits)
CDIS 6340	Audiology Clinical Practice Management	(3 credits)
CDIS 6400	Research Methods in Communicative Disorders	(3 credits)
CDIS 6410	Audiology Seminar	(3 credits)
CDIS 5510	Audiology Clinic for Speech-Language Pathologists ..	(1 credit)
CDIS 6520	Audiology Clinic	(3 credits)

Chemistry CHEM

CHEM 1000 Chemistry and Well-Being (4 credits)—A terminal semester course designed to fulfill the General Education core requirement for a laboratory science course for non-science majors. The course will include discussions of chemistry and its relevance in society and our individual well-being. It will explore the role chemical science plays in understanding environmental issues, nutrition and health, drugs, medicine, genetic engineering, modern materials, energy sources, and other chemical technological progress important to our standard of living. Experimental projects to be done inside or outside of the classroom setting are included. These experiments are designed to illustrate and explore the principles/concepts and applications of chemistry.

CHEM 1030 Introduction to Chemistry Survey (4 credits)—This course, designed for the non-science major, presents an interdisciplinary approach to the basic principles of chemistry. The importance of chemistry in today's society, its relevance to many environmental questions, and other current issues involving chemistry will be emphasized. Three (3) hours of lecture and one (1) hour of lab/discussion per week.

CHEM 1040 Introduction to General Chemistry (3 credits)—This course is designed for students who require the General Chemistry 1110/1120 sequence but lack mastery of the basic principles needed to succeed in this course. It focuses on basic math skills and elementary chemistry principles needed in General Chemistry. The course will enable students to master basic math and elementary chemistry principles needed in the general chemistry sequence.

CHEM 1110-20 General Chemistry Lecture (4 credits ea.)—*Corequisite(s): CHEM 1111/21.* The basic course for students who expect to major in chemistry, as well as those who wish to meet entrance requirements of professional schools. Three (3) hours of lecture-recitation per week. A common grade will be given.

CHEM 1111-21 General Chemistry Laboratory (0 credit)—*Corequisite(s): CHEM 1110/20.* One (3) three-hour lab per week. A common grade will be given.

CHEM 2010/20 Organic Chemistry Lecture (3 credits)—*Prerequisite(s): CHEM 1120/21; Corequisite(s): CHEM 2011/21.* The basic course in the study of compounds of carbon. Three (3) hours of lecture per week. Must be taken in proper sequence.

CHEM 2011/21 Organic Chemistry Laboratory (2 credits ea.)—*Corequisite(s): CHEM 2010/20. (Laboratory to accompany CHEM 2010/20.)* One (4) four-hour lab period per week. Must be taken in proper sequence.

CHEM 2220 Quantitative Analysis Lecture (2 credits)—*Prerequisite(s): CHEM 1120/21; Corequisite(s): CHEM 2221.* Quantitative treatment of equilibria. Introduction to statistical treatment of data, spectrometry, and instrumental methods of analysis. Two hours of lecture per week.

CHEM 2221 Quantitative Analysis Laboratory (2 credits)—*Corequisite(s):* CHEM 2220. (Laboratory to CHEM 2220) One (4) four-hour lab period per week.

CHEM 2989-99 Cooperative Education (3 credits)—The application of classroom learning experience to on-the-job training.

CHEM 3008 Honors Research (2 credits) — Honors students should enroll in this course during the Fall semester of their junior year. The class will meet weekly for an in-class discussion about the process of research and conducting literature searches. Students will outline a plan for their senior honors thesis, and prepare a prospectus for their research.

CHEM 3110 Descriptive Inorganic Chemistry (3 credits)—*Prerequisite(s):* CHEM 1120/21. A study of properties and reactions of inorganic compounds with emphasis on trends in the Periodic Table. Three (3) hours of lecture-recitation per week.

CHEM 3611 Introductory Integrated Laboratory (2 credits)—*Corequisite(s):* CHEM 3710 or CHEM 3750. Introduction to advanced chemistry laboratory techniques with emphasis on physics-chemical measurements. Includes data handling, report writing, and work with classical and instrumental methods. One (4) four-hour lab period per week.

CHEM 3710 Principles of Physical Chemistry Lecture (3 credits)—*Prerequisite(s):* CHEM 2220/21; *Prerequisite(s) or Corequisite(s):* CHEM 2010 and General Physics; *Corequisite(s):* CHEM 3611. A brief physical chemistry course for the Chemistry Concentration program, with a life science emphasis. Three (3) hours of lecture per week.

CHEM 3750-60 Physical Chemistry (3 credits)—*Prerequisite(s):* *Physics and Calculus; CHEM 2010/11, CHEM 2220/21* *Corequisite(s):* CHEM 3611 (for 3750); CHEM 4611, CHEM 4621, or CHEM 4631. Physical chemistry for those planning a career in the field of chemistry. Elements of thermodynamics, kinetics, and quantum chemistry. Three (3) hours of lecture per week.

CHEM 3989-99 Cooperative Education (1-3 credits)

CHEM 4010 Seminar in Chemistry (2 credits)—For senior chemistry majors and minors. Research reports by students, faculty, and invited outside speakers on recent advances in chemistry. May be repeated once for credit.

CHEM 4018 Honors Thesis (3-6 credits)—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

CHEM 4110 Advanced Inorganic Chemistry Lecture (3 credits)—*Prerequisite(s) or Corequisite(s):* CHEM 3750/60. Principles of theoretical and descriptive inorganic chemistry. Three lecture-recitation hours per week.

CHEM 4200 Principles of Instrumental Analysis (3 credits)—*Prerequisite(s):* CHEM 2220/21. Theory, instrumentation, and application of spectral methods (UV-VIS, IR, RAMAN, AA, AE, NMR, MS, etc.), electroanalytical methods (potentiometry, voltammetry, etc.), and separation techniques (GC, HPLC, TLC, etc.). Three (3) hours of lecture per week.

CHEM 4611 Advanced Integrated Laboratory - Dynamics (2 credits)—*Prerequisite(s):* CHEM 3611. Advanced chemistry laboratory with emphasis on dynamic properties of chemical systems. Both classical and modern spectroscopic methods, such as UV-VIS, IR, and NMR, will be used. When possible, compounds used will be synthesized by the student. One (4) four-hour lab period per week.

CHEM 4621 Advanced Integrated Laboratory - Structure (2 credits)—*Prerequisite(s):* CHEM 3611. Advanced chemistry laboratory with emphasis on structural analysis by modern instrumental techniques. When possible, compounds will be synthesized by the student. One (4) four-hour lab period per week.

CHEM 4631 Advanced Integrated Laboratory - Analytical Techniques (2 credits)—*Prerequisite(s):* CHEM 3611. Advanced chemistry laboratory with emphasis on modern analytical techniques. Uses and limitations of the various techniques will be stressed. When possible, compounds used will be synthesized by the student. One (4) four-hour lab period per week.

CHEM 4817/5817 Introduction to Industrial Chemistry (3 credits)—*Prerequisite(s):* CHEM 2020/21. Engineering of chemical reactions, mass and energy balance, process development and control, polymer chemistry and industrial pollution.

CHEM 4900 Research in Chemistry (1-2 credits)—*Prerequisite(s):* *Permission of the chair of the department.* Independent, directed research for the advanced student. Field of study to be determined by mutual consent of the student and faculty advisor.

CHEM 4957/5957 Special Topics in Chemistry (1-6 credits)

CHEM 4989-99 Cooperative Education (1-3 credits)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

CHEM 5010	Seminar in Chemistry	(1 credit)
CHEM 5110	Advanced Inorganic Chemistry I	(3 credits)
CHEM 5120	Advanced Inorganic Chemistry II	(3 credits)
CHEM 5142	Reaction Mechanisms of Coordination Compounds ..	(3 credits)
CHEM 5210	Advanced Analytical Chemistry I	(3 credits)
CHEM 5220	Advanced Analytical Chemistry II	(3 credits)
CHEM 5450	Advanced Laboratory in Chemistry	(1-4 credits)
CHEM 5510	Advanced Organic Chemistry	(3 credits)
CHEM 5541	Organic Reaction Mechanisms	(3 credits)
CHEM 5710	Chemical Thermodynamics	(3 credits)
CHEM 5741	Chemical Kinetics	(3 credits)
CHEM 5743	Quantum Chemistry	(3 credits)
CHEM 5950	Research in Chemistry	(1-3 credits)
CHEM 5960	Thesis in Chemistry	(1-3 credits)
CHEM 5989	Cooperative Education	(1-3 credits)
CHEM 5990	Readings and Research	(1-3 credits)
CHEM 5999	Cooperative Education	(1-3 credits)

Chinese CHIN

CHIN 1010 Beginning Chinese I (3 credits)—Chinese 1010 is a course which will introduce students to the Chinese (Mandarin) language. Students will learn how to speak, read, and write in Chinese.

CHIN 1020 Beginning Chinese II (3 credits)—*Prerequisite:* CHIN 1010 or equivalent. Chinese 1020 is a course which will continue to introduce students to the Chinese (Mandarin) language. Students will learn how to speak, read, and write in Chinese as well as learn grammar and idiomatic expressions at the beginning level.

CHIN 2010 Intermediate Chinese I (3 credits)—*Prerequisite:* CHIN 1020 or equivalent. Continued instruction and practice in written and spoken Chinese.

CHIN 2020 Intermediate Chinese II (3 credits)—*Prerequisite:* CHIN 2010 or equivalent. Continued instruction and practice in written and spoken Chinese.

Criminal Justice and Criminology CJCR

CJCR 1100 Introduction to Criminal Justice (3 credits)—Conceptions of law and crime, the nature and extent of crime, and an overview of the interrelated criminal justice agencies.

CJCR 1200 Human Relations in Criminal Justice (3 credits)—An examination of models of human behavior, with particular emphasis on antecedents and conditions that affect personnel performance in criminal justice environments.

CJCR 1500 Criminal Investigation (3 credits)—Fundamentals of criminal investigation procedures. Crime scene search and recording, collecting and preserving evidence, scientific and technical aids, and case preparation.

CJCR 1600 Forensic Science (3 credits)—An introduction to methods used by crime laboratories and the chemical and physical interpretation of the data obtained by crime scene search to include blood samples, fingerprints, tool marks, fiber and fabric identification.

CJCR 2540 Criminal Law (3 credits)—The historical foundations of criminal law, elements of crime, purposes and functions of law, defenses to prosecution, and limits of the law.

CJCR 2600 Crime Scene Investigation (3 credits)— Detecting, collecting, and preserving physical evidence from crime scenes with emphasis placed on documenting and collecting physical evidence. Current research, case studies, and analysis of physical evidence will be discussed. This course involves hands-on exercises and investigating mock crime scenes.

CJCR 2989-99 Cooperative Education (1-3 credits)

CJCR 3000 Statistics for Criminal Justice and Criminology (3 credits)—*Prerequisite(s): MATH 1530 or equivalent.* Criminal statistics, hypotheses and theories, research and related problems, and ways and means of evaluating the effectiveness of criminal justice activities.

CJCR 3010 Research Methods for Criminal Justice and Criminology (3 credits)—Problems in the design and execution of criminal justice research. Various research strategies, including sample surveys, observation, experiments, and evaluation are discussed. Also reviewed are various sources of criminal justice data.

CJCR 3100 Patterns of Criminal Behavior (3 credits)—The social and psychological aspects of criminal behavior, criminality as a developmental process. Specific offender types will be examined.

CJCR 3300 Criminal Justice Ethics (3 credits)—Examination of ethical issues arising in the criminal justice field including police deviance, judicial misconduct, control of inmates in correctional settings, and field research dilemmas.

CJCR/SOCI 3310 Criminology (3 credits)—An analysis of the major sociological theories of crime causation, sociological aspects of types of offenders, and techniques of measuring crime.

CJCR 3330 Police in America (3 credits)—Historical and philosophical evolution of the police. Emphasis will be placed on functions and control of police in a democratic society and the analysis of policing from a social science perspective.

CJCR 3440 Corrections in America (3 credits)—Philosophical and historical evolution of punishment in the United States. With emphasis on prisons, jails, community-based corrections, efficiency of social control policies, such as “boot camp” prisons, rehabilitation, juvenile detention, capital punishment, etc.

CJCR 3444 Microcomputers as a Research Tool (3 credits)—*Prerequisite(s): CSCI 1100, MATH 1530, CJCR 3000.* In depth application of microcomputers in criminological research. Emphasis on data analysis using various software (SPSS/PC+, SAS). Requires use of e-mail and Internet.

CJCR 3500 Juvenile Justice: Theory and Process (3 credits)—History, philosophy, and evaluation of the juvenile justice system. Emphasis on theoretical explanations of delinquency, gangs, and violence, as well as examination of types of social interventions by police, courts, corrections, and other organizations.

CJCR 3610 Terrorism and Counter-Terrorism (3 credits)—An examination of terrorism and counter-terrorism. The course will cover both domestic and international terrorism and efforts to prevent terrorism.

CJCR 3650 Criminal Procedure (3 credits)—Federal/state laws and rules of arrest, search and seizure of evidence, interrogation of suspects, obtaining confessions, and criminal identifications.

CJCR 3989-99 Cooperative Education (1-3 credits)

CJCR 4007/5007 Correctional Counseling (3 credits)—An overview of counseling methods, principles and procedures of therapeutic techniques, and processes for use in various correctional environments.

CJCR 4018 Honors Thesis (3-6 credits)—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

CJCR 4026 Themes of Justice (3 credits)—Introduction to philosophical concepts of justice utilizing a variety of films. Examination of issues such as prejudice, violence, punishment, and peacemaking in the context of social and criminal justice.

CJCR 4027/5027 Media and Crime (3 credits)—Examination of relationship between media and crime, with special emphasis on television. Course content examines both reporting and non-news media content relevant to crime and the criminal justice system, the study of audience effects, and different response theories about media dissemination of news, opinion, information, and entertainment.

CJCR 4222 Criminal Justice Administration (3 credits)—Examination of principles of management and administration of criminal justice organizations. Emphasis on planning, budgeting, staffing, decision-making, policy development, and program evaluation.

CJCR 4337/5337 The Death Penalty in America (3 credits)—Various theoretical, ethical, moral, and empirical issues surrounding capital punishment will be explored. Students will be exposed to conflicting points of view regarding race, gender, class, and the death penalty. A critical examination of all sides of this debate will be undertaken.

CJCR 4560 White-Collar Crime (3 credits)—Etiology and epidemiology of upper-class criminality. Emphasis on organizational, occupational, and crimes by the government. Functions of social control, punishment, and regulatory agencies are examined.

CJCR 4580 Violence: The American Experience (3 credits)—Examination of the role of violence in American society. Etiological and epidemiological issues addressed with emphasis on various forms of violence such as homicide, gangs, hate groups, white-collar crime, and violence against women.

CJCR 4670 Race, Gender and Crime (3 credits)—Examination of experiences of women and people of color with agencies of social control. Comparisons of crime rates, types of criminal offending, and victimization including discussion of sexual and racial harassment in the workplace.

CJCR 4680 Issues in Criminal Justice Policy and Criminology Research (3 credits)—*Prerequisite(s): CJCR 1100, senior level standing, or permission of the instructor.* Current issues in criminal justice policy and criminology research. The course will deal with new research and policy implications in a wide range of areas depending upon the instructor teaching the course. Topics may include research methodological issues, police operations, correctional treatment programs, court and legal issues, issues and research in the area of forensic science, and criminological theory.

CJCR 4800 Field Experience in Criminal Justice (12 credits)—*Prerequisite(s): Prior arrangement with instructor, senior status, and departmental approval of application.* A 450-hour field experience placement in a local or regional criminal justice agency or facility. The student will learn through orientation, observation, conferences, and work experience.

CJCR 4850 Criminal Justice and Family Violence (3 credits)—An examination of the various forms of family violence as they relate to the criminal and juvenile justice system. Evaluation of alternative policies for intervention by police, courts, and correctional agencies.

CJCR 4900 Independent Study in Criminal Justice (1-3 credits)—*Prerequisite(s): Consent of department chair.* Directed study in specific areas of criminal justice literature not covered by organized undergraduate courses. A detailed research paper required.

CJCR 4950 Special Topics in Criminal Justice and Criminology (3 credits)—A seminar on selected topics of contemporary interest in criminal justice and criminology.

CJCR 4957/5957 Special Topics in Criminal Justice (1-6 credits)—*Prerequisite(s): Senior or graduate status.* A seminar on selected topics of contemporary interest.

CJCR 4989-99 Cooperative Education (1-3 credits)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog.

The department offers the Master of Arts in Criminal Justice degree with courses in criminology, corrections, and police studies.

CJCR 5000	Criminology Theory	(3 credits)
CJCR 5005	Ethics and Social Justice	(3 credits)
CJCR 5010	The American System of Justice	(3 credits)
CJCR 5040	Law, Society, and Criminal Justice	(3 credits)
CJCR 5500	Topical Seminar	(3 credits)
CJCR 5850	Research Design in Criminology	(3 credits)
CJCR 5950	Quantitative Methods in Criminology	(3 credits)
CJCR 5960	Thesis in Criminal Justice	(1-3 credits)
Electives		
CJCR 5020	American Policing	(3 credits)
CJCR 5027	Media and Crime	(3 credits)
CJCR 5030	Issues in Correctional Treatment	(3 credits)
CJCR 5031	American Corrections	(3 credits)
CJCR 5050	Seminar in White-Collar Crime	(3 credits)
CJCR 5070	Juvenile Justice and Delinquency	(3 credits)
CJCR 5337	The Death Penalty in America	(3 credits)
CJCR 5580	Violence: The American Experience	(3 credits)
CJCR 5800	History of Criminological Theory	(3 credits)
CJCR 5900	Special Problems in Criminal Justice	(3 credits)
CJCR 5990	Readings and Research	(1-3 credits)

Cardiopulmonary Science

CPSC

CPSC 3000 Foundations of Cardiopulmonary Science (4 credits)—*Prerequisite(s): ALHE 2010 and ALHE 2020; Acceptance into the Cardiopulmonary Science program; Corequisite(s): CPSC 3010 and CPSC 3040.* Basic modes of cardiopulmonary care are examined to understand their principles of application to patients. A discussion will be provided on the indications, hazards, contraindications, and assessments of various patient care modalities. Modes of care include medical gas therapy, aerosol and humidity therapy, postural drainage and percussion, and lung hyperinflation.

CPSC 3010 Foundations of Cardiopulmonary Science Lab (3 credits)—*Prerequisite(s): ALHE 2010 and ALHE 2020; Acceptance into the Cardiopulmonary Science program; Corequisite(s): CPSC 3000 and CPSC 3040.* Cardiopulmonary equipment utilized to perform basic modalities of care will be examined in detail. Emphasis placed on the assembly, maintenance, troubleshooting, adjustment, and application of equipment to patients. Laboratory practice will allow students to obtain operational proficiency prior to actual clinical experience. A wide variety of equipment will be introduced to include oxygen therapy, aerosol and humidity therapy, hyperinflation devices, chest physical therapy, and non-invasive monitors.

CPSC 3040 Pharmacology in Cardiopulmonary Science (3 credits)—*Prerequisite(s): ALHE 2010 and ALHE 2020; Acceptance into the Cardiopulmonary Science program; Corequisite(s): CPSC 3000 and CPSC 3010.* Introduction into various pharmacological agents utilized in patients with cardiopulmonary dysfunction. An in depth discussion will be conducted on the mode of action, classification, indications, contraindications, hazards, and methods of medication delivery.

CPSC 3100 Cardiopulmonary Critical Care (3 credits)—*Prerequisite(s): CPSC 3000, CPSC 3010, and CPSC 3040; Corequisite(s): CPSC 3110 and CPSC 3150.* Study and practice of acute and emergency airway care, arterial blood gas analysis, mechanical ventilation, infectious control, and other areas of critical care.

CPSC 3110 Cardiopulmonary Critical Care Lab (3 credits)—*Prerequisite(s): CPSC 3000, CPSC 3010, and CPSC 3040; Corequisite(s): CPSC 3100 and CPSC 3150.* This course is the corresponding laboratory course for CPSC 3100. Students will set up, operate, maintain, and

troubleshoot machines that are used in the treatment of critically ill patients. Students are required to demonstrate operational proficiency in various cardiopulmonary critical care equipment and procedures prior to enrolling for CPSC 3350.

CPSC 3140 Cardiopulmonary Disease Pathology (3 credits)—*Prerequisite(s): CPSC 3100 and CPSC 3110; Corequisite(s): CPSC 3350.* A discussion will be conducted on the etiology, pathophysiology, clinical manifestations, and prognosis of various cardiopulmonary diseases. Included will be the respiratory care practitioner's role in the successful treatment of these disorders.

CPSC 3150 Clinical Education I (3 credits)—*Prerequisite(s): CPSC 3000, CPSC 3010, and CPSC 3040; Corequisite(s): CPSC 3100 and CPSC 3110.* Clinical experience will introduce the student to the basic modalities in the treatment of cardiopulmonary diseases. Students will rotate to several local hospitals during the semester. Students will obtain proficiency in oxygen therapy, aerosol and humidity therapy, hyperinflation devices, chest physical therapy, patient assessment, and medical gas therapy.

CPSC 3350 Clinical Education II (4 credits)—*Prerequisite(s): CPSC 3150; Corequisite(s): CPSC 3140.* This course allows the student to apply critical care principles taught in courses CPSC 3100 and 3110 in actual clinical settings. Students will be responsible for the initiation, discontinuation, and evaluation of various cardiopulmonary critical care equipment.

CPSC 3550 Patient Centered Practice (3 credits)—*Prerequisite(s): CPSC 3150; instructor approval.* This course is focused on improving patient care through writing and using patient-driven protocols. Students explore AARC clinical practice guidelines and regional practices, comparing differences or similarities in practice. There is an emphasis is on teaching patients and families how to perform modalities and actively participate in the return to wellness. This course is conducted using the World Wide Web (www) and an online laboratory.

CPSC 4100 Advanced Cardiopulmonary Critical Care (3 credits)—*Prerequisite(s): CPSC 3100, CPSC 3110, and CPSC 3140; Corequisite(s): CPSC 4150, CPSC 4500, and ALHE 4060.* This course provides a study of advanced cardiopulmonary technology utilized in the critical care settings. Students will be required to complete Advanced Cardiac Life Support as part of this course. Also, topics include hemodynamic monitoring, advance mechanical ventilation, and therapist-driven protocols.

CPSC 4150 Clinical Education III (3 credits)—*Prerequisite(s): CPSC 3350; Corequisite(s): CPSC 4100, CPSC 4500, and ALHE 4060.* This course will place the student in advanced and specialized areas in cardiopulmonary care. During the semester the student will be exposed to clinical areas including advanced critical care monitoring, intubation, neonatal/pediatrics, home health care, sleep disorders, cardiopulmonary stress testing, and metabolic cart studies.

CPSC 4200 Neonatal and Pediatric Cardiopulmonary Care (3 credits)—*Prerequisite(s): CPSC 4100 and CPSC 4500; Corequisite(s): CPSC 4350 and ALHE 4070.* The process of growth and development associated with cardiopulmonary care from the fetus to the adolescent will be discussed. Coursework will include a dialogue on the complications and risk factors associated with birth. Techniques of diagnosis and treatment of neonatal cardiopulmonary emergencies will be discussed. Upon the successful completion of this course, students will fulfill the requirements for the Neonatal Advanced Life Support program.

CPSC 4350 Clinical Education IV (3 credits)—*Prerequisite(s): CPSC 4150; Corequisite(s): CPSC 4200 and ALHE 4070.* This course emphasizes cardiac diagnostics, cardiac and pulmonary rehabilitation, neonatal/pediatrics, pulmonary function testing, and long-term care. Students are required to successfully complete computerized clinical simulation modules to review, enhance, and synthesize professional cognates and skills.

CPSC 4500 Cardiopulmonary Diagnostic and Therapeutic Care (3 credits)—*Prerequisite(s): CPSC 3100, CPSC 3110, and CPSC 3140; Corequisite(s): CPSC 4100, CPSC 4150, and ALHE 4060.* A discussion will be held on the use of diagnostic equipment utilized in the therapeutic treatment of patients with cardiopulmonary diseases. Topics include cardiac diagnostic tools, pulmonary rehabilitation, polysomnography, cardiopulmonary stress testing, metabolic cart, and pulmonary function studies.

Computer and Information Sciences CSCI

CSCI 1038 Honors Orientation Seminar (1 credit)—*Prerequisite(s): Admission to College of Business and Technology or University Honors Program.* This course will fully orient the student to the expectation for an honors student. Discussion and activities will relate to preparation for academic success and developing information technology skills.

CSCI 1100 Using Information Technology (3 credits)—Students will gain a working knowledge of word-processing, spreadsheets, electronic communication, and online database searching and will learn the skills necessary to integrate electronic information from various sources. Students learn through both lecture and hands-on experience. (fall, spring, summer)

CSCI 1101 Introduction to Spreadsheets (1 credit)—*Prerequisite(s): CSCI 1100.* Students learn the concepts of designing spreadsheets, manipulating numeric information, developing formulas, presenting numeric information, and incorporating spreadsheet information into other electronic formats. This course will include both lecture and hands-on instruction. (as needed)

CSCI 1102 Introduction to Database Applications (1 credit)—*Prerequisite(s): CSCI 1100.* Students learn how to use database software to create specific applications. Emphasis will be placed on creating databases, forms, reports, and queries. This course will include both lecture and hands-on instruction. (as needed)

CSCI 1105 Computer Applications and Music (1 credit)—*Prerequisite: CSCI 1100.* This course will investigate applications that are now standard across the industry. This course explores the technology, mechanics, ethics, and legalities involved, as well as the changing audio industry. The course will expose students to current technology used by the recording industry, film industry, television, and radio. The class includes both lecture and extensive lab experience. (as needed)

CSCI 1200 Adventures in Computing (3 credits)—This course is intended for majors and non-majors. Students will gain a working knowledge of programming basics, problem solving, algorithm development, debugging strategies, and a modern programming environment. Students will also acquire skills that can be applied to problem solving using programs and the practice of computer science. (fall, spring)

CSCI 1250 Introduction to Computer Science I (4 credits)—*Prerequisite(s): Pass or take CSCI 1100 and MATH 1720 or two years of high school algebra.* Students who are required to take developmental math must successfully complete it before taking CSCI 1250. Introduction to all aspects of the programming and problem-solving process and the elements of good programming style. A high-level language will be used as a vehicle for introducing these concepts. Laboratory use of the computer in designing, coding, debugging, and executing programs is an integral part of the course. (fall, spring)

CSCI 1260 Introduction to Computer Science II (4 credits)—*Prerequisite(s): CSCI 1100 or proficiency test and CSCI 1250.* Programming in a high-level language, including programming concepts, good style, algorithms, documentation, and elementary data structures. (fall, spring)

CSCI 1270 Business-Oriented Programming (4 credits)—*Prerequisite(s): CSCI 1250 or permission of instructor.* Designing and writing programs for business applications in a standardized high-level language with emphasis on structure, algorithms, and good programming practice.

CSCI 1510 Student in University (3 credits)—This course is meant to provide guidance to first-year university students as they begin their search for directions to take in self-definition, intellectual growth, career choices, and life skills. Only first semester students may enroll. (fall, spring)

CSCI 1600 Visual Programming with Applications (3 credits)—*Corequisite(s): CSCI 1100.* An introduction to developing applications using a scripting language. This course is designed to show how to analyze problems, design solutions, and implement applications using a visual programming language in conjunction with applications such as word processing, spreadsheets, presentation software, and database management. Laboratory use of software and team participation are essential to this course.

CSCI 1710 Essentials of Web Development (3 credits)—An introduction to the World Wide Web as both a user and a developer. This course is designed to take the user from creating web pages to designing a large web site. Emphasis will be on the use of existing software applications that generate web-ready code. Other topics will include HTML, multimedia integration, and browser plug-ins. Laboratory use of software and team participation is an integral part of this course. (fall, spring, summer)

CSCI 1720 World Wide Web - Advanced (3 credits)—*Prerequisite(s): CSCI 1710.* This course will cover topics to help students develop professional and innovative (client-side only) Web applications. Topics will include current tools and techniques to increase the usefulness and effectiveness of Web sites, advanced Web style guidelines, integration of current Web standards, graphic design theory, appropriate use of colors, writing for the Web, introduction to usability testing, and real-world implementation considerations. (spring)

CSCI 1800 Visual Programming I (4 credits)—*Prerequisite(s): CSCI 1100 and MATH 1720 or two years of high school algebra.* An introduction to all aspects of the programming and problem-solving process and the elements of good programming style. Visual Basic will be used as a vehicle for introducing these concepts. Laboratory use of the computer in designing, implementing, debugging, and executing programs is an integral part of the course.

CSCI 1900 Math for Computer Science (3 credits)—*Prerequisite(s): Two years of high school algebra or equivalent, Corequisite: CSCI 1250 or 1800.* Students will gain a working knowledge of set theory, mathematical induction and recursion, relations and digraphs, functions, trees and languages, finite-state machines, and languages and see how these topics are applied to the practice of computer science. (fall, spring, summer)

CSCI 2020 Fundamentals of Database (3 credits) — *Prerequisite: CSCI 1250.* This course will introduce students to the essential skills of creating, maintaining, and querying a database system. Basic methodologies for transferring data between a database and a program or web page will be covered. Also considered will be methodologies for database design to ensure consistency and accuracy of the data. (fall, spring)

CSCI 2038 Honors Professional Ethics (3 credits)—*Prerequisite(s): Admission to College of Business and Technology or University Honors Program; and sophomore standing.* A case-study approach to basic ethical issues likely to confront engineers, computer scientists, and family and consumer scientists in their professional practices.

CSCI 2042 The Computer Science of Science Fiction (3 credits)—*Prerequisite(s): CSCI 1100 or equivalent.* This course explores the history and future of computing by analyzing the portrayal of computers in works of science fiction. Students will learn how to critically analyze technical content in fiction based on the current state of the art technologies in computer science.

CSCI 2100 Introduction to C (3 credits)—Syntax and structure of the C programming language. The laboratory use of the computer in designing, coding, debugging, and executing programs in C is an integral part of the course.

CSCI 2150 Computer Organization (4 credits)—*Prerequisite(s): CSCI 1900 and CSCI 1250.* A study of the physical implementation of the computer beginning with the mathematical and logical foundations followed by the component level design then concluded with an introduction to machine architecture. Topics include Boolean algebra, data representation, logic gates, combinational and sequential circuit design, memory cells, memory subsystems, memory hierarchy, I/O subsystems, I/O handling, interrupts, instruction representation, error detection, and serial protocols. A laboratory part of the course will provide hands-on experience in upgrading, repairing, and maintaining personal computers. (fall, spring)

CSCI 2160 Assembly Language (4 credits)—*Prerequisite(s): CSCI 1260 and CSCI 2150.* The assembly language of a modern computer including the instruction set, pseudo-operations, macros, and conditional assembly, object code, use of dumps, coding and linkage conventions, addressing techniques, and use of the assembler. Laboratory use of the computer in designing, coding, debugging, and executing programs is an integral part of the course. (fall, spring)

CSCI 2200 UNIX Fundamentals (3 credits)—*Prerequisite: CSCI 1250.* UNIX and UNIX-like command environments, including basic UNIX command-line commands and utilities; a representative UNIX interface; and a UNIX-based scripting language. (fall, spring)

CSCI 2210 Data Structures (4 credits)—*Prerequisite(s): CSCI 1260 and CSCI 1900.* Strings, vectors, lists, stacks, queues, arrays, trees, hash tables and associative containers, algorithm and elementary analysis. Laboratory use of the computer in designing, coding, debugging, and executing programs is an integral part of the course. (fall, spring)

CSCI 2230 File Processing (4 credits)—*Prerequisite(s): CSCI 2210 and CSCI 1260.* The study of the techniques and underlying principles of information storage and retrieval. System utilities, use of DASD, and other media. Sequential and random processing, consecutive, indexed, and other relative access methods. Laboratory use of the computer in designing, coding, debugging, and executing programs is an integral part of the course. (fall, spring)

CSCI 2235 Introduction of Unix (1 credit)—*Prerequisite(s): CSCI 1250 or CSCI 1800.* An overview of the Unix operating systems environment, with special emphasis on bash scripting. Topics include the basic Unix command set, Unix test editing, filters, key utility programs, bash shell programming, and Unix multiprocessing and job control commands.

CSCI 2300 Essentials of Information Security (3 credits) — *Prerequisite(s): CSCI 1100 or evidence of equivalent skills.* The course presents critical concepts and skills that are related to protecting information assets from harm. Topics include the history of information security, basic security-related terminology and concepts, major classes of threats to information security, model strategies for understanding and protecting against those threats, and best practices in information security. (fall, spring)

CSCI 2800 Visual Programming - Advanced Concepts (4 credits)—*Prerequisite(s): CSCI 1800 and CSCI 2020.* A study of computer programming as a rapid application development (RAD) tool using a windows interface. Object-oriented design and programming concepts will be emphasized including interface design, program flow, data flow, control structures, data types, elementary data structures, subprograms, and reusability. The current platform is Visual Basic.

CSCI 2910 Server-Side Web Programming (4 credits)—*Prerequisite(s): CSCI 1710, CSCI 2020, and CSCI 1260.* This course covers strategies for developing maintainable and efficient server-side Web applications. Topics include object-oriented methodology, server-side scripting languages, sessions, database integration with web applications, and web site security. (fall, spring)

CSCI 3030 Technical Communication (3 credits) — *Prerequisite(s): ENGL 1010 and 1020.* Preparation of written information in scientific

and technical fields, including reports, specifications, handbooks, and papers designed for publication in technical and scientific journals. Exercises in oral communication as applied to scientific and technical fields will also be an integral part of the course.

CSCI 3048 Honors Methods of Research (3 credits) — *Prerequisite(s): Admission to College of Business and Technology or University Honors Program.* This course provides an introduction to the theory and practice of academic research as conducted in the computer sciences. Topics include the types of research, types of research results, the notion of quality in research, forces shaping CS research, categories of research publications, avenues for disseminating research, resources for locating published research, expectations for theses and projects reports, and suggestions for resolving standard challenges in research. Concerns related to the practice and presentation of research will be illustrated using readings from contemporary research papers and reference materials.

CSCI 3110 Advanced Topics in Web Development (3 credits) — *Prerequisite(s): CSCI 1710 and CSCI 1260.* This course will cover advanced Web coding concepts and teach students how to add an extra layer of usability to a Web page using a current scripting language or tool. Students will learn how to create accessible modern web applications that integrate current Web standards. (fall)

CSCI 3250 Software Engineering I (3 credits) — *Prerequisite(s): CSCI 2230 or 2910.* An introduction to software systems development as an engineering discipline. All phases of the software development life cycle are examined, with particular emphasis on requirements analysis, requirements specification, and preliminary design. Participation on realistic team projects, use of automated tools, written and oral communication skills, exposure to legal, professional, and ethical issues is stressed. (fall, spring)

CSCI 3350 Software Engineering II (3 credits) — *Prerequisite: CSCI 3250.* Software development as an engineering discipline with emphasis on detailed design, implementation, testing, maintenance, project management, verification and validation, configuration management, and software quality assurance. Communications (written and oral), legal, professional, ethical issues, participation on team projects, and use of automated tools are integral. (fall, spring)

CSCI 3400 Networking Fundamentals (3 credits) — *Prerequisite(s): CSCI 2150 and CSCI 1900.* A study of concerns related to the operation of computer networks. Topics include incentives for computer networking, the OSI model of network operation, network media, theory and practice of local area networking, bridging, switching, and routing. Principles of TCP/IP network operation. (fall, spring)

CSCI 3800 Visual Programming for Programmers (4 credits)—*Prerequisite: CSCI 1260.* This course is an introduction to developing computer software applications using a language such as visual Basic. The course is designed to show how to analyze problems, design solutions, and implement applications that use current language tools. Emphasis will be given to the development of computer solutions. Laboratory use of software and team participation is essential to this course. (fall)

CSCI 4018 Senior Honors Thesis (3-6 credits)—*Prerequisite(s): Satisfactory completion of all college honors classes and advisor approval.* This thesis is a capstone academic experience bringing into focus the result of the students' learning and career interests.

CSCI 4027/5027 Information Management (3 credits)—*Prerequisite(s): Permission of instructor.* Provides an overview of DBMS concepts and topics appropriate to professionals who will be concerned with the management of DBMS servers and their use within a corporate setting. (fall)

CSCI 4048 Honors International Study (3 credits)—*Prerequisite(s): Satisfactory completion of all CAST Honors courses or college honors committee approval.* This course will consist of a two-week international study and cultural experience in addition to a pre-tour orientation.

CSCI 4057/5057 Advanced Internet Technologies (3 credits)—*Prerequisite(s): Permission of instructor.* This course is intended to give a computer science professional training in state-of-the-art Internet design tools by building upon their existing background as programmers. Topics will address advanced issues in design, optimization, and maintenance of web pages and web sites, the latest in server and client-side programming, and other emerging technologies.

CSCI 4067/5067 Networking Essentials (3 credits)—*Prerequisite(s): Permission of instructor.* This course is designed to provide students with general concepts of data communication and networking using popular conceptual models. It will also cover the system administration aspect of networking by focusing on the latest developments and the current operating systems.

CSCI 4097/5097 Emerging Technologies (3 credits)—*Prerequisite(s): Permission of instructor.* The course is designed to cover the most up-to-date topics in the computer science and technology field. Due to the ever-changing nature of technology, the topics covered in this class will change on a semester basis in order to keep up with the current developments. This course may be repeated for credit as the topics differ from semester to semester.

CSCI 4127/5127 Database Management Systems I (3 credits)—*Prerequisite(s): CSCI 2020 and CSCI 2210 or 2910.* A study of the use and underlying principles of database management systems, and approaches for database design with an emphasis on the relational approach. Students will learn how to use good design techniques and implement methods for both small and large databases. Laboratory use of database software for designing, implementing, debugging, and maintaining database systems will be an integral part of this course.

CSCI 4157/5157 Interactive Graphics (3 credits)—*Prerequisite(s): CSCI 2210 and MATH 2250; or permission of instructor.* Point plotting, vector generation, interactive techniques, two- and three-dimensional transformations, perspective depth, hidden line elimination, shading, colors, and mapping.

CSCI 4217/5217 Ethical Issues in Computing (3 credits)—*Prerequisite(s): CSCI 3250.* A study of the ethical issues facing computer users and computer professionals including an examination of the techniques for the analysis and resolution of these issues consistent with standards of the computing profession. (fall, spring)

CSCI 4227/5227 Advanced Database Systems (3 credits)—*Prerequisite(s): CSCI 4127.* A continuation of the study of the use and underlying principles of database design begun in CSCI 4127. Students will learn more of the internal working of database management systems, as well as exploring approaches other than relational. Laboratory use of database software for designing, implementing, debugging, and maintaining database systems will be an integral part of this course. (spring, even years)

CSCI 4317/5317 Internet and Computer Law (3 credits)—*Prerequisite(s): Minimum of 60 hours completed or approval of the instructor.* A multidisciplinary overview of the relationship between the Internet and the laws of privacy, right to accurate information, access to information, first amendment, patents, trade secrets, trademarks and unfair business practices, jurisdiction, e-commerce, telecommunication, and antitrust. (fall)

CSCI 4417/5417 Introduction to System Administration (3 credits)—*Prerequisite(s): CSCI 2150, CSCI 2200, and CSCI 3400.* A survey of concerns related to management and design of computing systems and services. Topics include the practice of system administration, overview of network operating systems, best practices for system administration, fundamentals of Unix and Windows system administration, network design, and remote network access. The course will provide hands-on experience with setting up and administering Unix and Windows network operating systems. (fall, spring)

CSCI 4517/5517 Essentials of Multi-Media (3 credits)—*Prerequisite(s): Senior standing or permission of instructor.* A study of the basic elements of multimedia including text, graphic art, sound, animation, and video. This course will cover the methods of creating each of the elements of multimedia and how to combine them into meaningful units for maximum effect. The instruction will be interactive and project-oriented. Teamwork and good design will be emphasized. (summer)

CSCI 4527/5527 Computer-Based Authoring Systems (3 credits)—*Prerequisite(s): Senior standing or permission of instructor.* A survey of methods in computer-based authoring systems. This course will cover the design, implementation, and evaluation of computer-based training modules using one or more authoring systems. Emphasis will be on the use of hypermedia and multimedia tools, analysis of instructional goals and their evaluation, and using the World Wide Web for delivery of instruction. Laboratory experiences and group projects will be integral parts of this course.

CSCI 4717/5717 Computer Architecture (3 credits)—*Prerequisite(s): CSCI 2160 and CSCI 2210.* Computer systems are viewed as consisting of a series of layers or levels one on top of another. Topics of computer architecture are presented. Microprogramming stack computers, parallel computers, pipeline processing, multiprocessors, virtual storage, cache storage, addressing schemes, and I/O and interrupt structure. (fall)

CSCI 4727/5727 Operating Systems (3 credits)—*Prerequisite(s): CSCI 2160 and CSCI 2210.* The study of operating systems which are the primary resource managers of computer hardware. The main features provided by operating systems, including process management, storage management, processor management, and auxiliary storage management are studied in detail. Topics of networking and security are introduced. Case studies of representative commercial operating systems highlight the main features common to operating systems. Use of the computing laboratory is an integral part of the course. (spring)

CSCI 4800 Senior Project in Information Technology (3 credits)—*Prerequisite(s): Senior status in Computer Science within two semesters of graduation.* This course is designed for the last semester of study. It is a capstone course that will enable the student to tie many of his/her learning experiences together. Students will work in teams to identify software projects on campus and in the community that can be accomplished in 15 weeks. Lectures will focus on professional issues that include the short-term and long-term future of IT strategies for finding and securing employment, nontechnical elements of professional competence, and strategies for continuing career development after college. (fall, spring)

CSCI 4857/5857 User Interface Programming (4 credits)—*Prerequisite(s): CSCI 1250 and CSCI 1260; or equivalent.* The concepts and programming techniques used to create applications with modern user interfaces. The course will focus on current technology as it applies to a modern operating system and software development tools. The course will focus on the user interface rather than underlying applications. Course will not count toward graduate degree requirements in computer science.

CSCI 4900 Independent Study (1-9 credits)—*Prerequisite(s): Permission of the department.* Individual or group projects done with permission of and under supervision of faculty. This course may be repeated for credit with departmental approval.

CSCI 4905 Internship (1-3 credits) — Planned and supervised work experiences related to the practice of computing. This course does not count for credit toward a student's degree. Departmental approval required.

CSCI 4910 Selected Topics in Computer Science (1-6 credits)—*Prerequisite(s): Permission of instructor.* Selected special topics in computer science not covered in other courses. This course may be repeated for credit with departmental approval if topics are significantly different. (fall and spring, as needed)

CSCI 4927 Human Computer Interaction (3 credits) — *Prerequisite(s): CSCI 3250.* Students will learn how to assess and improve the user experience between humans and electronic devices, and to design systems that enable individuals to make more effective use of computers by creating better user interfaces. (fall, spring)

CSCI 4957/5957 Special Topics in Computer Science (1-6 credits)—*Prerequisite(s): Permission of instructor.* Special topics not covered in other courses. May be repeated for credit with departmental approval if the topics are significantly different. (fall, spring, summer)

CSCI 4989/4999 Cooperative Education (1-3 credits)—Planned and supervised work experiences in business, industry, and governmental agencies. Students spend the semester working with a cooperating employer on specific assignments. Students must clear arrangements through ETSU’s Office of Career and Internship Services prior to registering for this course. Students may receive compensation for this course as employees. This course does not count for credit toward a student’s degree. This course may be repeated for credit.

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

CSCI 5100	Computer Architecture: Advanced Concepts	(3 credits)
CSCI 5150	Distributed Systems	(3 credits)
CSCI 5200	Software Systems Engineering	(3 credits)
CSCI 5210	Specification of Software Systems	(3 credits)
CSCI 5220	Software Verification and Validation	(3 credits)
CSCI 5230	Software Project Management	(3 credits)
CSCI 5250	Database Design	(3 credits)
CSCI 5300	Principles and Applications of Software Design	(3 credits)
CSCI 5340	Graph Theory and Its Applications	(3 credits)
CSCI 5460	Security Network and Info.	(3 credits)
CSCI 5550	Directed Research I	(3 credits)
CSCI 5610	Formal Languages and Computational Complexity ...	(3 credits)
CSCI 5620	Analysis of Algorithms	(3 credits)
CSCI 5900	Independent Study	(1-9 credits)
CSCI 5910	Software Development Project I	(3 credits)
CSCI 5920	Software Development Project II	(4 credits)
CSCI 5930	Software Development Project III	(3 credits)
CSCI 5960	Thesis	(1-3 credits)
CSCI 5989-99	Cooperative Education	(1-3 credits)
CSCI 5990	Readings and Research	(1-3 credits)

**Curriculum and Instruction
CUAI**

CUAI 2440 Computer Applications in Education (3 credits)—*Prerequisite(s): CSCI-1100 or the Proficiency Exam.* This course is an examination of the specific ways computer technology contributes to the quality of the educational environment.

CUAI 3221 IDEAS: Integrating Language Arts and Social Studies (3 credits)—*Prerequisite(s): Students must be admitted to Teacher Education.* This course sets forth an integrated approach to curriculum in which social studies content, literature, and language arts skills are taught through five central themes. These central themes are I-Imagination, D-Discovery, E-Encounters, A-Adventures, and S-Synergy. Language arts skills-listening, speaking, reading, writing, and thinking-are integrated into social studies and literature experiences that are based on meaningful content and children’s experience. Students are invited to get involved in a variety of creative activities and learning situations that range from individual inquiry to group interactions.

CUAI 3430 Elementary Methods in Mathematics (K-8) (3 credits)—*Prerequisite(s): HDAL 2320, HDAL 3310, SPED 2300, and admission to teacher education.* Designed to explore current methodology for teaching children and youth with a variety of learning and lifestyles. Modern techniques of classroom management are included. Appropriate field experiences are required.

CUAI 4008 Honors Service-Learning (1 credit)—*Prerequisite(s): Admission to the College of Education’s honors program, HDAL 2008, and PEXS 3008.* Honors service-learning in social/cultural agencies and programs related to education.

CUAI 4018 Senior Honors Thesis (3 - 6 credits)—Open to those in university honor programs only. A capstone experience serving as the culmination of an honors curriculum.

CUAI 4210 Integrated Teaching: Language Arts (3 credits)—*Corequisite(s): CUIAI 4220, CUIAI 4310, CUIAI 4241, and READ 4026.* This course focuses on planning for teaching and learning, writing objectives, identifying materials, and defining strategies for teaching listening, speaking, reading, and writing in grades K-6. The emphasis is on planning, implementing, and assessing an integrated program on student learning and effective teaching.

CUAI 4220 Integrated Teaching: Social Studies (3 credits)—*Corequisite(s): CUIAI 4210, CUIAI 4310, CUIAI 4241, and READ 4026.* This course is designed to explore the current methodology and content of early- and intermediate-grade social studies education. Students design and implement learning experiences that incorporate meaningful uses of social studies concepts during field experiences.

CUAI 4230 Integrated Field Experience I (1 credit)—*Prerequisite(s): Admission to teacher education, MEDA 3570, HDAL 3310, READ 3100 and SPED 2300; Corequisite(s): CUIAI 4210 and CUIAI 4220.* This course is a school-based field experience that accommodates the requirements for CUIAI 4210 and CUIAI 4220. Students participate in planning, implementing, and evaluating integrated instruction appropriate for students of varying backgrounds and abilities.

CUAI 4240 Methods and Materials in Curriculum and Instruction (9 credits) —*Prerequisite(s): Admission to teacher education and completion of HDAL 3310, MEDA 3570, READ 3200, READ 3000, and SPED 2300; Corequisite(s): CUIAI 4241.* This course focuses on methods and materials in grades K-6. Areas of emphasis are planning, implementing, and assessing teaching and learning, integrating content and technology, and understanding and applying learning theories in the content areas. Attention is given to diversity, current issues, reflection, problem solving, and the application of content.

CUAI 4241 Performance Assessment in Clinical Settings (3 credits)—*Prerequisite(s): Admission to teacher education, SCED 4321, READ 3200, EDFN 3301, and MEDA 3570; Corequisite(s): CUIAI 4210, CUIAI 4220, CUIAI 4310, and READ 4026.* This course is a clinical field experience that accommodates the performance-based requirements for the Interdisciplinary Studies in Education major. The course provides opportunities for planning, implementing, and evaluating integrated instruction developmentally appropriate for students of varying backgrounds and abilities. Evaluation and assessment of teaching skills and practices developed in methods and content courses are emphasized. Evaluation and assessment of teaching effectiveness in relation to improvement of student learning is expected. Collection and development of pre-service teacher work samples, as well as work samples from the clinical are evaluated through the Developmental Teaching Portfolio – Evaluative Level and an oral presentation. Reflective thinking, as well as continuous, ongoing improvement in preparation for the profession of teaching are stressed.

CUAI 4310 Integrated Teaching: Mathematics (3 credits)—*Corequisite(s): CUIAI 4210, CUIAI 4220, CUIAI 4241, and READ 4026.* This course addresses methodology and theories for teaching and learning elementary mathematics (K-6) with attention paid to problem solving, diversity, current technologies, assessment (including diagnosis and remediation), current issues in mathematics education, reflective teaching and learning, and the application of mathematics to everyday life.

CUAI 4407/5407 Integrating the Creative Arts: K-8 (3 credits)—*Prerequisite(s): Admission to Teacher Education.* Strategies for promoting the creative processes in children K-8 will be studied. Areas of focus will include visual arts, music, dance, and theatre. The importance of the arts in the development of children and their capacity for expression will be

emphasized. The arts will lead to interdisciplinary study with authentic connections among and across other disciplines

The following courses are designed to examine current methodology for teaching youth and adults possessing a variety of learning and lifestyles in the secondary school (7-12) Prerequisite(s): Admission to Teacher Education.

ARTA	4419	Teaching Art in Secondary Schools	(3 credits)
BIOL	4417/5417	Teaching Biology in High School	(3 credits)
ENGL	4417/5417	Teaching English in Secondary Schools	(3 credits)
GEOG	4417/5417	The Teaching of Geography and Earth Science .	(3 credits)
HIST	4417/5417	The Teaching of History	(3 credits)
LANG	4417/5417	Teaching of Modern Languages	(3 credits)
MATH	4417/5417	Teaching of Secondary Mathematics	(3 credits)
SCED	4417/5417	Teaching Science in Secondary School	(3 credits)
THEA	4417/5417	Teaching Theatre Grades K-12	(3 credits)

CUAI 4417/5417 Secondary School Curriculum and Methodology (3 credits)—Prerequisite(s): Admission to Teacher Education; Corequisite(s): Enrollment in CUAI 4427/5427. This course focuses on teaching and learning in secondary school and includes the study of curriculum and methodology suitable for a variety of life and learning styles. Evaluative Level Portfolio required. Fall, Spring

CUAI 4427/5427 Secondary School Curriculum and Methodology Field Experience (1 credit)—Prerequisite(s): Admission to Teacher Education Corequisite(s): Enrollment in CUAI 4417/5417. This field experience provides students with a school setting to implement class activities. Students are required to spend 30 hours working primarily with one mentor and a single class of students. Evaluative Level Portfolio required. Fall, Spring

CUAI 4437/5437 English as a Second Language (ESL) Assessment and Testing (2 credits)—This course is designed to equip participants with the knowledge and skills necessary to use multiple sources of information as they test and assess the English language proficiency of non-native speakers of English, place them for appropriate ESL and academic instruction, and assess their ongoing progress toward native-like proficiency and performance.

CUAI 4447/5447 English as a Second Language (ESL) Reading and Instruction (2 credits)—This course is designed to equip participants with the knowledge and skills necessary to develop appropriate curricula and instructional activities to fit the reading needs of non-English language background students with limitations in English proficiency that negatively affect their comprehension of English in print.

CUAI 4457/5457 English as a Second Language (ESL) Methods and Techniques (K-12) (2 credits)—This course explores pedagogical approaches to teaching Limited English Proficient (LEP) students in the K-12 arena. Some of the approaches to be explored are the natural approach, total physical response (TPR), cooperative learning, the language experience, integrated language teaching, whole language, and the cognitive academic language learning approach (CALLA).

CUAI 4467/5467 English as a Second Language (ESL) Curriculum Development (K-12) (2 credits)—This course exposes K-12 practitioners to curricular strategies that have been field tested in K-12 classrooms and found to support student learning. The strategies under investigation were developed by teachers and researchers working together to provide an education to children beginning to learn English. Strategies were selected on the basis of their usefulness in making rigorous core curriculum meaningful to students whose knowledge of English might otherwise hinder their academic progress.

CUAI 4517/5517 Math Methods for Early Childhood (3 credits)—Prerequisite(s): Admission to Teacher Education and completion of all math requirements; Corequisite(s): This course is to be taken with CUAI 4527/5527 and 4537/5537. This course is designed to explore current methodology and materials for teaching mathematics to PreK-4 early childhood students. Appropriate field experiences are required.

CUAI 4537/5537 Integrated Field Experience for Early Childhood (1 credit)—Prerequisite(s): Admission to Teacher Education and successful completion of undergraduate math and science requirements; Corequisite(s): This course is to be taken with SCED 4527/5527 and CUAI 4517/5517. This course is a school-based course that builds on earlier field experience in the program and is connected to block of methods courses. Students will be expected to work 30 hours in schools and be involved with planning and implementing instruction for students of varying backgrounds and abilities in the areas of math and science.

CUAI 4547/5547 Emergent Literacy: PreK-4 (3 credits)—Prerequisite(s): Admission to Teacher Education. This course is designed to provide undergraduate and graduate students with a foundation for teaching reading and other literacy competencies to children in pre-k through grade 4. Emphasis is on developing and enlarging understanding of the reading process and the teaching of reading. Strategies and protocols for effective reading and writing instruction are presented.

CUAI 4580 Directed Student Teaching (1-12 credits)—Prerequisite(s): Admission and retention in teacher education and admission to student teaching. Supervised teaching in the modern public school for elementary (K-8), or secondary (7-12) levels. Professional level portfolio required.

CUAI 4707/5707 Classroom Management and Discipline In Regular Classroom Settings (3 credits)—Prerequisite(s): EDFN 3300 and EDFN 3310; or Teacher Licensure. Major theoretical and empirical approaches to classroom management and discipline, applications of principles to specific routine and non-routine situations in regular K-12 classrooms, and problem-solving strategies.

CUAI 4900 Independent Study (1-6 credits)—Departmental approval required.

CUAI 4957/5957 Topics in Curriculum and Instruction (1-6 credits)—Dependent on subject matter. Selected topics of current interest in curriculum and instruction. Offered upon sufficient demand for specific subject matter. May be repeated for different topics. Consultation with the instructor is recommended before enrollment.

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

CUAI	5110	Elementary Curriculum	(3 credits)
CUAI	5111	Curriculum and Instruction Workshop	(1-6 credits)
CUAI	5113	Instructional Excellence in Mathematics (K-8)	(3 credits)
CUAI	5114	Instructional Excellence In Science (K-8)	(3 credits)
CUAI	5115	Instructional Excellence in Social Studies (K-8)	(3 credits)
CUAI	5199	Teaching in a Diverse Society	(3 credits)
CUAI	5200	Middle School/Junior High Curriculum	(3 credits)
CUAI	5210	Curriculum Development	(3 credits)
CUAI	5220	Secondary School Curriculum	(3 credits)
CUAI	5415	Block I: Communications	(6 credits)
CUAI	5416	Block II: Reasoning	(6 credits)
CUAI	5419	Block I: Communications Field Experience	(1 credit)
CUAI	5420	Elementary and Middle School Curriculum (K-8)	(1 credit)
CUAI	5421	Block II: Reasoning Field Experience	(1 credit)
CUAI	5437	ESL Assessment and Testing	(2 credits)
CUAI	5457	ESL Methods and Techniques (K-12)	(2 credits)
CUAI	5467	ESL Curriculum Development (K-12)	(2 credits)
CUAI	5580	Enhanced Student Teaching for MAT	(9 credits)
CUAI	5900	Independent Study	(1-6 credits)
CUAI	5910	Assessment Techniques in the Classroom	(3 credits)
CUAI	5990	Readings and Research	(1-6 credits)

Dance DANC

DANC 2105 Beginning Ballet (1 credit)—An introduction to ballet dance.

DANC 2110 Intermediate Ballet (1 credit)—Ballet techniques at an intermediate level.

DANC 2115 Contemporary Dance (1 credit)—A survey of various types/styles of contemporary dances such as Country-Western, ballroom, folk and square dance, and modern dance.

DANC 2120 Folk Dance (1 credit)—A survey of various folk dances from around the world. Emphasis in basic steps and the influences of dance on culture and history.

DANC 2125 Jazz Dance (1 credit)—The course will provide the student with basic instruction and practice of jazz dance techniques, including a variety of styles. It will briefly address the history of jazz dance and the course of its development in America.

DANC 2130 Modern Dance (1 credit)—An introduction to modern dance technique.

DANC 2135 Social Dance (1 credit)—A course in various social dance steps such as tango, cha-cha, waltz, two-step, and rumba.

DANC 2150 Tap Dance (1 credit)—An introduction to tap dance technique.

DANC 2160 Country and Western Dance (1 credit)—This course will teach basic skills and dance floor etiquette used in Country/Western dance. Information will be disseminated on the history, dance terms, basic steps, and positions used in couple and line dances.

DANC 3500 Dance as a Human Experience (3 credits)—This course involves the study of dance as a societal phenomenon. Students will examine the unique characteristics of dance and its various functions in society. Emphasis will be on dance in Western Civilization. However, materials will be included to the extent that they have influenced the development of dance in the West.

Dental Hygiene DHYG

DHYG 2020 Dental Anatomy and Histology (3 credits)—*Prerequisite(s): Acceptance in the Dental Hygiene curriculum or special department approval.* An introduction to the embryology, histology, and morphology of the structures found within the oral cavity. Study will include physiologic function of oral structures, tooth identification, and normal variants of oral anatomy. Root morphology will receive special emphasis.

DHYG 2030 Pre-Clinical Dental Hygiene Lecture (3 credits)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* An introduction to the knowledge, responsibilities, and skills required by the dental hygiene therapist to provide oral health care.

DHYG 2031 Pre-Clinical Laboratory (3 credits)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval; Corequisite(s): In conjunction with DHYG 2500.* Clinical skills will be introduced on dental manikins. Resulting skills will be mastered on clinical lab partners with direct faculty supervision.

DHYG 2040 Dental Office Emergencies (2 credits)—*Prerequisite(s): Acceptance to dental hygiene program or special permission.* The study of medical emergencies, as it relates to the practice of dental hygiene.

DHYG 2050 Occupational Safety for Dental Health Care Workers (1 credit)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* A study of transmittable and acquired diseases and disorders associated with the practice of dental hygiene. The techniques and practices required to prevent such diseases will also be introduced.

DHYG 2060 Introduction to Dental Hygiene (1 credit)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* Lecture and group discussion regarding the history, professional, legal, and ethical aspects of dental hygiene. The course is intended to introduce the dental hygiene student to the field of dental hygiene and the practice of dentistry.

DHYG 2130 Dental Hygiene Clinical Seminar I (1 credit)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* To provide the dental hygiene student with the knowledge and skills required to treat the patient with special needs.

DHYG 2131 Dental Hygiene Clinical Practice I (4 credits)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* This course is a continuation of DHYG 2501, and provides a supervised clinical setting for dental hygiene students to practice and demonstrate acquired skills and concepts with patient care.

DHYG 2160 Periodontology (3 credits)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* The study of periodontics. Designed to prepare students for clinical practice including treatment of early periodontal diseases.

DHYG 2170 Dental Radiology (3 credits)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* A study of the use of radiography in dentistry. Emphasis is placed on the formation of radiation and the properties which affect the dental image, dental radiographic techniques, radiographic processing, radio biological health, and the evaluation of dental radiographs for dental disease.

DHYG 2171 Dental Radiology Laboratory (1 credit)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* Laboratory experience in processing procedures and the techniques necessary to expose both bisecting and paralleling technique full-mouth series, interproximal surveys, panoramic, occlusal, and extraoral radiographs.

DHYG 3010 Head and Neck Anatomy (2 credits)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* The study of head and neck anatomy as it applies to oral evaluation, radiographic interpretation, and dental hygiene treatment.

DHYG 3020 General and Oral Pathology (3 credits)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* An introduction to general and oral pathology focusing on those diseases that most frequently manifest in the oral cavity. Study will include etiology, clinical signs and symptoms, and treatment of diseases known to affect the oral cavity.

DHYG 3030 Dental Hygiene Clinical Seminar II (2 credits)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* The study of management skills essential to the contemporary dental hygiene practice including the use of computers in practice management.

DHYG 3031 Dental Hygiene Clinical Practice II (4 credits)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* Clinical Practice II is a continuum of previous clinical courses. Skills and concepts are refined and expanded.

DHYG 3100 Dental Hygiene Theory and Practice (5 credits)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* A study that will provide licensed dental hygienists the opportunity to evaluate current dental hygiene therapies, interpreting them for application in dental hygiene practice.

DHYG 3110 Dental Materials (2 credits)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* A study of the characteristics, physical properties, manipulation, uses, and care of materials used in the practice of dentistry and dental hygiene.

DHYG 3111 Dental Materials Laboratory (1 credit)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* Three-hour lab that includes demonstration, participation, and practice with accepted materials and techniques commonly utilized in dental hygiene practice.

DHYG 3120 Pharmacology for Dental Hygiene (3 credits)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* The study of pharmacology as it relates to dental hygiene practice.

DHYG 3130 Community Dental Health (3 credits)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* Survey of the theory and practice of dental public health, with emphasis on assessment, planning, implementation, and evaluation of community health

problems. Includes the study of biostatistics, epidemiology, and their relationship to dental public health.

DHYG 3200 Issues in Dental Hygiene (1 credit)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* A study of dental and dental hygiene practice setting, legal and ethical issues, methods of procuring employment, compensation mechanisms, and types of insurance.

DHYG 4000 Dental Radiographic Interpretation (1 credit)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* A laboratory course introducing the dental hygiene student to the principles of radiographic interpretation of anomalies and the identification of normal anatomic landmarks.

DHYG 4010 Teaching Strategies for Allied Health (3 credits)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* A study of the basic principles of developing and implementing classroom presentations. Emphasis will be placed on the basics of the educational process, leading to the development of a dental health lesson plan for the dental hygienist.

DHYG 4020 Dental Hygiene Clinical Seminar III (1 credit)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* Utilization of current technology to research selected dental hygiene topics and prepare multimedia presentations.

DHYG 4021 Dental Hygiene Clinical Practice III (4 credits)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* Clinical Practice IV is a continuum of previous clinical courses. Skills and concepts continue to be refined and expanded.

DHYG 4030 Anesthesia and Pain Control (1 credit)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* This course provides theory and delivery techniques required to administer local anesthetics for pain control during dental hygiene therapies.

DHYG 4110 Supportive Periodontal Therapy (3 credits)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* The advanced study of periodontics, designed to prepare students for clinical practice including treatment of early periodontal diseases.

DHYG 4120 Dental Hygiene Clinical Seminar IV (1 credit)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* Methods used in biostatistical research will be reviewed in an effort to assist the dental hygiene students in the construction of instruments which collect valid and reliable data.

DHYG 4121 Dental Hygiene Clinical Practice IV (4 credits)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* Clinical Practice IV is a continuum of previous clinical courses. Skills and concepts continue to be refined and expanded.

DHYG 4130 Geriatric Dental Hygiene (2 credits)—*Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval.* An introduction to the special considerations of the segment of the geriatric population confined to long-term care facilities. Dental health education strategies will be incorporated to assist students' design and presentation of in-services to nursing home staff.

Digital Media DIGM

DIGM 1100 Visual Thinking (4 credits)—An introduction to the problems, principles, and process involved in the ideation, conceptual design, and verbal/visual communication of media solutions. In this course students will learn to apply design thinking skills, rapid visualization techniques, and design process templates to define, design, and develop a comprehensive project proposal, product, and implementation plan. Fundamental to this course is the development of drawing skills using traditional media to thumbnail, draw, and diagram the information, visual

interfaces, and user interactions associated with project/product design solutions. Lecture and lab. (fall, spring)

DIGM 1640 Vector-Based Imaging (4 credits)—*Prerequisite or corequisite: DIGM 1100; or permission of instructor.* Study of vector-based image production with particular emphasis on postscript illustration and communication. Both technical and design considerations that work to improve the student's ability to communicate graphically will be addressed. This class features a combination of graphic production projects, critiques, readings, and discussions. Lecture and lab. (fall, spring)

DIGM 1650 Raster-Based Imaging (4 credits)—*Prerequisite or corequisite: DIGM 1100; or permission of instructor.* Study of digital imaging and processing as related to modern industrial problems. Areas of study will include a review of historical methods of manipulating images compared with recent innovations in technology and the use of digital formats. Image design, color usage, and computer-based production of both traditional and digital publications will be studied. Lecture and lab. (fall, spring)

DIGM 2821 Desktop Publishing (4 credits)—*Prerequisite(s): DIGM 1100, ARTA 1110, DIGM 1640, DIGM 1650.* Study of history, basic processes, materials and methods of the graphic arts and communications industries with emphasis on methods of computer-based print production, typography, and layout. Lecture and lab. (fall, spring)

DIGM 2870 Animation Fundamentals (4 credits)—*Prerequisite(s): DIGM 1100, DIGM 1640, and ARTA 1201; or permission of instructor.* Study of the fundamental principles and mechanics of motion through hand-drawn animation. Students explore timing, spacing, and staging an image for clarity, gravity, emotion and storytelling, and learn to apply and manipulate the fundamental concepts to creatively animate an idea. The coursework will serve as a foundation for comprehending the underlying principles and mechanics for any form of animation. Lecture and lab. (fall, spring)

DIGM 2900 Motion Tools I: Editing (4 credits)—*Prerequisite(s): DIGM 1100, DIGM 1650 or permission of instructor.* Study of file-based digital video basics including basic compositing and an overview of the motion production process. Topics include pre-production, storyboarding, audio/video capture, editing of raw content into multi-layered final products, post-production processing of audio/video files for various delivery scenarios, and a review of historical motion picture and motion graphics production compared with recent technology innovations in the production process. Lecture and lab. (fall, spring)

DIGM 3000 Principles of Interaction (4 credits)—*Prerequisite(s): DIGM 1650, DIGM 1640, ARTA 1110 or permission of the instructor; Prerequisite(s) or Corequisite(s): ARTA 1204.* This course provides practical and theoretical knowledge in interactive development. Through lectures and studio application of the underlying interactive principles, the student will experience, and gain a comprehensive understanding of interactive project planning, media components, interactive delivery systems, information architecture, usability, user interface design, and interactive application development. Principles governing critical analysis of interactive content and graphical design will be emphasized. (fall, spring)

DIGM 3010 Principles of Visualization (4 credits)—*Prerequisite(s): DIGM 1640, DIGM 1650, ARTA 1110 or permission of the instructor; Prerequisite(s) or Corequisite(s): ARTA 1204.* This course provides practical and theoretical knowledge in visualization. Through lectures and studio application of the underlying principles, students will gain a comprehensive understanding of visualization as follows: modeling, lighting, surface rendering, animation, and digital video exporting. Lecture and lab. (fall, spring)

DIGM 3110 3-D Model Design (4 credits)—*Prerequisite(s): DIGM 3010, ARTA 1204 or permission of instructor.* Working with state-of-the-

art software, this course provides an introduction to 3-D model design. Students will learn how to utilize modeling techniques and applications to gain a basic understanding of NURBS, polygon, and subdivision surfaces to design organized virtual models. Lecture and lab. (fall, spring)

DIGM 3120 3-D Lighting & Rendering (4 credits)—*Prerequisite(s): DIGM 3010, ARTA 1204, or permission of instructor.* This course provides a practical and theoretical understanding of lighting, rendering, and setting up cameras in a 3-D virtual environment. Students will learn how to utilize a number of texturing and mapping techniques, rendering applications, and gain a basic understanding of rendering effects, and specific output issues. Areas of emphasis include shading models, 2-D bitmap, and 3-D procedural texture types, solid and surface mapping types, and techniques for creating stylized and realistic textures. Lecture and lab. (fall)

DIGM 3130 3-D Animation (4 credits)—*Prerequisite(s): DIGM 3010 and DIGM 2870.* Study of 3-D as it relates to the basic principles of animation. Students will learn to create believable and natural animations using a combination of several different techniques including inverse kinematics (IK), forward kinematics (FK), bones, morphing, and key-framing. Lecture and lab. (spring)

DIGM 3200 Web Design (4 credits)—*Prerequisite(s): (Digital Media Majors) DIGM 3000, or permission of instructor; Prerequisite(s): (Other Majors) DIGM 1650, CSCI 1710, or permission of instructor.* This course provides a practical understanding of the knowledge and skills required of fine and applied visual artists in today's internet environment. Various interdisciplinary aspects will be considered. Emphasis will be on combining intermediate Web techniques with advanced design concepts to create sophisticated interface imagery and animations for the Web. Lecture and lab. (fall)

DIGM 3300 Product Design (4 credits)—*Prerequisite(s): DIGM 3110 or permission of instructor.* An introduction to the problems, principles, and processes involved in the ideation, conceptual design, and digital modeling of product design solutions. In this course students will learn about material characteristics, 3-D modeling techniques, and manufacturing methods, and be able to render, model, and design innovative product designs. Lecture and lab. (spring, even years)

DIGM 3400 Interactive Design (4 credits)—*Prerequisite(s): DIGM 2821, DIGM 3000, or permission of instructor.* This course is a study of the integration of components utilized in multimedia applications with authoring software. Students use industry standard software as a tool for producing interactive projects for CD-ROM, information KIOSK, DVD or Internet delivery. Students will learn the fundamentals of design for these platforms including interactive storytelling, navigation metaphors, technical constraints, and usability. Topics include but are not limited to basic animation techniques, transitions, user interactivity, basic scripting, interactive development process and usability. Efficiency and optimization of programs as well as usability and interface design will be emphasized. Lecture and lab. (spring)

DIGM 4018 Senior Honors Thesis (3 - 6 credits)—Open to those in university honor programs only. A capstone experience serving as the culmination of an honors curriculum.

DIGM 4146 Character Animation Laboratory (1 credit)—*Prerequisite(s): DIGM 2870, DIGM 3010, ARTA 1201, ARTA 1204; Corequisite(s): DIGM 4147.* This course will incorporate advanced-level laboratory exercises and explorations in character animation production. (spring)

DIGM 4147/5147 Fundamentals of Character Animation (3 credits)—*Prerequisite(s): DIGM 2870, DIGM 3010, ARTA 1201, ARTA 1204 or permission of instructor; Corequisite(s): DIGM 4146.* This course emphasizes the practical and theoretical principles of character animation. Students will explore how to put personality into characters and develop

skills to create characters that act. The exercises will provide a foundation for comprehending the underlying techniques for capturing expression of emotions in animation. (spring)

DIGM 4400 Interactive Development (4 credits)—*Prerequisite(s): DIGM 3000, CSCI 1800, or permission of instructor.* This class goes beyond multimedia animation and design to explore interactive programming techniques including conditional statements, loops, subroutines, functions, operators, multi-level movie clips, properties, variables, game programming, and shockwave output. Students will build upon a solid understanding of interactive authoring to develop advanced multimedia applications. Lecture and lab.

DIGM 4616 Raster-Based Imaging Laboratory (1 credit)—*Prerequisite(s): DIGM 1650, ARTA 1204, or permission of instructor; Corequisite(s): DIGM 4617.* This course will incorporate advanced-level laboratory exercises and explorations in raster-based imaging and illustration. (spring)

DIGM 4617/5617 Advanced Raster-Based Imaging (3 credits)—*Prerequisite(s): DIGM 1650, ARTA 1204, or permission of instructor; Corequisite(s): DIGM 4616.* Study of advanced raster-based digital imaging and processing. Areas of study will include advanced methods for manipulating and compositing 2-D images, photo enhancement, and digital illustration. Customization of software tools for special effects, painting and image manipulation will be covered. Image design, concept development and creativity, and critical evaluation will be emphasized. (spring)

DIGM 4626 Motion Tools II Laboratory (1 credit)—*Prerequisite(s): DIGM 1650, DIGM 2900, DIGM 3010, or permission of instructor; Corequisite(s): DIGM 4627.* This course will incorporate advanced-level laboratory exercises and explorations in digital video compositing. (fall)

DIGM 4627/5627 Motion Tools II: Compositing (3 credits)—*Prerequisite(s): DIGM 1650, DIGM 2900, DIGM 3010, or permission of instructor; Corequisite(s): DIGM 4626.* This course covers techniques and theory concerning motion graphics and compositing for video. Instruction is designed to bridge the gaps between 3-D production rendering and final output, live action, and computer generated imagery. Work will be project-based and will provide students with short, demo-reel quality work. Though not required, skills in DVD authoring, vector-based imaging, and advanced 3-D skills are helpful. (fall)

DIGM 4636 Interaction Laboratory (1 credit)—*Prerequisite(s): DIGM 2900, DIGM 3400, and/or DIGM 4400, or permission of instructor; Corequisite(s): DIGM 4637.* This course will incorporate advanced-level laboratory exercises and explorations in interactive media production.

DIGM 4637/5637 Advanced Interaction Design (3 credits)—*Prerequisite(s): DIGM 2900, DIGM 3400, and/or DIGM 4400, or permission of instructor; Corequisite(s): DIGM 4636.* Scripting control programs on advanced digital media platforms to create interactive multimedia works comprising images, animation, digital audio and video. Students are expected to have some computer programming experience.

DIGM 4646 Animation Laboratory (1 credit)—*Prerequisite(s): DIGM 2870, DIGM 3010, ARTA 1201, ARTA 1204, or permission of instructor; Corequisite(s): DIGM 4647.* This course will incorporate advanced-level laboratory exercises and explorations in animation production.

DIGM 4647/5647 Advanced Animation (3 credits)—*Prerequisite(s): DIGM 2870, DIGM 3010, ARTA 1110, ARTA 1201, ARTA 1204, or permission of instructor; Corequisite(s): DIGM 4646.* A study in advanced animation techniques. Topics may include, but are not limited to, animation procedures with a focus on motion, timing and storytelling.

DIGM 4656 Web Design Laboratory (1 credit)—*Prerequisite(s): (Digital Media Majors) DIGM 3000, DIGM 3200, CSCI 1800, or permission of instructor; Prerequisite(s): (Other Majors) DIGM 1650, DIGM 3200 or CSCI 1710, and CSCI 1800 or CSCI 1250; with permission of instructor.*

Corequisite(s): DIGM 4657. This course will incorporate advanced-level laboratory exercises and explorations in production for the Web.

DIGM 4657/5657 Advanced Web Design (3 credits)—*Prerequisite(s): (Digital Media Majors) DIGM 3000, DIGM 3200, CSCI 1800, or permission of instructor; Prerequisite(s): (Other Majors) DIGM 1650, DIGM 3200, or CSCI 1710; and CSCI 1250 or CSCI 1800; or permission of instructor. Co-requisite: DIGM 4656.* This course will familiarize the student with techniques used to create fully functional Web applications keeping the graphic design and usability in mind. Topics covered include the use of scripting objects, database interaction, session management, and advanced interface design. Emphasis will be placed on incorporating good development practices with front-end design considerations. In-class discussions and critiques are an essential part of this course.

DIGM 4666 Product Design Laboratory (1 credit)—*Prerequisite(s): DIGM 3300 or permission of instructor; Corequisite(s): DIGM 4667.* This course will incorporate advanced-level laboratory exercises and explorations in product visualization.

DIGM 4667/5667 Advanced Product Design (3 credits)—*Prerequisite(s): DIGM 3300 or permission of instructor; Corequisite(s): DIGM 4666.* An exploration of the problems, principles, and processes involved in the digital modeling, development, and delivery of product design solutions. In this course students will learn advanced modeling, animation, and surface evaluation techniques, and be able to model, move, and modify innovative product designs for engineering and experience outputs. Students will learn to design for the physical world (to model for manufacture and rapid prototyping), and for the virtual world (to model for marketing and interactive programs).

DIGM 4816 3-D Effects Animation Undergraduate Laboratory (1 credit)—*Prerequisite(s): DIGM 3130, DIGM 2900, or permission of instructor; Corequisite(s): DIGM 4817.* This course will incorporate advanced-level laboratory exercises and explorations in 3-D effects animation. (fall)

DIGM 4817/5817 3-D Effects Animation (3 credits)—*Prerequisite(s): DIGM 3130, DIGM 2900, or permission of instructor; Corequisite(s): DIGM 4816.* This production course focuses on dynamic animation strategies to visualize physical phenomena. Students will explore rigid and soft bodies, particle animation, and rendering in both theory and practice. Additional topics include techniques involving instancing geometry with particle motion, basic fluid dynamics, cloth simulation, and dynamic constraints. (fall)

DIGM 4826 Motion Tool III Laboratory (1 credit)—*Prerequisite(s): DIGM 2900 or permission of instructor; Corequisite(s): DIGM 4827.* This course will incorporate advanced-level laboratory exercises and explorations in digital video production. (spring)

DIGM 4827/5827 Motion Tools III: Application (3 credits)—*Prerequisite(s): DIGM 2900 or permission of instructor; Corequisite(s): DIGM 4826.* A study of the computer as a tool for acquiring, editing and compositing a wide range of source media into high resolution video programs. (spring)

DIGM 4876 Modeling & Lighting Laboratory (1 credit)—*Prerequisite(s): DIGM 3110, DIGM 3120, or permission of instructor; Corequisite(s): DIGM 4877.* This course will incorporate advanced-level laboratory exercises and explorations in 3D modeling & lighting.

DIGM 4877/5877 Advanced Modeling & Lighting (3 credits)—*Prerequisite(s): DIGM 3110, DIGM 3120, or permission of instructor; Corequisite(s): DIGM 4876.* Topics include lighting effects, shadows, optimized rendering, and techniques for specification in all modeling paradigms.

DIGM 4886 Technical Direction Laboratory (1 credit)—*Prerequisite(s): DIGM 3130 or permission of instructor; Corequisite(s): DIGM*

4887. This course will incorporate advanced-level laboratory exercises and explorations in technical direction. (spring)

DIGM 4887/5887 Technical Direction for Animation (3 credits)—*Prerequisite(s): DIGM 3130 or permission of instructor; Corequisite(s): DIGM 4886.* This course will explore advanced digital character animation techniques. Course topics include character setup, inverse kinematics, joints and bones systems, deformers, scripting and set driven key set-up. There will be an emphasis on effective character set-up procedures and scripting workflow. (spring)

DIGM 4900 Independent Study in Digital Media (1-6 credits)—Individual students or groups of students define a problem and work under the direction of a faculty member. The problem must be approved by the department. Significant investigation and reporting required.

DIGM 4930 Portfolio Development for Digital Media (4 credits)—*Prerequisite(s): Senior status and within two (2) semesters of completing all requirements for graduation.* Permission of instructor is required. This course provides the opportunity to review and refine selected examples of work for the creation of a digital media portfolio. Topics include industry research, job searching techniques, interview preparation, group projects, presentation skills, and portfolio development and refinement. Lecture and lab. (fall, spring)

DIGM 4957/5957 Special Topics in Digital Media (2-4 credits)—Special Topics of current interest to groups of students concerning content not presented in regular course offerings. May be repeated for credit if material covered is significantly different or advanced. (fall, spring)

Developmental English DSPW

DSPW 0800 Fundamentals of Composition (3 credits)—A course designed to help students develop essential skills for completing essay length assignments. This course concentrates on thematic organization, prewriting strategies, revising, editing, grammar, paragraphing, diction, and supporting a point. (The graduation requirement is increased by three credits for students enrolled in this course.)

Developmental Mathematics DSPM

DSPM 0800 Elementary Algebra (3 credits)—Real numbers, linear equations and inequalities, formulas, functions and graphs, systems of linear equations, absolute value equations and inequalities. Real world applications are integrated throughout the course. (The graduation requirement is increased by three (3) credits for students enrolled in this course.)

DSPM 0850 Intermediate Algebra (3 credits)—Laws of exponents, polynomials, factoring, rational expressions, radicals, quadratic equations. Real world applications are integrated throughout the course. (The graduation requirement is increased by three (3) credits for students enrolled in this course.)

DSPM 0990 Plane/Analytical Geometry (3 credits)—A course designed to fulfill a high school deficiency in geometry. Points, lines, angles, polygons, circles, tangents, parallels, perpendiculars, surfaces, solids, and the Cartesian plane. The development of critical thinking skills is stressed. (The graduation requirement is increased by three (3) credits for students enrolled in this course.)

Developmental Reading DSPR

DSPR 0800 Fundamental Reading (3 credits)—This course builds expertise in academic reading for university courses. Strategies taught in the course target the following: reading proficiencies, acquisition of general vocabulary and discipline-specific terminology, recognition and expression of superordinate and subordinate concepts, interpretation of an author's purpose, opinion, and tone, fluency in reading, thoughtful response to

written information and narration, summarization, and research techniques. (The graduation requirement is increased by three credits for students enrolled in this course.) (fall, spring, summer)

Developmental Study Skills DSPS

DSPS 0800 Learning Strategies (3 credits)—This course builds the student's personal and academic management skills through work with the following topics: university resources and services for students, time management, cultural diversity, social management, career planning, lecture notetaking, study strategies, test-taking concerns, and academic anxiety. (The graduation requirement is increased by three credits for students enrolled in this course.) (fall, spring, summer)

Early Childhood Education ECED

ECED 2010 Healthy and Safe Environments for Young Children (3 credits)—A study of the basic principles of good health as they relate to the child in the family, childcare center, primary grade classroom, and the community. (fall, spring)

ECED 2110 Infant/Child/Toddler Development (3 credits)—An in-depth study of the physical, cognitive, and socio-emotional development of the child from birth through age eight. Development, care, and guidance of the child will also be examined in relationship to the various developmental theories. Family and other socialization agents will be explored. (fall, spring)

ECED 2150 Foundations of Early Childhood Development (3 credits)—An overview of early childhood development and services for young children and their families. Will include historical roots, societal changes, the needs of young children, program differentiation, and future trends. (fall, spring)

ECED 3140 Guiding Young Children (3 credits) — The student will develop the skills and techniques necessary in handling behavioral and disciplinary issues of the child from birth through age eight. Students will also create and design creative experiences and activities for children from birth through age eight in a variety of professional settings. (fall, spring)

ECED 3150 Creative Development of Young Children (3 credits)—Strategies for promoting the emergent creative dispositions of the young child are explored. Areas of focus include art, music, movement, play, dramatics, and creativity. Field participation is required. (fall, spring)

ECED 3160 Body/Brain-based Learning Environments (3 credits)—*Prerequisite(s): ECED 2010, ECED 3220.* The primary goals of the course are for students to learn about brain-based learning, physical development, emotional development, and the relationship between the body and brain and its impact on learning in the classroom. Various brain-compatible teaching strategies and activities will be explored. (fall, spring, summer)

ECED 3220 Designing Physical Environments (3 credits)—Students will learn how to design physical environments for young children focusing on play and the creation of effective learning centers for early childhood (Pre-K—3rd grade) classrooms. Licensing standards and environmental rating tools will be explored, as well as the impact that creativity and environmental influences have on learning. (fall, spring)

ECED 4010 Observing and Assessing Young Children (3 credits)—*Prerequisite(s): ECED 2110, ECED 2150, ECED 3140; Corequisite(s) for PreK-3 ECDV Student: Students must be enrolled in ECED 4150, 4161, and 4130.* This course will cover assessment for children from birth to eight years of age. Both formal and informal instruments will be discussed with the emphasis on tools which can be used by teachers of young children. Considerations in choosing, administering, and reporting results of assessments will also be addressed. Field work is required. (fall, spring)

ECED 4130 Professional Issues in Early Childhood Education (3 credits)—*Prerequisite(s): ECED 2010, ECED 2150, ECED 3140, ECED 4140; Corequisite(s): Students must be enrolled in ECED 4150, ECED 4161.* This course investigates current issues in early childhood education, including advocacy in early childhood, professionalism, ethics, and professional standards. This course also examines issues related to professional and teaching portfolios, with each student's work presented in an individual portfolio representing the learning that occurred during the early childhood program. (fall, spring)

ECED 4140 Program Development for Young Children (3 credits)—*Prerequisite(s): Students enrolled in this course must have completed ECED 2010 and ECED 3220.* This course will build on students' existing knowledge of the history of Early Childhood Education. It will introduce theories of learning and development with an emphasis on constructivist theory, which is central to our Early Childhood Program's philosophy. Class activities and field experiences allow students to develop an understanding of the relationship between these theories and developmentally appropriate practice. Early Childhood Curriculum Models (Pre-K—3rd grade), the role of the teacher, and the Code of Ethics for teaching will be explored. Candidates will learn about constructivist theory through readings, discussions, and practical application activities that will allow them to contrast this theory with other models of learning and development. (fall, spring)

ECED 4150 Literacy in Young Children (3 credits)—*Prerequisite(s): ECED 2110, ECED 2150, and ECED 3140; Corequisite(s) for PreK-3 ECDV Students: Students must be enrolled in ECED 4010, 4161, and 4130.* Examines the development of literacy during the early years, birth to eight. Includes the study of environmental influences and methods that enrich or delay emerging literacy and language. Group activities for early childhood programs are explored. Field participation in early childhood setting is required. Writing Intensive Course. (fall, spring)

ECED 4161 Curriculum Development for Young Children (3 credits)—*Prerequisite(s): ECED 2010, ECED 2150, ECED 3220, ECED 3140; Corequisite(s) for PreK-3 ECDV Students: Students must be enrolled in ECED 4150, 4010, and 4130.* This course analyzes children's thinking as it influences curriculum design in early childhood. It explores the educational needs of young children from ages 0 - 8 (Pre-K—3rd grade) in the cognitive realm of scientific, social, mathematical, and language learning. Field participation in early childhood settings is required. (fall, spring)

ECED 4167 Constructivist Inquiry Approach to Science and Math for Young Children (3 credits)—*Prerequisite: Admission to Teacher Education.* Teacher candidates will explore developmentally appropriate methods based on constructivist theory for promoting scientific and mathematical inquiry among children in early childhood settings. A field experience in an EC classroom will ground the learners' understanding. (fall, spring)

ECED 4257/5257 Mentoring in Early Childhood Education (3 credits)—This course is designed to train Early Childhood professionals in effective methods and principles of mentoring adults who have varying levels of training. Emphasis will be on the role of the mentor as a facilitator of adult learning. As leaders, these mentors will be implementing change that can lead to improved quality in programs and classrooms that serve young children, birth through eight years of age. (spring)

ECED 4347/5347 Technology and Media in Inclusive Early Childhood Education (3 credits)—This course provides a comprehensive overview of media and technology use in inclusive early childhood classrooms. This course is based on the theories of Piaget, Vygotsky, and Papert, which support experiential, hands-on learning in the context of social interactions. Theories, research studies, and application of new technology and media will be considered. The appropriateness of

technology use, along with application of new technology and media for children ages birth through age eight will be reviewed. (fall, spring, summer)

ECED 4357/5357 Management and Administration of Early Childhood Programs (3 credits)—Operational planning and administration for supervisors, administrators, and directors of programs for young children in public and private schools. Emphasis is placed on the director's role in staff recruitment, hiring, development, and evaluation. Leadership and management techniques are also studied and evaluated. (spring)

ECED 4417/5417 Curriculum Development for Young Children (3 credits)—*Prerequisites:* ECED 4140; admission to Teacher Education. Curriculum development analyzes children's thinking as it influences curriculum design (lesson planning and unit development) in early childhood in the classrooms. Hands-on experiential activities will be emphasized to enhance the adult learners' understanding of Early Childhood social studies curriculum and the importance of meeting the national and state standards for social studies education, while also providing concrete examples for application with young children. Field participation in early childhood settings is required. (fall, spring)

ECED 4517/5517 Family, School, Community Involvement (3 credits)—Theoretical models of home-school relations will be examined as they have evolved through the 20th - 21st centuries. Strategies for initiating and maintaining effective home-school-community collaboration will be identified with special emphasis on benefits to parents, children, community, and school personnel. (fall, spring)

ECED 4580 Student Teaching in Early Childhood Education (PreK—3) (6 credits)—A supervised 15-week supervised experience in approved Early Childhood Pre-K and primary grade programs. Seminars will be held to coordinate and evaluate the student teaching experience. (fall, spring)

ECED 4581 Seminar in Student Teaching in Early Childhood Education (3 credits)—*Prerequisite(s):* Students must be admitted to Teacher Education; *Corequisite(s):* Taken in conjunction with student teaching (ECED 4580.) The seminar is designed to provide input, feedback, and support for students during their student teaching experience. Formal and informal assessment of students in the classroom, student teaching reflections, curriculum planning and implementation, observation of other classroom environments, home visitations with students during student teaching, and general discussion of the student teaching experience will be part of this course. (fall, spring)

Economics ECON

Note: All students enrolling in upper-division, 3000-4000 level, College of Business and Technology courses must have junior or senior standing.

ECON 1050 Economics and Society (3 credits)—An examination of economics and its relationship to current issues and other social sciences. This course will examine the major components of the nation's economic systems, how they relate to political and other institutions, and their impact upon the national heritage, international relations, and current events. (fall, spring, summer)

ECON 2070 Quantitative Methods for Business I (3 credits)—*Prerequisite(s):* MATH 1530. Prepares students in the quantitative methods and data analysis methods commonly used in business with an emphasis on business applications utilizing methodologies such as fundamental algebra, systems of linear equations, differentiation, optimization, and business applications of probability and statistics. (fall, spring, summer)

ECON 2080 Quantitative Methods for Business II (3 credits)—*Prerequisite:* ECON 2070. This course advances the quantitative sequence begun by MATH 1530 and ECON 2070 by presenting more advanced topics in statistical inference analysis of variance, nonparametric statistics,

regression and correlation, index numbers, and time series analysis as these topics relate to business decisions. (fall, spring, summer)

ECON 2210 Principles of Economics I (3 credits)—An introduction to macroeconomic analysis which concentrates on economy-wide systematic issues such as inflation, unemployment, and the level of economic activity. (fall, spring, summer)

ECON 2220 Principles of Economics II (3 credits)—A study of economics which concentrates on micro-theoretical concepts such as pricing, consumer choice, business production, and profit decisions. (fall, spring, summer)

ECON 3030 Microeconomics: Theories of Business Behavior (3 credits)—*Prerequisite(s):* ECON 2070, ECON 2210, and ECON 2220. An exposition of price theory and its applications. (spring)

ECON 3040 Macroeconomics: Analysis and Policy (3 credits)—*Prerequisite(s):* ECON 2070, ECON 2210, and ECON 2220. Determination of the aggregate level of income, employment, and price. An examination of economic policy fiscal policy, monetary policy, and income policy, as related to problems of inflation, recession, and economic growth. (fall)

ECON 3088 Research Methods and Statistics - Honors (3 credits)—*Prerequisite:* ECON 2080; *by permit only.* The student will obtain an understanding of the process used in conducting business research and its place in the development of sound business policy. Research methods will include the scope of business research, problem identification, hypothesis testing, data analysis, and survey research. Statistical analysis topics include chi-square tests, Z and T tests, analysis of variance, regression and correlation, and nonparametric methods. Students will be expected to appoint members to their honors thesis committee and to prepare and present their thesis research proposal as part of the course requirements. (spring)

ECON 3310 Monetary Economics (3 credits)—*Prerequisite(s):* ECON 2210 and ECON 2220. Functions of the monetary systems of the American and international economies and their influence on economic activity. (fall, spring)

ECON 3700 History of Economic Concepts (3 credits)—*Prerequisite(s):* ECON 1050 or ECON 2210/2220, and declared major. A study of the development of economic theory from Adam Smith to the present day. (fall)

ECON 4018 Senior Honors Seminar (3 credits)—*Prerequisite(s):* ECON 3088 and admission to the College of Business and Technology Honors Program; *by permit only.* A seminar for College of Business and Technology honors students who are working on senior honors theses or other approved projects. Upon successful completion of the course, students will have demonstrated the ability to complete the research process by creating a written product suitable for submission to the College of Business and Technology faculty. (offered on individual basis)

ECON 4317/5317 Health Care Economics (3 credits)—*Prerequisite(s):* ECON 2220 or prior approval needed. An overview of the economics of the health care industry. Topics include the production and pricing of health, the demand and supply of medical care and health insurance, the markets for physician and hospital services, health manpower, medical education, and the role of government and legislation in health care. (spring)

ECON 4327/5327 Labor Economics (3 credits)—*Prerequisite(s):* ECON 2210 and ECON 2220. Theoretical and real world operations of labor markets and labor relations systems in the United States, Europe, and Japan, including the role of labor unions, major issues in labor relations such as labor law reform, wage inequality, and employment discrimination.

ECON 4337/5337 Government Finance and Public Choice (3 credits)—*Prerequisite(s):* ECON 2210 or ECON 1050. The economic functions of government in a market-oriented economy. How governments

allocate expenditures according to the preferences of individuals that comprise society. How governments raise money to finance their expenditures. (fall)

ECON 4447/5447 Urban and Regional Economics (3 credits)—*Prerequisite(s):* ECON 2210 and ECON 2220; or consent of instructor. An examination of the theories of urban and regional economic growth and development. (spring)

ECON 4457/5457 Industrial Organization and Regulation (3 credits)—*Prerequisite(s):* ECON 2210 and ECON 2220. An overview of the structure and performance of the United States economy. Review and evaluation of public policies adopted to improve economic performance, such as antitrust and public utility regulation. Current issues include competitiveness, deregulation, high technology, and foreign competition.

ECON 4527/5527 International Economics (3 credits)—*Prerequisite(s):* ECON 2210 and ECON 2220. Economic specialization and international trade and investment. The growth of the global economy and economic integration, the gains and losses to consumers and producers, Government policies to promote and/or restrict international business activities, and the role and operation of the international financial system. The rise of multinational companies and global markets. (fall)

ECON 4610 Managerial Economics (3 credits)—*Prerequisite(s):* ECON 2080, ECON 2210, and ECON 2220. Application of economic theory and statistics to various business and economic problems facing the management of a firm. Major topics include economic forecasting, demand analysis, cost analysis, pricing, investment decisions, and linear programming. This course is mathematically oriented. (spring)

ECON 4900 Independent Study in Economics (1-3 credits)—Designed for advanced students who, under the direction of an economics faculty member, wish to engage in independent research or an intensive study of subjects not covered in other available courses. Prior departmental and college approval is needed. (offered on an individual basis)

ECON 4905 Economics Internship (3 credits)—*Prerequisite(s):* Completion of a minimum of 6 credit hours in upper-division level courses within the student's major; junior or senior standing; and a 2.7 (minimum) GPA. Students are selected through a competitive process for assignments in approved business or public-sector organizations as interns under the supervision of the internship coordinator and field placement supervisors. Students may not earn more than three semester credits for this course, which can be used as a free elective or an elective within a business major with prior approval by the chair. (offered on an individual basis)

ECON 4957/5957 Topics in Economics (1-6 credits)—*Prerequisite(s):* Senior or graduate standing; and permission of instructor. This course gives students an opportunity to study special problems and new developments in the field of economics. (offered on an individual basis)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

ECON 5000	Essentials of Economics	(3 credits)
ECON 5010	Essentials of Statistics	(3 credits)
ECON 5510	Current Social and Economic Issues	(3 credits)
ECON 5900	Independent Study in Economics	(3 credits)

Foundations of Education

EDFN

EDFN 2100 Orientation to the Profession of Education (1 credit)—This course will provide the student interested in the teaching profession with an overview of the opportunities, problems, and realities of teaching. Students will learn about matters concerning the requirements that must be met in order to complete the teacher education program at ETSU. (fall, spring)

EDFN 2300 Foundations for Teaching (2 credits)—*Prerequisite(s):* EDFN 2100, clearance through a Background Check, and students must have met

one of the state mandated test score requirements. This course is an introduction to the roles of the professional teacher, teaching as a career, and the teaching/learning process. Particular attention will be given to educating teachers as leaders for the 21st century. Field experience is required, 12 hours. (fall, spring)

EDFN 3301 Issues in Education (3 credits)—*Prerequisite(s):* EDFN 2100 and EDFN 2300 or ECED 2150. Foundation of Early Childhood (if appropriate). Students must also be admitted to the Teacher Education Program prior to enrolling in this course. Issues in education are examined in the context of historical, philosophical, and sociocultural foundations of teaching. Issues of gender, social class, and ethnicity are discussed. Field experience is required. (fall, spring)

EDFN 4581 Seminar in Education (3 credits)—*Corequisite(s):* Enrollment in Student Teaching. This seminar is designed to address issues of importance to student teachers. Seminar participants will focus on issues such as formal and informal assessment for instructional and motivational purposes, classroom management and discipline, skills in observing, analyzing, critiquing teaching for improvement, and practical application of principles to specific routine and non-routine situations in K-12 classroom. Field assignments will be completed during student teaching. (fall, spring)

Graduate Course Listings

For Descriptions and Prerequisite(s) see the Graduate Catalog

EDFN 5000	History and Philosophy of Education	(3 credits)
EDFN 5010	Interdisciplinary Seminar	(3 credits)
EDFN 5050	Social and Political Influences on School	(3 credits)
EDFN 5400	Current Issues in Education Seminar	(3 credits)
EDFN 5420	Building a Community of Learners	(4 credits)
EDFN 5950	Methods of Research	(3 credits)
EDFN 6730	Foundations: Hist. & Phil. Foundations of Ed	(3 credits)
EDFN 6906	Independent Study in Foundations of Ed	(3 credits)

English

ENGL

(See Developmental Studies for below college-level courses)

Note: ENGL 1010 and 1020 or their equivalents are prerequisites for all English courses at the 2000 level and above.

***ENGL 1006 English as a Second Language (3 credits)**—International students may enroll in this sequence rather than in ENGL 1010-1020. English taught as a second language. Emphasis on composition, grammar, and comprehension of college-level texts. Students must earn a grade of “C” or above to pass this course.

***ENGL 1007 English as a Second Language Laboratory I (1 credit)**—Emphasis on pronunciation, classroom listening skills, and English conversation. This laboratory is a companion course for ENGL 1006. Students must earn a grade of “C” or above in this class to pass this course.

***ENGL 1008 English as a Second Language (3 credits)**—International students may enroll in this sequence rather than in ENGL 1010-1020. English taught as a second language. Emphasis on composition, research, and comprehension of college-level texts. Students must earn a grade of “C” or above to pass this course.

***ENGL 1009 English as a Second Language Laboratory II (1 credit)**—Emphasis on pronunciation, classroom listening skills, and English conversation. This laboratory is a companion course for ENGL 1008. Students must earn a grade of “C” or above to pass this course.

***ENGL 1010 Critical Reading and Expository Writing (3 credits)**—Writing paragraphs and essays based on close readings of various texts, with an emphasis on clear, grammatically correct expository prose. Students must take this course during the first eligible semester at the university. Students must earn a grade of “C” or above to pass this course.

***ENGL 1018 Honors Composition I (3 credits)**—*Prerequisite(s):* ACT score of 25 or permission of the English Honors Director. Writing essays based on critical reading of various texts, presupposes basic competency in grammar, mechanics, and organizational skills. Develops advanced degrees

of stylistic and formal fluency and critical sophistication. Students must earn a grade of “C” to pass this course.

***ENGL 1020 Critical Thinking and Argumentation (3 credits)**—*Prerequisite(s): ENGL 1010 or equivalent.* Writing essays based on critical analyses of various literary texts. Emphasis on sound argumentative techniques. Requires documented research paper. Students must earn a grade of “C” or above to pass this course.

***ENGL 1028 Honors Composition II (3 credits)**—*Prerequisite(s): ENGL 1010, ENGL 1018 or equivalent; and permission of the English Honors Director.* Writing essays based on critical analyses of various literary texts. Emphasis on sound argumentative techniques and a documented research paper. Students are expected to exhibit stylistic fluency and organizational sophistication. Students must earn a grade of “C” to pass this course.

ENGL 2030 Literary Heritage (3 credits)—*Prerequisite(s): ENGL 1010 and ENGL 1020; or equivalent.* Satisfies requirement for 3 hours in the “Heritage” area of familiarity but does not meet requirements for a major or minor in English. An introduction to literature revolving around the theme of heritage, particularly as heritage is illustrated in Western and Non-Western culture through short fiction, poetry, and drama.

ENGL 2110 American Literature I (3 credits)—*Prerequisite(s): ENGL 1010 and ENGL 1020; or equivalent.* Survey of important American writers from Colonial times through the Civil War.

ENGL 2120 American Literature II (3 credits)—*Prerequisite(s): ENGL 1010 and ENGL 1020; or equivalent.* Survey of important American writers from 1865 to the present.

ENGL 2138 Honors Survey of American Literature (3 credits)—*Prerequisite(s): ENGL 1010 and ENGL 1020; or Honors equivalent.* Open only to those in English Honors or with permission of the English Honors Director. A broad survey of American literature from Colonial times to the present.

ENGL 2210 British Literature I (3 credits)—*Prerequisite(s): ENGL 1010 and ENGL 1020; or equivalent.* Survey of major British writers from Anglo-Saxon Period through 18th century.

ENGL 2220 British Literature II (3 credits)—*Prerequisite(s): ENGL 1010 and ENGL 1020; or equivalent.* Survey of major British writers from the Romantic Period to the present.

ENGL 2238 Honors Survey of British Literature (3 credits)—*Prerequisite(s): ENGL 1010 and ENGL 1020; or Honors equivalent.* Open only to those in English Honors or with permission of the English Honors Director. A broad survey of English literature from Beowulf to the present.

ENGL 2330 World Literature (3 credits)—*Prerequisite(s): ENGL 1010 and ENGL 1020; or equivalent.* Various genres from such non-European cultures as early Middle East, Asian, African, and Latin American.

ENGL 2338 Honors Survey of World Literature (3 credits)—*Prerequisite(s): ENGL 1010 and ENGL 1020; or Honors equivalent.* Open only to those in English honors or with permission of the English Honors Director. A broad survey of literature from non-European cultures.

ENGL 2430 European Literature (3 credits)—*Prerequisite(s): ENGL 1010 and ENGL 1020; or equivalent.* Various genres from ancient texts and European literature which form the basis of Western heritage in literature and many of the arts.

ENGL 2438 Honors Survey of European Literature (3 credits)—*Prerequisite(s): ENGL 1010 and ENGL 1020; or Honors equivalent.* Open only to those in English honors or with permission of the English Honors Director. Various genres from European literature which form the basis of Western heritage.

ENGL 3010 Poetry (3 credits)—Study of poetry as a genre with attention to its form and techniques. Reading and analysis of poems written by acknowledged masters of the genre.

ENGL 3020 Fiction (3 credits)—Course focuses on fiction as genre, with emphasis on technique and form in fiction, such as style and point of view. Readings include masters of both the short story and novel.

ENGL 3030 Drama (3 credits)—Study of drama as a genre with attention to its development and techniques. Readings and analysis of plays written by acknowledged masters of the genre.

ENGL 3040 Literary Nonfiction (3 credits)—Special attention to the history and forms of the essay. Subgenres covered may include autobiography and memoir, history as literature, travel writing, and reportage and journalism.

ENGL 3050 Literature and the Environment (3 credits)—This course will focus on nature and environment as theme and subject in literature. Students will read and write about a range of fiction, literary nonfiction, and poetry. Readings may also include academic essays about environmental history and ethics.

ENGL 3065 Southern Appalachian Literature (3 credits)—*Prerequisite(s): ENGL 1010 and 1020.* Survey of Southern Appalachian literature from the eighteenth century to the present.

ENGL 3070 Native American Literature (3 credits) — Survey of Native American literature from its beginnings in the oral tradition to today’s written and cinematic works.

ENGL 3100 Introduction to Linguistics (3 credits)—The nature of language and different approaches to languages in various disciplines, such as psychology, sociology, computer linguistics, and speech pathology.

ENGL 3118 Honors Literature Focus (3 credits)—*Prerequisite(s): ENGL 2138, ENGL 2238, ENGL 2338, or ENGL 2438.* Open only to those in English Honors or with permission of the English Honors Director. Concentration on an area of literature studied more generally in one of the honors survey courses. Content will vary.

ENGL 3128 Honors Special Topics (3 credits)—*Prerequisite(s): ENGL 2138, ENGL 2238, ENGL 2338, or ENGL 2438.* Open only to those in English Honors or with permission of the English Honors Director. Study of special topics associated with the discipline of English. Content will vary. May be repeated for credit when content changes.

ENGL 3130 Advanced Composition (3 credits)—Skills of exposition with emphasis on traditional grammatical principles, and methods of organizing reviews, articles, and sketches.

ENGL 3134 Computers, Writing, and Literature (3 credits)—An introduction to uses of computers in writing and literature, including document design and publishing on computers, interactive fiction and poetry, and Internet resources for literary study.

ENGL 3141 Creative Writing I (3 credits)—*Prerequisite(s): ENGL 1010 and ENGL 1020 or equivalent; and one 2000-level literature course.* An introduction to creative expression in a single genre, such as fiction, poetry, or drama. May be repeated for credit when content changes.

ENGL 3150 Literature, Ethics, and Values (3 credits)—*Prerequisite(s): ENGL 1010 and ENGL 1020 or equivalent.* Readings and discussions which reveal ethics and values in literature, including contexts of philosophy, history, and art. Designed to enable students to form their own ethical positions and social values.

ENGL 3200 History of the English Language (3 credits)—Study of the development of the English language from origins with attention to phonological analysis and the dynamics of change in language.

ENGL 3270 Literature of Popular Culture (3 credits)—Selected topics in popular culture. supernatural, detective fiction, Westerns, etc.

ENGL 3280 Mythology (3 credits)—Classical mythology and myths from other cultures and relation of myth to literature, psychology, and popular culture.

ENGL 3290 Introduction to Film (3 credits)—The techniques and aesthetics of cinema, studied through presentation of feature and short film.

ENGL 3300 Literary Criticism (3 credits)—Theories of literature and criticism. Application of major theories to selected works.

ENGL 3400 Survey of African American Literature (3 credits)—Survey of literature ranging from slave narratives to contemporary works by African American writers, with particular attention to cultural influence and inspiration.

ENGL 3500 Women Authors (3 credits)—Study of significant women writers, including essayists, and how their works address gender issues.

ENGL 3650 American Folklore (3 credits)—Folklore as a basic element in the understanding of American culture and literature.

ENGL 3700 The Bible as Literature (3 Credits)—An introduction to the literary genres employed (e.g., narrative, lyric poetry, proverbs, apocalyptic writing) and the Bible's unique place in English and world literary heritage.

ENGL 4008 Honors Shakespeare (3 credits)—*Prerequisite(s): ENGL 3118 and ENGL 3128.* Open only to those in English Honors Program. Study of selected poems and plays by Shakespeare.

ENGL 4010 British Novel (3 credits)—Study of the development of the British novel from beginnings until present, usually including DeFoe, Austen, Dickens, Eliot, among others.

ENGL 4012 American Novel (3 credits)—A survey of representative American novels from the nineteenth century to the present.

ENGL 4017/5017 Children's Literature (3 credits)—History, genres, methods of presentation, emphasis on sources of criticism, and bibliography.

ENGL 4018 Honors Thesis (1-6 credits)—Open only to those in English Honors Program. Directed research in an approved topic. Required for departmental honors.

ENGL 4020 British Poetry (3 credits)—Study of the development of British Poetry by major contributors to the genre, with attention to various forms and poetic techniques.

ENGL 4022 American Poetry (3 credits)—Study of the development of American poetry from colonial times to the present.

ENGL 4030 Modern Drama (3 credits)—Representative writers of the Modern Era includes O'Neill, Williams, Synge, Shaw, Eliot, Beckett, and Osborne.

ENGL 4032 African Literature (3 credits)—Short stories, novels, poetry, and drama of African writers includes translations, as well as works written in English.

ENGL 4040 Modernism and Postmodernism (3 credits)—Readings in Modern and Postmodern literature, including fiction and poetry. May include drama, performance and cross-genre experimentation. Focus on works written in English but may include some works in translation.

ENGL 4047/5047 Special Topics in African American Literature (3 credits)—Focus on central issues addressed by African American Literature, with emphasis on such topics as "The Harlem Renaissance," African American Autobiography and Bildungsroman.

ENGL 4057/5057 Writing: Theory and Teaching (3 credits)—An examination of current theory and research in composition and pedagogical techniques.

ENGL 4077/5077 Literature for Adolescents (3 credits)—Wide reading, evaluation, and selection of literature appropriate to persons from the age of 12 to 18.

ENGL 4087/5087 Themes in Women's Literature (3 credits)—Studies of themes and issues affecting women as portrayed in selected fiction, poetry, and drama.

ENGL 4100 Writing in the Professions (3 credits)—Study of and practice in writing appropriate to professional settings reports, proposals, and letters, including conventions of electronic discourse.

ENGL 4117/5117 Grammar and Usage (3 credits)—Study of practical aspects of English syntax, semantics, and usage. Emphasis on the teaching of grammar and usage for those seeking teacher certification.

ENGL 4120 Descriptive Linguistics (3 credits)—The nature of language through the framework of descriptive linguistics with emphasis on the role of phonology, morphology, and syntax in language systems.

ENGL 4130 Sociopsychology of Language (3 credits)—Study of various principles that govern the way language is used, with attention to mental processes involved in language use.

ENGL 4137/5137 Dialectology (3 credits)—Study of regional and social language variations including dialect geography and sociolinguistics. Emphasis on linguistic features of Appalachian dialects.

ENGL 4200 Shakespeare and His Age (3 credits)—Course emphasizes Shakespeare's drama, including selections from tragedies, histories, and comedies, with some attention to his contemporaries, such as Marlowe and Johnson.

ENGL 4207/5207 Literature of the South (3 credits)—Significant works of Southern writers including Simms, Faulkner, Warren, Wolfe, and Welty.

ENGL 4217/5217 Irish/Scottish Literature (3 credits)—Study of major writers in Irish and Scottish literature with attention to folklore and culture.

ENGL 4237/5237 Scots-Irish and Scots in Appalachia (3-6 credits)— This course, offered even-numbered summers on the ETSU campus, examines the contribution of the Scots-Irish and Scots to Appalachian culture.

ENGL 4290 Film Genres (3 credits)—A genre approach, including but not limited to, comedy, Western, film noir, and documentary. May be repeated for credit when content varies.

ENGL 4320 Film Criticism (3 credits)—Explores various critical approaches to film, including textual, genre, auteur, scholarly, and specialized. Emphasizes students' written expression of their own evaluations.

ENGL/APST 4337/5337 Appalachia in Scotland (3-6 credits)— This course will survey the relationship among Appalachian, Scottish, and Irish cultures, with an emphasis on Scotland and Ireland.

ENGL 4340 Topics in Film (3 credits)—Selected film topics not included elsewhere in course offerings such as sports films, African-American films, and films of Appalachia. May be repeated for credit when content varies.

ENGL 4417/5417 Teaching English in Secondary Schools (3 credits)—*Prerequisite(s): Admission to Teacher Education.* Instruction in the methods and materials to be used by English teachers in secondary schools. Counts as professional education credit. Fall

ENGL 4507/5507 Literature in Film (3 credits)—Film adaptations of significant literary works.

ENGL 4690 Milton and His Age (3 credits)—Paradise Lost, Paradise Regained, Samson Agonistes, and selected short poetry. Examination of Milton's role as artist and thinker in his time and in the modern world.

ENGL 4700 Chaucer and Medieval Literature (3 credits)—*The Canterbury Tales* and other selections from the period.

ENGL 4857/5857 Technical Writing (3 credits)—Course emphasizes organization and presentation of technical material through effective applied writing, such as use of graphics, indexing, storyboarding, etc.

ENGL 4896 Studies in English (3 credits)—Study in selected topics/themes in literature.

ENGL 4907/5907 Creative Writing II: Fiction (3 credits)—*Prerequisite(s): ENGL 3141 or permission of the instructor.* Advanced course in writing of fiction. Considerable attention to craft and form of stories written by acknowledged masters of genre.

ENGL 4917/5917 Creative Writing II: Poetry (3 credits)—*Prerequisite(s): ENGL 3141 or permission of the instructor.* Advanced course in writing of poetry. Considerable attention to craft and form of poems written by acknowledged masters of the genre.

ENGL 4957/5957 Topics in English (1-6 credits)—Selected topics in the discipline. Can be repeated for credit when content changes.

ENGL 4989 Cooperative Education (1-3 credits)—Students must clear arrangements through the Cooperative Education office prior to registration. Only six credits allowed as part of major requirements. Planned and supervised work in business, industry, and government agencies. Students may alternate between periods (usually two semesters) of full-time study and employment with a C E employer. Credit received carries full academic value, and students receive compensation as full-time employees.

**These courses do no assign grades C-, D+, or D*

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

ENGL 5019	Supervised Experience in Teaching	(1-3 credits)
ENGL 5020	Medieval Literature	(3 credits)
ENGL 5029	Supervised Experience in Research	(1-3 credits)
ENGL 5039	Supervised Experience in Administration	(1-3 credits)
ENGL 5060	Literature of Southern Appalachia	(3 credits)
ENGL 5150	Sound Systems of English	(3 credits)
ENGL 5160	Renaissance Literature	(3 credits)
ENGL 5170	Teaching English as a Second Language	(3 credits)
ENGL 5180	Internship in Teaching English as a Second Language	(3 credits)
ENGL 5190	Second Language Acquisition	(3 credits)
ENGL 5200	Restoration and 18th Century Literature	(3 credits)
ENGL 5237	Scots-Irish and Scots in Appalachia	(3-6 credits)
ENGL 5250	Eighteenth Century British Novel	(3 credits)
ENGL 5300	Romantic Literature	(3 credits)
ENGL 5350	Victorian Literature	(3 credits)
ENGL 5400	Nineteenth Century British Novel	(3 credits)
ENGL 5420	Twentieth Century British Literature	(3 credits)
ENGL 5440	Twentieth Century British Novel	(3 credits)
ENGL 5450	Colonial and Federal American Literature	(3 credits)
ENGL 5500	Nineteenth Century American Poetry	(3 credits)
ENGL 5550	Nineteenth Century American Fiction	(3 credits)
ENGL 5600	Twentieth Century American Poetry	(3 credits)
ENGL 5650	Twentieth Century American Fiction	(3 credits)
ENGL 5670	Seminar in Folklore	(3 credits)
ENGL 5680	Seminar in Linguistics	(3 credits)
ENGL 5730	Seminar in British Literature	(3 credits)
ENGL 5750	Seminar in American Literature	(3 credits)
ENGL 5800	Seminar in Continental Literature	(3 credits)
ENGL 5910	Independent Studies	(1-3 credits)
ENGL 5920	Studies in English Education	(1-4 credits)
ENGL 5935	Seminar in Professional Writing	(3 credits)
ENGL 5940	Seminar in Creative Writing	(3 credits)
ENGL 5950	Methods of Research	(3 credits—Required)
ENGL 5960	Thesis in English	(1-3 credits—Required)
ENGL 5989	Cooperative Education	(1-3 credits)
ENGL 5990	Readings and Research	(1-3 credits)

Technology ENTC

ENTC 1038 Honors Orientation Seminar (1 credit)—*Prerequisite(s): Admission to College of Business and Technology or University Honors Program.* This course will fully orient the student to the College expectation for an

honors student. Discussion and activities will relate to preparation for academic success and developing information technology skills. (fall)

ENTC 1110 Engineering Drawing (4 credits)—Technical communication including geometric construction, orthographic projection, auxiliary and section views, and pictorials with emphasis on sketching. Lecture and lab.

ENTC 1120 Manufacturing Processes and Specification (3 credits)—*Prerequisite(s): ENTC 1110 or equivalent.* The study of manufacturing processes and development of engineering documentation with particular emphasis on size specification and information processes required in a modern manufacturing environment and the physical processes involved in the manufacture of goods. Lecture (spring)

ENTC 1510 Student in University (2 credits)—This course is meant to provide guidance to first-year university students as they begin their search for directions to take in self-definition, intellectual growth, career choices, and life skills. (fall, spring)

ENTC 1600 Introduction to Technology Education (3 credits)—A study of the technological processes central to communication, manufacturing, construction, transportation, and biotechnical systems. An analysis of the discipline of technology through its equipment, processes, products, problems, and the interrelationships of technological systems and our environment. Lecture and lab.

ENTC 1610 Woodworking Technology (3 credits)—Woodworking technology is an introductory-level course in woodworking and wood technology with a primary thrust on the development of both cognitive and manipulative aspects related to tools, materials, and processes found in modern wood-related industries. Stresses safety, construction techniques, and a study of allied occupations. Extensive laboratory experience will allow the student the opportunity to design and construct objects using wood and wood products. Lecture and lab. (spring)

ENTC 2038 Honors Professional Ethics (3 credits)—*Prerequisite(s): Admission to College of Business and Technology or University Honors Program; and sophomore standing.* A case-study approach to basic ethical issues likely to confront engineers, computer scientists, and family and consumer scientists in their professional practices.

ENTC 2160 Architectural CADD (3 credits)—An introduction to the principles of architectural computer-aided drafting. In doing so, the course will analyze residential and commercial floor plans for design flaws and redesign or reverse engineer a better plan using CAD tools and develop a justification and defend decisions made. The course will also involve manipulating 2D and 3D models. (fall, spring, summer)

ENTC 2170 CADD (Computer Aided Design Drafting) (4 credits)—Fundamentals of engineering drawing and sketching: orthographic projections, dimensioning, tolerancing, and scaling. Introduction to the CAD interface and environment; 2D drawing basics; using object snaps, layers, blocks, dimensioning; introduction to 3D modeling; extrusions, revolves, and rendering. (fall, spring, summer)

ENTC 2200 Machine Tool Technology (4 credits)—*Prerequisite(s): ENTC 2170 and MATH 1720.* The use of metalworking machine tools and accessories including the mill, lathe, saw, drill press, and surface grinder with emphasis on safety, precision measuring tools, and hand tools. Machining characteristics of commonly machined metals, cutting speeds, and feed rates. Cutting tool types, geometry, and applications. Lecture and lab. (fall)

ENTC 2310 Electrical Principles (4 credits)—*Prerequisite(s): MATH 1720.* Introduction to electricity, DC circuits, power, DC meters, conductors, insulators, capacitance, magnetism, and electromagnetic induction AC circuits, reactance, impedance, AC power, power factor, and resonance. Lecture and lab. (fall, spring)

ENTC 2320 Electronics I (4 credits)—*Prerequisite(s): ENTC 2310, MATH 1840.* Devices, rectification, filters, voltage regulation, characteristic curves, graphical analysis of amplification, amplifier configurations, amplifier equivalent circuits, gain equations, static and dynamic load lines, and biasing. Lecture and lab. (fall, spring)

ENTC 2330 Network Systems (3 credits)—*Prerequisite(s): ENTC 2310.* An introduction to network hardware. Both wire and wireless systems will be examined. Hardware for LAN and WAN systems will be examined.

ENTC 2410 Construction Fundamentals (4 credits)—Introduction to construction materials and systems. Emphasis on interpreting building prints and the analysis of materials of construction. Lecture and lab. (fall, spring)

ENTC 2420 Residential and Commercial Planning (4 credits)—*Prerequisite(s): ENTC 2410.* An outline study of architectural styles. The design of an original residential or commercial building developed through consideration of site conditions, space requirements, and adaptability of materials. Student will develop plans and a model. Lecture and lab. (fall, spring)

ENTC 2440 Mechanical Systems (4 credits)—*Prerequisite(s): ENTC 2420; Corequisite(s): PHYS 2010/11.* A study of the terminology and methods associated with commercial HVAC (heating, ventilation, air conditioning, and cooling) and plumbing systems. Detailed exercises will be employed in the design of simple systems with emphasis on appropriate equipment types and sizes. Lecture and lab. (spring)

ENTC 2989-99 Cooperative Education (1-3 credits)

ENTC 3010 Statics and Strength of Materials (4 credits)—*Prerequisite(s): MATH 1850 and PHYS 2010/11.* The study of forces and their affects on statically determinate structures including a study of shear, moment and thrust diagrams, stresses and combined stresses, and properties of materials. Lecture and lab. (fall, spring)

ENTC 3020 Technology and Society (3 credits)—*Prerequisite(s): ENGL 1020.* How does technology impact society and one's daily life? Historical aspects of the development of technology beginning with Stone Age peoples through the Industrial Revolution, to modern concepts. An atmosphere where group discussions struggle with some of the dilemmas of modern life. (fall, spring, summer)

ENTC 3030 Technical Communication (3 credits)—*Prerequisite(s): ENGL 1010 and ENGL 1020.* A comprehensive study of technical and professional communication in written and oral form. Covers rhetorical principles and their application in a variety of types of business correspondence, reports, and technical/scientific documents. Lecture and classroom exercises. (fall, spring, summer)

ENTC 3048 Honors Methods of Research (3 credits)—*Prerequisite(s): Admission to College of Business and Technology or University Honors Program.* Analysis of the materials and methods of research appropriate to Applied Science and Technology.

ENTC 3240 Engineering Materials and Testing (4 credits)—*Prerequisite(s): ENTC 2200 and CHEM 1110/11.* A study of modern engineering materials with emphasis on their chemical, physical, and mechanical properties. Experimental determination of structural and processing variables, service behavior, and industrial applications. Lecture and lab. (spring)

ENTC 3310 Circuit Analysis (3 credits)—*Prerequisite(s): ENTC 2310 and MATH 1850.* Loop equations and node voltage analysis, principles of phasers and complex numbers applied to alternating current circuits, superposition, Thevenin's and Norton's Theorems, solving circuit problems using the computer. (spring)

ENTC 3320 Electronics II (4 credits)—*Prerequisite(s): ENTC 2320, ENTC 3310.* Multistage amplifiers, coupling, frequency response, classes

of amplification, power amplifiers, feedback amplifiers, sinusoidal oscillators, multi-vibrator circuits, and operational amplifier circuits. Lecture and lab. (fall)

ENTC 3331 RF Fundamentals (3 credits)—*Prerequisite(s): PHYS 2010, PHYS 2011, MATH 1850.* A study of the physical and optical characteristics of active and passive devices used in electronic, instrumentation, and biomedical engineering technologies. (fall)

ENTC 3340 Electrical Machinery (3 credits)—*Prerequisite(s): ENTC 2310.* Motors, generators, alternators, motor controllers, three phase electrical systems, polyphase transformers, wattmeters. Lecture and lab. (fall)

ENTC 3350 Industrial Electronics (3 credits)—*Prerequisite(s): ENTC 2320.* SCR devices, silicon controlled rectifier circuits, relay circuits, timing circuits, photoelectric devices, unijunction transistors, diacs, triacs, saturable core reactors, rectification of three phase, industrial controls, programmable logic controllers, and fiber optics. (spring)

ENTC 3370 Electronics-Digital Circuits (4 credits)—*Prerequisite(s): One computer science course.* Introduction to digital logic, binary numbers and codes, Boolean algebra, gating networks, flipflops, counters, registers, arithmetic circuits, code conversion, decoding, and memory circuits. Lecture and lab. (spring, summer)

ENTC 3400 Construction Materials (4 credits)—*Prerequisite(s): ENTC 2410 and PHYS 2010/11.* Study of materials used in highway and building construction including production and appropriate specifications and testing. Study includes design calculations and laboratory testing. Lecture and lab. (fall)

ENTC 3410 Construction Estimating and Planning (4 credits)—*Prerequisite(s): ENTC 2420.* Comprehensive study of building construction costs, including labor, materials, overhead, and hidden costs. Financing methods and legal requirements, site planning, and tract-development. Lecture and lab. (fall)

ENTC 3420 Advanced Construction Estimating and Planning (4 credits)—*Prerequisite(s): ENTC 3410.* An advanced study of estimation techniques and procedures associated with commercial construction. Included is an analysis of costs developed from complicated construction systems resulting in the preparation of bid proposals. Emphasis will be placed on network planning, particularly project scheduling and detailed quantity take-off methods of estimating using commercially available computer software. Lecture and lab. (spring)

ENTC 3430 Materials and Methods I (4 credits)—*Prerequisite(s): ENTC 3010 and ENTC 2410.* Methods, materials, and equipment required in the commercial construction areas of foundations, formwork, concrete, and masonry. Study will include design calculations and laboratory testing. Lecture and lab. (spring)

ENTC 3440 Materials and Methods II (3 credits)—*Prerequisite(s): ENTC 3430.* Methods, materials, and equipment required in the commercial construction areas of structural steel, heavy timber, roofing systems, building-related plastics, finishes, and specialties. Study will include sizing calculations where appropriate. Lecture (fall)

ENTC 3600 Manufacturing Technology (3 credits)—*Prerequisite(s): ENTC 2200.* This course has as its primary emphasis the study of the management and production aspects of manufacturing. Students will have the opportunity to learn mass-production principles and methods, including the use of computers and robotics. Laboratory experiences will revolve around the design, planning, and mass production of an item. (fall)

ENTC 3610 Construction Technology (3 credits)—A course designed to develop an individual's knowledge and understanding of the concepts, principles, practices, and problems found in the modern construction industry. Laboratory experiences involve activities in planning,

use of tools, machines, and materials, computer applications, and construction practices as they relate to construction production systems.

ENTC 3620 Thermal and Fluid Technologies (4 credits)—*Prerequisite(s): MATH 1840 and PHYS 2010/11.* A study of the fundamentals of heat transfer and fluid flow. Topics include modes of heat transfer and material characteristics, hydraulics and fluid systems. Students will choose concluding topics of either hydrology or hydraulic control systems and pneumatics. Laboratory use of personal computers in data acquisition, experiment control, and report writing. Lecture and lab. (spring)

ENTC 3650 Applied Electricity and Electronics (4 credits)—Geared for construction technology and technology education students only or permission of instructor. Practical application of commercial house wiring and electrical code. Electrical machines and controls, electronic devices. (fall, spring)

ENTC 3660 Communication Systems Technology (3 credits)—*Prerequisite(s): ENTC 1110 or permission of the instructor.* A study of the basic principles of communication technology and communication systems. The primary focus is on the examination and operation of technical devices that aid human communication and the impact these devices and systems have upon society. Students will participate in a variety of classroom activities and laboratory exercises.

ENTC 3670 Energy/Power/Transportation (3 credits)—This general survey course focuses on the design and operating principles involved with the conversion, transmission, control, and alternate sources of power and energy. The course also explores the development and significance of energy and power and transportation systems to our economic structure. Lecture and lab. (summer)

ENTC 3680 Plastics (3 credits)—*Prerequisite(s): ENTC 1120 and CHEM 1110/11.* A study of the polymer and composites industries to include products and manufacturing processes, Thermoplastic and thermosetting class studies, injection molding, vacuum forming and other subjects are explored. Lecture and lab. (spring, odd years)

ENTC 3710 Manual Numerical Control Programming (3 credits)—*Prerequisite(s): ENTC 2170 and ENTC 2200.* A study of the capabilities, programming procedures, advantages, and disadvantages of numerical control (N/C) and computerized numerical control (CNC) metalworking machine tools. Manual methods for generating, debugging, and running point-to-point and continuous path programs including linear and circular (3 credits) interpolation, canned cycles, loops, and subroutines to produce workpieces of increasing complexity. Lecture and lab.

ENTC 3989-99 Cooperative Education (1-3 credits)

ENTC 4017/5017 Industrial Supervision (3 credits)—Behavioral studies related to supervision. Supervisory functions, motivation, interviewing, and personal advancement. Lecture, case studies, discussions, and reports. (fall, spring)

ENTC 4018 Honors Thesis (3-6 credits)—*Prerequisite(s): Satisfactory completion of all college honors classes and advisor approval.* This thesis is a capstone academic experience bringing into focus the result of the student's learning and career interest

ENTC 4037/5037 Quality Assurance I (3 credits)—*Prerequisite(s): MATH 1530.* Objectives of quality control in manufacturing. Control charts for variables, control charts for attributes, and lot by lot acceptance sampling for attributes (ANSI/ASQC Z1.4). The statistical approach to methods and procedures associated with quality assurance in manufacturing processes. Lecture (spring)

ENTC 4047/5047 Quality Assurance II (3 credits)—*Prerequisite(s): ENTC 4037.* Special process control charting defect, moving average, CuSum charts, sequential sampling, lot by lot acceptance for variables (ANSI/ASQC Z1.9), reliability testing, failure rate of a population, bathtub curve, and series/parallel math modeling for reliability. Lecture (spring)

ENTC 4048 Honors International Study (3 credits)—*Prerequisite(s): Satisfactory completion of all CAST Honors courses or college honors committee approval.* This course will consist of a two-week international study and cultural experience in addition to a pre-tour orientation.

ENTC 4060 Project Scheduling (3 credits)—*Prerequisite(s): Junior/Senior standing or instructor approval.* A detailed study in planning, organizing, and controlling projects. Computer software is used to schedule projects. Emphasis is placed on time, resources, and capital considerations for the project. Lecture, team exercises, extensive laboratory, and presentations. (fall, spring, summer)

ENTC 4217/5217 Tool Design (4 credits)—*Prerequisite(s): ENTC 3710.* A study of the design concepts for industrial tooling including stamping dies, fixtures, and molds. Materials selection, heat treatment specifications, off-the-shelf tooling components, and make/buy decisions. Utilization of CADD and CNC to execute designs. Lecture and lab.

ENTC 4227/5227 Engineering Economy (3 credits)—*Prerequisite(s): MATH 1720 or permission of the instructor.* An economic study of manufacturing, amortization, cash flow, rates of return, depreciation, and present worth analyses. Lecture (fall)

ENTC 4237/5237 Ergonomics and Process Optimization (4 credits)—*Prerequisite(s): MATH 1720 and MATH 1530.* A study of methods used to improve production, set time standards, and analyze productivity. Lecture and lab. (spring, odd years)

ENTC 4247/5247 Industrial Operations Analysis (3 credits)—*Prerequisite(s): ENTC 2200 and the MATH 1040, MATH 1060, MATH 1070, MATH 1080 sequence.* Deterministic models including linear programming, quality, transportation, network analysis, game theory, and inventory theory. For a second course see MATH 4957. Lecture

ENTC 4257/5257 Plant Layout and Materials Handling (3 credits)—*Prerequisite(s): ENTC 1120 and ENTC 2200.* Principles of plant layout, process and flow charts, machine location, auxiliary services, safety, and personnel organization. Materials handling methods and case studies emphasized. Lecture (spring)

ENTC 4277/5277 Instrumentation and Process Control (4 credits)—*Prerequisite(s): ENTC 2310.* Principles of measurement and control used in the manufacturing process industries. Theory and laboratory experience pertaining to modern instrumentation, pressure, temperature, liquid level, flow, and automatic controls including PLC's, and microcomputers. Lecture and lab. (spring)

ENTC 4287/5287 Introduction to Robotics (3 credits)—*Prerequisite(s): CSCI 2100 or permission of instructor.* Theory, fundamental concepts, and applications of robotics and computer-aided manufacturing. History, robot elements and types, actuators and manipulators, programmable systems, vision systems, safety, robotic work cells, applications, and economic analysis. Lecture and lab.

ENTC 4307/5307 Telecommunications (4 credits)—*Prerequisite(s): ENTC 4310.* Analysis, theory, and applications of digital communication systems, emphasizing digital modulation and demodulation schemes and performance analysis techniques in the presence of noise. (spring, even years)

ENTC 4310 Electronics-Communications (4 credits)—RF transmitting and receiving circuits, amplitude and frequency modulation and detection, phase modulation, antennas and RF transmission lines, multiplexing, television transmission, and reception. Lecture and lab. (fall)

ENTC 4337/5337 Microprocessors (4 credits)—*Prerequisite(s): ENTC 3370.* Introduction to microprocessors Instruction is developed around a microprocessor trainer. Topics include assembly language programming, examples of hardware/software tradeoffs, interrupt system,

alternative approaches to input/output and timing, the use of programmable LSI devices, and how microcomputers can communicate with external systems. Lecture and lab. (fall)

ENTC 4347/5347 Digital Signal Processors (4 credits)—*Prerequisite(s): ENTC 4337. A continuation of ENTC 4337.* Instruction is developed around an microprocessor single board computer. Topics include review of microprocessor hardware and instruction set, arithmetic operations, serial data communications, interfacing analog devices, using interval timers, stepper motor control, and an introduction to troubleshooting. Lecture and lab. (spring)

ENTC 4350 Biomedical Instrumentation I (4 credits)—*Prerequisite(s): HSCI 2020/21, PUBH 2750, ENTC 3320.* A first course in biomedical instrumentation. Content includes hospital equipment safety, biopotentials, electrodes and transducers, the principles of electrocardiographs, pacemakers, defibrillators, IV pumps, catheters and ventilators, information flow, medical indications and complications, the patient-machine interface, how to teach others to use the equipment. Laboratory experiments on medical circuits will be studied or performed. (fall, even years)

ENTC 4357/5357 CIM Applications (3 credits)—*Prerequisite(s): Junior standing.* An interdisciplinary course concerned with the concepts of business, computers, and manufacturing designed to explore the integration of these dynamic disciplines in the development of the Computer-Integrated Enterprise. Field trips, lab activities, and demonstrations will be used to support the lectures. (spring)

ENTC 4360 BMET Internship I (2 credits)—*Prerequisite(s): HSCI 2020/21, PUBH 2750, ENTC 3320 Corequisite(s): ENTC 4350.* The student will be assigned to a selected regional hospital for eight credits per week after the fourth week of classes, and then for 40 hr/week for three weeks after the semester ends. The student will work under the supervision of a senior BMET or clinical engineer. Assignments will include PM, calibration, troubleshooting and repair, and management of equipment taught in ENTC 4350. The student will be required to pass a pre-employment physical examination and have liability insurance before being assigned to internship. (fall, spring, summer)

ENTC 4370 BMET Instrumentation II (4 credits)—*Prerequisite(s): ENTC 4350.* A second course in biomedical instrumentation Content includes biomedical equipment analysis, clinical lab equipment, ultrasonics, lasers, surgical equipment and troubleshooting of medical equipment.

ENTC 4380 BMET Internship II (2 credits)—*Prerequisite(s): ENTC 4350, ENTC 4360 Corequisite(s): ENTC 4370.* The student will be assigned to a regional hospital for eight credits per week for 15 weeks The student will work under the supervision of a senior BMET or clinical engineer. Assignments will include hands-on repair, PM and calibration of and management of hospital equipment studied in ENTC 4370. The student may be required to pass a pre-employment physical exam and acquire liability insurance before assigned to an internship.

ENTC 4390 Medical Imaging Equipment Technology (3 credits)—*Prerequisite(s): ENTC 3320.* Medical diagnostic equipment, including x-ray, ultrasonic equipment, ultrasonics, nuclear imaging, magnetic resonance imaging (MRI) and Position Emission Scanner will be discussed. Medical image processing based on Fourier Analysis will be developed Emphasis is on physical principles, information flow, patient interface, indications and hazards. (fall, spring)

ENTC 4417/5417 Construction Financing and Administration (3 credits)—*Prerequisite(s): ENTC 2420, CSCI 1100.* A detailed study of the methods of financing construction projects, as well as the construction company. Included are a discussion of interest rates, bonds, insurance, amortization, and depreciation. Lecture (fall)

ENTC 4600 Technical Practicum (4 credits)—*Prerequisite(s): Senior standing, ENTC 3030, and at least 24 credits in a technology concentration.* A

senior-level capstone course in advanced problem solving by organized team methods. Requires the student to synthesize and apply subject matter studies in previous required courses. For example, in manufacturing, students will draw upon their knowledge of product design and manufacturing methods to solve a complex problem. Units of instruction will include project planning (GANTT and PERT), human factors, design aesthetics, systems methods, and group dynamics. Major requirements include a team presentation and a comprehensive technical report. Lecture and lab. (fall, spring)

ENTC 4617/5617 Vocational Guidance (3 credits)—An orientation to the value and use of vocational guidance for vocational education. The roles of people, as well as the tools for guidance will be studied along with determining ways and means of providing current career information to students. Meeting the needs of the disabled and disadvantaged in vocational classes will be explored.

ENTC 4637 Evaluation in Industrial Education (3 credits)—Fundamental concepts and terminology of the testing movement. Classification, characteristics, and use of tests in industrial education. Construction of informal tests, use of standardized tests, and interpretation of test results are covered. Also, the use of advisory committees in the evaluation of industrial education courses and programs.

ENTC 4717/5717 Computer-Assisted Numerical Control Programming (3 credits)—*Prerequisite(s): ENTC 3710.* A study of computerized methods for generating numerical control (N/C) programs utilizing (1) tool path definition software applicable to CADD drawing data bases and (2) N/C programming languages including APT and COMPACT II. Source program structure including initialization, geometry definition, cutter path definition statements, links, post processors, Syntax conventions, writing, running, and debugging source programs to generate list/cutter location files and tape files. Lecture and lab.

ENTC 4777/5777 Safety Management (3 credits)—*Prerequisite(s): PSYC 1310 and junior standing.* A study of the methods of planning, organizing, and controlling a safety program. The study will include the safety problem, accident causation, motivational and marketing methods of safety, safety training and leadership, and a study of OSHA and TOSHA practices and procedures. (fall, spring)

ENTC 4900 Independent Study in Technology (1-6 credits)—*Prerequisite(s): Minimum of nine credits in the subject area and approval of the instructor who will supervise the study.* An industrial problem by arrangement with a faculty member. An independent study plan technical report plus laboratory experiences required.

ENTC 4957/5957 Special Topics in Technology (1-6 credits)—Special topics of current interest to groups of students concerning content not presented in regular course offerings. May be repeated for credit if material covered is significantly different or advanced.

ENTC 4989-99 Cooperative Education (1-3 credits) (fall, spring, summer)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

ENTC 5010	Modern Industry	(3 credits)
ENTC 5030	Investigations in Technology	(3 credits)
ENTC 5050	Leading Continuous Improvement	(3 Credits)
ENTC 5060	Scheduling for Project and Quality Management	(3 Credits)
ENTC 5070	Leading Empowered Problem Solving Teams	(3 Credits)
ENTC 5600	History and Philosophy of Vocational Education	(3 credits)
ENTC 5610	Content and Method in Industrial Education	(3 credits)
ENTC 5620	Administration and Supervision in Industrial Education	(3 credits)
ENTC 5630	Project Management	(3 credits)
ENTC 5640	Innovative Entrepreneurship	(3 credits)
ENTC 5800	Strategic Experience	(3 credits)
ENTC 5900	Independent Study in Technology	(1-9 credits)
ENTC 5950	Methods of Research	(3 credits)
ENTC 5960	Thesis	(1-3 credits)
ENTC 5989-99	Cooperative Education	(1-3 credits)
ENTC 5990	Readings and Research	(1-3 credits)

Environmental Health ENVH

Note: Students should take courses in the sequence listed

ENVH 3010 Human Ecology and Environmental Education (3 credits)—Gives the student an understanding and appreciation of peoples' relationships to their environment and the consequences of manipulation, alteration, and pollution of their natural habitat. Environmental education as a means of environmental improvement is emphasized.

ENVH 3030 Law and Ethics for Allied Health (3 credits)—Introduction to law and ethics necessary for allied health professionals to successfully function in the modern health care environment.

ENVH 3040 Environmental Sanitation (3 credits)—Not for environmental health majors. Deals with problems of general sanitation, water supply, disposal of excreta, insect and rodent control, sanitary control of milk, shellfish, and other foods, school and camp sanitation, and inspection services. Consideration given current problems in housing, heating, ventilation, and lighting.

ENVH 3100 Water Supplies and Wastewater Treatment (3 credits)—An introduction to water and wastewater treatment, municipal, semiprivate, and individual systems. Reviews sources, chemical and bacteriological quality, and water pollution.

ENVH 3400 Introduction to Air Pollution (3 credits)—*Prerequisite(s): CHEM 1110/11 or permission of instructor.* A study of the causes, effects, and control of air pollution. Emphasis is placed on ways individuals, communities, metropolitan areas, and industry can prevent or control pollution.

ENVH 3500 Environmental Safety (3 credits)—Considers the principles and practices of environmental health and safety in natural bathing places, swimming pools, campsites, day nurseries, parks, schools, colleges, and industry.

ENVH 3700 Solid Waste Management (3 credits)—An investigation of the problems and solutions to the generation, storage, collection, and disposal of solid wastes, including aspects of vector control. Includes the management aspects of planning, organizing, designing, and operating refuse collection and disposal systems.

ENVH 3888 Honors Research Orientation (1 credit)—*Prerequisite(s): Admitted to ENVH Honors Program.* An honors course introducing the principles, designs, methods, materials, and tools of research used in environmental health sciences. Students will identify and initiate a research project appropriate for the Honors Thesis.

ENVH 3989-99 Cooperative Education (1-3 credits)—May substitute for ENVH 4080.

ENVH 4000 Public Health Law (3 credits)—An introduction to Public Health Law, including a study of the legal powers available for implementing programs, methods for their most effective use, and recognition and management of legal problems, an analysis of the legal relationship of an environmentalist to the government, the staff, and the public. Not required of international students.

ENVH 4018 Honors Thesis Research (1-3 credits)—*Prerequisite(s): Admitted to ENVH Honors Program.* Conduct honors research and complete the thesis. Variable credit (1-3) course, repeatable up to 6 credits.

ENVH 4080 Environmental Health Practice (3 credits)—*Prerequisite(s): Open to environmental health majors only.* Field experience in environmental health.

ENVH 4100 Shelter Environments (3 credits)—A course covering the principles of healthful housing and environment control of mobile homes, jails, motels, and hotels.

ENVH 4207/5207 Principles of Radiological Health (3 credits)—*Prerequisite(s): CHEM 1110/11 or permission of instructor.* The basic principles and procedures pertaining to the safe control of all common

sources of ionizing radiation and the causes, effects, and control of radiation are included. The laboratory experiments include safety monitoring, radiation detection, and the use of survey meters.

ENVH 4340 Occupational Health (3 credits)—*Prerequisite(s): CHEM 1110/11 or permission of instructor.* Familiarizes the student with health problems encountered in industry and various occupations. The causes of occupational diseases and ways to prevent the diseases are emphasized. Introduction to types of radiation, with emphasis on controlling the amount of radiation a person receives.

ENVH 4347/5347 Ergonomics (3 credits)—A study of human factors engineering concerning people, their work, and the work environment. Includes a discussion of the ergonomics approach to the work environment, including sensory and motor control, workplace design, heat stress, noise, vibrations, illumination, the measurement of work, anthropometric data, and related topics.

ENVH 4357/5357 Toxicology (3 credits)—*Prerequisite(s): CHEM 2010/11 and HSCI 3020; or permission of instructor.* A study of the essentials of toxicology, including toxicity determinations and measurements, and biologic factors important in understanding toxicity. A review of toxic substances in air, water, foods, and the workplace with a consideration of exposure limits, their rationale and evaluation methods.

ENVH 4360 Industrial Hygiene Laboratory (4 credits)—Evaluation of chemical and physical hazards in industrial work places. Potential hazards include noise, glare, heat, dust, solvents, radiation, etc.

***ENVH 4387/5387 Biological Analysis in Environmental Health (4 credits)**—*Prerequisite(s): A course in general microbiology; HSCI 3320/21 or HSCI 3330/31 and permission of the instructor.* The principles of microbiology with emphasis on growth requirements and the effects of chemical and physical agents as used for control, principles of aquatic toxicology. Instrumentation used in qualitative and quantitative analysis of the biological environment.

***ENVH 4397/5397 Environmental Analysis (4 credits)**—*Prerequisite(s): Seniors only, CHEM 1110/11, CHEM 1120/21, and permission of the instructor.* Provides training in physical and chemical analysis of water, wastewater, food, air, and toxic materials, principles of applied toxicology. Experience in the use of chemical instruments, as well as field test kits, will be obtained.

ENVH 4400 Environmental Health Program Planning and Administration (3 credits)—*Prerequisite(s): ENVH 3100, ENVH 3400, ENVH 3700, or permission of the instructor.* A study in how to administer, plan, and evaluate environmental health programs. The availability of resources and the relationship with other health agencies are given.

ENVH 4500 Fundamentals of Occupational Safety and Health (3 credits)—*Prerequisite(s): ENVH 3500 or permission of the instructor.* This course considers the principles and practices of Safety and Health Fundamentals, Performance Management, Managing Change for Safety and Health Professionals, and the elements of a successful Safety and Health Program.

ENVH 4607/5607 Food Sanitation Principles (3 credits)—*Prerequisite(s): General microbiology, HSCI 3320/21, or HSCI 3330/31.* A study of food composition, engineering principles, processing and preservation methods, food-borne diseases, and food regulatory programs.

ENVH 4610 Soil Science for Environmental Health (2 credits)—Survey of the chemical, biological, and physical concepts from soil science used in environmental health. Course covers soil formation, structure, and classification. Typical analytical procedures and soil characterization methods are described. Application to onsite wastewater treatment systems, municipal landfills, and hazardous waste landfills are covered.

ENVH 4710 Introduction to Hazardous Waste (3 credits)—Considers hazardous waste in its various forms. solid, liquid, and gaseous.

Topics covered include generation, storage, transport, and disposal of the waste.

ENVH 4727/5727 Hazardous Waste Operations and Emergency Response (3 credits)—The objectives of the course include giving the student basic concepts and techniques for appropriate behavior before, during, and after a hazardous materials incident. The course meets requirements to obtain 40-hour HAZWOPER certification. Three lecture hours per week.

ENVH 4888 Honors Seminar (1 credit)—*Prerequisite(s): Admitted to ENVH Honors Program.* Students will orally present the results of their honors thesis research. Credit can be earned by presenting the research results at a professional meeting.

ENVH 4905 Independent Studies in Environmental Health (1-4 credits)

ENVH 4957/5957 Special Topics in Environmental Health (1-6 credits)

ENVH 4989-99 Cooperative Education (1-3 credits)—Students will complete three credits of lecture and one credit of lab per week

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

ENVH 5100	Environmental Health Practice I	(3 credits)
ENVH 5200	Environmental Chemistry	(4 credits)
ENVH 5250	Environmental Microbiology	(4 credits)
ENVH 5500	Air Pollution Principles	(3 credits)
ENVH 5600	Water Pollution Principles	(3 credits)
ENVH 5610	Water Pollution Control	(3 credits)
ENVH 5640	Environmental Risk Assessment	(4 credits)
ENVH 5700	Industrial Hygiene and Safety	(3 credits)
ENVH 5760	Industrial Ventilation	(3 credits)
ENVH 5780	Characteristics of Hazardous Materials	(3 credits)
ENVH 5840	Solid Waste Management	(3 credits)
ENVH 5841	Hazardous Waste Management	(3 credits)
ENVH 5860	Environmental Health Administration	(3 credits)
ENVH 5870	Public Health Law	(3 credits)
ENVH 5871	Hazardous Materials Laws and Regulations	(3 credits)
ENVH 5890	Environmental Planning	(3 credits)
ENVH 5900	Independent Study	(1-3 credits)
ENVH 5910	Seminar	(1 credit)
ENVH 5960	Research and Thesis	(1-3 credits)
ENVH 5990	Readings and Research	(1-3 credits)
ENVH 5989-99	Cooperative Education	(1-3 credits)

Environmental Studies

ENVS

ENVS 2010 The Natural Environment in Appalachia (3 credits)
— The course surveys the environmental history of Appalachia with a focus on the history of industrialization and the emergence of conservation movements in the region.

ENVS 4950 Integrative Seminar in Environmental Studies (3 credits) — This is a capstone course for students in the Environmental Studies minor. Students will complete 20-30 hours of service with a local/regional group or institution. Service placements will be chosen in consultation with the instructor, based on students' particular areas of interest within environmental studies (such as business/commerce; public policy/activism; conservation/natural resources; interpretation/education). Students will read course texts in common with other students, plus texts related to service placement.

Family & Consumer Sciences

FACS

The FACS program is being phased out. Courses previously using the rubric FACS have moved to ECED, HDAL, INTD, MGMT, MKTG, and NTFD.

FACS 1038 Honors Orientation Seminar (1 credit)—*Prerequisite(s): Admission to College of Business and Technology or University Honors Program.* This course will fully orient the student to the college expectation for an honors student. Discussion and activities will relate to preparation for academic success and developing information technology skills. (as needed)

FACS 1110 Family Development (3 credits)—The study of individual development beginning with infancy and continuing through the formation of the family. Basic concepts, principles, and issues in human and family growth will be stressed. (fall, spring)

FACS 1410 Food Selection and Preparation (4 credits)—Food selection, preparation, and management for all food classifications. Consumer concerns and meal organization to meet nutritional needs. Laboratory activities will demonstrate desirable standard products. Laboratory (fall)

FACS 1500 Freshman Seminar (1 credit)—Required for all first semester FACS freshmen. Introduction to the Family and Consumer Sciences profession with a focus on career orientation. Goal setting, decision-making, and resource management as applied to personal and professional lives is emphasized. (fall)

FACS 1610 Historical Interiors (3 credits)—A historical survey of interiors from antiquity through the 19th century; Emphasizing the influence on today's interiors and architecture. (fall)

FACS 1620 Introduction to Contemporary Interiors (3 credits)—An introductory study of the basic elements and principles for creative, comfortable, and aesthetically pleasing contemporary interiors. An emphasis is placed on the use of interior materials. Professional designer techniques are introduced. (fall)

FACS 1621 Design Communications: Studio I (3 credits)—*Prerequisite: FACS 1620.* Introduction to the terminology and symbols used in interior design. Students develop floor plans, sections, 3-D models, and paraline drawings to communicate ideas. (fall)

FACS 2038 Honors Professional Ethics (3 credits)—*Prerequisite(s): Admission to College of Business and Technology or University Honors Program and sophomore standing.* A case-study approach to basic ethical issues likely to confront engineers, computer scientists, family and consumer scientists in their professional practices. (as needed)

FACS 2200 Applied Design for Apparel and Interiors (2 credits)—An exploration of the application of elements and principles of design in apparel and interiors. Fundamentals involved in the art of design focus on individual, family, and community needs for apparel, home environment, and commercial/industrial products. The creative process and problem solving for functional design are emphasized. (fall)

FACS 2205 Principles of Clothing (4 credits)—Study of concepts involved in the use of commercial patterns to construct basic apparel products. Emphasis will be placed on construction principles and personal fit. Class meets double periods. (fall, summer)

FACS 2220 Consumer Clothing Concerns (3 credits)—An exploration of clothing in relation to the individual, the family, and society. The social psychology of clothing and essential factors in consumer clothing decisions will be emphasized. (fall)

FACS 2420 Principles of Nutrition (3 credits)—Introduction of scientific nutrition principles with emphasis on nutritional requirements, dietary sources of nutrients, nutrient utilization, and the impact of nutrition on energy intake and weight control, fitness, disease prevention, the life cycle, food technology, food safety, and the environment. (fall, spring)

FACS 2480 Food Service Management Internship I (4 credits)—*Prerequisite(s): FACS 1410 and FACS 2420.* Students are selected through a competitive process for assignments in approved businesses of public-sector organizations as interns under the supervision of the field study coordinator. One hour per week will be a seminar devoted to current issues and problems.

FACS 2500 Sophomore Seminar (1 credit)—Exploration of family and consumer sciences careers through presentations by students and practicing professionals. Emphasis is placed on presentation techniques and strategies for evaluating oral presentations. (spring)

FACS 2611 Kitchen and Bath Planning (3 credits)—*Prerequisite(s): FACS 1610, FACS 1620, FACS 2620, ARTA 1110, or equivalent.* Integration of task planning, movements, sensory mechanisms, and aesthetic considerations into supportive and attractive furnishings, equipment, accessories, and lighting in kitchen and bath. (spring)

FACS 2620 Design for Human Behavior (3 credits)—Exploration of the relationships between the designed environment and the behavior, feelings, and values of occupants. Introduction to proxemics, territoriality, way finding, and other environment/behavior concepts. (spring)

FACS 2630 Presentation: Studio II (3 credits)—*Prerequisite(s): FACS 1621, ARTA 1110, and ARTA 1204.* Etching, simulation, display, photography, and other visual techniques to convey design concepts. (spring)

FACS 2989-99 Cooperative Education (1-3 credits) (as needed)

FACS 3030 Technical Communication (3 credits)—*Prerequisite(s): ENGL 1010 and ENGL 1020.* Preparation of written information on scientific and technical fields, including reports, specifications, handbooks, and papers designed for publication in technical and scientific journals. Exercises in oral communication as applied to scientific and technical fields will also be an integral part of the course. (as needed)

FACS 3048 Honors Methods of Research (3 credits)—*Prerequisite(s): Admission to the College of Business and Technology or the University Honors Program.* Analysis of the materials and methods of research appropriate to Applied Science and Technology. (as needed)

FACS 3210 Apparel Quality Analysis (4 credits)—*Prerequisite(s): FACS 2205 or departmental approval.* Application of advanced clothing construction techniques in the development of analysis skills for determining quality of apparel products. Construction skills, time management, solutions to problems of fit, and experience with contemporary fabrics and designs will be emphasized. Class meets double periods. (spring)

FACS 3220 Textiles I (3 credits)—*Prerequisite(s): BIOL 1010/11 and BIOL 1020/21; or CHEM 1110/11 and CHEM 1120/21; or CHEM 1030 and PHYS 1030; and junior standing.* Study of textiles from fiber to finished fabric, with emphasis on fiber characteristics, yarn structures, and fabrications, which determine choice, uses, and care of textile products. All topics studied will emphasize a consumer point of view. New developments in legislation and current issues in textiles will be explored. (fall)

FACS 3221 Textiles II (3 credits)—*Prerequisite(s): FACS 3220 or departmental approval.* Study of fabric classifications, finishes, and dyeing and printing processes. Emphasis will be placed on appropriate consumer choice, use and care of apparel and home furnishings, textile products, and will include discussion of textile and apparel economics, new developments in legislation, and current issues in textiles. (spring)

FACS 3230 Fashion Fundamentals (3 credits)—*Prerequisite(s): FACS 2220.* An overview of the fashion business. The influence of historic costume on modern dress, fashion terminology, design processes, techniques of analysis and prediction, and fundamentals of apparel manufacturing will be explored. (fall)

FACS 3430 Community Nutrition (3 credits)—Current trends in nutrition programs on the local, state, and national levels. Methods used to assess nutritional needs of populations. Influence of socioeconomic, cultural, and psychological factors on food and nutrition behavior of groups within a community. (fall, spring)

FACS 3460 Experimental Food Science (4 credits)—*Prerequisite(s): FACS 1410 and CHEM 1000 or 1120/21.* Experimental study of ingredient functions and factors affecting product quality. Evaluations based on physical, chemical, and organoleptic properties of foods. Research design, methods, written, and oral presentation of individual experiments. (spring)

FACS 3465 Human Nutrition and Metabolism (3 credits)—*Prerequisite(s): FACS 2420.* A comprehensive study of digestion, absorption, excretion, and storage of nutrients in the adult human with emphasis on digestive and endocrine physiology. (spring)

FACS 3470 Beverage Management in Foodservice Organizations (2 credits)—*Prerequisite(s): FACS 1410.* An introduction to the control and management of beverage service in foodservice establishments. This course will review all types of beverages sold in the U.S. market and the specific industry and government guidelines for each. Inventory and cost control of beverages and beverage service will be examined. (fall, even years)

FACS 3480 Food Service Internship II (4 credits)—*Prerequisite(s): FACS 2480.* Students are selected through a competitive process of assignments in approved businesses of public-sector organizations as interns under the supervision of the field study coordinator. One hour per week will be a seminar devoted to current issues and problems.

FACS 3500 Junior Seminar (1 credit)—*Prerequisite(s): FACS 2500.* Exploration of the value of lifelong learning and continuing professional involvement in family and consumer sciences through the development of a research paper exploring avenues for community involvement and volunteerism. Emphasis is placed on written research skills and evaluation of ethics in the workplace. (spring)

FACS 3615 Space Planning: Studio III (3 credits)—*Prerequisite(s): FACS 2611, FACS 2620, FACS 2630, and FACS 3625.* Application of the space planning process to meet codes, standards, and program requirements for interior spaces up to 10,000 square feet. (fall)

FACS 3621 Residential Design and Housing (3 credits)—*Prerequisite(s): FACS 3625.* Advanced residential design and housing issues. (fall)

FACS 3625 AutoCAD for Interior Designers (3 credits)—*Prerequisite(s): FACS 1621.* A technology-intensive course on computer-aided design skills specifically for interior design students through the use of AutoCAD software, architectural examples, and self-paced learning techniques. (fall)

FACS 3627 Materials and Methods (3 credits)—*Prerequisite(s): FACS 3625.* The study of materials and methods used to develop interior spaces. Emphasis on specifications and installation of interior elements such as lighting, flooring, wall, and ceiling systems that make up the 3-dimensional nature of interior structures and conform to public health, safety, and welfare codes. (spring)

FACS 3630 Advanced Lighting (3 credits)—*Prerequisite(s): FACS 3615.* Advanced study of lighting for various nonresidential applications. Emphasis on selection criteria and effects. (spring)

FACS 3650 Contract Design (3 credits)—*Prerequisite(s): FACS 2611.* Laws, codes, standards, and specifications relative to nonresidential interiors. (fall)

FACS 3989-99 Cooperative Education (1-3 credits) (as needed)

FACS 4018 Honors Thesis (3 credits)—*Prerequisite(s): Satisfactory completion of all college honors classes and advisor approval.* The thesis is a capstone academic experience bringing into focus the result of the student's learning and career interest. (as needed)

FACS 4048 Honors International Study (3 credits)—*Prerequisite(s): Satisfactory completion of all CBHT Honors courses or college honors committee approval.* This course will consist of a two-week international study and cultural experience in addition to a return orientation. (as needed)

FACS 4220 Fashion Merchandising (3 credits)—*Prerequisite(s): FACS 3230.* The study of merchandising procedures as they are applied to the marketing of apparel. Merchandising practice will be studied as a segment of the total apparel marketing system. (spring)

FACS 4221 Apparel Merchandising Study Tour (1-3)—*Prerequisite(s): Junior standing and permission of instructor.* The Apparel Merchandising Study Tour will acquaint students with major apparel market centers, providing exposure to design, manufacturing, and retail organizations of historic importance or current prominence. Interaction with professionals will be provided with a lecture series and a trip to selected United States or European market centers. (summer)

FACS 4225 Merchandising Planning and Control (3 credits)—*Prerequisite(s): FACS 4220 and MATH 1530, MATH 1840, or MATH 1910.* Merchandising Planning and Control is designed to help students become knowledgeable about the numerical terminology, concepts, and calculators that are the language of retail management. The concepts of sales, costs, expenses, profits, markups, markdowns, stock turns, open to buys, sales per square foot and returns on investments, help retailers plan activities that result in sales, monitor results against goals, and renew and assess performance for future decisions. (spring)

FACS 4230 Merchandise Buying (3 credits)—*Prerequisite(s): FACS 4225.* The study of the purchase of apparel merchandise for resale to the ultimate consumer. The role of the buyer, including planning, buying, pricing, stockkeeping, and selling will be explored. (fall)

FACS 4240 Visual Merchandising (3 credits)—*Prerequisite(s): FACS 2220 and FACS 4220; or departmental approval.* An overview of the visual design process as it is applied to the merchandising of apparel and home furnishing products. Emphasis centers on the development of skills needed to plan, implement, and evaluate effective merchandise presentations in varied retail settings. (spring)

FACS 4250 Advertising and Promotion (3 credits)—*Prerequisite(s): FACS 4220.* A study of the purposes and applications of advertising and promotion in the fashion industry, including procedures, methods, and techniques used in the organization, execution, and evaluation of various promotional activities. (fall)

FACS 4260 Merchandising Seminar (3 credits)—*Prerequisite(s): FACS 4220, and departmental approval.* A capstone course designed to promote the application of concepts learned in merchandising courses by providing opportunities for analysis, synthesis, and evaluation. Success in the merchandising field is dependent upon the ability to analyze situations, make decisions, and communicate effectively with others in the retail organization. Management personnel must be able to promote customer service by demonstration as well as instructing other associates. (spring)

FACS 4261 Merchandising Internship (3-9 credits)—*Corequisite(s): FACS 4260 or departmental approval.* Retail managers need to be problem-solvers, idea-generators, decision-makers, and action-takers. This course permits undergraduate students to complete a formal university internship, which meets these criteria with local retailers while completing coursework. The internship course experience fosters transference of knowledge and skill into competencies required for successful performance in a retail management career. (spring)

FACS 4330 Family Management Through the Lifespan (3 credits)—*Prerequisite(s): FACS 1110.* A study of consumer and financial management problems encountered by today's families. Emphasis placed on consumer rights and responsibilities, legislation, fundamentals of buymanship, factors influencing consumer behavior, budgeting, credit, insurance, savings, taxes, and estate planning. (fall)

FACS 4417/5417 Food Systems Operations (3 credits)—*Prerequisites: FACS 4467 and FACS 4497.* Management principles, leadership, decision-making, and control of food service operations. Includes human resource and financial management, utilization of current technology, and computer assisted management control of the food service operation. (spring)

FACS 4427/5427 Diet in Disease I (3 credits)—*Prerequisite(s): FACS 3465 and HSCI 3020.* Principles of clinical dietetics management, medical

terminology, medical documentation, design, and implementation of nutrition care plans. Begin the application of principles of clinical nutrition to prevention and treatment of disease, drug-nutrient interaction, nutritional assessment, and nutritional support. (fall)

FACS 4437/5437 Diet in Disease II (3 credits)—*Prerequisite(s): FACS 4427/5427 or departmental approval.* Assessment, treatment, and nutritional management of the patient with complicated disease states. Nutritional risk screening and nutritional treatment options to meet varying disease states and stages, and the role of the dietitian and nutritional therapy are discussed. (spring)

FACS 4447/5447 Nutritional Biochemistry (3 credits)—*Prerequisite(s): FACS 3465 and HSCI 3020.* A study of nutrition as the science that integrates life processes from the cellular level on through the multi-system operation of the total organism. The focus will be on current trends in normal biochemical and physiological human nutrition. (fall)

FACS 4467/5467 Quantity Food Procurement and Production (4 credits)—*Prerequisite(s): FACS 1410.* Application of menu writing and design, quantity food procurement, production planning, preparation, distribution, and evaluation in food service operations. Menu planning and analysis as the basis for control within the food service is emphasized, and sanitation and safety within the commercial food service operation are explored. This course has a three hour lab which provides hands-on food service experiences for the students. (spring)

FACS 4480 Food Service Management Internship III (4 credits)—*Prerequisite(s): FACS 3480, FACS 4417, and FACS 4497.* This course is designed to allow the students to gain an understanding of top level management, financial management, and marketing functions used within the foodservice operation. Students are selected through a competitive process for assignments in approved businesses of public-sector organizations as interns under the supervision of the field study coordinator. One hour per week will be a seminar devoted to current issues and problems.

FACS 4497/5497 Administration of Food Service Organizations (4 credits)—*Prerequisite(s): FACS 1410.* Review of commercial and noncommercial food service operations. Includes facilities planning, integration, marketing, and management with the food service industry. There is an emphasis on comprehensive food service design from the mission to the actual layout and staffing of the facility. (fall)

FACS 4500 Senior Seminar (1 credit)—Exploration of the role of family and consumer sciences in social systems, with emphasis on ethical issues in family and community life. Students will orally present research findings delivered in FACS 3500, and prepare and submit graduation papers in consultation with departmental chair. (fall)

FACS 4537/5537 Field Studies (3-9 credits)—*Prerequisite(s): Senior standing and departmental approval.* Supervised field studies in student's major area of interest. May be repeated for a total of 6 credits. (fall, spring, summer)

FACS 4547/5547 Corporate Etiquette (3 credits)—Designed to help students present themselves with confidence to outclass the competition. Topics covered include introductions, conversation skills, working a room, business attire, dining in corporate America, wine selection, resume writing, interviewing, international business and more. Skills should help you obtain a job, advance to a higher position, and make career changes. (fall, spring, summer)

FACS 4610 Health Care Studio IV (3 credits)—*Prerequisite: FACS 3650.* Application of the design process in planning interior health care environments for the children, the elderly, physically challenged, and other special populations. (fall, spring)

FACS 4611 Hospitality: Studio V (3 credits)—*Prerequisite(s): FACS 4610 and departmental approval.* Complex problem-solving in hospitality

design. Involvement with historic rehabilitation or preservation, government policies and/or community issues. (spring)

FACS 4615 Professional Practices in Interior Design (3 credits)—*Prerequisite(s): FACS 3621.* Professional business practices, contracts, ethics, responsibilities, liabilities, etc. Introduction to professional organizations, markets, and financial services employment practices. (spring)

FACS 4657/5657 Historical Interior/Architecture II (1-3 credits)—*Prerequisite(s): FACS 1610 and FACS 1620.* Classroom and on-site study of interior and exterior architecture in various parts of the United States. Structured semi-independent study and travel. (spring)

FACS 4700 Family and Consumer Sciences Curriculum and Methods (4 credits)—A comprehensive overview of family and consumer sciences education programs and their place within the educational curriculum. Emphasis placed on the organization and administration of the family and consumer sciences education programs. Program planning, methodology, teaching strategies and techniques, and teaching-learning process, and program evaluations examined. Students will be provided experiences in curriculum development and observation in an educational setting. (spring)

FACS 4900 Independent Studies (1-9 credits)—*Prerequisite(s): Permission of department chair and instructor.* (as needed)

FACS 4957/5957 Special Topics in Family and Consumer Sciences 1-63 credits—Selected subjects in student's area of interest in credit not included elsewhere in course offerings. May be repeated for credit when content varies. (as needed)

FACS 4989-99 Cooperative Education (1-3 credits) (as needed)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

FACS 5410	Seminar in Nutrition	(1 credit)
FACS 5420	Maternal-Child Nutrition	(3 credits)
FACS 5421	Lifespan Nutrition Practicum I	(2 credits)
FACS 5422	Lifespan Nutrition Practicum II	(2 credits)
FACS 5423	Lifespan Nutrition Practicum III	(2 credits)
FACS 5430	Complex Adult Nutritional Care	(3 credits)
FACS 5431	Medical Nutrition Therapy Practicum I	(2 credits)
FACS 5432	Medical Nutrition Therapy Practicum II	(2 credits)
FACS 5433	Medical Nutrition Therapy Practicum III	(2 credits)
FACS 5450	Advanced Nutrition Therapy	(3 credits)
FACS 5451	Nutrition & Food Systems Management Practicum I	(2 credits)
FACS 5452	Nutrition & Food Systems Management Practicum II	(2 credits)
FACS 5453	Nutrition & Food Systems Management Practicum III	(2 credits)
FACS 5460	Capstone Research Project	(3 credits)
FACS 5900	Independent Study	(1-9 credits)
FACS 5960	Thesis	(1-6 credits)
FACS 5990	Readings and Research	(1-3 credits)

Family/Community Nursing

FCNU

FCNU 2030 Health Assessment (4 credits)—*Prerequisite: Admission to the major or permission of the department chair; Prerequisite(s) or Corequisite(s): HSCI 2010/11, HSCI 2020/21, and PMNU 2310.* The health assessment course focuses on the acquisition of strong history-taking and physical examination skills primarily in a laboratory setting, with select community experiences. Special emphasis will be placed on the transcultural considerations involved in health assessment and the physical examination of varied adult populations, as well as select family groups. (fall, spring, summer)

FCNU 3028 Health Assessment for Public Health Nurses (3 credits)—*Prerequisite(s): HSCI 3000 or equivalent; Current active licensure as a registered nurse in Tennessee.* A health assessment course designed for public health nurses with emphasis on the acquisition of history-taking skills and physical examination techniques in the laboratory setting. Students will learn skills primarily related to pediatric and young and middle-aged adult clients. (summer)

FCNU 3070 Care of Young Adults and Childbearing Families (3 credits)—*Prerequisite: Completion of first semester, junior courses. Corequisite:*

FCNU 3071. Course content focuses on the health care of young adults as clients within the family and as members of the community. Reproductive health is a core component of the course with emphasis on nursing assessment, family planning, health promotion, and risk reduction during the childbearing cycle. (fall, spring)

FCNU 3071 Care of Young Adults and Childbearing Families Practicum (3 credits)—*Pre- or Corequisite: FCNU 3070.* This course focuses on care of young adults and families during the childbearing cycle. (fall, spring)

FCNU 3080 Care of Children and Their Families (3 credits)—*Prerequisite: Completion of first semester, junior courses.* The course focus is on the care of infants and children from birth to preadolescence experiencing developmental and/or situational circumstances that may affect health. Emphasis is placed on physical and developmental assessment, nursing interventions to promote or restore health, and assisting children and their families in adaptation to hospitalization and chronic or terminal illnesses. (fall, spring)

FCNU 3081 Care of Children and Their Families Practicum (3 credits) — *Prerequisite or Corequisite: FCNU 3080.* This course focuses on the health care of infants and children. Diverse settings are used to plan and evaluate nursing care that includes primary prevention strategies, as well as acute, chronic, and terminal care. (fall, spring)

FCNU 3300 Promoting Academic Success in Nursing (1 credit)—*Prerequisite(s): Admission to the nursing major.* This course is designed to promote academic success in nursing students through their understanding of test taking and study skills, and the application of these skills on nursing tests. (fall, spring)

FCNU 3302 Enhancing Achievement Strategies in Nursing (1 credit) — This course is designed to enhance achievement in nursing students' individualized learning through application of a variety of learning skills. (fall, spring)

FCNU/ALNU/PMNU 4008 Honors Mentorship in Nursing (1 credit)—*Prerequisite(s): Acceptance into the College of Nursing Honors in Discipline Program.* An individualized course in which the student collaborates with a mentor to create a program of learning that supports academic and professional goals. Course may be taken twice for credit. (fall, spring)

FCNU/ALNU/PMNU 4018 Nursing Honors Thesis (3 or 6 credits)—*Prerequisite(s): Admission to the College of Nursing Honor in Discipline Program, Honors Mentorship in Nursing or permission of instructor.* An independent course for the senior-level honors student to complete a thesis suitable for presentation. The written paper will demonstrate scholarship, basic understanding of the research process, and relevance to professional trends and issues. (fall, spring)

FCNU 4037/5037 Community Concepts for Public Health Nurses (3 credits)—*Prerequisite(s): Licensed Registered Nurse or permission of the instructor.* This course is primarily designed for nurses working in the public health field. Principles of community assessment, program development, and evaluation will build on prior work experiences of the students. Development of community partnerships and community leadership will be emphasized. (summer)

FCNU 4040 Care of Communities II (3 credits) — *Prerequisites: Completion of first semester, senior courses; FCNU 4110.* In this course, students focus on partnering with a community in order to promote the health of an identified population. Students implement nursing care with a selected population utilizing epidemiological methods and interdisciplinary collaboration and build upon their earlier work within a community of choice. (fall, spring)

FCNU 4110 Population-based Nursing Care I (3 credits) — *Prerequisite: Completion of second semester junior courses.* This course is an introduction to the nursing care of populations and allows students to

explore the public health sciences, health policy, public health ethics, health care delivery, and the community health nurse's role. All students will assess the historical, social, political, economic, environmental, educational, health, and cultural aspects of a community and populations. (fall, spring)

FCNU 4120 Population-based Nursing Care II (3 credits) — *Prerequisites: Completion of first semester, senior courses; FCNU 4110.* In this course, students focus on partnering with a community in order to promote the health of an identified population. Students implement nursing care with a selected population utilizing epidemiological methods and interdisciplinary collaboration and build upon their earlier work within a community of choice. (fall, spring)

FCNU 4507/5507 Social Concerns and Women's Health (3 credits)—This course addresses the historical perspectives and current status of women's health, special concerns related to women's health and the economic, political, and cultural factors which impact women's health. (spring)

FCNU 4807/5807 Global Health Issues (3 credits)—*Prerequisite(s): Health science division major or permission of instructor.* This course is designed for both health science division students and health care providers interested in increasing their understanding of international and cross-cultural health. The course focuses on issues and skills that will enhance the practice of health science personnel, especially those intending to apply their skills in settings outside the United States. Elective (summer)

FCNU 4900 Nursing Independent Study (1-3 credits) (fall, spring, summer)

FCNU 4907/5907 International Primary Health Care Practicum (3 credits)—*Prerequisite(s): FCNU 4807/5807 or the equivalent.* Undergraduate nursing students must have completed junior-level nursing courses or obtain permission of instructor. This course is designed for participants to directly experience cross-cultural and/or international health care to increase their health care delivery skills and understanding of other health care systems. Students will travel and live in the context of the host culture. All travel-related costs are met by the participating student. Elective (summer)

FCNU 4957/5957 Special Topics in Nursing (1-6 credits)—*Prerequisite(s): Permission of the instructor.* Special topics related to nursing and health care will be presented. Course may include didactic and experiential methods of instruction. Course may be repeated for credit if course content is significantly different or advanced. (fall, spring)

FCNU/ALNU/PMNU 4989 Cooperative Education in Nursing (1-3 credits)—*Prerequisite(s): Permission of department chair.* This course, with 1-3 credits as arranged, allows the student to spend time in a career-related work experience. Formal agreements are established by the university and the employer to help students accomplish specific educational outcomes. Elective (summer)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

FCNU 5021	Life Span Assessment and Clinical Management: Women's Health	(2 credits)
FCNU 5022	Life Span Assessment and Clinical Management: Women's Health Practicum	(3 credits)
FCNU 5023	Life Span Assessment and Clinical Management: Children and Adolescents	(2 credits)
FCNU 5024	Life Span Assessment and Clinical Management: Children & Adolescents Practicum	(3 credits)
FCNU 5900	Independent Study	(1-3 credits)
FCNU 5950	Internship in Advanced Nursing Practice	(4 credits)
FCNU 5960	Thesis	(1-6 credits)
FCNU 5990	Readings and Research	(1-3 credits)
FCNU 6014	Measurement of Clinical Outcomes	(3 credits)
FCNU 6016	Collaborative Approaches to Practice	(3 credits)
FCNU 6030	Quantitative Methods in Nursing Research	(3 credits)
FCNU 6960	Doctoral Dissertation	(1-12 credits)
FCNU 6990	Readings in Research	(1-3 credits)

**Finance
FNCE**

Note: All students enrolling in upper-division, 3000-4000 level, College of Business and Technology courses must have junior or senior standing.

FNCE 3120 Principles of Real Estate (3 credits)—A study concerning economic, social, financial, and legal problems involved in acquiring, holding, and disposing of real estate. (fall)

FNCE 3130 Real Estate Law (3 credits)—A study of property rights and liabilities, real estate instruments, estates, leases, and liens. The approach is from the businessperson's viewpoint. (spring)

FNCE 3210 Personal Finance (3 credits)—A consumer-oriented introduction to finance. Budget priorities, credit, interest rates, insurance, investments, housing, and estate planning are all treated in a straightforward manner.

FNCE 3220 Business Finance (3 credits)—*Prerequisite(s): ACCT 2010.* Emphasis upon the decision-making tools used in financial management including ratio analysis, operating and financial leverage, interest factors, capital budgeting, valuation, cost of capital, and dividend policy. (fall, spring, summer)

FNCE 3300 Principles of Investment (3 credits)—*Prerequisite(s): FNCE 3220.* Stock, bond, and option markets, mutual funds, the stock brokerage business, investment advisory services, introduction to the basics of investment decision-making. (fall, spring, summer)

FNCE 3500 Capital Budgeting (3 credits)—*Prerequisite(s): FNCE 3220.* An advanced course in financial management emphasizing capital asset selection under conditions of risk. (fall, spring, summer)

FNCE 3600 International Financial Markets (3 credits)—*Prerequisite(s): FNCE 3220.* This course covers topics such as an overview of international monetary systems, market structure and institutions, international parity conditions, foreign exchange rate determination and forecasting, foreign exchange market efficiency, eurocurrency and eurobond markets, currency and interest future, options, and swaps regulation and intervention.

FNCE 4018 Senior Honors Seminar (3 credits)—*Prerequisite(s): ECON 3088 and admission to the College of Business and Technology Honors Program; by permit only.* A seminar for College of Business and Technology honors students who are working on senior honors theses or other approved projects. Upon successful completion of the course, students will have demonstrated the ability to complete the research process by creating a written product suitable for submission to the College of Business and Technology faculty. (offered on an individual basis)

FNCE 4320 Real Estate Appraisals (3 credits)—A study of the fundamentals of appraising various properties and of the three major approaches to finding value: cost, income, and market. (fall)

FNCE 4330 Real Estate Finance (3 credits)—*Prerequisite(s): FNCE 3120 or FNCE 3220.* A study of the various sources of funds for financing real estate transactions, and of problems encountered in financing real estate. (fall, spring)

FNCE 4340 Real Estate Brokerage (3 credits)—*Prerequisite(s): FNCE 3120, FNCE 3220, or consent of instructor.* A study of agency operations, including listing, prospecting, advertising, showing property, and closing transactions.

FNCE 4350 Real Estate Management (3 credits)—*Prerequisite(s): FNCE 3120 or consent of instructor.* A basic course dealing with the functions, qualifications, and responsibilities of the property manager. The nature and kinds of property with which the manager might be involved are discussed.

FNCE 4360 Real Estate Appraisal Problems (3 credits)—*Prerequisite(s): FNCE 4320.* A course designed to study appraisal problems in actual field situations, as well as in the classroom. (spring)

FNCE 4447/5447 Banking and Financial Intermediation (3 credits)—*Prerequisite(s): FNCE 3220 and ECON 3310.* The workings of financial markets and institutions with special reference to banking. (fall)

FNCE 4500 Credit Management (3 credits)—*Prerequisite(s): FNCE 3220.* The nature and importance of credit. An analysis of principles underlying the extension of credit and the management of credit operations. (fall)

FNCE 4520 Bank Policy (3 credits)—*Prerequisite(s): FNCE 4447.* A course in bank management. Emphasis will be placed on key financial concepts and their application in financial management decisions. Use of case problems. (spring)

FNCE 4560 Portfolio Theory and Valuation (3 credits)—*Prerequisite(s): FNCE 3300.* Selection and valuation of portfolios of securities. (fall, spring)

FNCE 4597/5597 International Financial Management (3 credits)—*Prerequisite(s): FNCE 3300 and FNCE 3500.* Financial problems of multinational corporations including the theory of capital movements, foreign exchange markets, concepts of the balance of payments mechanisms, trade policy, and the functioning of the international monetary systems. (fall, spring)

FNCE 4617/5617 Applied Equity Valuation (3 credits)—*Prerequisite(s): FNCE 3300 or BADM 5430.* This course provides a solid practical foundation in equity valuation through the analysis and selection of equity securities for a portfolio of funds provided by the Tennessee Valley Authority (TVA). (fall, spring)

FNCE 4620 Financial Analysis and Policy (3 credits)—*Prerequisite(s): FNCE 3300, FNCE 3500, and senior standing.* An integrative course designed to provide insight and experience in problem solving in finance. The course utilizes cases and computer applications. This is the capstone course for all finance majors. (fall, spring)

FNCE 4697/5697 International Investments (3 credits)—*Prerequisite(s): FNCE 3220 and FNCE 3300; or permission of the instructor.* To immerse you in the world of international investments. Advanced course designed to equip students with the theoretical background, quantitative skills, and practical tools required to be successful managers in the field of international investments. Topics will include a review of parity conditions, foreign exchange rate forecasting, benefits of international diversification, international asset pricing, international equity markets, instruments, concepts and techniques, emerging stock market futures options, international performance analysis, and structuring the international process.

FNCE 4900 Independent Study in Finance (1-3 credits)—A course designed for advanced students who, under the director of a finance faculty member, wish to engage in independent research or an intensive study of subjects not covered in other available courses. Prior departmental and college approval is needed. (offered on an individual basis)

FNCE 4905 Banking Internship (3 credits)—*Prerequisite(s): Completion of, at least, six credit hours at the upper-division level in the student's major, junior or senior standing, and a 2.7 GPA or above.* Students are selected through a competitive process for assignments in approved financial institutions as interns under the supervision of the internship coordinator and field placement supervisors. Students may not earn more than three semester credits for this course which can be used as a free elective or an elective within a business major with prior approval by the chair. (offered on an individual basis)

FNCE 4906 Finance Internship (3 credits)—*Prerequisite(s): Completion of, at least, six credit hours at the upper-division level in the student's major, junior or senior standing, and a 2.7 GPA or above.* Students are selected through a competitive process for assignments in approved business or public-sector organizations as interns under the supervision of the internship

coordinator and field placement supervisors. Students may not earn more than three semester credits for this course which can be used as a free elective or an elective within a business major with prior approval by the chair. (offered on an individual basis)

FNCE 4957/5957 Topics in Finance (1-6 credits)—*Prerequisite(s): Senior standing.* This course gives students an opportunity to study special problems and new developments in the field of finance. (offered on an individual basis)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

FNCE 5000	Essentials of Finance	(3 credits)
FNCE 5470	Seminar in Finance	(3 credits)
FNCE 5490	Security Analysis and Portfolio Management	(3 credits)
FNCE 5600	Case Study in Banking	(3 credits)
FNCE 5900	Independent Study in Finance	(1-3 credits)

Foreign Languages (See LANG)

Also see CHIN, FREN, GERMA, JAPN, LATN, SPAN

French FREN

FREN 1010 Beginning French I (3 credits)—Introduction to the French language and to the culture, geography, and history of French-speaking countries.

FREN 1020 Beginning French II (3 credits)—*Prerequisite: A grade of at least a C- in FREN 1010, credit received from CLEP exam, or with consent of the coordinator for French.* Introduction to the French language and to the culture, geography, and history of French-speaking countries.

FREN 2010 Second-Year French I (3 credits) — *Prerequisite: A grade of at least a C- in FREN 1020, credit received from CLEP exam, or with consent of the coordinator for French.* A continuation of first year, with an introduction to French literature.

FREN 2020 Second-Year French II (3 credits) — *Prerequisite: A grade of at least a C- in FREN 2010 or with consent of the coordinator for French.* A continuation of first year, with an introduction to French literature.

FREN 3010-3110 French Conversation and Composition (3 credits)—Practice in conversation, with emphasis on idioms, syntax, and current expressions. Study of grammar through compositions.

FREN 3210 Readings in French (3 credits)—A study of techniques and strategies to improve reading skills in French.

FREN 3310 French Civilization (3 credits)—Geography, history, and culture of France.

FREN 3510 Survey of French Literature Before 1700 (3 credits)—Study of major French authors from the Middle Ages through 1700.

FREN 3610 Survey of French Literature After 1700 (3 credits)—Works of major French authors from the 18th century through the present.

FREN 4017/5017 Advanced French Grammar (3 credits)—*Prerequisite(s): FREN 2020 or permission of instructor.* This course focuses on an in-depth review of troublesome aspects of French grammar complemented by contextual analyses drawn from cultural and/or literary readings selections.

FREN 4018 Honors Thesis (3-6 credits)—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

FREN 4117/5117 French Drama from 1600 to the Present (3 credits)—Selected plays from major French dramatists from 1600 to the present.

FREN 4217/5217 Sixteenth Century French Literature (3 credits)—Selected works by the principal 16th century writers and poets of the Renaissance.

FREN 4317/5317 Seventeenth Century French Literature (3 credits)—Selected works from the prose, poetry, and theatre of the principal authors of the Classical Period.

FREN 4337/5337 French Phonetics and Pronunciation (3 credits)—A study of the International Alphabet, incorporating phonetic dictation and transcription.

FREN 4417/5417 Eighteenth Century French Literature (3 credits)—Selected works of the French philosophers and authors of the Age of Reason.

FREN 4517/5517 Nineteenth Century French Literature (3 credits)—Selected works from the poetry and prose of the major authors of French Romanticism.

FREN 4617/5617 Twentieth Century French Literature (3 credits)—Selected works from the prose and poetry of major French authors of the 20th century.

FREN 4900 Special Studies in French (1-3 credits)—Designed to provide opportunities for study in areas not provided for in the regular course offerings for undergraduates. Students desiring to enroll must obtain permission from the instructor.

FREN 4957/5957 Topics in French (1-6 credits)—This course gives the students an opportunity to study special problems and new developments in the field of French.

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

FREN 5900 Special Studies in French (1-6 credits)

**Geography
GEOG**

GEOG 1012 Introduction to Cultural Geography (3 credits)—A survey of the spatial characteristics and value systems of cultures throughout the world. (fall, spring, summer)

GEOG 1013 Introduction to World Regional Geography (3 credits)—A survey of the major regions of the world with emphasis on their physical and cultural interrelationships. (fall, spring)

GEOG 1110 Earth Science: Weather and Climate (4 credits)—An introduction to atmospheric processes and geographic distribution of radiation, moisture, pressure, and circulation interacting to create weather systems and storms, oceanic influences, earth-sun relationship, global climate patterns, human interaction with atmosphere. Three lecture, two lab credits per week. (fall, spring, summer)

GEOG 1120 Earth Science: Landforms and Processes (4 credits)—An introduction to the agents and processes of landform development. Emphasis is also placed on distribution of landform systems and human impacts on these systems. Three lecture credits, two lab credits per week. (fall, spring, summer)

GEOG 3010 Economic Geography-Manufacturing and Service Industries (3 credits)—Evaluation of the distribution of different types of manufacturing and service industries and the factors underlying their locative choices. Analysis of the role of manufacturing and service activities in a modern urban-industrial society. (spring, odd years)

GEOG 3020 Economic Geography-Agricultural and Extractive Industries (3 credits)—A study of the spatial distribution and characteristics of agricultural and extractive industries of the world.

GEOG 3040 Conservation of Natural Resources (3 credits)—Investigation into the use, abuse, and allocation of natural resources.

GEOG 3060 Geomorphology (4 credits)—An investigation into the physical processes responsible for landforms. (fall, even years)

GEOG 3090 Meteorology and Climatology (4 credits)—A study of atmospheric elements and processes and climatic controls and patterns as they influence and are influenced by human life. (fall, odd years)

GEOG 3110 Modern Geographic Concepts (3 credits)—Concepts current in the field of geography are used as means for understanding in spatial and ecological points of view of the world. (spring)

GEOG 3120 Introduction to Geography of Southern Appalachia (3 credits)—A study of spatial organizations, compositions, interrelations, and interactions which characterize the Southern Appalachian region.

GEOG 3210 Cartography (3 credits)—An application of the principles of map construction, compilation, and the techniques of map drawing and map reading. (fall)

GEOG 3300 Political Geography (3 credits)—A study of the geographic foundations of a state in terms of national power. An evaluation of geopolitical theories and practices, territorial and commercial rivalries, and basic concepts of military strategy. (spring, odd years)

GEOG 4007/5007 Geography of the United States (3 credits)—A regional study of the physical and cultural elements of the United States. (fall, odd years; spring, even years)

GEOG 4017/5017 Advanced Cartography (3 credits)—*Prerequisite(s): GEOG 3210 or permission of instructor.* A second course in the study of the science and art of mapmaking. Emphasis placed upon three components of modern cartography the input, storage, and output of digital spatial data, advanced and contemporary thematic mapping techniques, and computer-assisted map design. Topics are presented during lecture and applied by the students in a laboratory setting. Students also gain experience in developing and implementing their own individualized map projects. (fall)

GEOG 4038 Honors International Study (3 credits)—*Prerequisite(s): Satisfactory completion of all College of Business and Technology Honors courses or college honors committee approval.* This course will consist of a two-week international study and cultural experience in addition to a pre-tour orientation.

GEOG 4077/5077 Seminar in Geography of Southern Appalachia (3 credits)—A seminar in the use of geographic methodology in the study of regional Appalachian issues. (spring, even years)

GEOG/URBS 4107/5107 Urban Geography and Planning (3 credits)—A geographical analysis of cities and urban regions. Urban growth patterns, location and interaction analysis, planning for urban regions, and travel behavior are emphasized. (spring, even years)

GEOG 4117/5117 Resource Management (3 credits)—The study of cultural attitudes, conceptual approaches, and evaluation techniques in resource management. Analysis of selected resource issues at various areal scales. (spring, even years)

GEOG 4217/5217 Geographic Information Systems (3 credits)—The field of GIS is relatively new and expanding and is concerned with techniques and theory of cartographic and spatial data rectification and enhancement and spatial information extraction. (fall)

GEOG 4227/5227 Remote Sensing (3 credits)—A systematic treatment of elements involved in interpreting, measuring, and mapping of images that appear on aerial photographs. (fall)

GEOG 4237/5237 Advanced Remote Sensing (3 credits)—A study of different types of remotely sensed images and their interpretation. (fall, even years)

GEOG 4257/5257 Geography of Soils (3 credits)—An introduction to soil science. Particular attention is focused on soil morphology, soil classification, and the study of distributional patterns of soils and their relationships to other geographical elements. (spring, even years)

GEOG 4267/5267 Hydrology (4 credits)—The study of water as it occurs in all phases of the hydrologic cycle and the analysis of currently developing water problems on the local, regional, and national levels.

GEOG 4307/5307 Regional Geography (3 credits)—Under this cover title, individual courses will be offered in such areas as Europe, Latin America, Asia, Soviet Union, and Africa. Course may be repeated as subject matter changes. (fall, spring)

GEOG 4317/5317 Advanced Geographic Information Systems (3 credits)—A critical examination of the contemporary issues involved with Geographic Information Systems and digital spatial data. One-half of the course content will be dedicated to practical training on the sophisticated vector-based GIS software called Arc/Info. A hands-on understanding of the nature and functionality of this software will be acquired within a workstation computer environment. (spring, even years)

GEOG 4417/5417 The Teaching of Geography and Earth Science (3 credits)—A course in methods and materials for teaching geography in grades 7 - 12, which will include teaching experiences in an area school. This course earns education credit only and does not meet requirements for a major or minor in geography. (fall, spring)

GEOG 4807/5807 Advanced Field Methods in Geography (3 credits)—A study of methods of measuring, recording, and synthesizing field data in geography.

GEOG 4907/5907 Independent Studies (1-3 credits)—*Prerequisite(s):* Permission of department chair is required.

GEOG 4957/5957 Topics in Geoscience (1-6 credits)—*Prerequisite(s):* Dependent on subject matter. Selected topics of current interest in geography. Offered upon sufficient demand for specific subject matter. May be repeated for different topics. Consultation with the instructor is recommended before enrollment.

GEOG 4989-99 Cooperative Education (1-3 credits)

Geology GEOL

GEOL 1040 Physical Geology Lecture (3 credits)—A study of the earth and earth processes including mountains, rivers, ocean basins, glaciers, volcanoes, earthquakes, and plate boundaries with an introduction to rocks and minerals. Three lecture, two laboratory sessions per week. (fall, spring, summer)

GEOL 1041 Physical Geology Laboratory (1 credit)

GEOL 1050 Historical Geology (4 credits)—A survey of the earth's history, physical and biological, as revealed by rock formations and the fossil record. Three lecture, two laboratory sessions per week. (spring, summer)

GEOL 2480 Geology Field Methods (4 credits)—*Prerequisite(s):* GEOL 1040, GEOL 1050, or permission of instructor. An introduction to the methods of measurement, sampling techniques, and data collection used by the field geologist. Topographic and airphoto techniques of mapping, section measurement, and description, and structure description and analysis will be treated. Three lecture, two laboratory sessions per week. (spring)

Honors students will be expected to map an area, mutually agreed on by the instructor and the student, and submit the map and a report on the selected area by the end of the semester.

GEOL 3001 Mineralogy I (4 credits)—*Prerequisite(s):* GEOL 1040 and CHEM 1110 or permission of the instructor. Mineralogy is the study of minerals through their crystal structure and morphology, and their optical properties. Students will learn to identify the major rock forming and accessory minerals, their environments of formation, and their common associations. Three lecture, two laboratory sessions per week. (fall)

Honors students will select and research four different mineral groups through the course of the semester. The student will submit an individual report on each mineral group which includes its chemistry, structure, formation, associations, distribution, economic importance, and uses. One report will be orally presented by the student to class members in the mineralogy course.

GEOL 3120 Economic Geology (4 credits)—*Prerequisite(s):* GEOL 3001 and CHEM 1110. Economic Geology is a study of the origin, nature, distribution, and exploitation of industrial mineral deposits, the major metallic minerals, fossil and mineral fuels, alternate energy sources. Three lecture, two laboratory sessions per week. (spring, even years)

GEOL 3391 Invertebrate Paleontology (4 credits)—Principles of taxonomy, classification, paleoecology, evolution, and geologic records of the major invertebrate phyla are considered. Three credits lecture and two laboratory periods each week. (spring, odd years)

Honors students will be required to choose a project which involves collection, preparation, and/or casting of fossil material which can then be used as part of the Geology teaching collection.

GEOL 3395 Vertebrate Paleontology (4 credits)—*Prerequisite(s):* GEOL 1050, BIOL 1120, or permission of instructor. The goal of this course is to provide a general overview of vertebrate evolution through time and to discuss how it is (and has been) interpreted from the fossil record. In addition, new theories and recent discoveries will be addressed (specifically, their relevance to past and current thinking). Two lectures and two laboratory sessions weekly. (spring, even years)

Honors students will be required to work a minimum of 20 hours at the Gray Fossil Site and submit a report on their work by the end of the semester.

GEOL 3400 Geologic Illustration (2 credits)—Development of skills in the preparation of illustrations for publication and oral presentations. Topics include ink work, layout, proportion, reproduction materials and methods, lettering, and preparation. Course content is also relevant to other fields. One lecture and two laboratory periods each week.

GEOL 3481 Natural Hazards and Society (3 credits)—*Prerequisite(s):* GEOL 1040 or 1050 or CHEM 1110 or 1120 or GEOG 1110 or 1120 or ASTR 1010 or 1020 or consent of instructor. Natural hazards include ground shaking from earthquakes, ash fall from volcanic eruptions, floods, and high winds and storm surge from hurricanes, etc. The cost of these and other hazards in terms of monetary losses and number of fatalities continues to escalate on a world scale. This course examines the characteristics of natural hazards; how to reduce their impacts through mitigation; preparedness, response, and recovery activities; effective warning systems; and the social, psychological, and political factors that influence risk and resilience.

GEOL 4018 Honors Thesis (3 credits)—Open to those in university honors programs only. A required capstone experience serving as the culmination of an honors curriculum. May be taken twice for a total of 6 credit hours.

GEOL 4120 Petrography (4 credits)—*Prerequisite(s):* GEOL 3001 or permission of instructor. Igneous, sedimentary, and metamorphic rocks are examined both in hand specimen and in thin section. The student learns to recognize component minerals and other important characteristics and to apply principles of rock classification and identification. Three lecture, two laboratory sessions per week. (spring)

Honors students will collect and prepare a sequence of rocks, to be mutually agreed on by both the student and the instructor, which can be added to the Geology teaching collection. The project will include collection and description of rock hand samples, preparation of thin-sections, and a written report of both.

GEOL 4307/5307 Field Methods in Paleontology (3 credits)—*Prerequisite:* GEOL 3395 or permission of instructor. The goal of this class is to prepare students for field work on established paleontological sites. The focus of class will be the Gray Fossil Site in Washington County, Tennessee, but additional Pleistocene sites from the region will also be utilized. This class is only taught during Summer Session. Four days in the field and one day in the classroom, weekly. (summer, odd years)

GEOL 4540 Sedimentation-Stratigraphy (4 credits)—*Prerequisite(s):* GEOL 3001 or permission of instructor. The first part of the semester is devoted to the origin, classification, and interpretation of sediments and modern sedimentary environments. The second part is devoted to the recognition of these environments in the geologic record through stratigraphic analysis. The latter includes principles of correlation, stratigraphic paleontology, compilation of stratigraphic maps, and interpretation of the geologic column. Three lecture, two laboratory sessions per week. (fall, even years; spring, odd years)

Honors students will be expected to choose a rock section in the region and measure and describe it in detail. The choice of section must be mutually agreed upon by the student and the instructor. The student will submit a detailed description and stratigraphic column of the section as a final report. The student may also choose to carry out a sedimentary analysis on an exposed rock section, a stream deposit, or soil horizon to be mutually agreed upon by the instructor and the student. Analyses will include petrographic description of sediments and grain size analysis of representative sediment/soil samples all to be presented in an end-of-semester report.

GEOL 4587/5587 Engineering Geology (4 credits)—*Prerequisite(s):* GEOL 1040, MATH 1920 or permission of instructor. Real-world applications of geology in the field of engineering. Topics include soil properties, floods and flood control, dams, stream management and reconstruction, erosion and erosion control, mass movement, municipal waste treatment, septic systems, radioactive waste disposal, tunnels, geologic applications of explosives, permafrost, strip mining and mine reclamation, earthquakes, coastal management. Three lecture, two laboratory sessions per week. (fall, odd years)

Honors students will be expected to choose a topic within the broad scope of Engineering Geology and write a term paper on the issue. The topic must be mutually agreed on by the student and instructor and the term paper will be orally defended in class. The paper should consider the history of the engineering project, how the site/issue was evaluated, what engineering techniques were considered and applied, the results of the engineering effort, and the political and social impacts of the project.

GEOL 4617/5617 Structural and Engineering Geology (4 credits)—*Prerequisite(s):* GEOL 1040, MATH 1920 or permission of instructor. Focus is on the description and analysis of geological structures within the Earth's crust, with an introduction to global tectonics. Includes the description of geological structures, the kinematics and dynamics of folding and faulting, stress, strain, deformation and rheology. Introduction to dislocation theory, principles of plate tectonics, micro-structural analysis, and selected orogenic systems of the world. Three lectures and two laboratory sessions weekly. Three lecture, two laboratory sessions per week. (fall, odd years)

Honors students will be expected to map a structurally complex area, mutually agreed on by the instructor and the student, and submit the map and a report on the selected area by the end of the semester.

GEOL 4989 Cooperative Education (3 credits)—*Prerequisite:* Permission of department chair is required. The Cooperative Education agreement seeks to build partnerships between ETSU, students, and area geoscience industry and service providers. This course will give partial credit toward a capstone thesis, on a project to be mutually agreed upon by Geology faculty and a geoscience industrial group, which will result in the student working for a year on a 6-credit hour project that produces a thesis. The student will enroll in GEOL 4889 for the fall semester of the project.

GEOL 4999 Cooperative Education (3 credits)—*Prerequisite:* Permission of department chair is required. The Cooperative Education agreement seeks to build partnerships between ETSU, students, and area geoscience industry and service providers. This course will give partial credit toward a capstone thesis, on a project to be mutually agreed upon by Geology faculty and a geoscience industrial group, which will result in the student working for a year on a 6-credit-hour project that produces a

thesis. The student will enroll in GEOL 4890 for the spring semester of the project.

GEOL 4900 Senior Thesis (4 credits)—*Prerequisite:* Permission of department chair is required. The Department of Geosciences will require the completion of a senior Honors Thesis (GEOL 4899/4900) as a capstone course. A Geology faculty member, chosen by the student, will direct a year-long, 6-credit-hour, thesis project. Two additional committee members, one from Geology and one from outside the Geology Department, will serve on an advisory committee with the project director and also act as readers of the thesis. The student will enroll in GEOL 4900 for the spring semester of the project. The thesis will be publicly defended.

GEOL 4905 Independent Study (1-4 credits)—*Prerequisite(s):* Permission of department chair is required. This course is designed for students who would like to study an area of geology not covered in the curriculum. Students are expected to work independently, but under the close supervision of an instructor. A paper presenting their findings is required.

German GERM

GERM 1010 Beginning German I (3 credits)—Introduction to the German language, and to the culture, geography, and history of German-speaking countries.

GERM 1020 Beginning German II (3 credits)—*Prerequisite:* A grade of at least a C- in GERM 1010 or with consent of the coordinator for German. Introduction to the German language, and to the culture, geography, and history of German-speaking countries.

GERM 2010 Second-Year German I (3 credits)—*Prerequisite:* A grade of at least a C- in GERM 1020, credit received from CLEP exam, or with consent of the coordinator for German. A continuation of first year, with an introduction to German literature.

GERM 2020 Second-Year German II (3 credits)—*Prerequisite:* A grade of at least a C- in GERM 2010 or with consent of the coordinator for German. A continuation of first year, with an introduction to German literature.

GERM 3011 German Literature I (3 credits)—German literature from its origins to the 17th century.

GERM 3021 German Literature II (3 credits)—German literature from the age of Goethe to the present.

GERM 3111 German Civilization (3 credits)—Geography, history, and culture of Austria, Germany, and Switzerland.

GERM 3121-41 German Conversation and Composition I and II (3 credits)—Practice in conversation, with emphasis on idioms, syntax, and current expressions. Study of grammar through written compositions.

GERM 4018 Honors Thesis (3-6 credits)—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

GERM 4121 Twentieth Century German Literature (3 credits)—Impressionism, Expressionism, Post-War Literature.

GERM 4137/5137 The Age of Goethe (3 credits)—Selected works of the principal authors of the Storm and Stress, Classical, and Romantic periods in German Literature.

GERM 4147/5147 The German Short Narrative (3 credits)—Selected short-prose works of representative authors of the late 19th and the 20th century.

GERM 4157/5157 Austrian Literature (3 credits)—Selected works of principal Austrian writers and their impact on German literature.

GERM 4167/5167 Advanced German Grammar (3 credits)—In-depth review of troublesome aspects of German grammar. Review of grammar in context, as well as practice in composition and translation.

GERM 4901 Special Studies (1-3 credits)—Designed to provide opportunities for study in areas not provided for in the regular course offerings for undergraduates. Students desiring to enroll must obtain permission from the instructor.

GERM 4957/5957 Topics in German (1-6 credits)—This course gives students an opportunity to study special problems and new developments in the field of German.

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

GERM 5901 Special Studies in German (1-6 credits)

Human Development and Learning

HDAL

(See Developmental Studies for below college-level courses)

HDAL 1000 College Adjustment (1 credit)—Designed to assist the new student in adapting to college life. Emphasis is on understanding human development, improving decision-making skills, study skills, and clarifying values. The course will also assist in identifying campus resources, career materials, and university administrative requirements/procedures regarding the academic status system, transcripts, official records, etc. This course cannot be used to satisfy requirements for general education or a major/minor in human development and learning.

HDAL 1010 Career Planning and Life Skills (3 credits)—An introduction to the theory and practice of career planning and decision making with an emphasis on occupational choice, self-assessment, career decision-making, occupational information, and selection of a college major. Students will be expected to apply this knowledge to the development of a personal career plan.

HDAL 1110 Family Development (3 credits)—The study of individual development beginning with infancy and continuing through the formation of the family. Basic concepts, principles, and issues in human and family growth will be stressed. (fall, spring)

HDAL 2000 Intimate Relationships (3 credits)—A study in human relations in dating, courtship, early marriage, alternatives, and variations. Special attention will be given to personal self-development, mate selection, role expectations, contraception and conception, child rearing, and personal, social, and sexual adjustment in premarital, marital, and extramarital experiences. (fall, spring)

HDAL 2008 Honors Service Learning (1 credit)—*Prerequisite(s): Admission to the College of Education's honors program.* Honors service learning in social/cultural agencies and programs related to education.

HDAL 2310 Developmental Psychology (3 credits)—A study of the human learning and development principles applicable to infancy, early child, childhood, adolescence, early adulthood, adulthood and the geriatric phase of life. (fall, spring)

HDAL 2320 Child Psychology (3 credits)—A study of child learning and development with an emphasis on application of behavioral science to parenting and teaching. (fall, spring)

HDAL 2325 Child and Adolescent Development for Educators (3 credits)—The intent of this course is to focus on human development from conception through adolescence with examples and applications primarily focusing on educational settings. It provides a multi-theoretical approach to the aspects of human development that are impacted by human interaction and nurturing, as well as those that are relatively unaffected by environmental input. Key concepts include, but are not limited to, gross and fine motor development, temperament, visual and auditory perception, family characteristics, genetic inheritance, attention, cognitive tempo, play, and language development as they impact academic learning.

HDAL 2330 Adolescent Psychology (3 credits)—A study of adolescent learning and development with emphasis on applications of behavioral science to parenting and teaching. (fall, spring)

HDAL 2335 Adult Development (3 credits)—This course provides students with a knowledge and understanding of adult developmental principles, phases, and issues covering the entire span of adulthood and review of the major frames of reference in the study of adulthood and how these impact the design of effective treatments during adulthood. (spring)

HDAL 2340 Understanding Cultural Diversity (3 credits)—This course is designed for the student to develop competencies that allow her/him to be more effective when relating and/or working with individuals of diverse groups in society. Students will have opportunities to develop awareness of their own cultural values and biases, to study prevalent beliefs and attitudes of different cultures, and to develop skills useful for appropriate interactions with particular groups. (fall, spring)

HDAL 2350 Solving the Puzzle of Life (3 credits)—This course is intended to raise individual self-awareness, in turn promoting enhanced self-esteem and greater life satisfaction. Students will learn about their personal value systems, decision-making styles, cultural/ethnic identity and personality styles. In addition, the course will address health relationship dynamics, behavior change and stress management, positive lifestyle development, and career decision-making. (fall, spring)

HDAL 3110 Child/Family/Community Relations (3 credits)—A study of the parent-child relationship as it evolves from the prenatal period through adolescence. Theoretical approaches describing the parent-child socialization process will be examined with emphasis on the parenting environment and child outcomes. (fall, spring)

HDAL 3310 Educational Psychology (3 credits)—A study of the systematic application of psychological and behavior principles to educational settings. (fall, spring)

HDAL 4007/5007 Applications of Group Process (3 credits)—This course will provide students in various non-counseling disciplines with an experience of group process and practice, tailored to the professional needs of the various disciplines that make use of the course. This course will focus on group leadership skills, cohesion and development, group performance, and handling group conflict. (fall, spring)

HDAL 4010 Managing Child Behavior (3 credits)—*Prerequisite(s): PSYC 1310 and HDAL 2310; or HDAL 2320.* A study of the theory and practice of child behavior management in family, school, and community settings. Procedures for individuals or groups and for well-adjusted or disruptive children will be presented.

HDAL 4011 Developmental Psychology II (3 credits)—*Prerequisite(s): PSYC 1310 and HDAL 2310; or HDAL 2320.* A study of human biological and behavioral development in the context of hereditary, environmental, and evolutionary influences. (fall, spring)

HDAL 4018 Honors Thesis (3 - 6 credits)—Open to those in university honor programs only. A capstone experience serving as the culmination of an honors curriculum.

HDAL 4127/5127 Divorce: Causes and Consequences (3 credits)—Explores the social-psychological impact of divorce on families. The economics, legal, social, emotional, co-parental, and former spouse consequences of divorce will be discussed. The various theoretical models explaining both the movement toward divorce, as well as the divorce transition, will be described. Special attention will be given to the impact of divorce on children. (spring)

HDAL 4137/5137 Youth Violence – Intervention to Prevention (3 credits)—This course is designed to inform and train individuals in a variety of fields that deal with children and youth. The course is a combination of defining the concept of violence in society, evaluating current research in the field, and looking at practical strategies for developing protective factors for youth. Students will view various media representations of violence patterns and solutions, review current literature,

and listen to some brief lecture material. The majority of time will be spent on student interaction with each other and the instructor.

HDAL 4260 Learning in Human Development (3 credits)—In this course students will study how major theories of learning are related to developmental changes throughout the lifespan. The merits of theories will be critically examined. Significant attention will be given to the implications and applications of the valid principles within those learning theories for various settings, including classroom, family, business, and social settings.

HDAL 4330 Family Management Through the Lifespan (3 credits)—*Prerequisite(s): HDAL 1110.* A study of consumer and financial management problems encountered by today’s families. Emphasis placed on consumer rights and responsibilities, legislation, fundamentals of buymanship, factors influencing consumer behavior, budgeting, credit, insurance, savings, taxes, and estate planning. (fall)

HDAL 4460 Leadership Studies (3 credits)—*Prerequisite: Junior Standing.* The study of leadership from a historical and contemporary perspective. Students will identify, apply, and reflect on aspects of leadership development, including concepts of personal change toward effective leadership in a changing environment. Topics cover personal assessment and development, values and ethics, power and influence, followership, group dynamics, controversy with civility, and citizenship. Students will be expected to observe a leadership group in the community 3 - 4 times per month for 12 weeks.

HDAL 4666 Cultural Influences in Development (3 credits)—*Prerequisite(s): PSYC 1310 and HDAL 2310; or HDAL 2320.* An intensive study of familial, societal, economic, and religious influences on psychological development. The emergence of the individual person across a broad spectrum of national, ethnic, linguistic, and religious subcultures is examined. (spring)

HDAL 4817 Introduction to Psychological Testing (3 credits)—*Prerequisite(s): A course in statistics.* A history and overview of the standardized evaluation methods commonly used in the assessment of individuals and groups. Topics covered are validity, reliability, and statistical concepts for the evaluation and interpretation of test data. The student is given an overview of ability tests, interest tests, and personality tests.

HDAL 4900 Independent Study (1-3 credits)

HDAL 4950 Research in Learning and Development (3 credits)—*Prerequisite(s): PSYC 1310 and MATH 1530; or PSYC 3100.* The study and application of research methods appropriate to the behavioral sciences for consumers of developmental research. Observation, research design, and data analysis appropriate to the applied setting is emphasized. (fall, spring)

HDAL 4957/5957 Special Topics in Human Development and Learning (1-6 credits) (initial class-fall, advanced class-spring)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

HDAL 5010	The Principles and the Administration of Counseling Services	(3 credits)
HDAL 5100	Human Relations and Group Processes	(3 credits)
HDAL 5110	Social and Cultural Foundations of Counseling	(3 credits)
HDAL 5150	Career Development	(3 credits)
HDAL 5200	Advanced Educational Psychology	(3 credits)
HDAL 5210	Advanced Child Development	(3 credits)
HDAL 5220	Advanced Adolescent Psychology	(3 credits)
HDAL 5230	Advanced Developmental Psychology	(3 credits)
HDAL 5260	Principles of Teaching and Learning	(3 credits)
HDAL 5400	Consultation Theories and Techniques	(3 credits)
HDAL 5420	Family Therapy I	(3 credits)
HDAL 5422	Counseling with Couples	(3 credits)
HDAL 5430	Legal and Ethical Issues in Counseling	(3 credits)
HDAL 5549	Substance Abuse: Counseling Individuals and Families ..	(3 credits)
HDAL 5550	Counseling Theories I	(3 credits)
HDAL 5561	Counseling Techniques with Children	(3 credits)
HDAL 5562	Counseling II	(3 credits)
HDAL 5570	Supervised Counseling Practicum	(3 credits)

HDAL 5800	Seminar Practicum School Psychology	(3 credits)
HDAL 5820	Psychological Assessment of Personality in Counseling ..	(3 credits)
HDAL 5830	Individual Mental Testing	(4 credits)
HDAL 5861	Applied Behavior Analysis	(3 credits)
HDAL 5880	Internship	(1-6 credits)
HDAL 5900	Independent Study	(1-6 credits)
HDAL 5960	Thesis	(1-3 credits)
HDAL 5990	Readings and Research	(1-3 credits)

Early Childhood Education

ECED 5210	Advanced Child Development	(3 credits)
ECED 5330	History and Philosophy of Early Childhood Education ...	(3 credits)
ECED 5331	Infancy	(3 credits)
ECED 5332	Designing An Early Childhood Environment	(3 credits)
ECED 5333	Learning Processes in Infants and Young Children	(3 credits)
ECED 5334	Social Development of Young Children	(3 credits)
ECED 5335	Assessing and Evaluating Young Children	(3 credits)
ECED 5344	Family/Community Relationships	(3 credits)
ECED 5345	Research in Early Childhood Education	(3 credits)
ECED 5352	Theories of Play	(3 credits)
ECED 5356	Language/Lit. Development in Early Childhood	(3 credits)
HDAL 5440	Treating Trauma/Abuse in the Family	(3 credits)

**History
HIST**

HIST 1110 World History and Civilization to 1500 (3 credits)—A general survey of the cultural, religious, political, and social development of major world civilizations from their beginnings to c. 1500.

HIST 1120 World History and Civilizations Since 1500 (3 credits)—A general survey of the cultural, religious, political, and social development of major world civilizations from 1500 to the present.

HIST 2010 The United States to 1877 (3 credits)—A survey of the settlement and development of the colonies, the revolutionary period, the making of the Constitution, the diplomatic, economic, and political problems of the new government, the nature of economic sectionalism, Jacksonian democracy, territorial expansion, the Civil War, and Reconstruction.

HIST 2018 Honors United States to 1877 (3 credits)—*Prerequisite(s): Permission of the department.* Honors course for exceptional students who wish to study in a small seminar-type class.

HIST 2020 The United States Since 1877 (3 credits)—Growth of the United States as an industrial and world power since Reconstruction.

HIST 2028 Honors United States Since 1877 (3 credits)—*Prerequisite(s): Permission of the department.* Honors course for exceptional students who wish to study in a small seminar-type class.

HIST 2030 History of Tennessee (3 credits)—An intensive study of selected periods and topics in Tennessee history.

HIST 3020 American, Ethnic, and Cultural History (3 credits)—A study of selected minority and ethnic groups in the United States with attention to geographical origin, migration patterns, and their impact on and adaptation to American culture.

HIST 3067 The American Civil War Era (3 credits)—A general survey of the American Civil War Era designed both for history and non-history majors. It deals with some of the major questions in American history from 1848 through 1877, such as why did the Civil War occur, why did the North win, how did the war impact the home fronts, was Reconstruction revolutionary, and what is the meaning of the Civil War in modern America.

HIST 3310 Ancient History (3 credits)—A survey of the origins of ancient urban civilization, including the river valley civilizations of Egypt and Mesopotamia, Israel, and Greece, with emphasis on the development of cultural, religious, political, and social institutions.

HIST 3320 Medieval History (3 credits)—Introduction to the study of medieval history from the decline of ancient civilization to the beginning of the Renaissance Emphasis on institutional and cultural development.

HIST 3330 Main Currents of Early Modern Europe (3 credits)—A study of major forces and events that shaped Europe from the mid-sixteenth century to the French Revolution, the Reformation, and wars of religion, absolutism and constitutionalism, the Scientific Revolution and the Enlightenment, and aspects of popular culture (the witchcraft craze, marriage and family life, religion).

HIST 3340 Modern Europe (3 credits)—A study of the 19th century origins of modern Europe, the development of the European industrial economy and society, diplomatic developments, and the nature of the balance of power system, Europe and the two World Wars, and the development of post-World War II Europe.

HIST 3410 Introduction to Historical Methods (3 credits)—An introductory survey of historical methods and thinking, including consideration of the philosophy of history, historiography, historical research, historical sources, and the writing of history.

HIST 3710 A Survey of the Middle East (3 credits)—A survey of the land, people, and problems of the Middle East from ancient times to the modern period.

HIST 3720 History of Africa (3 credits)—An introduction to the history of the entire African continent from earliest times to the present. Primary emphasis is placed on the achievements of Africans rather than those of foreigners in Africa.

HIST 3730 Conquest to Independence in Latin America (3 credits)—A study of the colonial period and independence movements with emphasis upon colonial and early national institutions that are of significance for understanding the peculiar mix of reaction and revolution visible in contemporary Latin America.

HIST 3740 History of Asia (3 credits)—A survey of Asian history from earliest times which stresses the formation and development of the long-lived political cultures of China and Japan, including their strategies for protecting their national sovereignty.

HIST 3900 African-American History to 1877 (3 credits)—African-American History to 1877 is a survey course which explores the political, economic, social, and cultural experiences of African-Americans, from their African roots through the Reconstruction period in America. The course will emphasize the struggle for equality along with the collective and individual contributions of African-Americans to United States and world culture.

HIST 3901 African-American History Since 1877 (3 credits)—African American History Since 1877 is a survey course which explores the political, economic, social and cultural experiences of African Americans, from United States Reconstruction to the present. The course emphasizes the Civil Rights movement, along with the struggles and achievements of African Americans.

HIST 3910 History of Christianity (3 credits)—A survey of the history of the Christian movement, from the early Church to the diverse expressions of Christianity in the modern world.

HIST 3920 History of Islam (3 credits)—A survey of pre-Islamic Arabia, the Prophet and his career, the Qur'an, doctrine and ritual, law, Sufism, sects in Islam, the Caliphate, and Islam in the modern world.

HIST 3940 War in the Modern World (3 credits)—A study of war since the 18th century, including how armies reflect the values of a society, changes in warfare in the modern era, the American way of war strategy, tactics, generalship, weapons, and the impact of war on society.

HIST 3989-99 Cooperative Education (1-3 credits)

HIST 4017/5017 Beginnings of America (3 credits)—A history of the establishment of European settlements in America and the development of colonies in the 16th and 17th centuries.

HIST 4018 Honors Thesis (3-6 credits)—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

HIST 4037/5037 The American Revolution (3 credits)—A study of the origins and development of revolutionary sentiment in 18th century America.

HIST 4047/5047 The Early Republic (3 credits)—A study of the Federalist Period, the Jeffersonian Revolution and the War of 1812.

HIST 4057/5057 The Age of Jackson (3 credits)—A study of the era of good feelings, the age of Jackson, sectionalism, and territorial expansion to the eve of the Civil War.

HIST 4067/5067 The Civil War Era (3 credits)—An advanced course in the history of the Civil War Era, with emphasis upon secession, economic and military mobilization, battles and campaigns and the cultural, diplomatic, and political developments in the period from 1840 to 1877.

HIST 4097/5097 The Emergence of United States, 1865-1933 (3 credits)—A study of the rise of big business, big labor, big government, and the agrarians in the late 19th century, the Progressive Movement, World War I, League of Nations, and the Depression.

HIST 4107/5107 Recent United States 1933-Present (3 credits)—A study of the New Deal, World War II, the significant changes in American society since the war, and the exercise of great power status in international affairs.

HIST 4127/5127 Social and Intellectual History of United States to 1877 (3 credits)—A study of selected and representative social, cultural, and intellectual themes in American history from the colonial period to the end of Reconstruction

HIST 4137/5137 Social and Intellectual History of United States Since 1877 (3 credits)—A study of selected and representative social, cultural, and intellectual themes in American history from the end of Reconstruction to the present.

HIST 4147/5147 The Old South, 1607-1860 (3 credits)—An advanced course in the history of the South from colonial times to the Civil War, with emphasis upon economic, social, and political developments, including the slavery controversy.

HIST 4157/5157 The South Since 1865 (3 credits)—A study of the recent South with special attention to its politics, economy, society, culture, and relationship to national history.

HIST 4167/5167 History of Southern Appalachians (3 credits)—A study of the political, economic, social, and cultural developments in southern Appalachia from settlement to the 20th century.

HIST 4177/5177 The West in the Life of the Nation (3 credits)—A study of westward expansion and the impact of the frontier on American institutions from the Old Southwest and Northwestern frontiers to the Pacific Coast.

HIST 4207/5207 Ancient Religions (3 credits)—A study of the origins, development, and function of religion in the ancient world of the Middle East, the Indian subcontinent, Greece and Rome. The course will cover the religions of ancient Egypt, Mesopotamia, Palestine, Greece and Rome, as well as Gnosticism, Jainism, and Zoroastrianism.

HIST 4217/5217 History of Ancient Greece (3 credits)—A study of ancient Greece from its origins in the Bronze Age through the Hellenistic Age, with special emphasis on the political, philosophical, and intellectual ideas which form the basis of Western civilization.

HIST 4227/5227 History of Rome (3 credits)—A survey of ancient Rome from its origins to the 4th century A.D., including the Regal period, the struggle of the Orders, the growth of the republic, Roman institutions, the Roman conquest of Italy, the Fall of the Republic, and the growth of autocracy, adjustments in the Empire, the early Christian church, and the culture of Rome and of its subject peoples.

HIST 4230 Renaissance and Reformation Europe (3 credits)—A survey of Europe during its transition from medieval to early modern times, with emphasis on the roots of the Renaissance culture of the

fifteenth and the religious upheaval of the sixteenth centuries and their impact on institutions and behavior, including the role of women, family life, popular culture, witchcraft/the occult, and the rise of modern science.

HIST 4237/5237 Women in the Ancient World (3 credits)—A study of the history and circumstances of women in antiquity, including the cultures of Egypt, Mesopotamia, Greece, and Rome.

HIST/WMST 4247/5247 History of Women in U. S., Settlement to 1945 (3 credits)—An investigation of the social, economic, and political roles of women in the life of the nation, from European contact with Native Americans to the end of World War II.

HIST 4327/5327 Expansion of Europe Overseas, Since 1492 (3 credits)—*Prerequisite(s): HIST 1120.* A study of European expansion and its impact on the modern world.

HIST 4377/5377 European Intellectual History II (3 credits)—A study of the history of European thought from the French Revolution to the present day.

HIST 4387/5387 History of the Holocaust (3 credits)—A study of the background and origins of the Holocaust, including the legacy of anti-Semitism in Christian Europe and the emergence of racial anti-Semitism, the impact of World War I, Hitler's ideology, the racial ideas of the Nazi state. Emphasis will also be put on the decision for and implementation of the Final Solution, with emphasis on the perpetrators, victims, and bystanders, as well as how the initially limited Nazi killings expanded into the Holocaust as we know it. Finally, the meaning and possible uniqueness of the Holocaust will be explored.

HIST 4417/5417 Methods of Teaching History (3 credits)—Content and methods for teaching history and social studies with emphasis in secondary education. This course earns education credit only and does not meet requirements for a major or minor in history or the MAT degree.

HIST 4507/5507 England to 1714 (3 credits)—A survey of English history from the Roman period to the 18th century. The course will examine the main themes of England's heritage—Christianity, medieval monarchy, common law, the Tudors—with considerable attention given to how men and women lived, worked, prayed, studied, and enjoyed life.

HIST 4517/5517 England, 1714-Present (3 credits)—A study of British history from 1688 to the present with primary attention directed to the political, economic, and social changes that led the nation from an agrarian and aristocratic kingdom to an industrial and democratic state in the 20th century.

HIST 4607/5607 History of Russia to 1917 (3 credits)—A study of politics, society, and culture in Russia from Kievan Rus to the end of Tsarism, with emphasis on the latter period.

HIST 4617/5617 History of Russia Since 1917 (3 credits)—A study of Russia, with emphasis on politics, ideology, culture, and economic development from the collapse of tsarism and the Russian Revolution through the Soviet period and the post-Soviet period, including its successor states.

HIST 4627/5627 Modern Germany (3 credits)—A study of the causes and consequences of German unification, the Bismarkian period, the Wilhelminian Age, Weltpolitik and World War I, the Weimar Republic, Hitler and the Nazi Era, and World War II and its aftermath. Emphasis will be placed on political, economic, social, and diplomatic developments.

HIST 4707/5707 East Asia Since 1900 (3 credits)—The transformation of China and Japan from regional to international economic powers.

HIST 4717/5717 Modern Middle East, 1800 - Present (3 credits)—A study of the Middle East from Napoleon through Khomeini, with emphasis on modernization trends and Islamic responses.

HIST 4727/5727 Modern Africa (3 credits)—An advanced, in-depth examination of African social, economic, political, cultural, and

intellectual history since about 1880, with special emphasis on the reestablishment of African independence. The principal focus of the class may vary.

HIST 4730 Latin America: Revolution and Nationalism (3 credits)—A study of the national development of several Latin American countries (Mexico, Argentina, Chile, Cuba, and Brazil) to show some of the dramatic differences, as well as some of the common features of Latin American social, economic, and political structures today.

HIST/PSCI 4740 Seminar in China Studies (3 credits)—The seminar is necessary to allow the student to create a project that will integrate the student's work in the courses of the Minor in China Studies, including the language and study abroad option with its in-country research opportunity. The seminar is multidisciplinary, using the methodologies of History and Political Science.

HIST 4827/5827 America in the 1960s (3 credits)—The domestic history of the United States during the 1960s, with emphasis on the era's social and cultural forces Civil Rights—Martin Luther King, Jr, Malcolm X, the Black Power Movement; Social Policy—John F. Kennedy's "New Frontier", Lyndon B. Johnson's "Great Society." The impact of Vietnam and 1968 on the home front, antiwar protests, the counterculture, student rights, modern feminism, environmentalism, and the popular music and literature of the decade.

HIST 4837/5837 American Women Since World War II (3 credits)—An examination of the social, political, economic, commercial, legal, sexual, and racial issues faced by American women since the end of World War II. Topics will include the domestic containment of the 1950s, Betty Friedan's 1963 groundbreaking study, *The Feminine Mystique*, birth control, *Roe v Wade*, the origins of protest movements, women's liberation, defeat of the Equal Rights Amendment, and the rise of radical and conservative feminism.

HIST 4847/5847 20th Century American Sports (3 credits)—An interdisciplinary study of sport in its historical context: the formation and evolution of various sports, including their economic, political, legal, gender, racial, and sexual aspects, as well as their treatment in popular literature and films.

HIST 4900 Independent Study (1-3 credits)—The Independent Study option is designed for students who would like to pursue study in areas of history not covered in the department's curriculum. Students are expected to work independently, but under the supervision of a faculty member. Students desiring to use this option must prepare for appropriate signatures, a written application with the faculty which describes course objectives, research methods (including reading list), requirements for presentation of findings of such independent study, anticipated date for completion of all requirements, and method of faculty's evaluation of the independent study project.

HIST 4910 Survey of the Modern World (3 credits)—A recapitulation and synthesis of the main themes of modern history designed to enable majors and minors to acquire a reasonable overview of the past.

HIST 4927/5927 World War II in Europe (3 credits)—A study of the background, origins, progress, and consequences of World War II in Europe. Emphasis will be placed not only on political, diplomatic, and military aspects of the war, but also on its broader social, economic, technological, and ideological ramifications.

HIST 4937/5937 World War II in the Pacific (3 credits)—A study of the origins, course and consequences of World War II in the Pacific. Emphasis will be placed not only on the political, diplomatic, and military aspects of the war but also on the racial, technological, and ideological ramifications. The course will begin with the outbreak of the Sino-Japanese War in 1937 and end with the beginning of the Cold War and the rebuilding of Japan.

HIST 4957/5957 Topics in History (1-6 credits)—A series of special interest subjects will be offered under this title on the basis of student interest and faculty capability. The course may be repeated.

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

HIST 5010	Studies in United States History	(3 credits)
HIST 5020	Studies in European History	(3 credits)
HIST 5030	Studies in World History	(3 credits)
HIST 5900	Independent Studies	(1-3 credits)
HIST 5940	Studies in Historiography	(3 credits)
HIST 5950	Introduction to Historical Research	(3 credits)
HIST 5960	Thesis	(1-3 credits)
HIST 5990	Reading and Research	(1-3 credits)
HIST 5989-99	Cooperative Education	(1-3 credits)

Health Sciences

HSCI

HSCI 2010 Anatomy and Physiology I (4 credits)— **Corequisite:** **HSCI 2011.** An introductory course in the structure and function of the human integumentary, nervous, endocrine, skeletal, and muscular systems. Three hours lecture. (Student must also register for HSCI 2011 and receive a common grade.)

HSCI 2011 Anatomy and Physiology Laboratory I (0 credit)— **Corequisite(s):** *HSCI 2010. Laboratory designed to coordinate with Anatomy and Physiology I (HSCI 2010).* Consists of the study of the systems listed in HSCI 2010, using charts, models, slides, and appropriate laboratory exercises. One two-hour lab per week. (Student must also register for HSCI 2010 and receive a common grade.)

HSCI 2020 Anatomy and Physiology II (4 credits)—**Prerequisite:** *successful completion of HSCI 2010; corequisite: HSCI 2021.* A continuation of HSCI 2010. Includes a study of the structure and function of the human respiratory, digestive, reproductive, urinary, and cardiovascular systems. Three hours lecture. (Student must also register for HSCI 2021 and receive common grade.)

HSCI 2021 Anatomy and Physiology Laboratory II (0 credit)— **Corequisite(s):** *HSCI 2020.* A continuation of HSCI 2011. Laboratory will cover those systems listed under HSCI 2020. One two-hour lab per week.

HSCI 2230 Introduction to Microbiology (4 credits)— **Corequisite(s):** *HSCI 2231.* A survey of the principles and techniques of microbiology, parasitology, virology, immunology, and laboratory procedures, with special application to disease prevention and health maintenance. HSCI 2230/31 receives common grade.

HSCI 2231 Introduction to Microbiology Laboratory (0 credit)— **Corequisite(s):** *HSCI 2230.* Laboratory designed to coordinate with Introduction to Microbiology HSCI 2230. Two one-hour laboratories per week. HSCI 2230/31 receives common grade.

HSCI 2500 HIV/AIDS: Biology and Beyond (3 credits)—A study of the social, political, and biological dimensions of HIV/AIDS. The evolution of the HIV/AIDS pandemic and its impact on society and the most current scientific knowledge regarding the biology of HIV, antiviral drugs, and vaccines will be discussed.

HSCI 3000 Human Anatomy (4 credits)—**Prerequisite(s):** *General biology recommended.* A systematic study of the human body with an emphasis on functional gross anatomy is presented to facilitate an understanding of body structure and function. Laboratory provides a learning experience through the use of anatomical specimens, models, and charts. Three hours lecture and lab per week.

HSCI 3006 Microbes and Human Disease (3 credits)— **Prerequisites:** *BIOL 1110/11, BIOL 1120/21, CHEM 1110/11, CHEM 1120/21, MATH 1530 or MATH 1910.* A fundamental understanding of the biology of microbes and how they cause disease in humans emphasizing the structure, growth, virulence properties, and diseases caused by medically important microbes.

HSCI 3020 Human Physiology (4 credits)—**Recommended Prerequisite(s):** *HSCI 3000.* A study of the homeostatic mechanisms in man as they pertain to normal physiology and mechanisms of disease. The teaching laboratory provides the students an opportunity to learn by measuring many of the vital physiological processes. Three hours lecture and lab per week.

HSCI 3030/31 Introductory Biochemistry (4 credits)—**Prerequisite:** *CHEM 1110/11 and CHEM 1120/21.* An introduction to general biochemistry of eukaryotic and prokaryotic cells. Includes study of the cell chemistry, mechanisms of energy production, enzymes, basics of macromolecular structures and transcription and translation of genetic information. Laboratory includes techniques involved in studying the biochemistry of cells. Three hours lecture and three hours laboratory per week.

HSCI 3046 Human Genetics (3 credits) — **Prerequisites:** *one year of college biological sciences, one year of inorganic chemistry, and MATH 1530 or 1910.* This course explores the foundations and frontiers of modern human genetics, with an emphasis on understanding the latest discoveries in this rapidly advancing field of research.

HSCI 3320 General Microbiology (4 credits)—**Recommended Prerequisite(s):** *One year college biological sciences and one year inorganic chemistry; Corequisite(s): HSCI 3321.* A comprehensive basic course emphasizing biological properties and natural activities. For students desiring or needing a broad background and understanding or with special interest in microbiology.

HSCI 3321 General Microbiology Laboratory (0 credit)— **Prerequisite(s):** *advanced courses; Corequisite(s): HSCI 3320.* (Laboratory to coordinate with HSCI 3320.) Emphasizes the distribution, isolation, cultivation, morphology, and identification of microorganisms, as well as physical and nutritional means of control. Fundamental principles and techniques. Two 2-hour labs per week.

HSCI 3510 Pathogenic Microbiology (4 credits)—**Prerequisite(s):** *HSCI 3320.* A lecture and lab course presenting the key concepts and mechanisms of the infectious disease process and its prevention and control with an emphasis on bacterial pathogens and how they cause disease. In addition, the laboratory component is designed to introduce the student to the basic techniques for the isolation and identification of pathogenic bacteria.

HSCI 3540 Immunology (3 credits)—A lecture presenting current concepts of the basic mechanisms of immunity and selected laboratory techniques to study the development of the immune response.

HSCI 4018 Honors Thesis (3 - 6 credits)—Open to those in university honor programs only. A capstone experience serving as the culmination of an honors curriculum.

HSCI 4067/5067 Neurology (4 credits)—**Prerequisite(s):** *Human or vertebrate anatomy and physiology.* A basic study of human neuroanatomy and neurophysiology. This course explores the motor and sensory pathways, as well as the integration systems of the central nervous system. Laboratory work utilizes preserved human specimens, models, slides and charts. Two hours lecture and (2) two-hour labs per week.

HSCI 4480 Clinical Parasitology (4 credits)—**Prerequisite(s):** *One year of biological science or equivalent.* Lecture and discussion of parasites of public health importance Life cycles, pathology, and diagnostic stages are emphasized Standard procedures of specimen collection, staining, concentration, and parasite identification are studied in the laboratory Two hours lecture and (2) two-hour labs per week.

HSCI 4590 Independent Studies (1-4 credits)—**Prerequisite(s):** *Upper-division status and permission of instructor and department chair.* Independent research under the supervision of staff members. A plan of the research must be approved in advance of registration. May be retaken to a total of four (4) credits.

HSCI 4607/5607 Bacterial Physiology (4 credits)—*Prerequisite(s): HSCI 3320 and Organic Chemistry required.* Completion of a biochemistry recommended. A consideration of the biochemical nature of the growth of microorganisms. Includes studies of bacterial cytology, enzymes, nutritional requirements, metabolic pathways, and genetic regulation. Laboratory includes studies of selected aspects of metabolism during bacterial growth and the use of bacterial vectors for cloning DNA. Two hours lecture and three hours laboratory per week.

HSCI 4730 Molecular and Microbial Genetics (3 credits)—*Prerequisite(s): HSCI 3320.* An introduction to microbial genetics, focusing on the genetics and molecular biology of bacteria and bacteriophages. The course will include basic techniques of microbial genetics and gene manipulation with emphasis on the application of molecular genetics in basic and applied research.

HSCI 4747/5747 Mycology (4 credits)—*Prerequisite(s): HSCI 3320 and Organic Chemistry.* A survey of the fungi with emphasis on form, structure, genetics, growth and nutrition, classification, ecology, and economic importance. The fundamentals of general mycology and the procedures used for the isolation and identification of fungi including yeasts, mold, and actinomycetes are investigated in the laboratory. Two hours lecture and (2) two-hour labs per week.

HSCI 4770 Virology (4 credits)—*Prerequisite(s): HSCI 3320 or equivalent.* An introduction to the pathogenesis and molecular biology of viruses including methods of isolation, cultivation, and characterization. Two hours lecture and (2) two-hour labs per week.

HSCI 4957/5957 Special Topics in Health Sciences (1-6 credits)—*Prerequisite(s): Dependent on subject matter.* Selected topics in health sciences Offered upon sufficient demand for specific subject matter. May be repeated for different topics. Consultation with the instructor is recommended before enrollment.

HSCI 4989-99 Cooperative Education (1-3 credits)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

HSCI 5100	Pathogenic Microbiology	(2 credits)
HSCI 5101	Pathogenic Microbiology Laboratory	(2 credits)
HSCI 5110	Immunology	(2 credits)
HSCI 5111	Immunology Laboratory	(2 credits)
HSCI 5160	Advanced Virology	(3 credits)
HSCI 5900	Independent Studies	(1-4 credits)
HSCI 5960	Thesis	(1-3 credits)
HSCI 5989	Cooperative Education	(1-3 credits)
HSCI 5990	Readings and Research	(1-3 credits)

Humanities

HUMT

HUMT 1218 Honors Quest for Meaning and Values I (3 credits)
— Open to those in the Honors Scholars Program only. A rigorous course in the humanities that aims at deepening skills of critical reading and writing and at cultivating a broad cultural literacy. (fall)

HUMT 2310 Arts and Ideas I (3 credits)—An examination of the arts and ideas of ancient and medieval cultures. (fall, spring, summer)

HUMT 2320 Arts and Ideas II (3 credits)—An examination of the arts and ideas of modern cultures. HUMT 2310 is not a prerequisite for this course. (spring)

HUMT 4930 Independent Studies in Humanities (3 credits)
(fall, spring)

HUMT 4950 Senior Seminar (3 credits) (spring, even years)

Interior Design

(INTD)

INTD 1105 Interior Design Fundamentals (3 credits)—An introduction and overview to the interior design profession including

history, building systems, design fundamentals, design process, space planning, and interior finishes and materials.

INTD 1115 Architectural Drafting: Studio I (4 credits)—An introduction to hand drafting and to lettering standards including terminology, symbols, orthographic drawings, and schedules within a construction document.

INTD 1205 Sustainable Design (3 credits)—*Prerequisite(s): INTD 1105 and INTD 1115.* A global perspective in the study of sustainable building theory, principles, and design practices and its application to interior design.

INTD 1215 Visual Communication: Studio II (4 credits)—*Prerequisite(s): INTD 1105, 1115, DIGM 1100.* An introduction to three-dimensional sketching techniques that promote creative, visual, and volumetric thinking. Rapid visualization, illustrative sketching, rendering, perspectives, and paraline drawings are emphasized. Studio experience included.

INTD 2105 Historical Interiors I (3 credits)—A historical survey of interiors from antiquity through the 19th century; Emphasizing the influence on today's interiors and architecture. (fall)

INTD 2110 Design for Human Behavior (3 credits)—*Prerequisite(s): INTD 1205 and 1215.* Exploration of the relationships between the designed environment and the behavior, feelings, and values of occupants. Introduction to proxemics, territoriality, way finding, and other environment/behavior theories.

INTD 2115 Interior Design Presentation: Studio III (4 credits)—*Prerequisite(s): INTD 1215.* Introduction and application of oral and graphic presentations of interior design solutions communicated through the use of sample boards, collages, mock-ups, digital and hand presentations, portfolios, and/or 3D models.

INTD 2205 Historical Interiors II (1-3 credits)—*Prerequisite(s): INTD 2105.* A historical survey of interiors from 19th century through present day emphasizing the influence on today's interiors and architecture.

INTD 2210 Materials and Finishes (3 credits)—*Prerequisite(s): ENTC 2410 and INTD 2115.* Study of fibers, textiles and other finish materials and components of interior spaces such as paints, carpet, flooring, and wall treatments with application to residential and commercial interiors. Appropriate selection, installation, specification, and cost estimating are emphasized.

INTD 2215 Residential Design: Studio IV (4 credits)—*Prerequisite(s): INTD 2110, 2115, and ENTC 2410.* Design studio experience in residential interiors. Emphasis on problem solving within the design process, building codes, universal and barrier-free design, and sustainable design.

INTD 3105 Interior Building Systems & Components (3 credits)—*Prerequisite(s): INTD 2210 and 2215.* The study of interior building systems and components and their impact on the development of interior spaces. Emphasis on identifying, interpreting, drawing, and specifying interior building systems and components in contract documents that complete the building interior.

INTD 3115 AutoCAD for Interior Design: Studio V (4 credits)—*Prerequisite(s): INTD 2215.* Computer aided 2D and 3D architectural drafting and rendering through the use of AutoCAD and 3rd party rendering software.

INTD 3205 Lighting (3 credits)—*Prerequisite(s): INTD 3105, 3115.* An examination of the technical and decorative aspects of lighting, including principles, terminology, design requirements, and equipment utilized in interior environments. Students explore human visual perception, methods of light generation, fixtures and control, selection and specification, energy issues, and visual communication of lighting designs.

INTD 3215 Commercial Design: Studio VI (4 credits)—*Prerequisite(s): INTD 3105 and INTD 3115.* The study and application of the design process, codes, standards, and federal regulations pertaining to the interior of commercial buildings.

INTD 4105 Professional Practices in Interior Design (3 credits)—*Prerequisite(s): INTD 3215.* A study of the professional business practices of interior design: contracts, ethics, responsibilities, liabilities, etc. Emphasis includes development of professional portfolio, resume, and multiple marketing tools to support career strategies.

INTD 4115 Mixed-use Design: Studio VII (4 credits)—*Prerequisite: INTD 3215.* Application of the design process based on social research to plan mixed-use environments for children, the elderly, physically challenged, or other special populations.

INTD 4205 Interior Design Internship (3-9 credits)—*Prerequisite(s): INTD 3215 and permission of the instructor.* Supervised, multi-faceted experience in which creative and technical skills are applied within a project based environment.

INTD 4215 Senior Design Studio: Studio VIII (4 credits)—*Prerequisite(s):* Specialized and in-depth senior studio concluding in a comprehensive, culminating project that applies knowledge and skills needed for entry into the interior design profession.

INTD 4957/5957 Special Topics in Family and Consumer Sciences 1-6 credits—Selected subjects in student's area of interest in areas not included elsewhere in course offerings. May be repeated for credit when content varies. (as needed)

International Studies INTL

INTL 2000 Introduction to International Studies (2 credits)—An academic introduction to systematic study of the world as an economic, physical, political, and social unit. Students will consider a variety of approaches to such a study and will plan a course of study, which will lead to a senior seminar paper.

INTL 4000 International Studies Senior Seminar (1 credit)—Students and their project advisors will meet one hour a week. Students will consider methodological questions in writing papers in International Studies. Successful completion of this course requires the formal presentation of a senior seminar paper.

Japanese JAPN

JAPN 1010 Beginning Japanese I (3 credits)—Introduction to the Japanese language, both spoken and written, and to the culture and customs.

JAPN 1020 Beginning Japanese II (3 credits)—*Prerequisite: A grade of at least C- in JAPN 1010 or with consent of the coordinator for Japanese.* Introduction to the Japanese language, both spoken and written, and to the culture and customs.

JAPN 2010 Second-Year Japanese I (3 credits)—*Prerequisite: A grade of at least C- in JAPN 1020 or with consent of the coordinator for Japanese.* A continuation of the first year.

JAPN 2020 Second-Year Japanese II (3 credits)—*Prerequisite: A grade of at least a C- in JAPN 2010 or with the consent of the coordinator for Japanese.* A continuation of the first year.

JAPN 3015-25 Japanese Conversation and Composition (3 credits)—Practice in conversation, with emphasis on idioms, syntax, and current expressions. Study of grammar through written compositions.

JAPN 4015-25 Advanced Japanese (3 credits)—Emphasis on all four skills speaking, listening, writing, and reading. Study of syntax and idiomatic expressions through reading materials.

JAPN 4975 Topics in Japanese (3 credits)—This course gives students an opportunity to study special topics in the field of Japanese.

Journalism JOUR

JOUR 2050 History and Issues of Journalism (3 credits)—Examination of the evolution of ethical and historical issues that have shaped the field of journalism.

JOUR 2120 Writing for Print Media I (3 credits)—*Prerequisite(s): Completion of ENGL 1010, ENGL 1020, and ability to type.* Instruction and practice in fundamentals of journalistic writing, with main emphasis on format and style of news stories.

JOUR 2130 Writing for Print Media II (3 credits)—*Prerequisite(s): JOUR 3150.* Instruction and extensive laboratory practice in newspaper reporting. Focus is on gathering information, interviewing, and writing news and feature stories. Campus beats are covered, and most stories are considered for publication in the university's student newspaper. Because of lengthy lab sessions, students may need to consult with the instructor to work out schedules before enrolling.

JOUR 3120 Opinion Writing (3 credits)—*Prerequisite(s): A grade of "C" or better in JOUR 2130.* Besides editorials and interpretive writing about public affairs and current events, the course explores types of opinion writing such as news analysis, personal columns and critical reviews.

JOUR 3130 In-Depth Reporting (3 credits)—*Prerequisite(s): A grade of "C" or better in JOUR 2130.* State-of-the-art, hands-on course that addresses how to produce in-depth and investigative stories from story conception to library research, to interviewing local, state, and national experts, and finally putting the story or series of stories in a cogent package. Use of computer-based reporting operations emphasized.

JOUR 3150 Copy Editing (3 credits)—*Prerequisite(s): A grade of "C" or better in JOUR 2120.* Instruction and practice in editing copy for print media and in headline writing.

JOUR 3160 Newspaper Design (3 credits)—*Prerequisite(s): JOUR 3150 or permission of instructor.* Lecture-laboratory instruction in preparation of camera-ready pages with computers to achieve pagination. Principles and methods of organizing and integrating information for the reader.

JOUR 3301 Photojournalism (3 credits)—Basic visual and technical aspects of photojournalism along with exercises in general news events, sports, features, and other newspaper and magazine subjects Includes digital camera and photoshop techniques.

JOUR 3350 Advanced Photojournalism (3 credits)—*Prerequisite(s): JOUR 3301 or permission of instructor.* Advanced study in photojournalism concentrating on the newspaper and magazine story, advanced digital camera, and photoshop techniques.

JOUR 3430 Magazine Article Writing (3 credits)—*Prerequisite(s): JOUR 2120 or permission of instructor.* Writing nonfiction articles for consumer magazines, as well as business, trade, and professional publications.

JOUR 4080 Journalism Internship (3 credits)—*Prerequisite(s): Permission of instructor.* Supervised professional experience in journalism.

JOUR 4107/5107 Reporting Public Affairs (3 credits)—*Prerequisite(s): A grade of "C" or better in JOUR 2130.* Instruction and practice in coverage of local, county, and state governments, the court system, and law-enforcement agencies. May include field trips for which students must defray personal expense.

JOUR 4420 Magazine Editing and Production (3 credits)—*Prerequisite(s): JOUR 3150 or permission of instructor.* Lecture-laboratory tracing the magazine from original manuscripts to completed production. Lab makes use of computers to produce camera-ready magazine with illustrations.

JOUR 4900 Independent Studies in Journalism (1-3 credits)

JOUR 4957/5957 Topics in Journalism (1-6 credits)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

JOUR 5107	Reporting Public Affairs	(3 credits)
JOUR 5900	Independent Study in Journalism	(1-3 credits)
JOUR 5957	Topics in Journalism	(1-6 credits)

Foreign Languages

LANG

Also see CHIN, FREN, GERM, JAPN, LATN, SPAN

METHODS

LANG 4417/5417 Teaching of Modern Languages (3 credits)—For seniors preparing to teach French, German, and Spanish. Topics include methodology and current trends in second language education and their application.

Latin

LATN

LATN 1010-20 Beginning Latin (3 credits)—Introduction to Latin vocabulary, syntax, conjugations, and declensions, working toward prose and poetry.

LATN 2010-20 Second-Year Latin (3 credits)—A continuation of first year, with reading from Latin prose and poetry and some prose composition.

Mathematics

MATH

(See Developmental Studies for below college-level courses.)

Special Requirement Students in mathematics courses may be required to possess a designated hand-held calculator with functions appropriate to the course.

MATH 1410 Number Concepts and Algebraic Structure (3 credits)—*Prerequisite(s): Two years of high school algebra and one year of high school geometry or the equivalent.* This course will (1) investigate the role of numbers as a logical and predictable system for expressing and relating quantities and (2) explore a variety of functional relationships which arise from diverse problem situations.

MATH 1420 Logic, Problem Solving and Geometry (3 credits)—*Prerequisite(s): MATH 1410 or permission of instructor.* Logic and problem solving will be used to discover geometric concepts. Examples from theorems of great mathematicians of the past will be studied. Students will be expected to understand and construct logical arguments. Use of technology to explore geometric relationships will be an integral part of the course.

MATH 1530 Probability and Statistics - Noncalculus (3 credits)—*Prerequisite(s): Two years of high school algebra.* Descriptive statistics and its relevance, including probability, experimentation, measurement, sampling and surveys, informal statistical inference, and hypothesis testing are included.

MATH 1710 Precalculus I (Algebra) (3 credits)—*Prerequisite(s): Two years of high school algebra.* The real number system, linear and quadratic equations, Cartesian coordinates, systems of equations, and applications.

MATH 1720 Precalculus II (Trigonometry) (3 credits)—*Prerequisite(s): Two years of high school algebra, MATH 1710, or the equivalent.* A study of functions and their graphs, including polynomial and rational functions, exponential and logarithmic functions, and trigonometric functions.

MATH 1840 Analytic Geometry and Differential Calculus (3 credits)—*Prerequisite(s): MATH 1720 or two years of high school algebra and high school trigonometry.* A course in differential calculus with technical applications. Analytic geometry, quadratic equations, and additional topics in trigonometry as foundation to the calculus, limits, the derivative, and applications.

MATH 1850 Integral Calculus for Technology (3 credits)—*Prerequisite(s): MATH 1840.* A course in integral calculus with technical applications. Sequences and series, the integral, exponential and logarithmic functions, and differentiation and integration of transcendental functions.

MATH 1910 Calculus I (4 credits)—*Prerequisite(s): Two years of high school algebra, one year of plane geometry and trigonometry, or MATH 1720.* Functions, limits of functions, derivatives and applications, and introduction to the integral.

MATH 1920 Calculus II (4 credits)—*Prerequisite(s): MATH 1910.* Applications of the integral, inverse trigonometric functions, exponential and logarithmic functions, techniques of integration, indeterminate forms and improper integrals, sequence, and series.

MATH 2010 Linear Algebra (3 credits)—*Prerequisite(s): MATH 1840, or MATH 1910.* Systems of linear equations, matrix algebra, inner products, vector spaces, linear transformations, eigenvalues, and three-space vector geometry.

MATH 2050 Foundations of Probability and Statistics - Calculus Based (3 credits)—*Prerequisite(s): MATH 1910.* A calculus-based introduction to probability and statistical inference. Basic probability concepts, mathematical expectation, discrete and continuous probability distributions, sampling distributions, one and two-sample estimation, and hypothesis testing techniques will be developed and used; linear regression and correlation.

MATH 2090 Mathematical Computing (2 credits)—Designed to introduce mathematics majors to the use of software tools and programming languages in the mathematics discipline. Spring

MATH 2110 Calculus III (4 credits)—*Prerequisite(s): MATH 1920.* Conics, parametric equations and polar coordinates, vectors and vector-valued functions, multivariate calculus.

MATH 2120 Differential Equations (3 credits)—*Prerequisite(s): MATH 1920 and MATH 2010.* First order differential equations and applications. Second and higher order linear differential equations and applications; Laplace transforms, systems of differential equations. Spring

MATH 2190 Introduction to Computational Biology (3 credits)—This course introduces students to the general concepts of calculus, probability theory, fractals, game theory and other mathematical tools to ecology, evolution, genetics and genomics. Concepts covered may include equilibrium, stability, emergence of complexity, hypothesis testing, Bayesian inference, genetic algorithms etc.

MATH/BIOL 2390 Introduction to Research in Quantitative Biology (3 credits)—*Prerequisite(s): Permission of the instructor.* Students rotate between a Biological Sciences lab and the Mathematics Department. Students learn math needed to support research in biology. One rotation per semester, consisting of one research experience in each department. The course may be repeated once.

MATH 2710 Discrete Structures (3 credits)—*Prerequisite(s): MATH 1840 or MATH 1910.* Set theory, mathematical induction and recursion, relations and digraphs, functions, trees and languages, semigroups, finite-state machines, and languages.

MATH 2800 Mathematical Reasoning (3 credits)—*Prerequisite(s): MATH 1920 and MATH 2010.* Introduction to mathematical methods of proof using primarily the subjects of logic, set theory, number theory, and topology.

MATH 2989 Cooperative Education (1-3 credits)—*Prerequisite(s): MATH 2110 and MATH 2010.* Designed for students who wish to pursue a temporary apprenticeship or experiential activity in a cooperative endeavor with an approved agency.

MATH 3040 History of Mathematics (3 credits)—*Prerequisite(s): MATH 2110, MATH 2800, and MATH 2010.* A study of mathematics and those who contributed to its development. Recommended for teachers and those desiring to expand their view of mathematics.

MATH 3050 Statistical Modeling (3 credits)—*Prerequisite(s): MATH 2050 and MATH 2010.* An introduction to linear multiple regression

and one-way ANOVA using matrices. Other models include logistic regression, random walks, and autoregressive models. Spring

MATH 3120 Elementary Number Theory (3 credits)—*Prerequisite(s): MATH 2800 and junior or senior status.* Introduction to number theory, treating divisibility, congruencies, linear Diophantine equations, and quadratic residues. Some history of the development of the discipline will also be included.

MATH 3150 Mathematical Modeling (3 credits)—*Prerequisite(s): MATH 2120.* This course is an introduction to birth and death processes, equilibria, optimal control, and probabilistic models. Emphasis will be given to criteria for accepting, rejecting, and modifying models. Fall

MATH 3340 Applied Combinatorics and Problem Solving (3 credits)—*Prerequisite(s): MATH 2800.* Topics include basic counting techniques, generating functions, recurrence relations, and applications. Fall

MATH 4010 Undergraduate Research (3 credits)—*Prerequisite(s): MATH 2800 and approval of faculty members teaching course.* A capstone experience serving as the culmination of the mathematics curriculum. Students will work on research problems under the direction of mathematics faculty members. Honors students should take MATH 4018 instead.

MATH 4018 Honors Thesis (3-6 credits)—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

MATH 4027/5027 Introduction to Applied Mathematics (3 credits)—*Prerequisite(s): MATH 2010, MATH 2110, and MATH 2120.* This course is an introduction to partial differential equations and their relationship to Fourier series, vector calculus, and special functions.

MATH 4047/5047 Mathematical Statistics I (3 credits)—*Prerequisite(s): MATH 2050, MATH 2010 and MATH 2110.* An introduction to the theory of probability and mathematical statistics. Topics will include discrete and continuous probability distributions and their applications, mathematical expectation and moment generating functions, functions of random variables and transformations, sampling distributions, the central limit theorem, Chi-square, T and F distributions. Fall

MATH 4057/5057 Mathematical Statistics II (3 credits)—*Prerequisite(s): MATH 4047 or MATH 5047.* A continuation of Mathematical Statistics I. An introduction to the theory of mathematical statistics, estimation, and hypothesis testing. Topics will include efficiency, consistency, sufficiency, robustness, methods of estimation, confidence intervals, Bayesian inference as well as the Neyman-Pearson lemma, power functions, likelihood ratio tests, hypothesis tests, and applications. Spring

MATH 4127/5127 Introduction to Modern Algebra (3 credits)—*Prerequisite(s): MATH 2010 and MATH 2800.* Introduction to the basic algebraic systems, including groups, rings, integral domains, and fields. Fall

MATH 4137/5137 Introduction to Modern Algebra II (3 credits)—*Prerequisite(s): MATH 4127/5127.* The study of rings is continued to include topics of factor rings, ideals and factorization. The study of field theory is expanded to include extension fields and splitting fields, time permitting; Sylow theory is included. Spring

MATH 4157/5157 Introduction to Modern Geometry (3 credits)—*Prerequisite(s) or Corequisite(s): MATH 2010 and MATH 2800.* An introduction to Euclidean and non-Euclidean geometries, emphasizing the distinction between the axiomatic characterizations, and the transformational characterizations of these geometries. Some history of the development of the discipline will also be included.

MATH 4217/5217 Analysis I (3 credits)—*Prerequisite(s): MATH 2110 and 2800.* Elements of point set topology, limits and continuity, differentiability, Taylor's theorem, approximation, Riemann integral. Fall

MATH 4227/5227 Analysis II (3 credits)—*Prerequisite(s): MATH 4217.* Infinite sequences and series, power series, real-valued functions of several variables, vector-valued functions of several variables, implicit function theorem, integral of multivariate functions. Spring

MATH 4257/5257 Numerical Analysis (3 credits)—*(Co-listed in Computer Science) Prerequisite(s): MATH 1920 and MATH 2010.* Floating point arithmetic and error propagation, numerical solution to functions of a single variable and functional approximation, numerical differentiation and integration, program design, coding, debugging, and execution of numerical procedures. Fall

MATH 4267/5267 Numerical Linear Algebra (3 credits)—*(Co-listed in Computer Science) Prerequisite(s): MATH 1920 and 2010.* Direct and iterative techniques for solving systems of linear equations, curve fitting, and eigenvalue-eigenvector methods. Spring

MATH 4287/5287 Applications of Statistics (3 credits)—*Prerequisite(s): MATH 1530, MATH 2050, MATH 4047, or permission of instructor.* An applied course in statistical methods with emphasis on the selection of an appropriate method, the required assumptions, and applications using statistical software. Comparison of two groups by parametric, nonparametric, and computer intensive methods. Analysis of variance (ANOVA), multiple regression, tests for two-way tables, odds ratio, and relative risk logistic regression. This course is recommended for graduate students from other disciplines who wish to apply statistics and to math majors interested in statistical applications and consulting.

MATH 4307/5307 Sampling and Survey Techniques (3 credits)—*Prerequisite(s): MATH 1530, or 2050, or 4047, or permission of instructor.* Topics to be selected from survey designs, simple random, stratified and systematic sampling, questionnaire construction, interviewing techniques, methods of estimation and costs.

MATH 4327/5327 Time Series Analysis (3 credits)—*Prerequisite(s): MATH 2050 or equivalent.* Methods for analysis of observations taken at equally spaced moments in time. Exploratory analysis of time series, decomposition approach, exponential smoothing and regression, time domain approach (ARIMA models), forecasting, introduction to the frequency domain approach, periodogram, and spectrum.

MATH 4337/5337 Complex Variables (3 credits)—*Prerequisite(s): MATH 1920 and MATH 2010.* Complex numbers and their algebra, complex differentiation and integration, analytic and elementary functions, residues and power series.

MATH 4347/5347 Introduction to Graph Theory with Applications (3 credits)—*Prerequisite(s): MATH 2800.* Topics include graph theory and applications, trees, planar graphs, graphical invariants, and networks. Spring

MATH 4357/5357 Introduction to Topology (3 credits)—*Prerequisite(s): MATH 2800.* Open and closed sets, continuous functions, metric spaces, connectedness, continuous functions, metric spaces, connectedness, compactness, the real line, and the fundamental group.

MATH 4377/5377 The Theory of Interest (3 credits)—*Prerequisite(s): MATH 2110 or the equivalent, or permission of instructor.* Topics include measurement of interest, accumulated and present value factors, annuities certain, yield rates, amortization schedules, and sinking funds and bonds, and related securities.

MATH 4387/5387 Actuarial Mathematics I (3 credits)—*Prerequisite(s): MATH 2050 and MATH 4377/5377 or equivalent; or permission of instructor.* Topics include survival distributions and life tables, life insurance, life annuities, benefit premiums, benefit reserves, and analysis of benefit reserves.

MATH 4397/5397 Actuarial Mathematics II (3 credits)—*Prerequisite(s): MATH 4387/5387 or permission of instructor.* (A continuation of MATH 4387/5387) Topics include multiple life functions, multiple

decrement functions, applications of multiple decrement theory, insurance models including expenses, and business and regulatory conditions.

MATH 4417/5417 Teaching of Secondary Mathematics (3 credits)—*Prerequisite(s) or Corequisite(s): MATH 4127 and MATH 4157.* Introduction to methods and materials appropriate to the teaching of secondary school mathematics. Topics include mathematics problem solving, integration of computing technology into mathematics instruction, systematic study of the foundations of secondary mathematics, and a survey of ideas and techniques associated with planning, delivering, and evaluating instruction in mathematics. Fall

MATH 4900 Independent Study (1-6 credits)—*Prerequisite(s): MATH 4127.* Designed for students who would like to pursue a study of an area of mathematics not covered in the curriculum. Students are expected to work independently, but under the close supervision of an instructor. A paper presenting their findings is required.

MATH 4957/5957 Topics in Mathematics (1-6 credits)—*Prerequisite(s): MATH 2110 and MATH 2010.* Selected topics of current interest in mathematics. Offered upon sufficient demand for specified subject matter. May be repeated twice for different topics. Consultation with the instructor is recommended before enrollment.

MATH 4989 Cooperative Education (1-3 credits)—*Prerequisite(s): MATH 4127.* Designed for students who wish to pursue a temporary apprenticeship or experiential activity in a cooperative endeavor with an approved agency.

MATH 4999 Cooperative Education (3 credits)—Same as above.

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

MATH 5010	Patterns and Problem Solving for Elementary and Middle School Teachers	(3 credits)
MATH 5015	Probability and Statistics for Elementary and Middle School Teachers	(3 credits)
MATH 5025	Foundations and Structure of Mathematics	(3 credits)
MATH 5026	Foundations and Structure of Mathematics II	(3 credits)
MATH 5040	Reasoning in Mathematics	(3 credits)
MATH 5050	Analysis for Teachers	(3 credits)
MATH 5060	Algebra for Teachers	(3 credits)
MATH 5070	Theory of Numbers	(3 credits)
MATH 5090	Theory of Matrices	(3 credits)
MATH 5210-20	Real Analysis I and II	(3 credits)
MATH 5310	Differential Geometry	(3 credits)
MATH 5330	Axiomatic and Transformational Geometries	(3 credits)
MATH 5340	Graph Theory and its Applications	(3 credits)
MATH 5410-20	Modern Algebra I and II	(3 credits)
MATH 5510-20	Complex Analysis I and II	(3 credits)
MATH 5610-20	Applied Mathematics I and II	(3 credits)
MATH 5710-20	Statistical Methods I and II	(3 credits)
MATH 5810-20	Operations Research I and II	(3 credits)
MATH 5850-60	Numerical Analysis I and II	(3 credits)
MATH 5900	Independent Study	(1-6 credits)
MATH 5960	Thesis	(1-3 credits)
MATH 5990	Readings and Research	(1-3 credits)

**Mass Communications
MCOM**

The department will accept no more than 12 semester credits or the equivalent in Mass Communications courses for transfer to be applied toward the degree.

MCOM 1030 Introduction to Mass Communications (3 credits) – Nature, functions, responsibilities of mass communications media and agencies. Survey of newspapers, magazines, radio, television, film, advertising, public relations, press associations, and specialized publications.

MCOM 2989-3989-3999 Cooperative Education (1-3 credits)

MCOM 3070 Mass Media and Society (3 credits)—The nature and functions of mass communications, including an appraisal of the performance of mass media in society. Study of mass media problems, audiences and effects, and consideration of different theories and systems of media dissemination of news, opinion, and information.

MCOM 4018 Honors Thesis (3 credits)—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

MCOM 4037/5037 Communications Law (3 credits)—Statutory law and judicial precedents affecting mass communication media, libel, contempt of court, invasion of privacy, copyright, broadcasting, advertising, and postal regulations.

MCOM 4040 Seminar in Mass Communications (1-6 credits)—A study of recent literature on developments and trends in mass communications. May be repeated.

MCOM 4900 Independent Studies in Mass Communications (1-3 credits)

MCOM 4957/5957 Topics in Mass Communications (1-6 credits)

MCOM 4989 Cooperative Education (1-3 credits)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

MCOM 5010	Comparative Mass Media Systems	(3 credits)
MCOM 5019	Supervised Experience Teaching	(1-3 credits)
MCOM 5020	Media and Cultural Diversities	(3 credits)
MCOM 5029	Supervised Experience Research	(1-3 credits)
MCOM 5030	Media and the First Amendment	(3 credits)
MCOM 5037	Communications Law	(3 credits)
MCOM 5039	Supervised Experience in Administration	(1-3 credits)
MCOM 5040	Seminar in Mass Communications	(1-6 credits)
MCOM 5050	Public Opinion	(3 credits)
MCOM 5060	Seminar Media Ethics	(3 credits)
MCOM 5070	Seminar in History of Mass Communications	(3 credits)
MCOM 5900	Independent Studies in Mass Communications	(1-3 credits)
MCOM 5957	Topics in Mass Communications	(1-6 credits)
MCOM 5960	Thesis	(3-6 credits)
MCOM 5990	Read and Research	(1-3 credits)

Educational Media and Educational Technology

MEDA

MEDA 3570 Educational Technology (2 credits)—*Prerequisite(s): Admission to teacher education and completion of one of the following: CUA1 2440, CSCI 1100 or Information Technology Proficiency Exam.* This course prepares students to use educational technology in the classroom.

MEDA 4637/5637 Young Adult Materials (3 credits)—Analysis, evaluation, and use of library media for young adults of junior and senior high school age in relation to their needs, interests, and the school curriculum.

MEDA 4957/5957 Topics in Instructional Media (1-6 credits)—*Prerequisite(s): Dependent on subject matter.* Selected topics of current interest in media or technology. Offered upon sufficient demand for specific subject matter. May be repeated for different topics. Consultation with the instructor is recommended before enrollment.

**Management
MGMT**

Note: All students enrolling in 3000- and 4000-level (upper-division) College of Business and Technology courses must have junior or senior standing.

MGMT 3000 Organizational Behavior and Management (3 credits)—*Prerequisite(s): Junior standing.* An introduction to the managerial process emphasizing organizational behavior, theory and development, and decision-making in complex organizations. (fall, spring, summer)

MGMT 3050 Decision Science (3 credits)—*Prerequisite(s): ECON 2080 and junior standing.* An introduction to basic management science methods emphasizing application and interpretation by managers. Topics include model-building process, decision theory, Bayesian decision analysis, linear programming methods including the simplex method and assignment and transportation models, basic inventory and production models, queuing models, and Monte Carlo simulation. Computer program packages are used. (fall, spring, summer)

MGMT 3100 Production/Operations Management (3 credits)—*Prerequisite(s) or Corequisite(s): MGMT 3000 and MGMT 3050.* An introduction to the design, operation, and control of productive systems

in both manufacturing and service organizations. Topics include product, process, plant, technology, and personnel decisions, logistics, production, inventory, quality, and cost control systems. (fall, spring, summer)

MGMT 3200 Organizational Communications (3 credits)—*Prerequisite(s): Junior standing.* The various oral and written media and channels essential to organizational communications are examined. Guidelines for application and evaluation are presented with emphasis on the situational effectiveness of each medium and channel.

MGMT 3220 Management Information Systems (3 credits)—*Prerequisite(s): CSCI 1100 and MGMT 3000.* Integrates topics of management and organization theory, information and communication theory, and systems theory relevant to managing an organization's information resources. Includes computer and database concepts and emphasizes the design, analysis, operation, and control of information systems to aid management decision-making. (fall, spring, summer)

MGMT 3300 Written Organizational Communications (3 credits)—*Prerequisite(s): Junior standing.* The application of theory to the forceful composition of business communications. Intensive development of skills to prepare effective business letters, memos, and reports. Particular attention will be given to technical language. (fall, spring, summer)

MGMT 3310 Legal Environment of Business (3 credits)—*Prerequisite(s): Junior standing.* An introduction to our legal system with its impact on business. Business problems with legislation, judicial decisions, and governmental regulation are examined with special emphasis upon securities transactions, business taxes, and the Sherman, Clayton, and Robinson-Patman Acts.

MGMT 3320 Management and Social Responsibility (3 credits)—*Prerequisite(s): MGMT 3310.* A study of the legal and ethical aspects of business dealings with respect to employees, the environment, consumers, suppliers, distributors, and the general community.

MGMT 3330 Law of Commercial Transactions (3 credits)—*Prerequisite(s): MGMT 3310.* A survey of the law of commercial transactions including contracts, sales and agency partnerships, corporations, commercial paper, secured transactions, and bankruptcy. The course should be helpful in giving one a general knowledge of the substantive law of business and in preparing for the law section of the CPA exam.

MGMT 3650 Supply Chain Management (3 credits)—*Prerequisite(s): MKTG 3310.* A comprehensive course dealing with an approach to analyzing and managing logistics networks that improve a company's competitive position in the global marketplace. Issues dealing with resource flows through the supply chain will be discussed in lectures and cases. (spring)

MGMT 3660 Introduction to Project Management (3 credits)—*Prerequisite(s): MGMT 3100.* This course addresses project management from a management perspective rather than an engineering or mathematical perspective. It deals with the basic nature of managing projects, selecting projects, initiating them, operating and controlling projects, and terminating projects. The students should understand the demands made on the project manager and the nature of the manager's interaction with the rest of the parent organization.

MGMT 4010 Advanced Organizational Behavior (3 credits)—*Prerequisite(s): MGMT 3000 and a declared major.* A behavioral science approach to organizational management problems created by the interaction of individuals and organizations. Topics examined include motivation, leadership, organizational change, and development. (fall, spring)

MGMT 4018 Senior Honors Seminar (3-6 credits)—*Prerequisite(s): ECON 3088 and admission to the College of Business and Technology Honors Program.* A seminar for College of Business and Technology honors students who are working on senior honors theses or other approved projects. Upon successful completion of the course, students will have demonstrated the ability to complete the research process by creating a written product

suitable for submission to the College of Business and Technology faculty. (fall, spring)

MGMT 4020 Organizational Theory and Development (3 credits)—*Prerequisite(s): MGMT 3000.* The study of the structure and functioning of organizations and an examination of the interactive effects of people, technology, and environment on the organization. (fall, spring, summer)

MGMT 4030 Current Management Issues (3 credits)—*Prerequisite(s): Junior standing and MGMT 3000.* A course designed to teach students in specific up-to-date issues tailored to their specific degree requirements. Areas such as total quality management, continuous improvement, team building, quick response, efficient customer response, enterprise resource planning, and business process re-engineering are developed through lectures and case studies to show the student real-world application. (fall, spring)

MGMT 4210 Systems Analysis and Design (3 credits)—*Prerequisite(s): MGMT 3220.* An overview of systems developments techniques including the life cycle and prototyping. There will be an emphasis on the techniques and tools of system documentation and logical system specification. This course will incorporate management practices and principles as they pertain to the analysis, design, and implementation of information systems.

MGMT 4217/5217 Service Operations Management (3 credits)—*Prerequisite(s): MGMT 3100 or permission of instructor.* Application of operations management principles within the service environment, and illustrating new information technologies as strategic elements of service operations. Topics include managing services, structuring and scheduling, continuous improvements in quality and productivity. Quantitative models and case analysis will be included.

MGMT 4317/5317 Materials Management (3 credits)—*Prerequisite(s): MGMT 3100.* Design of information, forecasting, planning, and control systems for allocating resources and scheduling activities. Topics include operations information systems, forecasting, aggregate output planning, inventory control, materials requirements planning, and shop scheduling. (spring)

MGMT 4327/5327 Decision Modeling and Simulation (3 credits)—*Prerequisite(s): CSCI 1100 and MGMT 3100.* Concepts and methods for building and processing models which produce information about the behavior of complex organizational systems to support management decisions. Topics include simulation of inventory and queuing systems, flow-graphs, process generators, GPSS, management planning, and network models.

MGMT 4330 Data Management (3 credits)—*Prerequisite(s): MGMT 3220.* A survey of database management systems and data communication systems with focus on the managerial aspects of treating data as a resource. Introduction to file organization techniques, data structures, data manipulation languages, query languages, the relational database model, data communication concepts, networks, and management of distributed information systems. (summer)

MGMT 4347/5347 Labor Relations/Collective Bargaining (3 credits)—*Prerequisite(s): ECON 2210 and ECON 2220.* A study of the organization of labor and management for collective bargaining. The subject matter for bargaining and bargaining procedures. A special study will be made of the laws affecting collective bargaining. (fall, spring, summer)

MGMT 4357/5357 CIM Applications (3 credits)—*Prerequisite(s): Junior standing.* An interdisciplinary course concerned with the concepts of business, computers, and manufacturing designed to explore the integration of these dynamic disciplines in the development of the Computer-Integrated Enterprise. Field trips, and demonstrations will be used to support the lectures. (fall, spring)

MGMT 4420 Law of Business Organizations (3 credits)—

Prerequisite(s): MGMT 3310. A study of the laws governing sole proprietorships, partnerships, corporations, limited liability companies, and other types of business organizations. The legal duties and powers of officers, partners, board of directors, member-managed boards, member employees, and shareholders are examined, as well as legal liability for business actions under civil and criminal law, including the federal criminal sentencing guidelines for organizations and methods to reduce civil and criminal liability.

MGMT 4430 Manufacturing and Technology Law (3 credits)—

Prerequisite(s): MGMT 3310. An in-depth study on protecting company inventions, products, and confidential information by coverage of the laws applicable to trade secrets, patents, copyrights, trademarks, and trade dress, as well as confidentiality and non-compete agreements. Also covered are product liability law and other legal claims that may arise from the production and sale of products and technology-based services such as computer software and technical advice.

MGMT 4440 Governmental Regulation of Business (3 credits)—

Prerequisite(s): MGMT 3310. An examination of the functions of federal administrative agencies as defined by statutes, the Administrative Procedures Act, and judicial decisions, and their impact on the decision-making process in business. Topics include rule-making, investigatory procedures, enforcement, adjudication, due process, judicial review, and disclosure of information. Methods and practices businesses may use to successfully deal with proposed and current regulatory rules and decisions are emphasized. (fall)

MGMT 4450 International Business Law (3 credits)—

Prerequisite(s): MGMT 3310. An examination of the legal aspects involved in developing and conducting international business transactions. The course emphasizes private law and its impact on the managerial decision-making process. Topics include the international aspects of commercial trade, governmental regulation, and dispute settlement.

MGMT 4460 Leadership Studies (3 credits)—

The study of leadership from an historical and contemporary perspective. Students will identify, apply, and reflect on aspects of leadership development, including concepts of personal change toward effective leadership in a changing environment. Topics cover personal assessment and development, values and ethics, power and influence, followership, group dynamics, controversy with civility, and citizenship. (fall)

MGMT 4510 Human Resources Management (3 credits)—

Prerequisite(s): MGMT 3000. A survey of the principles and policies concerning the personnel function of a business, its structure, job analysis, forecasting, recruiting, selecting, training, and evaluation. Special emphasis will be given to affirmative action programs, equal employment opportunity directives, legal decisions, and the practice of industrial relations in the field of American business enterprise today. (fall, spring, summer)

MGMT 4520 Human Resource Management in Team-Based Organizations (3 credits)—

Prerequisite(s): MGMT 4510 or permission of instructor. This course prepares students to deal with the unique issues that arise in managing human resources in a team-based organization. The focus of the course is on self-managing work teams. Topics include recruiting and selecting team members, cross-training, skill-based pay and gainsharing compensation systems, and team performance appraisal.

MGMT 4530 Compensation Management (3 credits)—

Prerequisite(s): MGMT 4510. An in-depth look at the role of the company, government, union, and employee in the design and administration of a compensation system and a survey of the problems faced by modern managers of such a system. (fall, spring)

MGMT 4540 Personnel Research and Measurement (3 credits)—

Prerequisite(s): ECON 2080 and MGMT 4510. A review and evaluation of appropriate studies in order to become familiar with personnel

measurement techniques such as job evaluation, performance appraisal systems, morale surveys, and personnel auditing procedures. (fall)

MGMT 4547/5547 Corporate Etiquette (3 credits)—

Designed to help students present themselves with confidence to outclass the competition. Topics covered include introductions, conversation skills, working a room, business attire, dining in corporate America, wine selection, resume writing, interviewing, international business and more. Skills should help you obtain a job, advance to a higher position, and make career changes. (fall, spring, summer)

MGMT 4560 Planning and Staffing (3 credits)—

Prerequisite(s): MGMT 3000. An in-depth review of the concepts and techniques of planning and staffing used by organizations to ensure adequate recruitment and selection of skilled employees. Topics to be covered include staffing models, economic and labor market conditions, the impact of units in hiring, legal factors in recruiting and selection, strategic planning, job analysis, forecasting labor supply and demand, measurement issues, external and internal recruitment and selection, and staffing system management. (fall)

MGMT 4570 Training and Development (3 credits)—

Prerequisite(s): MGMT 4510 or permission of instructor. An introduction to the concepts and techniques of training and development. The organization of the sources and methods used to determine training and development needs, to implement programs, and to evaluate the success of these programs. (spring)

MGMT 4587/5587 HRM Certification (3 credits)—

Prerequisite(s): MGMT 4510 or the permission of instructor. A review of the content domain of human resource management topics as defined by the Society for Human Resource Management. Students will prepare for the Society of Human Resource Management's Human Resource Certification Institution Examination. Major content areas include professionalism and ethics, management practices, selection and placement, training and development, compensation and benefits, employee and labor relations, and health, safety and security. Practice exams are a major focus. (spring)

MGMT 4600 Personnel Law (3 credits)—

Prerequisite(s): MGMT 3000 and MGMT 3310. A survey of the law concerning equal employment, worker safety, pensions, employee legal rights, workers' compensation, wage and credit law, and other areas of law. Emphasis is on practical knowledge essential to personnel department managers. (fall, spring)

MGMT 4617/5617 Small Business Management (3 credits)—

Prerequisite(s): MGMT 3000 or equivalent. A study of the opportunities, pitfalls, and problems in the creation and management of small business operations. Case studies are used to illustrate the application of principles. (summer)

MGMT 4657/5657 Strategic Environmental Management in Business (3 credits)—

Prerequisite(s): MGMT 3000 or permission of instructor. This course prepares managers in business organizations to make successful business decisions which are compatible with a sustainable ecosystem. It provides the knowledge, values, and frameworks necessary to implement sustainable growth strategies in business organizations. (spring)

MGMT 4667/5667 Environmental Law for Business (3 credits)—

Prerequisite(s): MGMT 3000, or MGMT 5020, or equivalent. The course is designed to provide students with an understanding of the environmental laws and regulations that influence decision-making in the current business climate. Topics include the process by which environmental legislation is developed and promulgated, how regulations are revised, and the basic scientific and policy foundations driving specific environmental legislation. Also covered is the interaction of the judicial process in the enforcement of environmental legislation. The student also will be introduced to the technical aspects of environmental legislation most affecting business operations and the manager's role regarding compliance issues.

MGMT 4900 Independent Study in Management (1-3 credits)—A course designed for advanced students who, under the direction of a management faculty member, wish to engage in independent research or an intensive study of subjects not covered in other available courses. Prior departmental and college approval is needed. (spring)

MGMT 4905 Management Internship (3 credits)—*Prerequisite(s): Completion of, at least, six credit hours at the upper-division level in the student's major, junior or senior standing and a 2.7 GPA or above.* Students are selected through a competitive process for assignments in approved business or public-sector organizations as interns under the supervision of the internship coordinator and field placement supervisors. Students may not earn more than three semester credits for this course which can be used as a free elective or an elective within a business major, with prior approval by the chair. (spring, summer)

MGMT 4910 Policy and Strategy Formulation (3 credits)—*Prerequisite(s): Declared business major, and last-semester senior standing.* Specific problems involved in the formulation of consistent business policies and the maintenance of efficient organizations. (fall, spring, summer)

MGMT 4957/5957 Topics in Management (1-6 credits)—*Prerequisite(s): Senior or graduate standing and permission of instructor.* This course gives students an opportunity to study special problems and new developments in the field of management. (fall, spring, summer)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

BADM 5160	Information Infrastructure	(3 credits)
BADM 5340	Human Resource Strategy	(3 credits)
BADM 5800	Strategic Experience	(3 credits)
MGMT 5010	Essentials of Management/Marketing	(3 credits)
MGMT 5020	Legal and Social Responsibility	(3 credits)
MGMT 5030	Quantitative Analysis for Operations Management	(3 credits)
MGMT 5401	Rural Health Issues	(3 credits)
MGMT 5525	Health Services Delivery and Organization	(3 credits)
MGMT 5550	Human Resources Management in Health Care	(3 credits)
MGMT 5590	Strategic Planning for Health Care	(3 credits)
MGMT 5900	Independent Study in Management	(1-3 credits)

Marketing

MKTG

Note: All students enrolling in upper-division 3000 - 4000 level College of Business and Technology courses must have junior or senior standing.

MKTG 2220 Perspectives on Dress, Culture, & Society (3 credits)—An exploration of clothing in relation to the individual, the family, and society. The social psychology of clothing and essential factors in consumer clothing decisions will be emphasized. (fall)

MKTG 3200 Principles of Marketing (3 credits)—*Prerequisite(s): Junior standing.* An introductory course designed to develop in students an understanding of basic marketing concepts and functions in market-oriented institutions. Marketing strategy is studied with appreciation for the constraints imposed by consumer behavior, marketing institutions, competition, and the law. (fall, spring, summer)

MKTG 3202 Consumer Behavior (3 credits)—*Prerequisite(s): MKTG 3200.* Study of the nature and dynamics of consumer markets. Emphasis is placed on the concepts and techniques used to identify and measure target areas relative to differing behavioral patterns for use in marketing strategy. (fall, spring, summer)

MKTG 3225 Apparel Product Analysis (3 credits)—*Prerequisite(s): MKTG 3215 or permission of the instructor.* Analysis of quality and selection of consumer products for specific end uses, and an examination of pricing strategies used by merchandisers of apparel products. In-class laboratory activities included.

MKTG 3210 Fundamentals of Distribution (3 credits)—*Prerequisite(s): ECON 2210 and MKTG 3200.* This course reviews channels of marketing distribution and introduces component areas of distribution such as transportation, inventory control, warehousing, and material handling. (fall, spring, summer)

MKTG 3215 Consumer Textiles (3 credits)—An analysis of textile products from fiber to finished fabric and an examination of new developments in legislation, textile and apparel economics, and current issues in the textile industry.

MKTG 3230 Fashion Fundamentals (3 credits)—*Prerequisite(s): MKTG 2220.* An overview of the fashion business. The influence of historic costume on modern dress, fashion terminology, design processes, techniques of analysis and prediction, and fundamentals of apparel manufacturing will be explored. (fall)

MKTG 3250 Marketing Communications (3 credits)—*Prerequisite(s): MKTG 3200.* A study of the role and influence of persuasive communications in demand stimulation and expansion. Behavioral theory underlying promotional techniques is emphasized and applications to mass communications, personal selling, and sales promotion are utilized. (fall)

MKTG 3310 Business Logistics (3 credits)—*Prerequisite(s): ECON 2210 and MKTG 3200.* Business logistics comprise the largest component of physical distribution costs. This course surveys the economic principles and institutional arrangements underlying managerial decisions on choice of transportation modes, carriers, and strategies. (fall, summer)

MKTG 3350 Retailing (3 credits)—*Prerequisite(s): MKTG 3200.* A comprehensive course dealing with the role of retailing in the marketing environment. Location, buying, promotion, organization, personnel, and control in a retail enterprise are examined. (fall, spring)

MKTG 3740 Sales Force Management (3 credits)—*Prerequisite(s): MKTG 3200.* Building upon a foundation of basic principles of salesmanship and persuasion, emphasis is placed upon the problems confronting sales executives, and the techniques, policies, and strategies used in their solution. (fall, spring, summer)

***MKTG 3750 Advertising Campaign Management (3 credits)**—*Prerequisite(s): MKTG 3200 and MKTG 3202, or permission of instructor.* Stresses the managerial aspects of advertising practice: setting objectives, creative and media strategies, budgeting, measuring effectiveness, and dealing with agencies. Controversial issues dealing with social and economic aspects of advertising and regulation of advertising are discussed. (fall, spring, summer)

*NOTE: Students cannot receive credit for both ADVR 3750 and MKTG 3750. *Cross-listed with ADVR 3750

MKTG 4018 Senior Honors Seminar (1-6 credits)—*Prerequisite(s): ECON 3088 and admission to the College of Business and Technology Honors Program.* A seminar for College of Business and Technology honors students who are working on senior honors theses or other approved projects. Upon successful completion of the course, students will have demonstrated the ability to complete the research process by creating a written product suitable for submission to the College of Business and Technology faculty. (fall, spring)

MKTG 4217/5217 Health Care Marketing (3 credits)—*Prerequisite(s): MKTG 3200 or permission of instructor.* This course is intended to give students a basic theoretical and practical knowledge of marketing as applied to the health care industry. Emphasis will be placed on the emergence of marketing's importance in the health care industry, developing marketing information systems, and making marketing decisions in a health care context. (fall, spring)

MKTG 4220 Fashion Merchandising (3 credits)—*Prerequisite(s): MKTG 3230.* The study of merchandising procedures as they are applied to the marketing of apparel. Merchandising practice will be studied as a segment of the total apparel marketing system. (spring)

MKTG 4221 Apparel Merchandising Study Tour (1-3)—*Prerequisite(s): Junior standing and permission of instructor.* The Apparel Merchandising Study Tour will acquaint students with major apparel market centers, providing exposure to design, manufacturing, and retail organizations of historic importance or current prominence. Interaction with professionals

will be provided with a lecture series and a trip to selected United States or European market centers. (summer)

MKTG 4240 Visual Merchandising (3 credits)—*Prerequisite(s): MKTG 2220 and MKTG 4220; or departmental approval.* An overview of the visual design process as it is applied to the merchandising of apparel and home furnishing products. Emphasis centers on the development of skills needed to plan, implement, and evaluate effective merchandise presentations in varied retail settings. (spring)

MKTG 4250 Advertising and Promotion (3 credits)—*Prerequisite(s): MKTG 4220.* A study of the purposes and applications of advertising and promotion in the fashion industry, including procedures, methods, and techniques used in the organization, execution, and evaluation of various promotional activities. (fall)

MKTG 4255 Merchandise Planning and Buying (3 credits)—*Prerequisite(s): MKTG 4220 and ECON 2220 or permission of the instructor.* An examination of the purchase of apparel merchandise for resale to the ultimate consumer; the numerical terminology, concepts, and calculators for retail management; and the role of the retail buyer.

MKTG 4617/5617 Marketing Research (3 credits)—*Prerequisite(s): MKTG 3200 and ECON 2080.* or equivalent. A study and application of the research process and techniques used in marketing research. Project planning and design, data collection and analysis, and the preparation of research reports are emphasized through lecture and student projects. (fall, spring, summer)

MKTG 4710 International Marketing (3 credits)—*Prerequisite(s): MKTG 3200 and MKTG 3202.* Social, cultural, political, and economic variables are considered in studying marketing operations in foreign environments. Special attention is given to adaptation of the marketing mix and entry strategies. (spring)

MKTG 4900 Independent Study in Marketing (1-3 credits)—A course designed for advanced students who, under the direction of a marketing faculty member, wish to engage in independent research or an intensive study of subjects not covered in other available courses. Prior departmental and college approval is needed.

MKTG 4905 Marketing Internship (3 credits)—*Prerequisite(s): Completion of, at least, six credit hours at the upper-division level in the student's major, junior or senior standing, and a 2.7 GPA or above.* Students are selected through a competitive process for assignments in approved business or public-sector organizations as interns under the supervision of the internship coordinator and field placement supervisors. Students may not earn more than three semester credits for this course which can be used as a free elective or an elective within a business major with prior approval by the chair. (spring, summer)

MKTG 4910 Marketing Management (3 credits)—*Prerequisite(s): Declared Business major and senior standing.* The capstone course in marketing emphasizes an analytical approach to solving representative marketing problems. The student will develop an appreciation of the complexity of modern marketing and facility in analytical thought. (fall, spring, summer)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

BADM 5400	Market Strategy	(3 credits)
MKTG 5010	Essentials of Marketing	(3 credits)
MKTG 5900	Independent Study in Marketing	(1-3 credits)

Military Science

MSCI

MSCI 1180 Leadership/Personal Development (Lab) (1 credit)—Practical application of leadership skills and an introduction to military drills and ceremonies. Uniforms will be issued to participants. (fall)

MSCI 1181 Tactical Leadership (Lab) (1 credit)—Practical application of leadership skills and an introduction to military drills and ceremonies. Uniforms will be issued to participants. Individuals who sign up for MSCI 1181 must also enroll in MSCI 2110. (spring)

MSCI 1182 Military Practicum III (1 credit)—Practical application of leadership skills and an introduction to military drills and ceremonies. Uniforms will be issued to participants. Individuals who sign up for MSCI 1182 must also enroll in MSCI 2150.

MSCI 1210 Leadership/Personal Development (3 credits)—Introduces students to the personal challenges and competencies critical for effective leadership. Students learn how the personal development of life skills such as critical thinking, goal setting, time management, physical fitness, and stress management relate to civilian and military leadership professions. Students will utilize the Basler Challenge Course and receive basic marksmanship training. (fall)

MSCI 1217 Physical Fitness (Basic) (1 credit)—Designed to promote overall fitness with an emphasis on nutrition, endurance, and strength training as part of an overall lifestyle. This course may be repeated up to four (4) times for credit. (fall, spring)

MSCI 1220 Introduction to Tactical Leadership (3 credits)—*Prerequisite(s): Completion of MSCI 1210 or approval of Professor of Military Science.* A study of leadership fundamentals such as setting direction, problem-solving, listening, presenting briefs, providing feedback, and using effective writing skills that relate to civilian and military leadership professions. Students will utilize the Basler Challenge Course and receive basic marksmanship training. (spring)

MSCI 2110 Innovative Team Leadership (3 credits)—Explores the dimensions of creative and innovative tactical leadership strategies and styles by examining team dynamics and two historical leadership theories that form the basis of civilian and military leadership traits and behavior theories. Students practice aspects of personal motivation and team building in the context of planning, executing, and assessing team exercises and participating in leadership labs. Case studies provide tangible context for learning the Soldier's Creed and Warrior Ethos as they apply in changing operating environments. (fall)

MSCI 2140 Special Problems (3 credits) — *Prerequisite: Approval of Professor of Military Science.* Course is designed for students with individual development needs as determined by faculty. (fall, spring)

MSCI 2150 Military Skills I (2 credits)—Examines the challenges of leading tactical teams in complex and changing operating environments. Course highlights the dimensions of terrain analysis, patrolling, and operation orders. Further study of the theoretical basis of the leadership framework explores the dynamics of adaptive leadership in the context of military operations. Students develop greater self-awareness as they assess their own leadership styles and practice communication and team building skills. (spring)

MSCI 2580 Leadership Training Course (variable from 1-6 credits)—*Prerequisite(s): Approval of Professor of Military Science.* This option is available only for students who did not qualify for the Advanced Phase by completing four Basic Phase courses during their freshman and sophomore years. The Basic Camp, conducted at Fort Knox, Kentucky, is a five (5) week leadership development course where students are placed in an intensive training environment where they live, work, and learn in a cooperative group under 24-hour-a-day leadership instruction and receive detailed appraisal of their displayed leadership performance. (summer)

MSCI 3110 Adaptive Tactical Leadership (3 credits)—*Prerequisite(s): Completion of the Basic Course or equivalent or approval of Professor of Military Science.* Course continues to challenge students to study, practice, and evaluate adaptive leadership skills as they are presented with challenging scenarios related to squad tactical operations. Students receive systematic and specific feedback on their leadership attributes and actions. Based on

such feedback, as well as their own self-evaluations, students continue to develop their leadership and critical thinking abilities. (fall)

MSCI 3120 Leadership in a Changing Environment (3 credits)—*Prerequisite(s): Completion of MSCI 3110 or approval of Professor of Military Science.* Course utilizes increasingly intense situational leadership challenges to build awareness and skills in leading tactical operations up to platoon level. Students will review aspects of combat, stability, and support operations; conduct military briefings to develop proficiency in giving operation orders; focus on exploring, evaluation, and developing skills in decision-making, persuading, and motivating team members in changing operating environments. (spring)

MSCI 3217 Physical Fitness (Instructor) (1 credit)—Designed to prepare the MS III and IV contracted Cadets to conduct and evaluate military physical fitness training. Course is required for contracted Cadets. This course may be repeated up to three (3) times for credit. (fall, spring)

MSCI 4110 Developing Adaptive Leaders (3 credits)—*Prerequisite(s): Completion of MSCI 3120 or approval of Professor of Military Science.* Course develops student proficiency in planning, executing, and assessing complex operations, functioning as a member of a staff, and providing performance feedback to subordinates as part of civilian and military leadership professions. Students assess risk, make ethical decisions, identify responsibilities of key staff, coordinate staff roles, and use situational opportunities to teach, train, and develop subordinates. (fall)

MSCI 4120 Leadership in a Complex World (3 credits)—*Prerequisite(s): Completion of MSCI 4110 or approval of Professor of Military Science.* Course explores the dynamics of leading in the complex situations of current military operations in changing operating environments. Students examine differences in customs and courtesies, military law, principles of war, and rules of engagement in the face of international terrorism. Course also explores aspects of interacting with non-government organizations, civilians on the battlefield, and host nation support. (spring)

MSCI 4140 Special Problems (3 credits) — *Prerequisite: Approval of Professor of Military Science.* Course is designed for students with individual development needs as determined by faculty. (fall, spring)

MSCI 4580 Leadership Development and Assessment (6 credits)—*Prerequisite(s): Completion of MSCI 3110 and MSCI 3120.* The Advanced Camp is a five (5) week leadership course conducted at Fort Lewis, Washington. Students will rotate through leadership positions, supervising their peers through both academic and tactical activities in both garrison and field environments. Students will be under leadership evaluation 24 hours a day for the duration of the course, will receive a detailed appraisal of their displayed leadership performance, and return to campus qualified to enter the 4000 level Military Science and Leadership courses. (summer)

MSCI 4581 Developing Adaptive Leaders (Lab) (1 credit) — Required for contracted Cadets. Practical application of leadership skills as presented in MSCI 4110. Uniforms will be issued to participants.

MSCI 4582 Military History (3 credits) — A historical perspective to decisions made by American military leaders from the colonial period through the current operating environment. Will explore the military's role in society, the evolution of war and the progression of military professionalism, the major wars fought by the United States Army, and the role of the United States military in joint operations and humanitarian operations. (fall, spring)

Music MUSC

MUSC 1000 Orientation to the Music Program (1 credit)—A freshman success course focusing on the requirements for music majors, including curriculum, recital attendance, juries, and piano proficiency.

Introduction to university systems and programs, including e-mail, counseling services, library, etc.

MUSC 1010 Class Piano I (1 credit)—*Prerequisite(s): Admission by consent of instructor.* Class piano provides the non-keyboard music major with functional keyboard skills, such as the ability to sight-read, score-read, harmonize, transpose, and improvise.

MUSC 1020 Class Piano II (1 credit)—*Prerequisite(s): MUSC 1010.* A continuation of MUSC 1010.

MUSC 1030 Introduction to Music (3 credits)—An introduction to the development of music, with an emphasis on art music of the Western hemisphere. Topics include elements of music, instruments and ensembles, form, styles and periods, including major composers and works. Synthesis is encouraged through listening to and writing about music. Concert attendance outside class is required.

MUSC 1035 History of Jazz (3 credits)—A study of the origins, developments, and current trends in the jazz idiom. Course focuses on important musicians, styles, and bands that have shaped the development of jazz.

MUSC 1040 Class Voice (1 credit)—Group instruction in the fundamental processes of good singing, i.e., breathing, tone production, diction, etc.

MUSC 1202 Symphonic Wind Ensemble (1 credit)—Concert organization which prepares and performs representative traditional and contemporary works for the wind medium. Open to all students by audition.

MUSC 1203 Concert Band (1 credit)—Concert organization which performs music of all forms, from classic to popular. Open to all students by consultation with instructor.

MUSC 1204 Orchestra (1 credit)—Study and performance of orchestral literature. Admission by consent of instructor. Credit given for performance with the Johnson City Symphony Orchestra.

MUSC 1206 Chamber Orchestra (1 credit)—An ensemble for the performance of Chamber Orchestra Literature. Admission by the consent of the instructor.

MUSC 1211 Brass Choir (1 credit)—Study and performance of brass chamber music. Admission by consent of instructor.

MUSC 1212 Woodwind Ensemble (1 credit)—Study and performance of standard chamber music literature suitable for the ability and instrumentation of the ensemble.

MUSC 1213 String Ensemble (1 credit)—Study and performance of string literature. Admission by consent of instructor.

MUSC 1214 Percussion Ensemble (1 credit)—Study and performance of percussion literature. Admission by consent of instructor.

MUSC 1215 Collegium Musicum (1 credit)—Study and performance of music of the 13th - 18th centuries on instruments appropriate to the period. Admission by permission of the instructor.

MUSC 1217 Opera Workshop (1 credit)—A practical laboratory approach to the study and presentation of opera. Open to any person interested in singing, coaching, directing, orchestral playing, costuming, set construction, lighting, publicizing, and producing for the public. Admission by consent of the instructor.

MUSC 1220 Musical Theatre Practicum (1 credit)—Open to any person interested in singing, dancing, acting, orchestral playing, costuming, coaching, set construction, and other aspects of the theatre. Admission by consent of the instructor.

MUSC 1221 Choir (1 credit)—Study and performance of accompanied and unaccompanied choral music of all periods. Open to all students by consultation with director of choral activities.

MUSC 1241 Jazz Singers (1 credit)—Study and performance of popular styles. Open to all students by consultation with director of choral activities.

MUSC 1251 Chorale (2 credits)—Small vocal groups created for performance of various types of ensemble music. Admission by consent of the instructor.

MUSC 1261 Jazz Ensemble (1 credit)—Study devoted to jazz and pop styles. Attention given to improvisation and understanding stylistic problems. Open to all students by consultation with instructor.

MUSC 1262 Jazz Combo (1 credit)—The study of small jazz combo performance. Permission of instructor.

MUSC 1271 Instrumental Chamber Groups (1 credit)—Study and performance of music for small instrumental ensembles. Admission by consent of the instructors.

MUSC 1272 Accompanying (1 credit)—Designed to provide ensemble experience for keyboard majors. Students will be assigned to accompany singers or instrumentalists under the supervision of applied music instructors. The accompanists will attend lessons, rehearse outside of lesson times, play for juries, and other performances as assigned.

MUSC 1275 Alexander Technique (2 credits)—A study of the Alexander Technique and its application to musicians in a small group setting.

MUSC 1400 Music Fundamentals (2 credits)—Elementary music theory and practice in aural skills for the nonmusic major and music major with limited or no theory background.

MUSC 1410 Theory I (2 credits)—Basic study of scales, keys, intervals, and diatonic harmony. Study of basic musical forms Analysis of Baroque and Classical compositions. Admission by consent of instructor.

MUSC 1411 Aural Skills I (1 credit)—Sight-singing, melodic, harmonic, and rhythmic dictation. (Laboratory for MUSC 1410.)

MUSC 1420 Theory II (2 credits)—*Prerequisite(s): MUSC 1410.* A continuation of MUSC 1410.

MUSC 1421 Aural Skills II (1 credit)—*Prerequisite(s): MUSC 1411.* A continuation of MUSC 1411.

MUSC 1801 Applied Piano Level I (1-2 credits)

MUSC 1811 Applied Winds Level I (1-2 credits)

MUSC 1821 Applied Strings Level I (1-2 credits)

MUSC 1841 Applied Voice Level I (1-2 credits)

MUSC 1851 Applied Percussion Level I (1-2 credits)

MUSC 2010 Class Piano III (1 credit)—*Prerequisite(s): MUSC 1020.* A continuation of MUSC 1020.

MUSC 2020 Class Piano IV (1 credit)—*Prerequisite(s): MUSC 2010.* A continuation of MUSC 2010.

MUSC 2410 Theory III (2 credits)—*Prerequisite(s): MUSC 1420.* A continuation of Theory I and II. Chromatic harmony and contemporary techniques. Analysis of Romantic and Modern compositions.

MUSC 2411 Aural Skills III (1 credit)—*Prerequisite(s): MUSC 1421.* A continuation of Aural Skills I and II.

MUSC 2420 Theory IV (2 credits)—*Prerequisite(s): MUSC 2410.* A continuation of MUSC 2410.

MUSC 2421 Aural Skills IV (1 credit)—*Prerequisite(s): MUSC 2411.* A continuation of MUSC 2411.

MUSC 2540 Music History Survey I (3 credits)—Music from antiquity through 1600.

MUSC 2550 Music History Survey II (3 credits)—*Prerequisite(s): MUSC 2540.* Music from 1600 through 1760.

MUSC 2560 Jazz Theory and Improvisation (2 credits)—*Prerequisite(s): MUSC 1420.* The study of jazz theory and jazz improvisation. Permission of Instructor.

MUSC 2600 String Methods (2 credits)—A survey of string instruments and equipment. Includes playing fundamentals, materials, and teaching techniques.

MUSC 2620 Instrumental Survey (2 credits)—*Prerequisite(s): Vocal and keyboard/ vocal music education majors only.* A survey of playing and teaching techniques for band and orchestral instruments.

MUSC 2630 Woodwind Methods I (2 credits)—Development of performance skill and teaching knowledge of the clarinet and flute.

MUSC 2631 Woodwind Methods II (1 credit)—*Prerequisite(s): MUSC 2630.* Development of performance skill and teaching knowledge of the oboe and bassoon.

MUSC 2660 Brass Methods (3 credits)—Study of the brass instrument family with special emphasis on teaching materials and pedagogical aspects. Instruments included are trumpet, horn, trombone, euphonium, and tuba.

MUSC 2690 Percussion Methods (2 credits)—A survey of percussion instruments and equipment designed for music education majors. Includes playing fundamentals, materials, and teaching techniques.

MUSC 2710 Diction for Singers I (1 credit)—The study of Italian and German diction to develop correct pronunciation and authentic accent for singing.

MUSC 2720 Diction for Singers II (1 credit)—The study of French diction to develop correct pronunciation and authentic accent for singing.

MUSC 2901 Applied Piano Level II (1-2 credits)

MUSC 2911 Applied Winds Level II (1-2 credits)

MUSC 2921 Applied Strings Level II (1-2 credits)

MUSC 2941 Applied Voice Level II (1-2 credits)

MUSC 2951 Applied Percussion Level II (1-2 credits)

MUSC 2989 Cooperative Education (1-3 credits)

MUSC 3202 Symphonic Wind Ensemble (1 credit)—*Prerequisite(s): Two semesters of MUSC 1202 and upper-division standing.* Open to all students by consultation with instructor. Concert organization which prepares and performs representative traditional and contemporary works for the wind medium. May be repeated for credit.

MUSC 3203 Concert Band (1 credit)—*Prerequisite(s): Two semesters of MUSC 1203 and upper-division standing.* Open to all students by consultation with instructor. Concert organization which prepares and performs music of all forms, from classic to popular. May be repeated for credit.

MUSC 3204 Orchestra (1 credit)—*Prerequisite(s): Two semesters of MUSC 1204 and upper-division standing.* Admission by permission of instructor. Study and performance of orchestral literature. May be repeated for credit.

MUSC 3206 Chamber Orchestra (1 credit)—*Prerequisite(s): Two semesters of MUSC 1206 and upper-division standing.* Admission by consent of instructor. An ensemble for the performance of chamber orchestra literature. May be repeated for credit.

MUSC 3211 Brass Choir (1 credit)—*Prerequisite(s): Two semesters of MUSC 1211 and upper-division standing.* Admission by consent of instructor. Study and performance of brass chamber music. May be repeated for credit.

MUSC 3212 Woodwind Ensemble (1 credit)—*Prerequisite(s): Two semesters of MUSC 1212 and upper-division standing.* Study and performance of standard chamber music literature suitable for the ability and instrumentation of the ensemble. May be repeated for credit.

MUSC 3213 String Ensemble (1 credit)—*Prerequisite(s): Two semesters of MUSC 1213 and upper-division standing.* Admission by consent of instructor. Study and performance of string literature. May be repeated for credit.

MUSC 3214 Percussion Ensemble (1 credit)—*Prerequisite(s): Two semesters of MUSC 1214 and upper-division standing.* Admission by consent of instructor. Study and performance of percussion literature. May be repeated for credit.

MUSC 3215 Collegium Musicum (1 credit)—*Prerequisite(s): Two semesters of MUSC 1215 and upper-division standing.* Admission by consent of instructor. Study and performance of music in the 13th - 18th centuries on instruments appropriate to the period. May be repeated for credit.

MUSC 3217 Opera Workshop (1 credit)—*Prerequisite(s): Two semesters of MUSC 1217 and upper-division standing.* Open to any person interested in singing, coaching, directing, orchestral playing, costuming, set construction, lighting, publicizing, and producing for the public. A practical laboratory approach to the study and presentation of opera. May be repeated for credit.

MUSC 3220 Musical Theatre Practicum (1 credit)—*Prerequisite(s): Two semesters of MUSC 1220 and upper-division standing.* Admission by consent of instructor. Open to any person interested in singing, dancing, acting, orchestral playing, costuming, coaching, set construction, and other aspects of theatre. May be repeated for credit.

MUSC 3221 Choir (1 Credit)—*Prerequisite(s): Two semesters of MUSC 1221 and upper-division standing.* Open to all students by consultation with director of choral activities. Study and performance of accompanied and unaccompanied choral music of all periods. May be repeated for credit.

MUSC 3241 Jazz Singers (1 credit)—*Prerequisite(s): Two semesters of MUSC 1241 and upper-division standing.* Open to all students by consultation with director of choral activities. Study and performance of popular styles. May be repeated for credit.

MUSC 3251 Chorale (2 credits)—*Prerequisite(s): Two semesters of MUSC 1251 and upper-division standing.* Admission by consent of instructor. Small vocal groups created for performance of various types of ensemble music. May be repeated for credit.

MUSC 3261 Jazz Ensemble (1 credit)—*Prerequisite(s): Two semesters of MUSC 1261 and upper-division standing.* Open to all students by consultation with instructor. Study devoted to jazz and pop styles. Attention given to improvisation and understanding of stylistic problems.

MUSC 3262 Advanced Jazz Combo (1 credit)—Advanced study of small jazz combo performance. Permission of instructor. Two semesters of MUSC 1262 and upper-division standing.

MUSC 3271 Instrumental Chamber Group (1 credit)—*Prerequisite(s): Two semesters of MUSC 1271 and upper-division standing.* Admission by consent of instructor. Study and performance of music for small instrumental ensembles. May be repeated for credit.

MUSC 3272 Accompanying (1 credit)—*Prerequisite(s): two semesters of MUSC 1271 and upper-division standing.* Designed to provide ensemble experience for keyboard majors. Students will be assigned to accompany singers or instrumentalists under the supervision of applied music instructors. The accompanists will attend lessons, rehearse outside of lesson times, and play for juries and other performances as assigned. May be repeated for credit.

MUSC 3310 Music Skills and Concepts (2 credits)—The development of skills necessary for the teaching of music in the elementary classroom, including music reading, playing, and appreciation.

MUSC 3420 Modal Counterpoint (2 credits)—*Prerequisite(s): MUSC 2420 and MUSC 2421.* The study and writing of modal counterpoint style from two voices through major forms.

MUSC 3430 Tonal Counterpoint (2 credits)—*Prerequisite(s): MUSC 2420 and MUSC 2421.* The study and writing of tonal counterpoint style from two-part compositions through major forms.

MUSC 3540 Music History Survey III (3 credits)—*Prerequisite(s): MUSC 2420 and 2550.* Music from 1760 through circa 1890.

MUSC 3550 Music History Survey IV (3 credits)—*Prerequisite(s): MUSC 3540.* Music from 1890 to the present.

MUSC 3570 Introduction to Conducting (2 credits)—*Prerequisite(s): MUSC 2420 and 2421.* An introduction to the skills used by conductors of choral and instrumental ensembles.

MUSC 3580 Choral Conducting (2 credits)—*Prerequisite(s): MUSC 3570.* Study of choral conducting techniques with practical application in a rehearsal environment.

MUSC 3590 Instrumental Conducting (2 credits)—*Prerequisite(s): MUSC 3570.* The controlling and expressive gestures of the conductor of the instrumental ensemble. Interpretation, score study, balance, and conducting styles will be discussed as pertinent to specific repertoire from fundamental technique to advanced practice.

MUSC 3739 Piano Literature I (1 credit)

MUSC 3740 Piano Literature II (1 credit)

MUSC 3741 Piano Literature III (1 credit)

MUSC 3901 Applied Piano Level III (1-2 credits)

MUSC 3911 Applied Winds Level III (1-2 credits)

MUSC 3921 Applied Strings Level III (1-2 credits)

MUSC 3941 Applied Voice Level III (1-2 credits)

MUSC 3951 Applied Percussion Level III (1-2 credits)

MUSC 3989 Cooperative Education (1-3 credits)

MUSC 4018 Honors Thesis (3 - 6 credits)—Open to those in university honor programs only. A capstone experience serving as the culmination of an honors curriculum.

MUSC 4470 Composition (2 credits)—*Prerequisite(s): MUSC 2421.* Class participation and private conference. Original composition with projects based on student's degree of skill and advancement. May be repeated for credit.

MUSC 4510 The Teaching of Music in the Elementary School (3 credits)—The role of the music teacher in the presentation of music experiences in the elementary school (K - 6).

MUSC 4520 The Teaching of Music in the Secondary School (3 credits)—*Prerequisite(s): MUSC 4510.* A comprehensive analysis of the secondary choral program, including general music.

MUSC 4560 Jazz Pedagogy (2 credits)—A survey of pedagogical methods and materials for beginning jazz studies, including jazz theory and improvisation, jazz history and styles, jazz piano, program planning and administration, instrumental performance, rehearsal techniques, resources, and arranging.

MUSC 4570 Marching Band Methods (3 credits)—Survey of marching techniques and systems. Emphasis on the creative approach to the composition of the field band show. Charting techniques, formation analysis, and instrument placement will be practiced.

MUSC 4571 Marching Band Practicum (1 credit)—*Prerequisite(s): Music 4570.* This 30-hour practicum is a hands-on, laboratory experience working with an area high school band director and marching band. Students assist/teach in a rehearsal setting. Course provides opportunity to learn and experience leadership and administrative qualities and curriculum goals needed to successfully teach a high school marching band program. This course is for instrumental music education majors.

MUSC 4580 Organization and Administration of Instrumental Music (3 credits)—A detailed study of organization, budget, recruiting, and general administration of the instrumental music program in the schools.

MUSC 4600 Orchestration and Arranging (2 credits)—*Prerequisite(s): MUSC 2420 and MUSC 2421; piano proficiency.* A study of band and orchestra instruments with exercise in scoring for small and large ensembles.

MUSC 4601 Vocal Pedagogy (2 credits)—*Prerequisite(s): Two years of vocal study.* The study of the principles, techniques, and materials for developing effective singing, including anatomy of the vocal mechanism, problems of breath control, concept of tone, diction, and principles of song interpretation.

MUSC 4610 Vocal Arranging (2 credits)—*Prerequisite(s): MUSC 4600.* Experience in arranging music for various vocal groups, including choir, jazz band, and jazz singers.

MUSC 4617/5617 Teaching Beginning Piano (3 credits)—*Prerequisite(s): Level II—standing in piano or permission of instructor.* Examination of methods and materials used in beginning-level piano instruction of adults and children.

MUSC 4627/5627 Teaching Intermediate Piano (3 credits)—*Prerequisite(s): Level II—standing in piano or permission of instructor.* Examination, guided instruction, and performance of literature used in intermediate-level piano instruction.

MUSC 4637/5637 Piano Pedagogy Practicum (1 credit)—*Prerequisite(s): Level II—standing in piano or permission of instructor.* Supervised teaching experience with the beginning piano student. Students will plan, implement, and evaluate instruction. Meets one (1) clock hour per week.

MUSC 4720 Art Song Literature (2 credits)—A survey of solo vocal literature from the 17th century to the present, including French, German, British, and American repertoire.

MUSC 4730 Choral Literature (3 credits)—Survey of important choral works from Renaissance to the present.

MUSC 4740 Keyboard Literature and Pedagogy (3 credits)—A survey of the basic literature of the harpsichord and piano performance, analysis, and research. A study of pedagogical methods and materials.

MUSC 4750 Brass Literature (3 credits)—A survey of brass literature, performance, analysis, and research.

MUSC 4751 Brass Pedagogy (3 credits)—A survey of pedagogical methods and materials for brass instruments.

MUSC 4760 Woodwind Literature (3 credits)—A survey of woodwind literature, performance, analysis, and research.

MUSC 4761 Woodwind Pedagogy (3 credits)—A study of pedagogical methods and materials for woodwind instruments.

MUSC 4770 Percussion Literature (3 credits)—A survey of percussion literature, performance, analysis, and research.

MUSC 4771 Percussion Pedagogy (3 credits)—A study of pedagogical methods and materials for percussion.

MUSC 4780 String Literature and Pedagogy (3 credits)—A survey of string literature, performance, analysis, and research. A study of pedagogical methods and materials.

MUSC 4810 Introduction to Suzuki Philosophy (2 credits)—*Prerequisite(s): Permission of instructor.* This course is an exploration of the historical development of the Suzuki Method, the Suzuki philosophy as it pertains to how children learn, and Suzuki methodology.

MUSC 4820 Suzuki Pedagogy (2 credits)—*Prerequisite(s): Permission of the instructor.* This course develops performance skills and pedagogical

understanding of the sequential Suzuki repertoire. Observations of Suzuki lessons and classes are included in the field work for this course.

MUSC 4840 Teaching Practicum I (1 credit)—*Prerequisite(s): MUSC 4820 or equivalent.* An introductory experience in teaching the Suzuki Method, operating in a controlled, supervised setting.

MUSC 4850 Teaching Practicum II (1 credit)—*Prerequisite(s): MUSC 4840 or the equivalent.* An advanced experience in Suzuki teaching. Involves teaching Suzuki students through the ETSU Suzuki Studies Program.

MUSC 4910 Independent Study (1-3 credits)—*Prerequisite(s): Contract must be on file prior to registration.* Contract available in Mathes Hall, Room 100. Individual research, under the direction of a member of the music faculty.

MUSC 4957 Special Topics in Music (1-6 credits)

MUSC 4989 Cooperative Education (1-3 credits)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

MUSC 5020	History & Philosophy of Music Education	(3 credits)
MUSC 5030	Basic Concepts in Music Education	(3 credits)
MUSC 5040	Techniques of Research in Music Education	(3 credits)
MUSC 5071	Seminar In Orff-Schulwerk	(3 credits)
MUSC 5072	Seminar In Kodaly Concepts	(3 credits)
MUSC 5110	Theory Practicum	(3 credits)
MUSC 5120	Theory Pedagogy I	(3 credits)
MUSC 5210	Seminar in the History of Instrumental Music	(3 credits)
MUSC 5220	Seminar in the History of Vocal Music	(3 credits)
MUSC 5310	Advanced Methods and Materials of Choral Art	(3 credits)
MUSC 5330	Advanced Choral Conducting	(3 credits)
MUSC 5340	Seminar in Instrumental Music Education	(3 credits)
MUSC 5350	Advance Instrumental Conducting	(3 credits)
MUSC 5500	Graduate Applied Music	(1-2 credit)
MUSC 5510	Secondary Applied Music	(1-2 credit)
MUSC 5520	Graduate Ensemble	(1 credit)
MUSC 5617	Teaching Beginning Piano	(3 credits)
MUSC 5627	Teaching Intermediate Piano	(3 credits)
MUSC 5810	Suzuki Philosophy	(2 credits)
MUSC 5820	Suzuki Pedagogy	(2 credits)
MUSC 5840	Teaching Practicum I	(1 credit)
MUSC 5850	Teaching Practicum II	(1 credit)
MUSC 5960	Thesis	(1-3 credits)
MUSC 5990	Readings and Research	(1-3 credits)

Nutrition and Foods

NFTD

NFTD 2415 Art and Science of Food Preparation (3 credits)—Basic menu planning processes and food preparation techniques for all classifications of foods, with consideration given to the nutritional needs and culinary preferences of diverse populations.

NFTD 2420 Principles of Nutrition (3 credits)—Introduction of scientific nutrition principles with emphasis on nutritional requirements, dietary sources of nutrients, nutrient utilization, and the impact of nutrition on energy intake and weight control, fitness, disease prevention, the life cycle, food technology, food safety, and the environment. (fall, spring)

NFTD 3430 Community Nutrition (3 credits)—Current trends in nutrition programs on the local, state, and national levels. Methods used to assess nutritional needs of populations. Influence of socioeconomic, cultural, and psychological factors on food and nutrition behavior of groups within a community. (fall, spring)

NFTD 3440 Quantity Food Procurement and Production (4 credits)—*Prerequisite(s): NFTD 2415.* Application of menu writing and design, quantity food procurement, production planning, preparation, distribution, and evaluation in food service operations. Menu planning and analysis as the basis for control within the food service is emphasized, and sanitation and safety within the commercial food service operation are explored. This course has a three hour lab which provides hands-on food service experiences for the students. (spring)

NTFD 3465 Human Nutrition and Metabolism (3 credits)—*Prerequisite(s):* NTFD 2420. A comprehensive study of digestion, absorption, excretion, and storage of nutrients in the adult human with emphasis on digestive and endocrine physiology. (spring)

NTFD 3485 Basic Skills in Dietetics Practice (2 credits)—Explores governance and the code of ethics for the profession of dietetics, incorporating application of the nutrition care process in clinical and preventive health care settings, and development of negotiation and advocacy skills for improved patient care

NTFD 4415 Food Systems Administration (3 credits)—*Prerequisite(s):* NTFD 2415. Study of commercial food service operations and food delivery systems. Includes trends in food service operations and delivery, management theory, menu development for diverse groups, and marketing of food and nutrition services.

NTFD 4425 Clinical Nutrition I (3 credits)—*Prerequisite(s):* NTFD 3465 HSCI 2020/21. Principles of clinical dietetics management, medical terminology, medical documentation, design, and implementation of nutrition care plans. Begin the application of principles of clinical nutrition to prevention and treatment of disease, drug-nutrient interaction, nutritional assessment, and nutritional support. (fall)

NTFD 4437 Clinical Nutrition II (3 credits)—*Prerequisite(s):* NTFD 4425. Assessment, diagnosis, intervention, monitoring and evaluation of the patient with complicated disease states. Nutritional risk screening and nutritional treatment options to meet varying disease states and stages, and the role of the registered dietitian and medical nutrition therapy are discussed.

NTFD 4447/5447 Nutritional Biochemistry (3 credits)—*Prerequisite(s):* NTFD 3465; HSCI 2020/21. A study of nutrition as the science that integrates life processes from the cellular level on through the multi-system operation of the total organism. The focus will be on current trends in normal biochemical and physiological human nutrition. (fall)

NTFD 4475 Food Systems Operations (3 credits)—*Prerequisites:* NTFD 3440 and NTFD 4415. Business theories, management principles, decision-making, and control of food service operations. Includes cost and quality analysis of food service delivery, financial management of food service operations, and personnel and staffing controls.

NTFD 4535 Field Studies (3-9 credits)—Supervised field studies in student's major area of interest. May be repeated for a total of 6 credits.

NTFD 4465 Experimental Food Science (3 credits)—*Prerequisite(s):* NTFD 2415 CHEM 1120/21. Experimental study of ingredient functions and factors affecting product quality; development of food products suitable for diverse clientele; interpretation, evaluation, and use of professional literature to inform research methods and product development.

Department of Kinesiology, Leisure and Sport Sciences PEXS/PHED

FITNESS ACTIVITIES

(All courses in the Active Lifestyles and Wellness Program [PHED courses] are repeatable for credit.)

PHED 1115 Aerobics (1 credit)—This course offers various aerobic-style exercises to music. The purpose is to develop a healthy lifestyle, develop and maintain aerobic fitness, and understand the fundamentals of aerobic training and conditioning.

PHED 1120 AquaFitness (1 credit)—This course is taught on a very individualized basis in order to accommodate different skill and comfort levels, as well as a range of health problems. The major purpose of the course is to encourage participants to exercise in the pool on a regular basis and to adopt this activity as a routine part of their lifestyle.

PHED 1130 Fitness for Life (2 credits)—The Fitness for Life course presents specific activities, workout sessions, and health/fitness assessments

through lectures and demonstrations. This course is composed of three elements, fitness assessment, lectures and demonstrations concerning principles of fitness, and fitness activity sessions. The purpose of the course is to help students develop and maintain a holistic fitness lifestyle. There is an additional fee associated with this class.

PHED 1135 General Conditioning (1 credit)—This course is designed to enable the student to design and implement a personal conditioning program within the context of the class. This course includes both general cardiovascular and strength conditioning.

PHED 1137 Fitness Walking (1 credit)—This course enables students to design and implement a personal walking conditioning program. This course concentrates primarily on the use of fitness walking as a means of improving cardiovascular efficiency.

PHED 1140 Strength Conditioning (1 credit)—The theory and techniques of strength conditioning, including those to improve health, endurance, body composition, and muscular strength. This course will allow the student to develop muscle bulk and tone through the weight lifting process. Muscle toning and shaping are the primary objectives of the course. However, students should expect to realize a significant increase in muscular strength.

PHED 1150 Weight Management Exercise (1 credit)—This course is designed for people who feel a need to lose weight. Students will participate in a weight loss program involving an assessment component (body fat analysis, diet counseling, etc.) and an individual exercise program. Program guidelines are provided by the American College of Sports Medicine. There is an additional fee associated with this class.

LIFETIME ACTIVITIES

PHED 2100 Relaxation for Health (1 credit)—This course instructs students in the practices of utilizing basic relaxation techniques for health and wellness.

PHED 2205 Archery (1 credit)—This course is designed to give students the rudimentary skills in shooting a bow and arrow, including skills, and knowledge of rules and strategies.

PHED 2210 Badminton (1 credit)—Students will be introduced to the fundamentals of badminton and learn to use the basic strokes of the serve (short and long) drive and clear strokes (forehand and backhand) to play a match. Students will learn proper court positions for executing these strokes and effective movement and court coverage. Some attention will be given to badminton terminology, etiquette, and match procedures so that students can conduct matches properly.

PHED 2215 Basketball (1 credit)—This course is designed to help students develop rudimentary skills in basketball such as dribbling, passing, shooting, and the development of offensive and defensive strategies.

PHED 2225 Bowling (1 credit)—Students will learn beginning bowling skills, rules, and strategies required to enjoy recreational bowling. There is an additional fee associated with this class.

PHED 2230 Fencing (1 credit)—Designed to allow students to develop fundamental skills in foil fencing. Students will learn the mechanics and strategies of fencing, as well as develop elementary judging skills. Foils, jackets, and masks are provided.

PHED 2233 Disc Sports (1 credit)—In this course, the skills needed for successful participation in disc sports will be presented. The skills will be applied along with the rules and strategies needed to participate in the disc sports of Ultimate, disc golf and other disc-related activities.

PHED 2235 Golf (1 credit)—This course will present the history, rules, skills, and techniques of golf. Students will learn fundamental golf skills (driving, pitching, chipping, and putting) throughout the semester and should be able to execute these skills at a proficient level through practice and individual play.

PHED 2255 Racquetball (1 credit)—This course will present the history, rules, skills, and techniques of racquetball. The student will develop racquetball skills throughout the semester and should be able to execute these skills at a proficient level through practice and tournament play.

PHED 2260 Softball (1 credit)—This course is designed to give students a foundation of fundamental skills and knowledge related to the game of slow-pitch softball.

PHED 2265 Soccer (1 credit)—This is a course designed to give students a foundation of fundamental skills and knowledge related to the game of soccer.

PHED 2270 Tennis (1 credit)—Students will be introduced to the fundamentals of tennis and learn to use basic strokes of the serve, return of serve, and ground strokes (forehand and backhand) to play a match. Students will learn proper court positions for executing these strokes and effective movement and court coverage. Some attention will be given to tennis terminology, etiquette, and match procedures so that students can conduct matches properly.

PHED 2275 Advanced Tennis (1 credit)—*Prerequisite(s): beginning tennis or display of tennis skills.* This course will present advanced tennis skills. Students will learn advanced strategies and rules for playing tennis.

PHED 2280 Volleyball (1 credit)—Knowledge, skills, and methods of power volleyball activities are taught. Emphasis will be placed on rules and beginning skills.

PHED 2305 Karate (1 credit)—History, knowledge, skills, and strategy involved in the study of classical karate and self-defense. Special emphasis will be placed on skills and strategy. There is an additional fee associated with this class.

PHED 2310 Judo (1 credit)—This course is designed to introduce Kodokan Judo in a traditional manner. Basic throws, choking, and blocking techniques will be taught. Training methods, ranking, protocol, and contest rules of the International Judo Federation will be used throughout the course. There is an additional fee associated with this class.

PHED 2315 Self-Defense (1 credit)—Basic strategy and skills used in self-defense. Special emphasis will be placed on developing a proper attitude toward self-defense and preventive measures in avoiding confrontations, as well as initiating self-defense techniques for escape. There is an additional fee associated with this class.

PHED 2400 Beginning Swimming (1 credit)—The purpose of this course is for students to learn beginning swimming skills and any additional swimming skills that can be completed during the semester.

PHED 2410 Advanced Swimming (1 credit)—*Prerequisite(s): beginning swimming or display of swimming skills.* This course will present advanced swimming skills primarily in the form of stroke work. The primary strokes taught will be the front crawl, breast stroke, side stroke, butterfly, and elementary back stroke. Pre-lifeguarding skills will also be developed.

PHED 2420 Lifeguarding (2 credit)—This course is designed to provide students with the skills and knowledge to meet certification requirements of the American Red Cross.

PHED 2430 Water Safety Instructor (3 credits)—This course is designed to fulfill the requirements of the American Red Cross for certification as a swimming instructor.

PHED 2440 Scuba (1 credit)—*Prerequisite(s): The scuba course is designed to provide basic instruction in snorkeling and scuba diving.* This course will lead to open water certification following the satisfactory completion of the written examination and checkout dive in open water. Certification is optional. There is an additional fee associated with this class.

PHED 2441 Advanced SCUBA Diving (1 credit)—*Prerequisite(s): Completion of PHED 2440 or equivalent certification and permission of instructor.* This course is designed to provide the Open Water Diver with advanced

SCUBA skills obtained through additional classroom presentations beyond the basic level and at least five (5) open water SCUBA dives. The Advanced Open Water candidate will develop a more in-depth understanding of equipment, techniques, and safety factors associated with safely enjoying an advanced level of sport SCUBA diving.

PHED 2505 Camping and Canoeing (2 credit)—Designed to provide the students with camping and canoeing knowledge and skills through practical experience. Includes types of camping equipment, improvised equipment, and outdoor cooking. There is an additional fee associated with this class.

PHED 2507 Kayaking (1 credit)—This course is designed to provide the student with the knowledge and skills needed to participate in and enjoy kayaking as a recreational lifetime activity. Special emphasis will be given to the development of sound fundamental knowledge and skills such as paddling and steering techniques; rolling; fitting, care and use of equipment; personal safety skills; and reading moving water. Due to the nature of this course, all students will be required to make class field trips to paddling sites in the surrounding area. This course will be offered in conjunction with the Center for Physical Activity and will involve additional cost to cover the use of equipment and travel to paddling sites in the area.

PHED 2509 Kayak Touring (1 credit)—This course is designed to provide the student with the knowledge and skills needed to participate in and enjoy kayaking touring as a recreational lifetime activity. Special emphasis will be given to the development of sound fundamental knowledge and skills such as paddling and steering techniques; multi-day trip planning; packing equipment in the kayak; fitting, care and use of equipment.

PHED 2510 Horseback Riding/Equitation (1 credit)—General riding and equestrian skills are taught at the riding stables in Jonesborough, Tennessee. There is an additional fee associated with this class.

PHED 2515 Marksmanship (1 credit)—A study and application of the basic fundamentals of rifle and pistol marksmanship, to include safety. Students must supply their own ammunition.

PHED 2520 River Rafting (1 credit)—This course is designed to provide students with the knowledge and skills needed to participate in and enjoy river rafting as a recreational lifetime activity. Special emphasis will be given to the development of sound fundamental knowledge and skills such as paddling and steering techniques, selection, care and use of equipment, personal safety skills, and reading white water. Due to the nature of this course, all students will be required to make class field trips to rivers in the surrounding area.

PHED 2525 Rock Climbing (1 credit)—This course is designed to provide students with the knowledge and skills needed to participate in and enjoy basic rock climbing and rappelling. Special emphasis will be given to the development of sound fundamental knowledge and skills, such as knots and their uses, understanding the belay system, selection, care and use of equipment, and basic rock climbing and rappelling technique. Due to the nature of this course, all students will be required to make class field trips to different climbing locations in the surrounding area.

PHED 2527 Caving (1 credit)—This course is designed to provide the student with the knowledge and skills needed to participate in and enjoy caving as a recreational lifetime activity. Special emphasis will be given to the development of sound fundamental knowledge and skills such as equipment selection, use and management, descending and ascending techniques, selection of personal equipment, safety, basic cave mapping techniques, and understanding and appreciating the cave environment. Additional emphasis will be given to development of a socially responsible attitude toward use of natural resources. Due to the nature of this course, all students will be required to make class field trips to caving sites in the surrounding area. This course will be offered in conjunction with the

Center for Physical Activity and will involve additional cost to cover the use of equipment and travel to caving sites in the area.

PHED 2530 Mountain Biking (1 credit)—This course is designed to provide students with the knowledge and skills needed to participate in and enjoy mountain biking as a lifetime activity. Special emphasis will be given to the development of sound fundamental knowledge and skills such as selection, care and use of equipment, riding techniques, basic bike repairs, personal safety skills, and riding with environmental awareness. Due to the nature of this course, all students will be required to make class field trips to different trail and mountain biking locations in the surrounding area.

PHED 2535 Canoeing (1 credit)—This course is designed to provide students with the knowledge and skills needed to participate in and enjoy canoeing as a lifetime activity. Special emphasis will be given to the development of sound fundamental knowledge and skills such as selection, care and use of equipment, both solo and tandem paddling techniques, transporting a canoe, personal safety skills, and reading moving water. Due to the nature of this course, all students will be required to make class field trips to different lakes and rivers in the surrounding area.

PHED 2540 Snowboarding (1 credit)—This course is designed to provide students with the knowledge and skills needed to participate in and enjoy snowboarding as a lifetime activity. Special emphasis will be given to the development of sound fundamental knowledge and skills such as selection, care and use of equipment. Due to the nature of this course, all students will be required to make class field trips to different snowboarding sites in the surrounding area.

PHED 2545 Snow Skiing (1 credit)—A practical learning experience dealing with snow skiing. Students take lessons from a certified ski instructor through the French Swiss Ski School in Blowing Rock, North Carolina. Students have an opportunity to ski different slopes in North Carolina. There is an additional fee associated with this course.

PHED 2550 Orienteering (1 credit)—Orienteering is an outdoor activity in which the participant utilizes the skills of topographic map reading and following directions by compass or other means to navigate over unfamiliar terrain. The skills of orienteering can be used to enjoy many outdoor pursuits such as camping, backpacking, hiking, cross-country skiing, fishing, and hunting, or the “sport” of orienteering.

PHED 2553 Backpacking (1 credit)—This course is designed to provide students with the knowledge and skills needed to participate in and enjoy backpacking as a recreational lifetime activity. Special emphasis will be given to the development of sound fundamental knowledge and skills such as selection, care and use of backpacking equipment, tents and their uses, fire building and cooking, menu and trip planning, personal safety skills, and backpacking with environmental awareness. Due to the nature of this course, all students will be required to make class field trips.

PHED 2555 Outdoor Living Skills (1 credit)—This course is designed to provide students with the knowledge and skills needed to participate in and enjoy outdoor living as a recreational lifetime activity. Special emphasis will be given to the development of sound fundamental knowledge and skills, such as selection, care and use of equipment, tenting, fire building and cooking, menu and trip planning, personal safety skills, and camping with environmental awareness. Due to the nature of this course, all students will be required to make class field trips.

Kinesiology, Leisure and Sport Sciences

Major-Minor Courses

PEXS 2701 Aquatics (1 credit)—Knowledge, skills, and methods of basic water safety, survival, and rescue techniques.

PEXS 2955 Care and Prevention of Athletic Injuries (3 credits)—Basic principles in the prevention, recognition, and care of athletic injuries are presented. Students will also learn the duties of an athletic trainer and sports medicine team. \$20 lab fee required.

PEXS 3000 Physical Education Programs for the Elementary Schools (3 credits)—Study of the curricular content of the elementary school physical education program which includes components relating to the development of physical fitness, perceptual motor skills, rhythmical movement education, and educational game activities. This course is for students in elementary education programs. Field experience is required.

PEXS 3005 Instructional Delivery Techniques for Movement (3 credits)—The purpose of this course is to assist prospective teachers and movement instructors in acquiring the fundamental knowledge and skills needed to promote learning. Opportunities will be provided for students to learn and practice the essential skills of effective instruction and delivery. Instruction will be provided to assist students in developing the skills of reflective thinking, problem solving, and working with individuals with different cultural perspectives.

PEXS 3008 Honors Service-Learning (1 credit)—*Prerequisite(s): Admission to the College of Education's honors program and HDAL 2008.* Honors service-learning in social/cultural agencies and programs related to education.

PEXS 3021 Theory and Techniques of Coaching Tennis (2 credits)—An introduction to the organization and administration of a tennis team.

PEXS 3022 Theory and Techniques of Coaching Track and Field (2 credits)—Theory and practice of the techniques involved in coaching track and field.

PEXS 3032 Psychomotor Development in Children (3 credits)—This course will provide instruction in the psychomotor development of children, with special consideration for capabilities, diagnostic tests, and perceptual-motor programs. Field experience is required.

PEXS 3061 Theory and Techniques of Coaching Basketball (2 credits)—Theory and practice in the coaching of basketball. Emphasis will be placed on coaching philosophies, fundamental skills, and offensive and defensive strategies.

PEXS 3062 Theory and Techniques of Coaching Volleyball (2 credits)—Theory and practice in coaching fundamentals of power volleyball. Emphasis will be on coaching philosophies, basic skills, and strategies.

PEXS 3071 Theory and Techniques of Coaching Football (2 credits)—Theory and practice in the coaching of football. Emphasis will be on coaching philosophies, fundamentals, psychology, and strategies.

PEXS 3072 Theory and Techniques of Coaching Baseball (2 credits)—Theory and practice in coaching fundamentals of baseball. Emphasis will be placed on coaching philosophies, basic skills, and strategies.

PEXS 3080 Teaching Aerobic Conditioning (3 credits)—Includes the theory and teaching techniques of the principles of aerobic fitness as it relates to exercise to music (aerobic dance), exercise in water (aqua fitness), and jogging/running. These components will be incorporated into a conditioning program designed to bring improvement in health relative to flexibility, body composition, and cardiovascular endurance.

PEXS 3085 Teaching Rhythms and Gymnastics (3 credits)—This course will present a broad base of information as it relates to fundamental movement skills, teaching techniques, and vocabulary basic to elementary rhythmical activities.

PEXS 3095 Teaching Sports Skills (3 credits)—The purpose of this course is to teach students performance and instructional skills for selected individual, dual, and team sports.

PEXS 3510 Foundations of Physical Education and Sport (3 credits)—This course is designed as an introduction to the historical, philosophical and sociological foundations of physical education and sport.

PEXS 3610 Exercise Physiology I (3 credits)—*Prerequisite(s): HSCI 3000 and HSCI 3020.* The study of the physiological responses and adaptations of the human body to exercise and training.

PEXS 3850 Scientific Basis of Human Performance (4 credits)—*Prerequisite(s): HSCI 2010/11 or HSCI 2020/21.* This course is designed to provide a student with an understanding of the scientific principles of human performance. Students will learn how training and detraining affect various aspects of an individual's physiological, biochemical, and biomechanical performance attributes.

PEXS 4001 Teaching Sports Skills II (3 credits)—The purpose of this course is to teach students performance and instructional skills for selected team sports.

PEXS 4007/5007 Elementary Physical Education Methods (3 credits)—*Prerequisite(s): PEXS 3005, PEXS 3032, and admitted to Teacher Education.* This course is designed to provide instruction and experiences in program content, teaching methods, and learning styles for developmentally appropriate physical education program for children ages 5 to 19. Emphasis will be placed on movement education, rhythm, body management, fundamental motor skills, and fitness/wellness appropriate to the kindergarten through fifth grade child. Field experiences will include working with students at University School during class time, as well as observing for twenty (20) hours at designated elementary schools.

PEXS 4018 Honors Thesis (3-6 credits)—Open to those in university honor programs only. A capstone experience serving as the culmination of an honors curriculum.

PEXS 4060 Measurement and Evaluation in Physical Education (3 credits)—A course designed to acquaint future teachers with techniques of evaluating and measuring the process of physical education and the psychomotor, cognitive, and affective domains of the student.

PEXS 4061 Exercise Fitness Testing (3 credits)—(PEXS 3610 can be taken concurrently.) The purpose of this course is to provide knowledge in exercise testing and prescription for healthy populations. Students will develop the skills and technical procedures necessary in the training of exercise fitness technologists. Hands-on experience will be available in the following: underwater weighing, VO₂ max testing, treadmill, ergometer cycle, and other laboratory tests and equipment.

PEXS 4062 Cardiovascular Exercise Testing and Electrocardiography (3 credits)—This course is designed to provide the student with the background needed to function as a clinical exercise specialist. Additionally, the course will provide the background to allow the student to obtain exercise specialist or other clinical specialty certifications, offered by the American College of Sports Medicine and other internationally recognized organizations.

PEXS 4150 Special Olympics Coaching (3 credits)—Designed to provide students with the knowledge and skills necessary to apply for coaching certification through Special Olympics International, Inc., in the areas of bowling, aquatics, and athletics. Approximately one-third of the course will be a field experience working with Special Olympic athletes.

PEXS 4250 Physical Education Activities for Atypical Populations (3 credits)—*Prerequisite(s): PEXS 3005 and PEXS 3032.* A study of the legal, medical, and educational bases for physical activity programs for individuals with disabilities, with emphasis on evaluation, placement, and instruction. Field experience is required.

PEXS 4270 Structural Kinesiology (3 credits)—*Prerequisite: Required: HSCI 3000, Recommended: HSCI 3020, physics.* An introduction to the study of the anatomical bases of human movement, with emphasis on bone growth and development, joint structure and movement potential, and muscular involvement during movement.

PEXS 4370 Exercise and Sport Psychology (3 credits) — This course examines how individuals behave in physical activity, exercise, and sport settings. Psychological antecedents and consequences of primary

and secondary involvement in exercise, sport, and related physical activities will be introduced.

PEXS 4600 Athletic Coaching Practicum (3 credits)—*Prerequisite(s): See department.* Provides the student with the opportunity to be actively involved in a middle, junior high, or secondary coaching experience. Includes the application of theoretical knowledge to practical situations.

PEXS 4620 Exercise Physiology II (3 credits)—*Prerequisite(s): BIOL 1110/11, CHEM 1310/11, CHEM 1320/21, HSCI 3000/20, PEXS 3610.* This course presents a foundation for understanding the underlying mechanisms behind the physiological and biochemical acute responses to exercise and also discusses the long-term physiological and biochemical adaptations to exercise.

PEXS 4630 Exercise Science Internship I (6 credits)—*Prerequisite(s): PEXS 3610, PEXS 3695, PEXS 4061 and permission of instructor.* This course is designed to provide the student with an actual worksite experience in the area of exercise science. The internship experience will require a minimum of 240 hours of field experience.

PEXS 4631 Exercise Science Internship II (6-12 credits) —*Prerequisite(s): PEXS 3610, PEXS 3695, PEXS 4061, and permission of instructor.* This course is the second in a series designed to provide the student with an actual worksite experience in the area of exercise science. The internship experience will require a minimum of 240 hours of field experience.

PEXS 4650 Strategies in Developing Wellness Programs (3 credits)—*Prerequisite(s): PEXS 3650.* This course was designed to provide students with an opportunity to evaluate current wellness program strategies at the educational (K-12 initiatives), university, community, corporate, and clinical setting.

PEXS 4656 Sport Conditioning and Training (3 credits) —*Prerequisite: PEXS 3610 Exercise Physiology I.* The study of the theory and application of biomechanics and sport science and the development of strength and conditioning programs for a given sport or athlete.

PEXS 4657 Sports Nutrition and Ergogenic Aids (3 credits) — This course is designed to provide the student with an understanding of how to enhance athletic performance with proper nutrition. Examines principles of nutritionally sound diets for endurance, speed and strength-related activities. Special nutritional needs will also be discussed (e.g. gaining muscle mass or lowering body fat content).

PEXS 4700 Secondary PE I Lifetime Wellness (3 credits)—This course is designed to provide content knowledge and methodological skill necessary for the physical education specialist to develop and implement a physical education curriculum for the middle/high school setting. Emphasis will be placed on curriculum planning, sports, physical fitness activities, and dance that are developmentally appropriate for middle/high school students.

PEXS 4717/5717 Secondary Wellness Education (3 credits)—*Prerequisite(s): PEXS 2955, PEXS 3005, PEXS 3032, PEXS 3080, and admission to Teacher Education.* This course provides students with content knowledge and pedagogical skills necessary to teach lifetime wellness in the secondary school.

PEXS 4900 Independent Study (1-3 credits)—*Prerequisite: Completed contract must be on file in department prior to registration.* Designed for students who, under the direction of a KLSS faculty member, wish to engage in independent research or intensive study of pre-determined topic(s).

PEXS 4977/5977 Exercise Management for Persons with Chronic Diseases and Disabilities (3 credits)—*Prerequisite(s): PEXS 3610.* This course will examine chronic diseases and disabilities that occur in many individuals. It is oriented toward understanding the disease, the effects exercise may have on the disease, and modifications to general exercise programs. Annually

Philosophy PHIL

PHIL 1030 Introduction to Philosophy (3 credits)—An introduction to some central philosophical problems concerning free will, the self, science, and reality. (fall, spring, summer)

PHIL 1228 Honors Quest for Meaning and Values II (3 credits)—Open to those in the Honors Scholars Program only. The second part of a humanities course that aims at developing cultural understanding while honing critical reading and writing skills. (spring)

PHIL 2020 Introduction to Ethics (3 credits)—An introduction to some central philosophical problems concerning morality, freedom, and political authority. (fall, spring, summer)

PHIL 2030 Practical Reasoning (3 credits)—An introductory study of formal and informal reasoning in practical contexts (editorials, speeches, advertising, etc.) Also includes a study of syllogistic reasoning, the scientific method, definition, and clear writing. (fall, spring, summer)

PHIL 2040 Philosophy as Conversation (3 credits)—An introduction to philosophy as self-examination. Focus on discussion of the beliefs and values of the students in the class. (fall, spring, summer)

PHIL 2640 Science and the Modern World (3 credits)—A philosophical examination of central ideas of modern science and technology. (fall, spring, summer)

PHIL 3010 History of Ancient Philosophy (3 credits)—*Prerequisite(s): Two (2) PHIL courses at the 1000 - 2000 level, or permission of the instructor.* The development of Western philosophy in the Greek world from the pre-Socratic philosophers to Plotinus. Major emphasis on Socrates, Plato, and Aristotle. (fall)

PHIL 3030 History of Modern Philosophy (3 credits)—*Prerequisite(s): Two (2) PHIL courses at the 1000 - 2000 level or permission of the instructor.* An examination of European philosophical thought from approximately 1600 to 1850. Figures to be studied include Descartes, Spinoza, Locke, Hume, and Kant. (spring)

PHIL 3050 Symbolic Logic (3 credits)—*Prerequisite(s): Two (2) PHIL courses at the 1000 - 2000 level or permission of the instructor.* Introduction to modern logic. This course explores the formal nature of language and reasoning. Propositional logic, predicate logic, and related topics. (fall, odd years)

PHIL 3061-63 Philosophy Colloquium (1-3 credits)—*Prerequisite(s): Two (2) PHIL courses at the 1000 - 2000 level or permission of the instructor.* Each semester some important issue, movement, or person of philosophical concern will be studied. May be repeated for up to nine (9) credits. (3061 – spring, odd years; 3062 – fall; 3063, fall, spring)

PHIL 3110 Philosophies of Feminism (3 credits)—*Prerequisite(s): Two (2) PHIL courses at the 1000 - 2000 level or permission of the instructor.* Examination of the major forms of feminist theory and also the role, functions and limitations of theory in addressing gender-related issues. (fall, even years)

PHIL 3120 Existentialism (3 credits)—*Prerequisite(s): Two (2) PHIL courses at the 1000 - 2000 level or permission of the instructor.* Studies in 19th and 20th century existentialism with special emphasis upon its literary expression. Philosophers and writers include Kierkegaard, Ibsen, Dostoevsky, Buber, Marcel, Camus, and Sartre. (fall, odd years)

PHIL 3140 Environmental Philosophy (3 credits)—*Prerequisite(s): Two (2) PHIL courses at the 1000 - 2000 level or permission of the instructor.* Examines the philosophical issues—ethical, metaphysical and epistemological—involved in contemporary discussions of environmental issues. Widely differing approaches will be considered in order to better understand the conflicting interests and values involved in environmental decision-making. (spring, even years)

PHIL 3150 Philosophy of Law (3 credits)—*Prerequisite(s): Completion of one lower division PHIL course.* An exploration of major themes in the Philosophy of Law: the nature of law, judicial reasoning, the moral limits of criminal and tort law, liberty, equality, and justice. (fall, odd years)

PHIL 3160 Native American Thinking (3 credits)—*Prerequisite(s): At least, one PHIL course at the 2000 level or permission of the instructor.* Drawing on the philosophical/religious perspectives of the Lakota, Hopi, Navaho, Nootka, Cherokee, and other native American tribes. This course will examine differing notions of time, place and space, motion, identity, and the holy. (spring, odd years)

PHIL 3170 Philosophy of Mind (3 credits) — *Prerequisites: Two (2) PHIL courses at the 1000 or 2000 level, or permission of the instructor.* A critical survey of the leading theories of mind and their variants, focusing on contemporary issues in the mind-body relation, consciousness, thought and other mental processes, neuroscience, artificial intelligence, and free will. (spring, even years)

PHIL 4017/5017 Ethical Theory (3 credits)—*Prerequisite(s): At least one (1) PHIL course at the 3000 level or permission of the instructor.* History of ethics from ancient Greece to the present. Special emphasis on the theories of Aristotle, Kant, and Mill. (fall)

PHIL 4018 Honors Thesis (3 - 6 credits)—Open to those in university honor programs only. A capstone experience serving as the culmination of an honors curriculum. (fall, spring)

PHIL 4047/5047 Philosophy of Religion (3 credits)—*Prerequisite(s): At least one (1) PHIL or RELI course at the 3000 level or permission of the instructor.* An examination of classical and contemporary discussions of philosophical issues about religion, including the nature of God, of human beings, and of religious truth, and contemporary discussions of religion and atheism. (spring, odd years)

PHIL 4057/5057 Philosophy of Art (3 credits)—*Prerequisite(s): At least one (1) PHIL course at the 3000 level or permission of the instructor.* An introduction to philosophical issues that arise in our attempts to understand the creation, appreciation, and criticism of the various literary, plastic, and performing arts. (spring, even years)

PHIL 4067/5067 Philosophy in Literature (3 credits)—*Prerequisite(s): At least one (1) PHIL course at the 3000 level; or permission of the instructor.* An examination of philosophical issues as they appear in the world's literature, including poetry, fiction, and essays. (fall, even years)

PHIL 4077/5077 Contemporary Continental Philosophy (3 credits) — *Prerequisite: At least one (1) of the following: PHIL 3010 or 3030, or permission of the instructor.* A survey of the developments in European philosophy from the late 19th century to the present. Topics may include phenomenology, hermeneutics, deconstruction, post-structuralism, critical theory, and philosophies of difference. (spring, even years)

PHIL 4087/5087 Topics in Analytic Philosophy (3 credits) — *Prerequisite: At least one (1) PHIL course at the 3000 level or permission of the instructor.* A survey of the developments in analytic philosophy from the late 19th century to the present. Topics may include logical atomism, logical positivism, ordinary language philosophy, naturalism, conceptual analysis, analytic epistemology, analytic metaphysics, and meta-ethics. (spring, odd years)

PHIL 4107/5107 Classical Political Philosophy (3 credits)—*Prerequisite(s): At least one (1) PHIL course at the 3000 level; or permission of the instructor.* An examination of the classical tradition in political thought with emphasis on reading the works of Plato and Aristotle, as well as those of later representatives of this tradition. (fall, even years)

PHIL 4127/5127 Modern Political Philosophy (3 credits)—*Prerequisite(s): At least one (1) PHIL course at the 3000 level; or permission of the instructor.* An examination of modern political thought with emphasis on the Social Contract theories of Hobbes, Locke, and Rousseau and the Utilitarianism of Bentham, Mill, and others. (fall, odd years)

PHIL 4137/5137 Marxism (3 credits)—*Prerequisite(s): At least one (1) PHIL course at the 3000 level; or permission of the instructor.* A study of the basic ideas of Marx and his contemporary interpreters in Eastern Europe, Asia, and the Third World. (spring, odd years)

PHIL 4140 Topic in Political Philosophy (3 credits)—*Prerequisite(s): At least one (1) PHIL course at the 3000 level; or permission of the instructor.* An examination of selected topics in political philosophy chosen by the professor. Course may be repeated, provided that the content of the course significantly varies from previous offerings. (fall, even years)

PHIL 4900 Independent Studies in Philosophy (1-3 credits)—*Prerequisite(s): At least one (1) PHIL course at the 3000 level or permission of the instructor.* (fall, spring)

PHIL 4917/5917 Philosophy of the Biological and Biomedical Sciences (3 credits)—*Prerequisite(s): At least one (1) PHIL course at the 3000 level or permission of the instructor.* Topics of philosophical and theoretical interest generated by the biological and biomedical sciences. Includes consideration of the broader social and cultural implications of biological and biomedical theory. (fall, odd years)

PHIL 4950 Senior Seminar (1-3 credits)—*Prerequisite(s): Senior status or permission of the instructor.* This course focuses on philosophical research and methods and is intended as a capstone course for majors. Students will learn to develop and apply research skills through pursuit of a supervised research project. (spring)

PHIL 4957/5957 Special Topics in Philosophy (1-6 credits) — *Prerequisite(s): At least one (1) PHIL course at the 3000 level or permission of the instructor.* (spring)

- * Cross-listed with ENGL 1218
- ** Cross-listed with ENGL 1228

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

PHIL 5900 Independent Study (1-3 credits)

**Physics
PHYS**

Note: See Astronomy (ASTR) for listing of astronomy courses.

PHYS 1030 Introduction to Physics Survey (4 credits)—Presents an interdisciplinary approach to the physical sciences with a concentration in physics. Relates the role of science to the daily activities of an educated person. Three hours lecture, one hour demonstration/discussion each week. Not open to students who have any previous college credit in any of the physical sciences.

Note: Lecture courses requiring a lab can be taken together or separately, but must both be completed by graduation.

PHYS 2010-20 General Physics I, II- Noncalculus (3, 3 credits)—*Prerequisite(s): MATH 1720, 1840, 1910, 1920, or 2010.* A survey of the topics in classical physics intended primarily for students in pre-professional curricula and majors in various engineering technology concentrations. (Engineering transfer students should take Physics 2110/20.) Topics include mechanics, thermodynamics, waves, electricity and magnetism, and geometric optics. Good working knowledge of algebra and trigonometry is assumed. Heavy emphasis on solutions to numerical problems. PHYS 2010/20 should be taken in sequence. (Many curricula require a laboratory course in physics.) Students in these curricula must also take PHYS 2011/21. Three hours lecture each week.

PHYS 2011-21 General Physics Laboratory - Noncalculus I, II (1, 1 credit)—Experiments dealing with the basic laws of physics, designed to reinforce and supplement concepts learned in general physics. One (2) two hour lab each week.

PHYS 2110-20 Technical Physics I, II - Calculus Based (5 credits ea.)—*Prerequisite(s): One semester of calculus.* A survey of physics for students majoring in technical fields, such as physics, chemistry, engineering, etc. Also intended for pre-professional students (pre-med, pre-dentistry, etc.) who desire a stronger preparation for professional school. Three hours lecture and three hours of laboratory/recitation each week.

PHYS 2810 Statics (3 credits) — *Prerequisites: MATH 1910 and 1920; Corequisite: PHYS 2110.* This is a calculus-based course in applied mechanics of engineering statics. Topics covered will include vectors, Newton’s laws, moments (torque), equilibria of rigid bodies, and aspects of friction. Three hours lecture each week.

PHYS 2820 Dynamics (3 credits) — *Prerequisites: MATH 1910 and 1920; Corequisite: PHYS 2120.* This is a calculus-based course in applied mechanics of engineering dynamics. Topics covered will include kinematic equations of motion, Newton’s laws, rotational motion, energy, collisions, and vibrations. Three hours lecture each week.

PHYS 3010 Mechanics (4 credits)—*Prerequisite(s): PHYS 2110/20.* Statics and dynamics of particles and systems of particle. An introduction to Lagrangian and Hamiltonian formulations of Newtonian mechanics. Three hours lecture and one hour recitation each week.

PHYS 3210 Optics (4 credits)—*Prerequisite(s): PHYS 2110/20.* Geometrical optics including reflection, refraction, dispersion, thin and thick lenses, optical instruments. Physical optics including electromagnetic character of light, interference, diffraction, polarization, and related topics. Three hours lecture and one hour recitation each week.

PHYS 3310 Electrical Measurements (4 credits)—*Prerequisite(s): PHYS 2110/20.* AC/DC circuit analysis, basic electrical measurements, fundamentals of electronic circuits, with applications to devices of special interest. Two hours lecture and two (2) two-hour lab sessions each week.

PHYS 3410 Modern Physics Lab (2 credits)—*Prerequisites: PHYS 2110 and 2120.* PHYS 3410 is an advanced experimental course, structurally similar to lower-level General Physics Labs (PHYS 2011, 2021) offered to non-physics students. It is complementary to upper-level lecture courses including Atomic and Nuclear Physics, Optics, and Electromagnetic Theory. The course consists of a set of experimental problems covering selected topics in particle physics, atomic and molecular structure and wave phenomena.

PHYS 3510 Introduction to Biophysics (3 credits)—*Prerequisite(s): PHYS 2010/20 or PHYS 2110/20.* Underlying principles of physics used to explore and explain biological systems. Techniques discussed include energetics, X-ray analysis, absorption spectroscopy, etc., applied to cellular processes. Three (1) hours lecture or equivalent each week.

PHYS 3610 Introduction to Atomic and Nuclear Physics (3 credits)—*Prerequisite(s): PHYS 2110/20.* A semiquantitative introduction to the physics of the atom and its nucleus: constituent parts of atoms, atomic transmutation, nuclear fission and fusion, and related topics. Three hours lecture each week.

PHYS 3710 Electricity and Magnetism (4 credits)—*Prerequisite(s): PHYS 2110/20.* An intermediate-level course in electromagnetism: electrostatics, dielectrics, magnetic materials and effects, development of Maxwell’s equations. Three hours lecture and one hour recitation each week.

PHYS 4007/5007 Computational Physics (3 credits)—*Prerequisite(s): PHYS 2110/20 or MATH 3200.* This course is designed to cover techniques used in modeling physical systems numerically. Topics include data fitting, error analysis, numerical differentiation and integration, techniques to solve systems of linear equations, ODEs, and PDEs, oscillatory motion and Fourier analysis, and random systems. Prior computer programming experience is desirable, but not mandatory.

PHYS 4018 Honors Thesis (3-6 credits)—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

PHYS 4117/5117 Kinetic and Statistical Physics (4 credits)—*Prerequisite(s): PHYS 2110.* Kinetic theory of an ideal gas, equations of state, distribution of molecular velocities, principles of statistical mechanics, transport phenomena, applications of Boltzmann, Fermi-Dirac, and Bose-Einstein statistics. Three hours lecture and one hour recitation each week.

PHYS 4617/5617 Quantum Physics (4 credits)—*Prerequisite(s): PHYS 3610, PHYS 3010, and senior standing.* An introduction to quantum theory and nonrelativistic quantum mechanics. Historical development of ideas which led to present-day theories, Schrodinger's equation and applications, approximation methods, matrix methods, and related topics.

PHYS 4717/5717 Electromagnetic Theory (4 credits)—*Prerequisite(s): PHYS 3710.* Principles of electromagnetic theory, Maxwell's equations, selected applications, and related topics. Three (1) one credit lectures and one (2) two credit recitation session each week.

PHYS 4850 Seminar in Physics (1 credit)—A weekly two-hour session devoted to current research and/or teaching activities, and other topics of departmental interest. Attendance expected of physics majors. May be taken for credit twice provided student is active contributor to programs.

PHYS 4860 Special Topics in Physics (1-3 credits)—Study of a topic of interest to faculty and undergraduate students. May be repeated for credit (up to a maximum of four credits) provided subject matter is not duplicated.

PHYS 4900 Independent Studies (1-3 credits)—*Prerequisite(s): Prior acceptance by a faculty research advisor.* Independent investigation of a problem of interest to the student, under the guidance of a faculty research advisor. May be repeated (up to a maximum of four credits) provided subject matter is not duplicated.

Physical Therapy PHYT

PHYT 2000 Introduction to Physical Therapy (2 credits)—This course will provide the student interested in physical therapy with an overview of the profession and the opportunities, problems, and realities thereof. Students will learn how their college experiences transfer to the working world and will engage in self-assessment and reflection designed to help the student determine if physical therapy is a good career match. (spring)

Professional Roles/Mental Health Nursing PMNU

PMNU 1010 Orientation to College Life and Nursing as a Major (1 credit)—This course is designed to help the beginning student learn about nursing as a career choice. Journaling and other learning activities will help the student develop skills which lead to positive experiences and success at the university. Elective

PMNU 1015 Survey of Health Care Professionals (2 credits)—This course is an overview of the health care team. Interdisciplinary guest speakers and/or health care facility tours included. Students will have the opportunity to interact directly with a variety of health care professionals. Basic background information of interest to all health-related majors or those considering a major in health disciplines is provided. Elective

PMNU 2020 Introduction to Professional Nursing (3 credits)—*Prerequisite(s): Admission to the nursing major or permission of the department chair; Prerequisite(s) or Corequisite(s): PMNU 2310.* This course is designed to introduce the characteristics of the nursing profession, health care delivery systems, nursing history, process and roles, and to introduce theory, practice, and research concepts. The nursing process and principles that guide practice are explicated. (fall, spring)

PMNU 2310 Communication for Health Professionals (2 credits)—This course is designed to introduce health professions students to the characteristics of effective communication and to develop basic competencies in communication with clients and colleagues in multi-disciplinary settings. (fall, spring)

PMNU 3090 Care of Persons with Psychiatric Disorders (3 credits) — *Prerequisite: Completion of first semester, Junior courses.* Course content focuses on the psychiatric-mental health care of persons across the lifespan as clients within the family and as members of the community.

Emphasis is placed on effective communication, assessment and analysis, planning or nursing strategies, nursing diagnoses, and evaluating outcomes in this client population. (fall, spring)

PMNU 3091 Care of Persons with Psychiatric Disorders Practicum (3 credits) — *Prerequisite or Corequisite: PMNU 3090.* This course offers students opportunities to participate in the psychiatric care of children, adolescents, and/or adults in diverse environments. Students participate in the care of the acutely ill and chronically ill psychiatric patient. (fall, spring)

PMNU 3220 Nursing Theory and Research (3 credits) — *Prerequisite: Statistics course and PMNU 2020.* This course introduces the student to the role of research in evidence-based practice and in the development of nursing knowledge. The evolution of nursing theory is explored with an emphasis on the relationship between research, theory, and nursing practice. (fall, spring, summer)

PMNU/ALNU/FCNU 4008 Honors Mentorship in Nursing (1 credit)—*Prerequisite(s): Acceptance into the College of Nursing Honors in Discipline Program.* An individualized course in which the student collaborates with a mentor to create a program of learning that supports academic and professional goals. May be taken twice for credit. (fall, spring)

PMNU 4017/5017 Health Care Informatics (3 credits)—*Prerequisite(s): Permission of the instructor.* Current and potential applications of the computer to health care are discussed. These same applications are analyzed for their impact on the client, health care professional, and health care delivery system. Requires access to a computer with a browser that facilitates access to the World Wide Web and a university or private sector electronic mail account.

PMNU/ALNU/FCNU 4018 Nursing Honors Thesis (3 or 6 credits)—*Prerequisite(s): Admission to the College of Nursing Honors in Discipline Program, Honors Mentorship in Nursing, or permission of instructor.* An independent course for the senior-level honors student to complete a thesis suitable for presentation. The written paper will demonstrate scholarship, basic understanding of the research process, and relevance to professional trends and issues. (fall, spring)

PMNU 4027/5027 Health Care Law (3 credits)—*Prerequisite(s): Junior level or higher.* This course focuses on the influence of state and federal laws and ethics on patients, practitioners and practice settings. (fall, spring)

PMNU 4060 Transition to Professional Practice (3 credits)—*Prerequisite(s): Completion of first semester, senior courses.* This capstone course concentrates on theories, research and issues related to leadership, change, and management of nursing practice within the broader context of health care delivery. (fall, spring)

PMNU 4061 Senior Practicum (8 credits)—*Prerequisite(s) or Corequisite(s): PMNU 4060.* This capstone clinical course is focused on the preparation of the student for transition to professional nursing practice. (fall, spring)

PMNU 4062 R.N. Practicum (8 credits)—*Prerequisite(s) or Corequisite(s): PMNU 4060 and active license as a registered nurse.* This capstone course is focused on the education of the registered nurse for transition to profession nursing practice. (summer)

PMNU 4900 Nursing Independent Study (1-3 credits)

PMNU 4957/5957 Special Topics in Nursing (1-6 credits)—*Prerequisite(s): Permission of the instructor.* Special topics related to nursing and health care will be presented. Course may include didactic and experiential methods of instruction. May be repeated for credit if course content is significantly different or advanced.

PMNU/ALNU/FCNU 4989 Cooperative Education in Nursing (3 credits)—*Prerequisite(s): Permission of department chair.* This course, with 1-3 credits as arranged, allows the student to spend time in a career-related

work experience. Formal agreements are established by the university and the employer to help students accomplish specific educational outcomes. Course is offered only on a Pass/Fail basis. Elective

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog.

PMNU 5000	Conceptual Systems for Advanced Nursing Practice	(2 credits)
PMNU 5001	Nursing Research and Design	(3 credits)
PMNU 5002	Policy and Ethics in Advanced Nursing Practice	(3 credits)
PMNU 5003	Theories and Concepts in Professional Role Development Seminar	(1 credit)
PMNU 5004	Seminar in Professional Roles	(1 credit)
PMNU 5008	Alternative Health Practices, Theories, & Systems	(2 credits)
PMNU 5050	Health Care Accounting and Finance	(3 credits)
PMNU 5110/6110	Interdisciplinary Approaches	(3 credits)
PMNU 5303	Psychopharmacology	(3 credits)
PMNU 5401	Rural Health Issues	(3 credits)
PMNU 5402	Behavioral Health Concepts for Adults	(3 credits)
PMNU 5403	Behavioral Health Concepts for Adults: Practicum	(3 credits)
PMNU 5404	Advanced Psychiatric Nursing Care I	(3 credits)
PMNU 5405	Advanced Psychiatric Nursing Care I: Practicum	(3 credits)
PMNU 5408	Advanced Psychiatric Nursing Care II	(2 credits)
PMNU 5409	Advanced Psychiatric Nursing Care II: Practicum	(2 credits)
PMNU 5505	Managing Health Care Organizations	(3 credits)
PMNU 5510	Organizational Theory and Nursing Administration	(3 credits)
PMNU 5520	Fiscal Management in Nursing Administration	(3 credits)
PMNU 5525	Health Services Delivery and Organization	(3 credits)
PMNU 5530	Health Care Organization & Law	(3 credits)
PMNU 5550	Human Resource Management in Health Care Organizations	(3 credits)
PMNU 5560	Nursing Administration Practicum I	(2 credits)
PMNU 5570	Nursing Administration Practicum II	(2 credits)
PMNU 5590	Strategic Planning for Health Care	(3 credits)
PMNU 5900	Independent Study	(1-3 credits)
PMNU 5960	Thesis	(1-6 credits)
PMNU 5990	Readings and Research	(1-3 credits)
PMNU 6000	Theoretical Foundations of Nursing Practice	(3 credits)
PMNU 6002	Health Policy Leadership	(3 credits)
PMNU 6020	Advanced Data Analysis	(4 credits)
PMNU 6040	Qualitative Methods in Nursing Research	(3 credits)
PMNU 6100	Philosophy of Nursing Practice	(3 credits)
PMNU 6110	Interdisciplinary Approaches to Bioethical Issues	(3 credits)
PMNU 6960	Doctoral Dissertation	(1-12 credits)
PMNU 6990	Readings and Research	(1-3 credits)

**Political Science
PSCI**

PSCI 1110 Political Life (3 credits)—An encounter through reading, writing, discussion, and other class experiences with the phenomena of political life. Students will be encouraged to confront the orientations, expectations, and action patterns characteristic of situations where human beings attempt to resolve the tension between human needs and social facts.

PSCI 1120 Introduction to American Government (3 credits)—A survey of American government focusing on the United States Constitution, American political culture, political institutions, and policy processes.

PSCI 2210 Introduction to Comparative Politics (3 credits)—An introduction to the comparative study of politics, employing a conceptual, or thematic, approach. The politics of selected countries will be examined, focusing on major features such as governmental institutions, political culture and public policy.

PSCI 2220 Introduction to World Politics (3 credits)—An introduction to the major concepts and themes in the study of international politics designed to provide students with analytical tools for understanding problems and issues in international security, organization and political economy.

PSCI 2610 Introduction to Public Administration (3 credits)—Introduction to contemporary topics in public administration: defining the field, operations of the federal administration, theories of public management, budgeting and staffing. (AP)

PSCI 2989 Cooperative Education (1-3 credits)

PSCI 3000 Peace, Security, and Development (3 credits)—A global political analysis of issues and events which affect the peace, security, and development of human beings in the world community. (IR)

PSCI 3010 Chinese Politics (3 credits)—An introduction to the politics of China and the role of politics in Chinese history, culture and economy. (CP)

PSCI 3030 American Political Parties (3 credits)—A study of the political parties in the United States. The course examines the roles of political parties in elections and in the government, the coalitions and factions that make up the parties, the sources of party division and conflict, and the balance of power between competing political parties. (AP)

PSCI 3050 Interest Groups in American Politics (3 credits)—An examination of the role and influence of interest groups in American politics and government, with special attention to corporate business and organized labor. This course considers the implications of interest group politics for the distribution of power and for the shape of public policy in the United States. (AP)

PSCI 3060 Southern Politics (3 credits)—An introduction to regional political activity and its impact on the national political system as illustrated by the eleven states which are comprised of the Southeast. An in-depth study of the distinctive political system of the region, and the effects of movements such as secession and one-party control, black voting, and the changes in the socioeconomic composition of the area. (AP)

PSCI 3070 Politics and Film (3 credits)—An investigation of motion pictures as a mass medium. It is concerned with the political images, ideas and stories in the movies, as well as the politics surrounding movie production and distribution. (AP)

PSCI 3130 American Political Thought (3 credits)—An examination of various themes in American political thought using the writings of contemporary thinkers, as well as sources drawn from the past. (PT)

PSCI 3200 Law and Judicial Process (3 credits)—An overview of the political and philosophical principles underlying the American legal system. Strongly recommended prior to further work in law and the judicial process. (PL)

PSCI 3205 Constitution and Civil Liberties (3 credits)—A focus upon the First, Second, Fifth, Ninth, and Fourteenth Amendments as these have been utilized to expand and protect personal rights and liberties, including participation in the political process. The case method will be used. (PL) (Formerly PSCI 2500)

PSCI 3210 Due Process and Adjudication (3 credits)—A study of the liberties guaranteed in the Fourth, Fifth, Sixth, Eighth, and Fourteenth Amendments as developed and interpreted by court decisions. The case method will be used. (PL)

PSCI 3220 The Supreme Court (3 credits)—An analysis of the role of the Supreme Court of the United States in the governmental process, its role regarding the separation of powers and federalism, public policy, and limits on judicial power. The case method is sometimes used. (PL)

PSCI 3230 American Constitutional Law (3 credits)—An analysis of the manner in which the Constitution, including the Bill of Rights, has been expanded and developed to meet changing conditions within the polity by the judicial decision-making process. The case method will be used. (PL) (Formerly PSCI 4217)

PSCI 3310 International Relations (3 credits)—An introduction to the study of the relations between states, politics, diplomacy, international law, and organization. An analysis of the theory and practice of international relations. (IR)

PSCI 3350 International Political Economy (3 credits)—*Prerequisite:* PSCI 2220. This course will introduce students to current issues of international political economy. The course examines the interdependent and global nature of world economy and politics.

PSCI 3710 State and Local Government (3 credits)—The structure and functions of the 50 state governments and local government in the United States and the role of these governments in the American federal system. Special references to government in Tennessee. (AP)

PSCI 3750 International Law and Organizations (3 credits)—*Prerequisite:* PSCI 2220. This course is an introduction to the international legal system and provides the students with the basic concepts, principles and rules of international law.

PSCI 3800 European Politics (3 credits)—A survey of the governmental institutions, the political processes, and the cultures of European states. (CP)

PSCI 3830 Government and Politics of Latin America (3 credits)—Broadly concerned with basic political, cultural, and economic characteristics of various Latin American political systems. (CP)

PSCI 3870 Government and Politics of South Asia (3 credits)—An examination of the government, political organizations, party structure, politics, and culture of the subcontinent. (CP)

PSCI 4018 Honors Thesis (3 - 6 credits)—Open to those in university honor programs only. A capstone experience serving as the culmination of an honors curriculum.

PSCI 4020 Urban Politics (3 credits)—A study of the politics of urban and metropolitan government, including: reformism, bossism, political cleavages, the role of blacks and other groups in the local political system, and procedures and problems related to local policy-making. (AP)

PSCI 4030 Black American Political Thought (3 credits)—*Prerequisite:* PSCI 1120. This course exposes students to major political philosophies of the Black American experience and introduces students to the Black community's desire for social equity through social/political action. (PT)

PSCI 4050 The Presidency (3 credits)—A study of the functions and powers of the modern presidency, with emphasis on the role of the president in public policy. (AP)

PSCI 4100 Classical Political Philosophy (3 credits)—An examination of the classical tradition in political thought with emphasis on reading the works of Plato and Aristotle, as well as those of later representatives of this tradition. (PT)

PSCI 4120 Modern Political Philosophy (3 credits)—An examination of modern political thought with emphasis on the Social Contract theories of Hobbes, Locke, and Rousseau and the utilitarianism of Bentham, Mill, and others. (PT)

PSCI 4160 The Idea of the City (3 credits)—An examination of the meaning and significance the city has had in human history and a consideration of its potential as a meaningful social and political force of the future. (PT)

PSCI 4300 International Politics (3 credits)—An analysis of the major forces and trends of the political relationships between states. The historical development of international politics, the pattern of contemporary international politics, and the future of international politics. special problems and prospects for the United States. (IR)

PSCI 4330 American Foreign Policy (3 credits)—An analysis of the development of American foreign policies and practices with emphasis on recent development and current trends. (IR)

PSCI 4450 Appalachian Politics (3 credits)—An examination of the political, economic, and social structures of power characteristic of the Appalachian region, and the relationship between these and the larger American context. Pre-summer only. (AP)

PSCI 4730 American Public Policy (3 credits)—A study of the economic and social policies of American national government. The course analyzes fiscal, monetary, social welfare, trade, and labor policies, and examines the major debates over public policy, including whether and how it can promote economic prosperity and social justice. (AP)

PSCI/HIST 4740 Seminar in China Studies (3 credits)—The seminar is necessary to allow the student to create a project that will integrate the student's work in the courses of the Minor in China Studies, including the language and study abroad option with its in-country research opportunity. The seminar is multidisciplinary, using the methodologies of History and Political Science.

PSCI 4820 Politics of Development and Change (3 credits)—An examination of various notions of political development, modernization and change, with emphasis on those processes within countries of the Third World. (CP)

PSCI 4900 Independent Study and Research (1-3 credits)—By permission of the department only.

PSCI 4920 Legislative Internship Practicum (1-12 credits)—By permission of the department only.

PSCI 4921 Legislative Internship Research (3 credits)—By permission of the department only. (AP)

PSCI 4940-41 Paralegal Internship (1-3 credits)—By permission of the department only.

PSCI 4950 Senior Seminar (1-3 credits)—Study and research in public policy.

PSCI 4957/5957 Special Topics in Political Science (1-6 credits)

Psychology PSYC

PSYC 1310 Introduction to Psychology (3 credits)—An introduction to the basic concepts, principles, and theories of the science of psychology. Topics included are biological and developmental processes, perception and awareness, learning and thinking, motivation and emotion, personality and individuality, adjustment and mental health, and social behavior.

PSYC 2000 Social Psychology (3 credits)—*Prerequisite(s):* PSYC 1310. The study of research methodologies, empirical findings, and theoretical concerns in the area of interpersonal behavior.

PSYC 2500 Behavior Analysis: Theory and Practice (3 credits)—*Prerequisite(s):* PSYC 1310. A study of basic and applied topics in learning, particularly as pertaining to the modification of human behavior. Topics will include conditioning, reinforcement, extinction, generalization, discrimination, verbal learning, and modeling.

PSYC 2800 Child Psychological Science (3 credits)—*Prerequisite(s):* PSYC 1310. The course surveys the field of child psychology as a basic science, with a focus on individual differences in children's psychological development. Students interested in the scientific study of children in broader contexts (e.g., schools, families, communities) should consider enrolling in HDAL 2320.

PSYC 2900 Motivation and Emotion (3 credits)—*Prerequisite(s):* PSYC 1310. Beginning with an overview of the historical development of research on motivation and emotion, this course will examine the ethological, physiological, cognitive and social-cultural perspectives on the fundamental question in the field of psychology: Why do individuals behave the way they do?

PSYC 3100 Elementary Statistics (3 credits)—*Prerequisite(s):* PSYC 1310 and MATH 1530. An introduction to descriptive and inferential statistics including measurement, frequency distributions, graphing, percentiles, measures of central tendency and dispersion, normal distribution, correlation, probability, sampling, t-test, and analysis of variance.

PSYC 3200, 3201 Principles of Psychological Research (4,0 credits)—*Prerequisite(s): PSYC 1310 and PSYC 3100.* Basic concepts, methodologies, statistical procedures, issues, and elements of scientific writing in psychological research. Four (4) credits of lecture and lab per week.

PSYC 3300 Psychology of Women (3 credits)—*Prerequisite(s): PSYC 1310.* In this course, we will explore and discuss important issues in the field of psychology as it relates to women and gender, apply our discoveries to real world situations, and critically evaluate the research being done in the psychology of women.

PSYC 3330 Applied Psychology (3 credits)—*Prerequisite(s): PSYC 1310.* A survey of the contributions of psychology to areas such as mental and physical health, law, education, industry, and consumer affairs.

PSYC 3340 Introduction to I/O Psychology (3 credits)—*Prerequisite(s): PSYC 1310.* The application of psychological principles to business and industry in areas such as testing, personnel selection, personnel appraisal, leadership, and motivation.

PSYC 3444 Computer Methods in Psychology (3 credits)—*Prerequisite(s): CSCI 1100 and PSYC 3100 (or a comparable course, with the approval of the instructor).* This course introduces students to microcomputer operating system and a statistics software package, such as SPSS or SAS. It provides them with the skills necessary to select and perform basic statistical calculations and enables them to interpret the statistical outputs generated. In addition, students will demonstrate the ability to communicate by way of e-mail and access and download materials from sites on the Internet.

PSYC 3460 The Cognitive Growth of Infants and Children (3 credits)—*Prerequisite(s): PSYC 1310 and either PSYC 2800, HDAL 2320, or ECED 2110.* This is a specialized advanced course focusing on the essential features of cognitive development during the first epochs of human life: babyhood, toddlerhood, preschoolerhood, and childhood. The course is designed to take you on an in-depth journey to the center of the baby's mind, through the vehicle of scientific research, focusing exclusively on the fields of cognitive and language development.

PSYC 3470 The Psychosocial Growth of Infants and Children (3 credits)—*Prerequisite(s): PSYC 1310 and either PSYC 2800, HDAL 2320, or ECED 2110.* This is a specialized advanced course focusing on the essential features of psychosocial development during the first epochs of human life. The course is designed to take you on an in-depth journey to the center of the baby's first psychological relationships with others, and to watch the growth of those relationships over time, through the vehicle of scientific research in the field of psychosocial development.

PSYC 3500 Ecopsychology: The Nature-Human Relationship (3 credits)—*Prerequisite(s): PSYC 1310 or permission of instructor.* The course examines the relationship of humans to nature. It also investigates how the split between Western culture and nature relates to modern psychopathology and environmental destruction.

PSYC 3600 Cognition (3 credits)—*Prerequisite(s): PSYC 1310.* This course is designed to provide an in-depth investigation into the cognitive processes involved in attending, recognizing, remembering, thinking, understanding, and problem-solving. Particular attention is paid to the ingenious techniques created by cognitive psychologists to explore the inner workings of the mind.

PSYC 3700 Health Psychology (3 credits)—*Prerequisite(s): PSYC 1310.* This course will introduce the student to theory and research on the reciprocal relationships between physical health, behavior, and cognitive processes.

PSYC 3707 Behavioral Neuroscience (3 credits)—*Prerequisite: PSYC 1310.* The purpose of this course is to analyze the functions of the primary structures of the human brain, as well as their anatomical locations.

PSYC 3800 Adolescent Psychological Science (3 credits)—*Prerequisite(s): PSYC 1310.* This course surveys the field of adolescent psychology as a basic science, with a focus on individual differences in adolescents' psychological development. Students interested in the scientific study of adolescent development in broader contexts (e.g., schools, families, communities) should consider enrolling in HDAL 2330).

PSYC 3989-99 Cooperative Education (1-3 credits)

PSYC 4010 History and Systems of Psychology (3 credits)—*Prerequisite: PSYC 1310.* A review of the growth of psychology as a scientific discipline including principal systems, theories, and contemporary development.

PSYC 4018 Honors Thesis (3-6 credits)—Open to those in university honor programs only. A capstone experience serving as the culmination of an honors curriculum.

PSYC 4100 An Introduction to the Study of Personality (3 credits)—*Prerequisite: PSYC 1310 or permission of the instructor.* A survey of the psychology of personality. Topics examined include normal and pathological development, personality measurement, current viewpoints of personality theories, and critical issues within the psychology of personality.

PSYC 4317/5317 Perception (3 credits)—*Prerequisite: PSYC 1310.* A survey of research on vision, color perception, hearing, pattern perception, depth perception, smell, taste, and developmental perception accompanied by slide and video presentations. A brief review of theories of perception is also provided.

PSYC 4320 Abnormal Psychology (3 credits)—*Prerequisite(s): PSYC 1310; Corequisite: PSYC 4321.* A critical review of personality development and disintegration and the concepts underlying diagnosis, therapy, and institutional care.

PSYC 4321 Writing in Abnormal Psychology (1 credit)—*Prerequisite(s): PSYC 1310 or permission of instructor; Corequisite(s): PSYC 4320.* This course serves as the primary means to promote a writing intensive experience within the topical area of abnormal psychology. Must be taken concurrently by all students enrolled in PSYC 4320.

PSYC 4407/5407 Psychopharmacology (3 credits)—*Prerequisite(s): PSYC 1310.* This course is designed to introduce the student to the field of psychopharmacology, placing particular emphasis on drug abuse, drug treatment, and biochemical actions of drugs in the brain.

PSYC 4607/5607 Child Psychopathology (3 credits)—

PSYC 4707-17 Advanced Behavioral Neuroscience (4 credits)—*Prerequisite: PSYC 3707.* A review of the physiological, anatomical, and chemical aspects of the nervous system and their relation to a variety of functions: sensory processes, perception, motivation, learning, emotion, and memory. Four (4) credit credits of lecture and labs per week.

PSYC 4807/5807 Forensic Psychology (3 credits)—*Prerequisite(s): PSYC 1310.* This course is designed to introduce students to issues pertaining to the interface between psychology and law, with an emphasis on issues of current practice and ethical issues in forensic psychology.

PSYC 4817/5817 Introduction to Psychological Testing (3 credits)—*Prerequisite(s): PSYC 1310 and PSYC 3100.*

PSYC 4900 Independent Study in Psychology (1-3 credits)—An independent study of a problem selected in consultation with a member of the psychology faculty.

PSYC 4957/5957 Special Topics in Psychology (1-6 credits)—Permission of the instructor.

PSYC 4989-99 Cooperative Education (1-3 credits)

Graduate Course Listing

For Descriptions, Prerequisite(s), and a complete listing see the Graduate Catalog

PSYC 5210	Statistical Methods	(3 credits)
PSYC 5220	Personality Theory	(3 credits)

PSYC 5230	Advanced Developmental Psychology	(3 credits)
PSYC 5410	Correlation and Multiple Regression	(3 credits)
PSYC 5530	Sport Psychology	(3 credits)
PSYC 5610	Topical Seminar in Developmental Psychology	(3 credits)
PSYC 5620	Topical Seminar in Social Psychology	(3 credits)
PSYC 5630	Topical Seminar in Cognitive Psychology	(3 credits)
PSYC 5640	Topical Seminar in Behavioral Neuroscience	(3 credits)
PSYC 5650	Topical Seminar in Applied Psychology	(3 credits)
PSYC 5660	Topical Seminar in Clinical Psychology	(3 credits)
PSYC 5800	Teaching in the Psychological Sciences	(3 credits)
PSYC 5825	Psychopathology	(3 credits)
PSYC 5830	Individual Mental Testing—HDAL 5830	(4 credits)
PSYC 5850	Personality Assessment	(3 credits)
PSYC 5870	Introduction to Clinical Psychology	(3 credits)
PSYC 5900	Independent Study in Psychology	(1-3 credits)
PSYC 5910	Practicum in Mental Health: Assessment	(3 credits)
PSYC 5950	Methods of Psychological Research	(3 credits)
PSYC 5960	Thesis	(1-3 credits)
PSYC 5990	Readings and Research	(1-3 credits)
PSYC 5989-99	Cooperative Education	(variable)

Public Health PUBH

PUBH 1010 Lifetime Behaviors for Healthy Living (3 credits)—Examines physical, mental, and social aspects of health, focusing on topics such as communicable and chronic diseases, sexuality, consumerism, community health, environment, aging, death and dying, and the health care system.

PUBH 1020 Introduction to Public Health (3 credits)—Familiarizes students with the field of public health, including the history and current practices. Major cultural, social, economic, organizational, and environmental factors influencing public health issues and practices at the local, state, national, and international levels will be presented.

PUBH 2030 First Aid and Emergency Care (3 credits)—Prepares the student providing knowledge and skills to handle emergency situations when emergency care is needed and medical assistance is delayed. Cardiopulmonary resuscitation (CPR-BLS) is taught in association with the course. Lab fee applies.

PUBH 2031 Cardiopulmonary Resuscitation (1 credit)—Prepares the student to provide basic life support for respiratory and cardiac emergencies for adults, children, and infants.

PUBH 2100 Health Systems (3 credits)—Studies health systems in the United States and other countries, with emphasis on such management issues as the ability to deliver health-related services, their cost and their operations within a legal framework. Included in the topics are discussions of such major developments as prepaid group practice, managed care, national health insurance, planning for health care and an overview of the issues associated with these developments.

PUBH 2120 School Health Education K-12 (3 credits)—*Prerequisite(s): PUBH 1010.* Studies the school health program: health services, health instruction, and healthful school environment for grades K-12. Emphasis is given to curriculum and various school health issues.

PUBH 2750 Medical Terminology (3 credits)—Designed for public and allied health professionals who need to read and interpret health and medical reports, research reports, or professional literature. Analysis and utilization of medical terms related to various disorders will be made.

PUBH 2950 Disaster Response Training (3 credits)—*Prerequisite(s): Completion of PUBH 2030 or permission of instructor.* This course will introduce students to service-learning and leadership through the Disaster Response Training program of the American Red Cross. Service projects selected to enhance the classroom components of this course will be required and, if such an event should arise during the course, an opportunity to respond to an actual emergency or disaster will also be included. Students completing this course will be eligible to serve as members of the RESPONSE - ETSU cadre and as American Red Cross Disaster Response Volunteers.

PUBH 3000 Introduction to Biostatistics (3 credits)—Statistical logic and elementary techniques of statistical analysis as applied to health. Collection and interpretation of population, natality, morbidity and mortality statistics. Elementary epidemiology, probability, sampling and tests of significance will be introduced.

PUBH 3010 Accident Prevention (3 credits)—Examines unsafe personal acts and conditions influencing the occurrence of accidents. Emphasis is placed on the prevention of unintentional injuries through reducing human error and modifying unsafe environments.

PUBH 3080 Principles of Epidemiology (3 credits)—*Prerequisite(s): PUBH 3000 or permission of instructor.* Introduces the principles of epidemiology and their application to the investigation, prevention and control of illness, injury and disease.

PUBH 3120 Principles and Practices of Public Health Education I (4 credits)—*Prerequisite(s) or Corequisite(s): PUBH 1010 and PUBH 3000.* Develops skills in the application of principles of learning, community survey and data analysis, theoretical, and applied approaches to program planning, implementation and evaluation, research design, professional development, and ethics.

PUBH 3130 Principles and Methods of Health Education (3 credits)—*Prerequisite(s): PUBH 3120 or permission of instructor.* Develops skills in the design and use of educational methods, materials, and equipment for health education. Develops skills in group work and techniques, motivation, and leadership.

PUBH 3200 Health Services Administration (3 credits)—Reviews and prepares students to understand the components of health care in the United States and the principle delivery systems used in their provision. Organizational theory and design are discussed and evaluated in light of past and present health services systems. Provides an understanding of health care financing and its impact on access to and delivery of health care to different populations.

PUBH 3220 Health Services Planning (3 credits)—Surveys and examines planning, organizing and managing health care in the United States. Attention is given to the evolving health care systems in the United States and abroad and to the function of the administrator in the plan and design of those systems.

PUBH 3500 Consumer Health Education (2 credits)—Provides knowledge and information which will enable one to make intelligent decisions about the purchase and use of health products and services available in society.

PUBH 3600 Quality and Utilization Assurance (3 credits)—Explores the issues related to quality, utilization, and risk management and the administrator's role in developing an environment which supports institutionalization of these concepts.

PUBH 3950 Principles of Public Health Research (3 credits)—Overviews research techniques and methods emphasized in public health. Issues to be discussed include the steps, components, funding sources, proposal guidelines and general format of research reports for journals.

PUBH 4007/5007 Principles and Practices of Patient Education (3 credits)—Develops skills in the design and use of educational methods, materials, and counseling to provide specialized education for the patient in the clinical environment.

PUBH 4030 Community Health (3 credits)—*Prerequisite(s): PUBH 1010 or ENVH 1800; or permission of instructor.* Studies and analyzes community health problems and their causes. Explores the organization, administration, and work of agencies involved with community health, with emphasis on the professional's responsibility for the assessment, delivery, and evaluation of health information and services in the community.

PUBH 4060 Community Organization for Health Education Programs (3 credits)—*Prerequisite(s): PUBH 4030 or permission of*

instructor. Considers the principles and practices of community organization for health education and the role of the health educator in the community. Motivation of lay and professional individuals and groups to develop and implement community plans is studied.

PUBH 4220 Family Health and Human Sexuality (2 credits)—Familiarizes students with health problems and solutions encountered by the family and individuals at various stages of the life cycle. Explores the components of human sexuality as they relate to physical, mental, and social well-being.

PUBH 4357/5357 Thanatology (3 credits)—This course explores death, dying, and bereavement and is focused on enhancing personal and health professional roles related to the experience of death and dying. Course topics address the medical, legal, social, cultural, and religious view of death in America and other cultures. Through this process, students are able to: a) recognize and deal with emotions and behaviors related to the experience of death and dying; b) better understand and accept death as a natural process of life, and; c) be better prepared to help others deal effectively with death and dying.

PUBH/SPCH 4377/5377 Health Communication (3 credits)—*Prerequisite(s):* Permission of the instructor. A study of the interpersonal, group, organizational, and public communication processes that shape beliefs, decisions and behavior regarding health, sickness, and health care. The course examines attitudes and actions of various participants in health communication, including citizens, health professionals, and those engaged in the public debate of health issues. Students cannot receive credit for both SPCH 4377 and PUBH 4377.

PUBH 4457/5457 Emerging Technologies for the Health Professions (3 credits)—Prepares health professionals for the ever changing technological workplace demands. Fuses new technologies with practical applications. Students are taught skills to present and manipulate information in the electronic age and reduce repeated task/events into time-saving solutions. Health education and training strategies are combined with emerging digital tools to develop training components.

PUBH 4500 Pathophysiology of Disease (3 credits)—A discussion of common diseases with respect to etiologic agents, physiology, pathological, and emotional changes, management by chemical and physical agents, psychotherapy, and patient education.

PUBH 4607/5607 Gerontology and Health (3 credits)—Comprehensively examines the aging process, familiarizing students with physical, psychological, social, and economic changes. Course emphasizes assessment of needs in various areas relating to the aged.

PUBH 4707/5707 International Health: An Overview of Problems and Issues (3 credits)—Designed to provide a fuller understanding of the patterns of medical care delivery and public health practices and the factors that inhibit or enable their applications among community groups and organizations around the world.

PUBH 4850 Field Experience (12 credits)—*Prerequisite(s):* Permission of department. Work experience in hospitals, official, and voluntary agencies, and other community groups and organizations. The student furnishes necessary living and traveling expenses. One credit hour equivalent to 45 contact hours.

PUBH 4907/5907 Independent Study in Public Health (1-3 credits)—Designed for students desiring an in-depth study of health problems in a special area of need or interest.

PUBH 4927/5927 Cultural Competence and Spirituality in Health Care (3 credits)—Health care effectiveness increases when the spiritual and cultural traditions of the patient are addressed. In this class, students will receive an orientation to the practices and concerns of diverse cultural and religious groups.

PUBH 4937/5937 Stress Management (3 credits)—Acquaints the student with the literature and research on stress and provides a holistic

introduction into the theory and practice of stress management that encompasses physical, emotional, psychological, and spiritual dimensions of stress responses. The course uses an experiential approach to applying coping strategies and relaxation techniques covered in class by requiring students to develop and implement a personal stress management project.

PUBH 4957/5957 Topics in Public Health (1-6 credits)—Surveys new development in health education, following a structured approach or the intensive study of a selected topic utilizing the workshop approach.

PUBH 4989 Cooperative Education (1-3 credits) — Credit for work in the health care sector. Must obtain academic advisor's approval prior to enrolling.

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog.

For the latest revisions, contact the MPH Coordinator.

PUBH 5020	Philosophy of Public Health	(1 credit)
PUBH 5110	Community Health Assessment Research	(3 credits)
PUBH 5120	Health Program Planning and Evaluation	(3 credits)
PUBH 5125	Rural Health Research and Practice	(3 credits)
PUBH 5130	Consulting & Implementation of Hlth. Prog. & Serv. ...	(3 credits)
PUBH 5200	Social and Behavioral Foundations	(3 credits)
PUBH 5210	Professional Development for Public Health Practice ..	(2 credits)
PUBH 5310	Principles of Biostatistics	(3 credits)
PUBH 5340	Health Appraisal Techniques	(3 credits)
PUBH 5350	Biostatistics I	(3 credits)
PUBH 5400	Principles of Epidemiology	(3 credits)
PUBH 5401	Rural Health Issues	(3 credits)
PUBH 5405	Epidemiology II	(3 credits)
PUBH 5410	Statistical Software for the Hlth. Prof.	(3 credits)
PUBH 5420	Epidemiology for Chronic Disease	(3 credits)
PUBH 5430	Epidemiology of Infectious Disease	(3 credits)
PUBH 5457	Emerging Technologies for Hlth. Prof.	(3 credits)
PUBH 5460	Environ./Occupational Epidemiology	(3 credits)
PUBH 5500	Health Services Administration	(3 credits)
PUBH 5505	Managing Health Care Organizations	(3 credits)
PUBH 5510	Long Term Health Care Administration	(3 credits)
PUBH 5525	Health Services Org. and Delivery	(3 credits)
PUBH 5535	Health Policy, Politics and Analysis	(3 credits)
PUBH 5550	Human Resources Mgmt in Hlth. Org.	(3 credits)
PUBH 5590	Strategic Planning for Health Care	(3 credits)
PUBH 5600	Industrial Health Education	(3 credits)
PUBH 5620	Hazards in the Workplace	(3 credits)
PUBH 5707	International Health	(3 credits)
PUBH 5850	Public Health Program Field Experience	(1-6 credits)
PUBH 5900	Grant and Proposal Development	(3 credits)
PUBH 5950	Research Seminar	(3 credits)
PUBH 5960	Thesis	(3-6 credits)
PUBH 5989	Cooperative Education	(1-3 credits)
PUBH 5990	Readings and Research	(1 credit)

**Public Relations
PUBR**

PUBR 2700 Introduction to Public Relations (3 credits)—*Prerequisite:* JOUR 3150. Study of fundamental principles and techniques applicable in the field of public relations Information is provided on various types of career opportunities.

PUBR 2770 Writing for Public Relations (3 credits)—*Prerequisite(s):* A grade of "C" or better in JOUR 2120. Instruction in fundamentals of reporting, feature writing, broadcast news writing, and specialized writing done regularly by public relations practitioners. Assignments include work for public relations professionals.

PUBR 3770 Public Relations Publications (3 credits)—Fundamentals of typography, printing, and computer design applied to the production of publications and web sites common in the public relations field.

PUBR 4080 Public Relations Internship (3 credits)—*Prerequisite(s):* Permission of instructor. Supervised professional experience in public relations.

PUBR 4301 Topics in Public Relations (1-6 credits)

PUBR 4730 Public Relations Practices (3 credits)—*Prerequisite(s):* PUBR 2700, PUBR 2770, PUBR 3770, RTVF 3602. Application of public relations principles and techniques to business and industry,

government, health care facilities, institutions and organizations, trades and professions. Emphasis on case studies and projects completed for on- and off-campus groups and organizations.

PUBR 4900/5900 Independent Studies in Public Relations (1-3 credits)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

PUBR 5301	Topics in Public Relations	(1-6 credits)
PUBR 5310	Media Management	(3 credits)
PUBR 5320	Public Relations Case Studies	(3 credits)
PUBR 5900	Independent Study in Public Relations	(1-3 credits)

Radiologic Technology

RADG

RADT 3000 Image Production and Evaluation (4 credits)—*Prerequisite(s): Program admission; Corequisite(s): RADT 3020, RADT 3021, and RADT 3040.* This course presents an in-depth discussion of image formation to include photographic and geometric factors. Discussion includes prime factor manipulatives, calculations, and derivatives, latent/manifest image formation, radiographic interactions, and pathological considerations. All factors concerning image production will be interrelated. Extensive correlation, practical/laboratory applications, and written assignments are required.

RADT 3005 Foundations in Radiologic Technology (3 credits)—*Prerequisite(s): Program admission; Corequisite(s): RADT 3000, RADT 3020, RADT 3021, RADT 3040.* Familiarizes the student with medical terminology, career opportunities, professional organizations, administration, equipment, biology and protection, human diversity, patient interactions, transfer techniques, immobilization techniques, vital signs, aseptic techniques, professional ethics, and medical law as they relate to radiologic technology.

RADT 3010 Radiographic Equipment (4 credits)—*Prerequisite(s): RADT 3000; Corequisite(s): RADT 3060, RADT 3030, RADT 3031, and RADT 3040.* An in-depth discussion of atomic theory, magnetism and electromagnetism, electrostatics, electrodynamics, radiation production and interaction, and energy transformation will occur. Radiographic tube construction, operation, and electronic schematics will be presented and interrelated with the associated medical utilization and characteristics.

RADT 3020 Radiographic Procedures I (3 credits)—*Prerequisite(s): Program admission; Corequisite(s): RADT 3021.* An in-depth discussion of radiographic procedures including the thoracic-abdominal areas and the appendicular skeleton. Anatomy, patient care, and terminology are correlated with radiographic procedures. Appropriate methodologies regarding patient identification, clinical profiles, nomenclature, universal precautions, and radiographic critique/quality are presented. An accompanying laboratory experience analyzing radiographic evaluation and techniques will occur.

RADT 3021 Radiography Procedures I Lab (1 credit)—*Prerequisite(s): Program admission; Corequisite(s): RADT 3020.* Under direct supervision, the student will observe, demonstrate, and produce diagnostic, quality radiographs of the thoracic-abdominal cavities, and the upper/lower extremities.

RADT 3030 Radiographic Procedures II (3 credits)—*Prerequisite(s): RADT 3020; Corequisite(s): RADT 3031.* This course is a continuation and integration of RADT 3020 and RADT 3021 that also includes an in-depth discussion of procedures of the axial skeleton, the digestive, neural, respiratory, biliary, and genitourinary body systems. Anatomy (inclusive of cross-sectional), patient care, pathology, and medical terminology will be correlated with procedures. An accompanying laboratory component will occur.

RADT 3031 Radiographic Procedures II Lab (1 credit)—*Prerequisite(s): RADT 3021; Corequisite(s): RADT 3030.* Under direct supervision, the student will observe, demonstrate, and produce diagnostic,

quality radiographs of the axial skeleton, the digestive, neural, respiratory, biliary, and genitourinary body systems. Anatomy (inclusive of cross-sectional), patient care, pathology, and medical terminology will be correlated with procedures presented in RADT 3030.

RADT 3040 Clinical Education I (2 credits)—*Prerequisite(s): Program admission.* This competency-based clinical experience will introduce the radiography student to learning opportunities in ancillary areas and current imaging technologies available at clinical agencies. Student participation in patient assessment and care, and observing and performing medical imaging procedures as presented in RADT 3020/21 under direct supervision will occur. Students will demonstrate cognitive, affective, and psychomotor skills with a focus on outcomes assessment.

RADT 3050 Clinical Education II (2 credits)—*Prerequisite(s): RADT 3040; Corequisite(s): RADT 3030 and RADT 3031.* A competency-based clinical experience that intensifies the cognitive, affective, and psychomotor skill level of students in the performance of imaging procedures of the axial and appendicular skeleton. Students continue to focus on outcomes assessment and to master procedures from RADT 3040.

RADT 3060 Radiographic Imaging and Quality Assessment (3 credits)—*Prerequisite(s): RADT 3000.* A course which discusses the history and role of computers in modern imaging systems including: picture archiving and communication systems, digital imaging, digital fluoroscopy, computerized tomography, magnetic resonance imaging, sonography, nuclear medicine, mammography, and radiation oncology. Quality assessment will be presented and integrated with imaging systems and modalities. Students will present written and oral reports with an emphasis on the written portion.

RADT 3070 Radiation Biology and Protection (4 credits)—*Prerequisite(s): RADT 3010.* This course includes an in-depth discussion of the study of human cells, organs, systems, and human tissue as a result of exposure to various radiation sources. Methods of radiation safety, monitoring, and protection will be discussed. Students are required to orally present an associated topic to class and faculty.

RADT 4000 Clinical Education III (6 credits)—*Prerequisite(s): RADT 3050.* A competency-based clinical practicum that requires higher cognitive, affective, and psychomotor skill levels. This clinical experience provides learning opportunities in fluoroscopy of the physiological body systems, cystography, advanced extremity, mobile, trauma, and surgical radiographic procedures. Mastery of knowledge from previous clinical practicums with a focus on outcomes assessment will occur. All classes occur at the clinical agencies.

RADT 4010 Clinical Education IV (3 credits)—*Prerequisite(s): RADT 4000.* This clinical experience will occur at a different clinical agency thereby diversifying the clinical applications of cognitive, affective, and psychomotor skills. Students will participate in diagnostic imaging, specialty areas, and interventional radiography to become a true part of the health care team. Students will complete minor, major, and graduate competencies (advanced radiographic/fluoroscopic procedures) emphasizing outcomes assessment.

RADT 4020 Clinical Education V (3 credits)—*Prerequisite(s): RADT 4010.* The clinical experience consists of assignments in general radiography/fluoroscopy and specialty areas (oncology, magnetic resonance imaging, and cardiac catheterization). Students will demonstrate the highest level of cognitive, affective, and psychomotor skills to complete graduate competencies, outcomes assessment, and program requirements. Practicing professionals clinical phase is specifically designed to facilitate growth and lifelong learning.

RADT 4030 Radiographic Pathology (3 credits)—*Prerequisite: RADT 4040.* This course includes an in-depth discussion and radiographic correlation of disease processes. Disease etiology, processes, nature, causes

of disease and injury, treatment, and their related radiographic significance will be discussed. Students will present case studies.

RADT 4040 Radiopharmaceuticals and Special Procedures (3 credits)—*Prerequisite(s): RADT 3030.* Advanced radiographic procedures encompassing interventional, vascular, neuroradiologic radiography, and specialized equipment/procedures are discussed. Invasive techniques, contrast media pharmacology, and related imaging modality integration are presented.

RADT 4060 Digital Imaging (3 credits)—*Prerequisite(s): RADT 3000, RADT 3010 and RADT 3060; Corequisite(s): RADT 4020.* The course includes an introduction to the past, present, and future of digital imaging in radiology. The components of DICOM & PACS, the effects that digital imaging have impressed on the medical field, as well as, problem solving interventions will be discussed.

RADT 4070 Professional Transition to Radiography (3 credits)—*Prerequisite(s): RADT 3070; Corequisite(s): RADT 4020, RADT 4030, and RADT 4060.* This is a capstone course for the students enrolled in the radiography program. It provides the student with a venue to synthesize knowledge and skills learned during the course of the program. In addition, it prepares the graduate to enter the profession of radiology.

**Reading
READ**

See Developmental Studies for below college-level courses.

READ 3000 Current Issues in Literacy (1 credit)—This course explores international, national, and regional sociopolitical issues in literacy to meet the standards required of the Interdisciplinary Studies in Education major. This course examines, analyzes, and discusses current controversies in the teaching of literacy. Critical thinking, problem solving, and close textual analysis of readings in professional literature will be emphasized. Development of a professional voice in the discipline of literacy and literacy education will be encouraged through composition and oral presentations.

READ 3100 Early Literacy (3 credits)—The activities and study in this course focus on the research-oriented theoretical knowledge base concerning early language development. Emphasis is placed on both socio-environmental, physical growth and development, and academic forces contributing to early language and reading achievement.

READ 3200 Expanding Literacy (3 credits)—*Prerequisite(s): Admission to teacher education; Completion of READ 3000 and READ 3100.* Study of theories relating to enhancement of literacy competencies for established readers. Theoretical models studied include content area reading, general reading for development, reading motivation, and recreational reading. A field-based assignment (10 hours) required.

READ 4026 Assessment and Enhancement of Literacy (3 credits)—*Prerequisite(s): READ 3000, READ 3100, and READ 3200. Corequisite(s): CUI 4210, CUI 4220, CUI 4310, and CUI 4241.* Study of theoretical foundations for the assessment of reading proficiency and models for building reading competencies. Targets for study include evidence-based components of reading processes.

READ 4027/5027 Diagnostic and Remedial Procedures in Reading (3 credits)—Emphasis on case study procedure. direct contact with children in diagnostic situations. formal and informal procedures for diagnosing reading skills, abilities, aptitudes, and methods and materials for the correction or improvement of diagnosed reading difficulties. Students desiring graduate credit will have requirements beyond normal course expectations.

READ 4146 Storytelling and Literacy (3 credits)—Study of storytelling and narrative as essential modes of expression, communication, and learning. The course focuses on developing oral delivery skills and applying storytelling to stimulate imagination and create lifelong learners.

READ 4437/5437 Reading Instruction in Middle and Secondary Schools (3 credits)—*Prerequisite(s): Admission to teacher education.* This

course addresses reading strategies needed for various content areas. developmental, corrective, and remedial practices and procedures at the middle and secondary levels. and the role of language in learning subject matter content. Students desiring graduate credit will have requirements beyond normal course expectations.

READ 4626 Materials for Children’s Literacy (3 credits)—*Prerequisite(s): Admission to Teacher Education.* A study of children’s literacy materials with emphasis on quality children’s literature, including multicultural literature. Involves reading and evaluating literature of various genres, as well as children’s periodicals and software.

READ 4900 Independent Study in Reading (1-3 credits)—By approval from the program coordinator.

READ 4957/5957 Topics in Reading (1-6 credits)—*Prerequisite(s): Dependent on subject matter.* Selected topics of current interest in reading. Offered upon sufficient demand for specific subject matter. May be repeated for different topics. Consultation with the instructor is recommended before enrollment.

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

READ 5190	Linguistics of Reading/Storytelling	(3 credits)
READ 5120	Teaching Reading	(3 credits)
READ 5170	Materials for Reading and Language Arts	(3 credits)
READ 5190	Linguistics of Reading	(3 credits)
READ 5210	Psychology of Reading	(3 credits)
READ 5231	Advanced Diagnostic Procedures	(3 credits)
READ 5241	Practicum in Teaching Reading	(1-3 credits)

Religious Studies

RELI

RELI 2210 Introduction to the Study of Religion (3 credits)—A comparative and historical introduction to the world’s ways of being religious. (fall, spring, summer)

RELI 3220 Western Religions (3 credits)—*Prerequisite(s): RELI 2210, or permission of the instructor.* A study of the religious life of the West, from preliterate societies and classical civilizations of the past through contemporary Judaism, Christianity, and Islam. (spring, odd years)

RELI 3230 Eastern Religions (3 credits)—A study of religions whose origins were in the East: Hinduism, Buddhism, Confucianism, Taoism, and Zen. (spring, even years)

RELI 3240 Hebrew Scriptures (3 credits)—*Prerequisite(s): RELI 2210, or permission of the instructor.* A historical and literary survey of the Hebrew Bible. (fall, odd years)

RELI 3250 Greek Scriptures (3 credits)—*Prerequisite(s): RELI 2210, or permission of the instructor.* A historical and literary survey of the Greek/Christian Scriptures. (spring, even years)

RELI 3261-63 Religion Colloquium (1-3 credits)—*Prerequisite(s): RELI 2210 or permission of the instructor.* Some issue, movement, or person of importance to the study of religion will be selected for the topic. Course may be repeated to a maximum of nine (9) credit hours. (3263 – fall, odd years)

RELI 4220 Contemporary Religious Thought (3 credits)—*Prerequisite(s): At least one (1) RELI course at the 3000 level; or permission of the instructor.* A survey of developments in religious thought from the mid 19th century to the present.

RELI 4920 Independent Studies in Religion (1-3 credits)—*Prerequisite(s): At least one (1) RELI course at the 3000 level or permission of the instructor.* (fall, spring)

Radio/Television/Film

RTVF

RTVF 2600 Survey of Broadcasting (3 credits)—The study of the development of the broadcast/cable/teleproduction industry and its present structure, new technologies, FCC, and other regulatory agencies, station, network, cable, and teleproduction operations and their effect on society.

RTVF 2604 Radio/TV Laboratory (1 credit)—*Prerequisite(s):* RTVF 2630, RTVF 3602, RTVF 3640, RTVF 3651, RTVF 3661, and *permission of instructor*. Instruction and practical experience in producing the radio and television segment. A complete product from concept to “aired” segment is required in radio or television. May be repeated. Credit may also be earned in RTVF 4604.

RTVF 2630 Writing for Radio/TV (3 credits)—*Prerequisite(s):* RTVF 2600 or *permission of instructor*. Techniques of writing radio/television copy including commercials, announcements, program continuities, and dramatic scripts.

RTVF 3600 Radio/TV News (3 credits)—*Prerequisite(s):* RTVF 2600 or *permission of instructor*. A study of the organization and function of broadcast news with training in reporting, writing, and editing news for various formats and program types.

RTVF 3602 Video-Film Techniques (3 credits)—*Prerequisite(s):* RTVF 2600 or *permission of instructor*. Theory and technique of commercial, ENG and EFP video, and digital technology. Course provides practical experience with all types of hardware and software.

RTVF 3640 Broadcast Performance (3 credits)—*Prerequisite(s):* RTVF 2600 or *permission of instructor*. The study and development of communication principles and skills for the announcer and actor with specific theory and training in the techniques, methods, and procedures that relate to broadcast performance.

RTVF 3651 Radio Production (3 credits)—*Prerequisite(s):* RTVF 2600 or *permission of instructor*. Principles and methods of producing and directing representative types of radio programs in lecture and lab sessions.

RTVF 3661 Television Production (3 credits)—*Prerequisite(s):* RTVF 2600 or *permission of instructor*. Principles and methods of producing and directing representative types of television programs in lecture and lab sessions.

RTVF 3671 Broadcast Programming (3 credits)—*Prerequisite(s):* RTVF 2600 or *permission of instructor*. The planning of radio and television programs and formats. Design of specific programs to effectively reach a desired audience. Includes analysis and redesign of programs already on the air. Available in odd-numbered years.

RTVF 4080 Broadcasting Internship (3 credits)—*Prerequisite(s):* *Permission of instructor*. Paid professional experience in broadcasting.

RTVF 4401 Topics in Broadcasting (1-6 credits)

RTVF 4600 Radio/TV Reporting and Editing (3 credits)—*Prerequisite(s):* RTVF 2600, RTVF 3600, and RTVF 3602; or *permission of instructor*. Experience in preparing radio and television newscasts for presentation. Synthesis of reporting, writing, audio, and film coverage of national, regional, and local news. Practical experience gained by presentation over radio and television.

RTVF 4604 Radio/TV Laboratory (1 credit)—*Prerequisite(s):* RTVF 2630, RTVF 3602, RTVF 3640, RTVF 3651, RTVF 3661, and *permission of instructor*. Instruction and practical experience in producing the radio and television segment. A complete product from concept to “aired” segment is required in radio and television. May be repeated. Credit may also be earned in RTVF 2604.

RTVF 4651 Advanced Radio Production (3 credits)—*Prerequisite(s):* RTVF 3651 or *permission of instructor*. A study of production methods with an emphasis on laboratory training in producing and directing special projects and complete radio programs.

RTVF 4661 Advanced TV Production (3 credits)—*Prerequisite(s):* RTVF 3602 or *permission of instructor*. A study of production methods with an emphasis on laboratory training in producing and directing special projects and complete television programs.

RTVF 4680 Broadcast Production Practicum (2 credits)—*Prerequisite(s):* RTVF 2630, RTVF 3602, RTVF 3640, RTVF 3651,

RTVF 3661 and *permission of instructor*. Instruction and practical experience in producing the radio and television programs. A complete product from concept to “aired” program is required in radio and television.

RTVF 4690 Broadcast Management (3 credits)—*Prerequisite(s):* RTVF 2600 and MCOM 4037; or *permission of instructor*. A study of the elements basic to successful operation of a radio, television, cable, and teleproduction facility. The study of advertising, budgeting, public relations, promotion, staffing, and federal and industry-wide regulatory codes.

RTVF 4900 Independent Studies in Broadcasting (1-3 credits)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog.

RTVF 5401	Topics in Broadcasting	(1-6 credits)
RTVF 5900	Independent Study	(1-3 credits)

Sport and Leisure Management

SALM

SALM 3100 Introduction to Leisure Services (3 credits)—An overview of the history and professional developments in leisure services. Broad treatment is given to the types and functions of leisure services in a modern world.

SALM 3105 Programming and Leadership in Leisure Services (3 credits)—This course is designed to introduce the student to program and leadership skills used in leisure services. Emphasis will be on leadership techniques, group dynamics, communication skills, and program development for various leisure services.

SALM 3110 Interpretation of Cultural and Natural Resources (3 credits)—This course will focus on the study and practice of interpretative techniques of cultural and natural resources. Emphasis will be placed on the development of skills in designing, producing, and presenting interpretative materials and programs in a recreational setting to all segments of the population. This course will also provide a service-learning project that will involve interaction with a leisure service organization that incorporates interpretation into its activity program.

SALM 3115 Wilderness First Responder (3 credits)—This course will focus on the preparation of outdoor leaders to respond to medical emergencies in remote locations. Emphasis will be placed on prevention of medical emergencies and decision-making when emergencies occur. Also covered will be extended care and prolonged transport and improvised equipment. Additional course cost will be involved to cover the cost of supplies, certification, and instructor.

SALM 3117 Recreation for Special Populations (3 credits)—This course is an introduction to the area of therapeutic recreation and providing recreational services to special populations. Components of this course will include background information on the development of therapeutic recreation, environmental barriers, and recreation opportunities, characteristics of selected populations, and program planning considerations for special populations. This course will include a service-learning component and require field trips to agencies providing therapeutic recreation services.

SALM 3120 Outdoor Recreation Skills (3 credits)—This course was designed to develop outdoor leadership and basic outdoor recreational skills in a variety of outdoor activities. In addition to the regular on-campus classes, students will be required to participate in several weekend field trips during which time they will demonstrate practical application of the skills and knowledge acquired. Activities covered in this course will include camping and campcrafts, outdoor cookery, hiking and backpacking, map and compass use, canoeing, and rock climbing.

SALM 3125 Camp Leadership (3 credits)—A study of organized camping with emphasis on leadership, programming, and camp administration. This course will follow the American Camping Association course content for the Basic Camp Director program.

SALM 3130 Natural Resource Management (3 credits)—This course will focus on the administration of recreational lands by state and federal agencies with emphasis on management policies and procedures. This course will include service-learning experiences involving travel to and volunteer work with federal and state land management agencies.

SALM 3150 Regional Outdoor Leadership and Service (3 credits)—This course has been designed to support the ETSU outdoor initiative cohort. It is a service-learning course and will involve travel to and work in selected areas of the southeastern region of the United States. Emphasis during this course will be on developing an increased understanding of the areas visited and the impact of management policies on the environment and recreational opportunities. Students will be actively involved in planning and leading all field trips. Opportunities will be available for refinement of outdoor living and leadership skills in an outdoor environment. This course will involve extensive tent camping and travel by van as part of a group experience.

SALM 3200 Introduction to Sport Management (3 credits)—This course introduces students to the meaning of sport management in terms of its scope, foundations, issues, and future trends. Emphasis will be a variety of sports or sport-related organizations. Various career opportunities available in the field of sport management will also be discussed.

SALM 3210, 3211 Practicum in Sport and Leisure Management I, II (1 credit each)—This class will afford the student the opportunity to perform management duties under the supervision of a sports or leisure services manager. The assignment will be part time (up to 8 hours, maximum, per week and a maximum of 48 total hours per semester) and be performed either on campus or in close proximity to campus.

SALM 3220 Facility Planning and Event Management (3 credits)—A study of content concerning the planning of facilities to accommodate sport and fitness activities. Students will learn procedures to effectively conduct sporting events.

SALM 3225 Marketing Strategies and Public Relations in SALM (3 credits)—This course is designed to provide students with a practical application of marketing science and public relations as they relate to all realms of the sport industry—professional sports intercollegiate, interscholastic, and intramural sport, amateur sports, and all elements of commercial clubs, resorts, camps, and service organizations.

SALM 3230 Sport in the Social Context (3 credits)—An introductory course devoted to an examination of sport and its relationship to society and to other social institutions. Principal emphasis is given to sport in American society.

SALM 4100 Professional Field Experience in Leisure Services (3 credits)—Provides the student with the opportunity to be actively involved in a leisure service delivery system. Includes the application of theoretical knowledge to practical situations. The student will be required to complete a minimum of 120 hours of documented field experience during the semester.

SALM 4105 Commercial Recreation and Tourism (3 credits)—This course is designed to introduce students to the scope, characteristics, and management aspects of the diverse commercial recreation and tourism industry.

SALM 4107 Alpine Tower Leadership (3 credits)—This course utilizes the Alpine Tower Complex as a unique educational modality for developing teamwork, trust, cooperation, communication, and respect for others in a problem-solving environment. In addition, students will also develop leadership skills necessary to facilitate the personal growth of others through educational experiences using the Alpine Tower Complex. Emphasis will also be given to the day-to-day management, operation, and maintenance of the Alpine Tower Complex and similar ropes course

operations. This course will include service-learning experiences involving group leadership on the Alpine Tower Complex.

SALM 4117, 4118, 4119 Outdoor Leadership (3 credits each)—This course is based on the student contract format and will provide students an opportunity to complete a course of study involving specialized outdoor leadership development with outdoor leadership organizations such as the National Outdoor Leadership School (NOLS), Outward Bound (OB), and Wilderness Education Association (WEA). The course will be a minimum of three (3) weeks in length including pre-field experience assignments, field experience with a specific outdoor leadership organization, and post-field experience project completion and assessments. Specific course requirements will be established on an individual basis and the course grade assigned according to the established contract.

SALM 4127 Rocky Mountain Experience (3 credits)—This is a service-learning course that involves extensive travel and work in selected national parks in the Rocky Mountain region. During the course students will develop outdoor living skills, leadership skills in an outdoor environment, skills relative to trail and campsite construction and basic park maintenance, knowledge of the flora, fauna, and geological features of national parks visited, and knowledge of the impact of governmental policies on the management and operation of national parks. This course will involve extensive tent camping and travel by van as part of a group experience.

SALM 4137 Wilderness Education Association Stewardship Program (3 credits)—Based on the Wilderness Education Association (WEA) 18 point curriculum, this course is a field-based experience designed to develop principles of wilderness ethics, land stewardship, effective group dynamics, and technical travel skills sufficient to move a group through the wilderness safely, enjoyably, and with a minimum of environmental and social impact.

SALM 4157 Outdoor Education (3 credits) — This course is designed for individuals interested in using the outdoors as a learning setting. Emphasis will be placed on creating a learning environment in the outdoors as well as teaching methods and delivery, lesson plan design, leadership techniques, field trip planning, and risk management. Aspects of this course will also focus on development of outdoor activity skills. This course will involve tent camping and travel by van as part of a group experience.

SALM 4167 Expedition Leadership (3 credits) — *Prerequisite: SALM 3120 or permission of instructor.* This course is designed to provide individuals interested in leading groups on extended outdoor experiences with essential information relative to expedition success. Emphasis will be placed on leader judgments, creation of expedition outcomes, leadership styles, creating positive group environment, group processing, decision-making and consensus building, expedition behavior, logistics and trip planning, and risk management. A review of basic outdoor living skills will also be part of this course. This course will involve extended field experiences and travel by van.

SALM 4205 Issues and Trends in Sport Management (3 credits)—The purpose of this course will be to identify and analyze current factors affecting the field of Sport Management. The primary thrust of the course will be directed toward the modern day duties and responsibilities of a sports manager. Current trends in the Sport Management field will be researched and discussed. Specific course content will vary with the evolution of the field of Sport Management.

SALM 4210 Legal Issues and Risk Management in Sport and Leisure Activities (3 credits)—This course is intended to aid sports medicine personnel and sport and leisure service leaders in understanding the major legal concepts affecting the practices and procedures followed in their professions, and in initiating an active program of risk and liability management that will help ensure the safety of participants in these programs. This course has been identified as writing- and oral-intensive.

SALM 4215 Social Psychology of Sport and Leisure (3 credits)—An introduction to the psychological and sociological behavioral dimensions that underlie participation in exercises, fitness, recreational, and competitive sport activities.

SALM 4225 Management of Sport and Leisure Activities (3 credits)—To provide the student with knowledge of sport management in both athletics and leisure sport including management theories, roles and responsibilities.

SALM 4230 Fund-Raising in Sports (3 credits)—This course is designed to provide students with the knowledge to seek out resources from a wide range of possible sources and to use marketing and promotions skills to employ resources to yield optimum benefits.

SALM 4250 Internship in Sport and Leisure Management (12 credits)—This class will give the student the opportunity to put theory into practice. Students will work in a sport or leisure management agency for forty hours per week (minimum of 480 clock hours per semester) for an entire semester. Students will be consulted as to the sport or leisure management agency desired for the internship experience.

Science Education SCED

SCED 4020 Wildlife Conservation (3 credits)—*Prerequisite(s): Completion of eight credit hours of science.* Relationships of wild animals to the physical environment and to other organisms, including humans, with emphasis on man's attempts to restore and maintain habitats.

SCED 4321 Exploring and Discovery in Science (4 credits)—*Prerequisite(s): Admission to Teacher Education.* Completion of eight (8) credit hours of science from general education core. Completion of SCED 4020 Wildlife Conservation. This course provides a comprehensive integrated science content perspective in the areas of physical, life, earth, and space science. A laboratory component involving inquiry-based research will expand on the course content of conceptual understanding, content, skills, and dispositions in science including understanding of the nature of science.

SCED 4417/5417 Teaching Science in Secondary Schools (3 credits)—*Prerequisite(s): Twelve credits of science and upper-division standing.* Methods of teaching science in junior and senior high. Emphasis on classroom and laboratory techniques, demonstrations, selections of material, and visual aids.

SCED 4527/5527 Science Methods for Early Childhood (3 credits)—*Prerequisite(s): Admission to Teacher Education and successful completion of all undergraduate science classes; Corequisite(s): This course is to be taken with CUA1 4517/5517 and 4537/5537.* This course provides a PreK-4 science education perspective. Science teaching methodology, content, skills, and dispositions are examined with an emphasis on integration with mathematics and other appropriate subject areas. Learning needs of culture, gender, and special populations are explored. Students will be required to participate in field experience in PreK-4 settings.

SCED 4904 Independent Study in Science Education (1-6 credits)

SCED 4957/5957 Topics in Science Education (1-6 credits)—*Prerequisite(s): Dependent on subject matter.* Selected topics of current interest in science education. Offered upon sufficient demand for specific subject matter. May be repeated for different topics. Consultation with the instructor is recommended before enrollment.

Sociology and Anthropology SOAA

SOAA 3050 Appalachian Culture (3 credits)—*Prerequisite(s): ANTH 1240, SOCI 1020 or APST 2060.* This course explores varied aspects of Appalachian culture to consider issues of regional identity and culture change. Topics may include, for example, coal-mining, folk and faith healing, kinship and community, media and legend, folk art, and social protest.

SOAA 3350 Social Statistics (3 credits)—*Prerequisite(s): MATH 1530.* An introduction to applied statistics in the field of sociology and related disciplines

SOAA 3700 Peoples and Cultures of Latin America (3 credits)—An introduction to various cultures and nations in Latin America. Topics include indigenous cultures, cultural variation, economic development, political change and demographic processes.

SOAA 3800 Religion, Society, and Culture (3 credits)—*Prerequisite(s): SOCI 1020, ANTH 1240, or permission of instructor.* Analysis of the social and cultural dimensions of religion and the origins, functions, and place of religion in human societies.

SOAA 4357/5357 Mass Communications and Popular Culture (3 credits)—An examination of the impact of modern communications technology upon traditional lifestyles and world views, particularly entertainment during the 20th century.

SOAA 4410 International Field Experience (2-6 credits)—*Prerequisite: ANTH 4400 or SOAA 4627.* This course provides upper-level Anthropology/Sociology majors or minors an international field experience to apply skills and techniques learned in their ETSU coursework. Students may participate in a diversity of projects, including archaeological excavations and ethnographic fieldwork. The course is repeatable up to and including 6 hours.

SOAA 4627/5627 Ethnographic Field Work Techniques (3 credits)—*Prerequisite(s): ANTH 1240 or SOCI 1020.* An introduction to the information-gathering techniques and strategies employed by modern anthropologists, folklorists, and qualitative sociologists—including interviewing, recording, photography, transcription, and data analysis. Practical applications and cultural situations are also stressed.

SOAA/APST 4907/5907 Foodways of Appalachia (3 credits)—Traditional and developing food cultures of the Mountain South. Topics include: the historical roots of Appalachian cookery; food and class in Appalachia; Native American and African influences on mountain cuisine; immigrant cooking in the mountains; the rituals of the mountain table; the products of the land and larder; traditional food preservation techniques and beliefs; and the emergence and viability of sustainable agriculture and aquaculture.

SOAA 4957/5957 Special Topics in Sociology/Antropology (1-6 credits)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

SOAA 5820 Skills in Applied Sociology and Anthropology (3 credits)

Sociology SOCI

SOCI 1020 Introduction to Sociology (3 credits)—Sociology is the systematic study of social behavior. Topics include interaction, culture, inequality and social class, the changing society, socialization, subcultures, crime and deviance, family and religion, among others.

SOCI 2000 Marriage and the Family (3 credits)—An overview of the effects of societal change on marital and nonmarital relationships. Topics include premarital dynamics, singles, dual career families, family violence, and divorce.

SOCI 2020 Social Problems (3 credits)—*Prerequisite(s): SOCI 1020.* Sociological study of major current problems confronted in American society and the beliefs that compound them.

SOCI 3030 Gender and Society (3 credits)—*Prerequisite(s): SOCI 1020 or permission of instructor.* Study of the social construction of gender and its consequences for individuals and society. Examination of our cultural assumptions about gender identities, roles, behaviors, and the social processes that reproduce gender inequality. (spring)

SOCI 3060 Medical Sociology (3 credits)—Study of the concepts, theories, and methods of medical sociology with particular emphasis on

the analysis and application of the findings of contemporary research in medical sociology.

SOCI 3110 Minorities (3 credits)—*Prerequisite(s): SOCI 1020.* Examination of the relationships between dominant and subordinate racial, ethnic, and other groups in the U.S., the theoretical perspectives, the processes that create or maintain institutional discrimination, and current issues concerning intergroup relations.

SOCI 3150 Urbanization (3 credits)—*Prerequisite(s): SOCI 1020.* Processes of urbanization and the urban impact on rural life, the structure of the metropolis, segregation, slums, suburbs, mobility, disorganization, and cultural change.

SOCI 3210 Sociological Research (3 credits)—Methods used in investigating and reporting social phenomena.

SOCI 3300 Deviant Behavior (3 credits)—*Prerequisite(s): SOCI 1020.* An analysis of various types of deviance in society with an emphasis on the application of various theories. Topics include drug addiction, prostitution, mental illness, disability, sexual deviance, alcoholism, and domestic violence.

SOCI/CJCR 3310 Criminology (3 credits)—*Prerequisite(s): SOCI 1020.* An analysis of the major sociological theories of crime causation, sociological aspects of types of offenders, and techniques of measuring crime. This course is cross-listed with CJCR 3310 and counts in the Criminal Justice major, but it is not a writing-intensive course.

SOCI 3320 Juvenile Delinquency (3 credits)—*Prerequisite(s): SOCI 1020.* A study of the extent, causes, treatment, and prevention of delinquency.

SOCI 3444 Data Analysis (3 credits)—*Prerequisite(s): MATH 1530 and CSCI 1100.* Instruction on the use of SPSS and/or other software packages for analyzing social science data via statistics with an emphasis on interpretation and application.

SOCI 4018 Honors Thesis (3 - 6 credits)—Open to those in university honor programs only. A capstone experience serving as the culmination of an honors curriculum.

SOCI 4057/5057 Community Sociology (3 credits)—*Prerequisite(s): SOCI 3210, CJCR 2000, or PSYC 3201.* An examination of the issues and concepts of community and the principles of community-based research using theoretical and applied approaches.

SOCI 4087/5087 The Family in Transition (3 credits)—*Prerequisite(s): SOCI 1020.* An analysis of the changing family with emphasis on family theory.

SOCI 4157/5157 Sociology of the City (3 credits)—The sociology of modern urban centers with emphasis upon the development, social organization, and social change that characterize this aspect of modern society, and the influence of urban patterns upon the total society.

SOCI 4257/5257 Power, Wealth, and Poverty (3 credits)—*Prerequisite(s): SOCI 1020.* Examination of the theories and research concerning the distribution of power, wealth, and prestige in American society, and the impact of social class on life chances.

SOCI 4337/5337 Social Psychology (3 credits)—*Prerequisite(s): SOCI 1020.* Study of social interaction, the development of self, and the social construction of reality.

SOCI 4507/5507 Sociology of the Aging (3 credits)—*Prerequisite(s): SOCI 1020.* An application of basic sociological principles, theories, and research findings to the understanding of the aging and their relationships with other segments of the population.

SOCI 4557/5557 Population (3 credits)—*Prerequisite(s): SOCI 1020.* Major population characteristics, trends, and problems, primarily those of the United States.

SOCI 4807/5807 Modern Social Theory (3 credits)—*Prerequisite(s): SOCI 1020.* This course provides a comprehensive survey of key modern

social theorists and theories within the historical context of the emergence of the modern world order. Fall

SOCI 4900 Independent Studies (1-3 credits)

SOCI 4957/5957 Special Topics in Sociology (1-6 credits)

SOCI 4989-99 Cooperative Education (1-3 credits)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

SOCI 5050	Sociology of Education	(3 credits)
SOCI 5110	Contemporary Social Theory	(3 credits)
SOCI 5210	Sociological Research	(3 credits)
SOCI 5315	Seminar in Crime and Delinquency	(3 credits)
SOCI 5320	Program Evaluation	(3 credits)
SOCI 5444	Applied Data Analysis for the Social Sci.	(3 credits)
SOCI 5500	Topical Seminar	(3 credits)
SOCI 5600	Seminar in Medical Sociology	(3 credits)
SOCI 5620	Sociology of Age and The Life Course	(3 credits)
SOCI 5850	Supervised Internship	(1-6 credits)
SOCI 5870	Internship Placement Report	(3 credits)
SOCI 5900	Independent Studies	(1-3 credits)
SOCI 5989-99	Cooperative Education	(1-3 credits)
SOCI 5990	Readings and Research	(1-3 credits)

Social Work

SOWK

SOWK 1010 Introduction to Social Work (3 credits)—Introduces students to the profession of social work and provides an overview of the professional knowledge, skills, and values necessary for generalist social work practice. Students are introduced to the historical evolution of social work, the history of social welfare, the various fields of social work practice nationwide and in the Appalachian region, and general systems theory.

SOWK 1020 Professional Values and Ethics (3 credits)—This introductory course provides a forum for examining personal, professional, and societal values and for developing the skills needed to make ethical decisions in social work and in other helping professions. The course examines core professional values, principles, and ethical standards that are the bases for identifying ethical issues, for examining all possible resolutions and their potential outcomes or possible repercussions, and for reaching thoughtfully reasoned conclusions to complex ethical dilemmas. Boundary issues as a specific type of ethical concern are highlighted, as related to the roles of student, client, professional helper, and supervisor. This course introduces students to the practicalities of malpractice risk and liability.

SOWK 1030 Cultural Diversity (3 credits)—The dual purpose of this course is to introduce the knowledge necessary for social work practice with disadvantaged, marginalized, and oppressed groups and to advance a philosophy that people come first and must be treated with dignity and respect. Issues of power, privilege, prejudice, discrimination, oppression, civil rights, historical and legal heritage, and contemporary news events are central course components. Opportunities are provided for examining personal values and beliefs and their impact on interactions with minority groups. Although several aspects of diversity are examined, the emphasis is on race, class, gender, ethnicity, and affectional orientation. Implications for sensitive, effective, and affirming practice with minority groups are examined.

SOWK 1100 Social Service Resources (1 credit)—*Prerequisite(s) or Corequisite(s): SOWK 1010 and major status.* Designed to provide students the opportunity to develop and demonstrate knowledge and understanding of social work agencies and clientele. Additionally, the development of self-awareness is expected, particularly as related to the student's own suitability for social work in specific agencies.

SOWK 2400 Social Institutions In Appalachian Culture (3 credits)—Designed to provide an understanding and appreciation of the unique cultural characteristics of rural and Appalachian people, with a focus on the impact of major social institutions, e. g. , family, religion, social welfare, education, and economics. The role of generalist social

work practice in rural areas and in Appalachia is explored in order to prepare students to become more effective service providers in the region.

SOWK 2500 Interviewing and Recording Skills (3 credits)—*Prerequisite(s): SOWK 1010.* Provides a beginning knowledge base and the development of interviewing and recording skills essential for generalist social workers and those pursuing other human service professions. This course focuses on interviewing and recording techniques that can be applied to all levels of social work practice. Interviewing and recording skills are developed through the use of role play and videotaped scenarios. Systems theory is applied to the conscious selection of techniques to be used with various populations at different levels of practice.

SOWK 3000 Human Behavior/Social Environment I (3 credits)—*Prerequisite(s): SOWK 1010, SOWK 1020, SOWK 1030, SOAA 1020, PSYC 1310, and one of the following BIOL 1010/11, BIOL 1020/21, BIOL 1110/11 or HSCI 2010/11; Corequisite(s): SOWK 3010; Prerequisite(s) or Corequisite(s): HDAL 2310.* This course provides basic knowledge about human behavior from a person-in-environment perspective. It helps the student to recognize the unique challenges confronting individuals and families who suffer oppression and discrimination. It identifies the adaptive strategies that people employ to cope with adversity. It presents a strengths-based, problem-solving approach, which constitutes the assessment phase of generalist practice at the micro level.

SOWK 3010 Human Behavior/Social Environment II (3 credits)—*Prerequisite(s): SOWK 1010, SOWK 1020, SOWK 1030, SOAA 1020, PSYC 1310, and one of the following BIOL 1010/11, BIOL 1020/21, BIOL 1110/11 or HSCI 2010/11; Corequisite(s): SOWK 3000. Prerequisite(s) or Corequisite(s): HDAL 2310.* Provides a social work orientation to understanding human behavior in large groups, communities, and formal organizations. Theories for macro change are explored. The concept, function, and structure of communities and organizations as systems are examined. Explicit attention is given to the patterns and consequences of discrimination and oppression.

SOWK 3430 Social Welfare Policy and Services (3 credits)—*Prerequisite(s): PSCI 1120 and SOWK 1010.* This course addresses the history of social policies and subsequent programs put in place to address perceived social problems and includes legislative, judicial, and administrative efforts. Students develop an ability to analyze social policy as it relates to societal values, populations at risk of harm, the “status quo,” and the socio-political-economic climate of a particular time, including contemporary national policy debates.

SOWK 3462 Social Services for Children (3 credits)—Focuses on the development of child welfare programs and services, contemporary issues such as child neglect and abuse, and modes of professional intervention on behalf of children and families. Particular emphasis will be given to service provision in the Appalachian region.

SOWK 4210 Social Work Research (3 credits)—*Prerequisite(s): MATH 1530, CSCI 1100, SOWK 1010.* This course is designed to provide students with an understanding and an appreciation for the scientific approach. Students will have the opportunity to understand how the scientific approach is used to build a knowledge base for generalist social worker practice and how it is used to evaluate practice/program effectiveness. Standards for ethical behavior applicable to the scientific process are presented and discussed. Furthermore, this course will require the student to become involved in understanding and applying qualitative/quantitative methods, data analysis techniques, practice/program evaluation designs, and in raising pertinent social work research questions. This course also requires students to critically evaluate research articles pertinent to generalist social work practice.

SOWK 4310 Social Work Practice I (4 credits)—*Prerequisite(s): SOWK 2500, SOWK 3000, and formal admission to the social work major. Corequisite(s): SOWK 4320.* This course provides the general method as a

practice framework for beginning social work practice. Building on foundation knowledge, values, and skills introduced in SOWK 1020, SOWK 2500, and SOWK 3000, this course emphasizes an ecological-systems approach to problem solving. Students further develop this foundation as it relates to engagement, data collection, assessment, intervention, evaluation, and termination phases in service delivery with a variety of systems. Primary emphasis is on micro and small group systems. Students learn how to work effectively without bias or discrimination. Students are required to participate in community-based learning experiences.

SOWK 4320 Social Work Practice II (4 credits)—*Prerequisite(s): SOWK 2500, SOWK 3010, SOWK 3430, and formal admission to the social work major; Corequisite(s): SOWK 4310.* This course provides the general method as a practice framework for beginning social work practice and moves the beginning generalist practitioner to more complex macro systems. Emphasis is placed on the problem-solving techniques of problem identification, research and data collection, assessment, design and selection of planned change strategies, implementation, and evaluation. Nondiscriminatory practice is reinforced. Students are required to participate in community-based learning experiences that incorporate program planning and development activities.

SOWK 4367/5367 Seminar in Alcohol and Drug Abuse (3 credits)—This survey course provides a basic understanding of alcohol and drug abuse. Students are introduced to the various classifications of drugs, abuse symptomatology, and causes of abuse. The characteristics of high-risk groups are examined along with various treatment models and preventive efforts. General systems theory provides the framework for looking at this societal problem and professional involvement with it. Attention is given to the regulations controlling the use of drugs in society.

SOWK 4453 Social Work Field Practicum (16 credits)—*Prerequisite(s): Senior status; Completion of all required major courses and General Education Core requirements; Overall GPA of 2.25 and a 2.5 GPA in required SOWK courses.* This is a one-semester-block field experience placement involving over 500 clock hours of educationally directed and professionally supervised social work activities in a social service setting in Appalachia. The student also is required to participate in regularly scheduled field integration seminars on campus. The practicum allows application of the theoretical knowledge, professional values, and practice skills acquired throughout the curriculum so students can build on these practice elements in order to progressively engage in various roles of intervention and to employ a variety of methods. The purpose of the course is to enable the student to further develop generalist practice skills and to integrate professional knowledge, values, attitudes, skills, and theory with practice.

SOWK 4467/5467 Seminar in School Social Work (3 credits)—This course prepares students for licensure as a school social worker. It explores policies, practices, historical developments, and legislative trends affecting social work services in schools. School-community relationships are examined, as well as the impact of societal attitudes upon schools. Special emphasis is placed on the theory and practice expressed by the Tennessee Department of Education’s “Minimum Competency Requirements for School Social Workers K - 12,” “Criteria for the Evaluation of School Social Workers,” and NASW Standards of Social Work Services in schools.

SOWK 4517/5517 Crisis Intervention (3 credits)—This survey course explores the various types of crises and approaches to crisis intervention in professional practice. General systems theory is the basic underlying framework. Students engage in role play, simulations, and games, to develop beginning professional skills needed to work with individuals, families, groups, and communities in crisis.

SOWK 4567/5567 Human Sexuality (3 credits)—This survey course on human sexuality introduces students to sexual attitudes, sexual physiology and response, sexual techniques and behavior, reproduction

and reproductive control, sexually transmitted diseases, and how sexual behavior is learned and developed, i.e., psychosocial development and cultural impact. It provides students with the opportunity for value clarification and exploration of personal and social attitudes toward varying forms of sexual behavior and orientations.

SOWK 4900 Directed Independent Study (1-3 variable credit)—*Prerequisite(s):* Permission of instructor and formal admission to the major. Directed independent study on a topic that is related to social work practice and is of special interest to the student. Enables students to utilize research knowledge and skills in pursuing in depth a special area of interest. Students are provided guidance and direction by a faculty member who has expertise in the area of study.

SOWK 4928 Honors Study (3 credits)—*Prerequisite(s):* Permission of instructor and senior status in social work. Directed independent study or project on a topic that is related to social work practice and is of special interest to the student. The course is limited to senior social work majors who have attained a grade point average of 3.0 or above and show exceptional promise for the profession. Enables students to utilize research knowledge and skills in pursuing in depth a special area of interest. Students will be provided guidance and direction by a faculty member who has expertise in the area of study.

SOWK 4957/5957 Special Topics in Social Work (3 credits)—*Prerequisite(s):* Junior or senior status. Selected topics that relate to fields of practice, current issues in the profession, or area of special interest.

Graduate Course Listings

For Descriptions and Prerequisite(s) see the Graduate Catalog

SOWK 5101	Multicultural Practice	(3 credits)
SOWK 5102	HBSE I	(3 credits)
SOWK 5103	SW Practice I	(3 credits)
SOWK 5104	SW Policy & Programs	(3 credits)
SOWK 5106	Field Practicum I	(4 credits)
SOWK 5202	HBSE II	(3 credits)
SOWK 5203	SW Practice II	(3 credits)
SOWK 5205	Research I	(3 credits)
SOWK 5206	Field Practicum II	(4 credits)
SOWK 5303	AP/Individuals	(3 credits)
SOWK 5305	SW Research II	(3 credits)
SOWK 5306	AP Field I	(4 credits)
SOWK 5313	AP/Families	(3 credits)
SOWK 5xxx	Elective	(3 credits)
SOWK 5323	AP/Group	(3 credits)
SOWK 5403	AP/HSO	(3 credits)
SOWK 5405	SW Research III	(3 credits)
SOWK 5406	AP Field II	(6 credits)
SOWK 5430	Psychopathology	(3 credits)

**Spanish
SPAN**

SPAN 1010 Beginning Spanish I (3 credits)—A study of the four language skills of speaking, listening, reading and writing. Includes introduction to Hispanic culture.

SPAN 1011 Beginning Spanish for Health Care I (3 credits)—A study of the four language skills of speaking, listening, reading and writing, with an emphasis on vocabulary and cultural situations appropriate for health care professions. This course does not satisfy high school deficiencies for students enrolled in areas other than health care professions.

SPAN 1020 Beginning Spanish II (3 credits) — *Prerequisite:* A grade of at least C- in SPAN 1010 or with consent of Spanish coordinator. A study of the four language skills of speaking, listening, reading and writing. Includes introduction to Hispanic culture.

SPAN 1021 Beginning Spanish for Health Care II (3 credits) — *Prerequisite:* SPAN 1011. A continuation of the study of the four language skills: speaking, listening, reading, and writing, with an emphasis on vocabulary and cultural situations appropriate for health care professions. This course does not satisfy high school deficiencies for students enrolled in areas other than health care professions.

SPAN 2010 Second-Year Spanish I (3 credits)—*Prerequisite:* SPAN 1020. Intermediate Spanish: grammar review, oral practice, and writing. Emphasis on Hispanic culture and literature. (A grade of at least C- in SPAN 1020, or consent of the Spanish coordinator is required.)

SPAN 2020 Second-Year Spanish II (3 credits)— *Prerequisite:* A grade of at least C- in SPAN 2010 or with consent of the coordinator for Spanish. Intermediate Spanish: grammar review, oral practice, and writing. Emphasis on Hispanic culture and literature.

SPAN 3003 Basic Spanish Grammar (3 credits)—*Prerequisite:* SPAN 2020 or equivalent. A review of basic Spanish structures, such as the uses of ser and estar, object pronouns, and verb conjugation. This course is designed to consolidate the language skills acquired in the introductory-level courses and to build communicative skills and cultural competency.

SPAN 3033 Hispanic Readings and Composition (3 credits)—*Prerequisite:* SPAN 3003. May be taken concurrently. An introduction to Hispanic literature with emphasis on writing.

SPAN 3113 Spanish Conversation and Composition (3 credits)—*Prerequisite:* SPAN 3003. May be taken concurrently. Practice in conversation, with emphasis on idioms, syntax, and current expressions. Study of grammar through written compositions.

SPAN 3123 Applied Spanish: Introduction to Translation (3 credits) — *Prerequisite:* SPAN 3113. This is a Writing Intensive (WI) course that teaches basic translation skills through an interdisciplinary approach. Grammar-based written exercises and English/Spanish and Spanish/English translations from various professional fields are assigned and corrected in class. A ten- (10-) hour service-learning requirement involves students in a project that promotes cordial, supportive, and meaningful relationships between Spanish-speaking and English-speaking community members.

SPAN 3213 Spanish Phonetics and Pronunciation (3 credits)—*Prerequisite:* SPAN 3113. May be taken concurrently. An introduction to the phonetic system of Spanish and its spoken peculiarities in the Hispanic world.

SPAN 3313 Civilization of Spain (3 credits)—*Prerequisite:* SPAN 3113. Geography, history, and culture of Spain.

SPAN 3413 Civilization of Latin America (3 credits)—*Prerequisite:* SPAN 3113. Geography, history, and culture of Latin America.

SPAN 3513 Survey of Spanish Literature (3 credits)—*Prerequisites:* SPAN 3033 and SPAN 3113. Representative works from Spanish literature.

SPAN 3613 Survey of Spanish-American Literature (3 credits)—*Prerequisites:* SPAN 3033 and SPAN 3113. Representative works from Spanish-American literature.

SPAN 3713 Hispanic Poetry (3 credits)—*Prerequisites:* SPAN 3033 and SPAN 3113. Works of the principal poets of Spain and Spanish America.

SPAN 4007/5007 Golden Age Drama (3 credits)—*Prerequisites:* SPAN 3313 or SPAN 3513. A study of the origins of the Spanish theatre through the 17th century, with particular emphasis on Lope de Vega, Tirso de Molina, Juan Ruiz Alarcon, Calderon de la Barca, and Francisco de Rojas Zorrilla.

SPAN 4017/5017 Advanced Spanish Grammar I (3 credits)—*Prerequisite:* SPAN 3313. A study of complex grammatical aspects of the language such as ser vs estar, preterite vs imperfect, and the subjunctive.

SPAN 4018 Honors Thesis (3-6 credits)—Open to those in university honors programs only. A Capstone experience serving as the culmination of an honors curriculum.

SPAN 4027/5027 Advanced Spanish Grammar II (3 credits)—*Prerequisite:* SPAN 3113. A study of complex grammatical aspects of the language such as the subjunctive in adverbial clauses, prepositions, placement of descriptive adjectives, pronouns, verbs used reflexively, and the passive voice.

SPAN 4107/5107 Cervantes (3 credits)—*Prerequisites: SPAN 3313 or SPAN 3513.* A study of the representative works of Miguel de Cervantes Saavedra, with special emphasis on the Quijote.

SPAN 4117/5117 Hispanic Cinema (3 credits)—*Prerequisites: SPAN 3313, 3413, 3513, or 3613.* A study of cinematic works from Latin America and Spain within the context of Hispanic literature and culture.

SPAN 4127/5127 Applied Spanish: Introduction to the Spanish-Speaking Communities (3 credits)—*Prerequisite: SPAN 2020 or equivalent.* This is a community-based course which provides students with the knowledge and skills to effectively interact with members of Spanish-speaking communities in both social and professional contexts. This course teaches cultural competence and diversity through an interdisciplinary approach involving students and faculty in the promotion of cordial, supportive, and meaningful relationships between Spanish-speaking and English-speaking community members. Students complete substantial field experience in Spanish-speaking communities.

SPAN 4137/5137 Applied Spanish: Translation and Community Outreach (3 credits)—*Prerequisite: SPAN 3113.* Basic translation skills are taught with a focus on health care or legal translation during alternate years. Students prepare written translation exercises that are discussed and corrected in class. This class includes a ten (10) hour service-learning requirement.

SPAN 4147/5147 Applied Spanish: Interpretation and Community Outreach (3 credits)—*Prerequisite: SPAN 3113.* The basic interpretation skills of sight translation, consecutive, and simultaneous interpretation are taught with a focus on health care and legal interpretation during alternate years. Students prepare oral interpretation exercises that are presented and critiqued in class. This class includes a ten (10) hour service-learning requirement.

SPAN 4207/5207 Nineteenth-Century Spanish Literature (3 credits)—*Prerequisite: SPAN 3313 or SPAN 3513.* Selected works by the principal 19th-century novelists and dramatists of Spain.

SPAN 4307/5307 The Generation of '98 (3 credits)—*Prerequisite: SPAN 3313 or SPAN 3513.* The origins, development, and influence of this early 20th century renaissance of Spanish letters, with attention given to the most representative poets, dramatists, and novelists of the period.

SPAN 4407/5407 Twentieth-Century Spanish Literature (3 credits)—*Prerequisite: SPAN 3313 or SPAN 3513.* Selected works by the principal 20th century novelists and dramatists of Spain.

SPAN 4507/5507 Spanish Short Story (3 credits)—*Prerequisite: SPAN 3313, 3413, 3513, or 3613.* Spanish and Spanish-American short stories from the 19th and 20th centuries.

SPAN 4607/5607 Modernist Movement in Spanish America (3 credits)—*Prerequisite: SPAN 3413 or SPAN 3613.* A study of Rubén Darí'o, his contemporaries and followers.

SPAN 4707/5707 Spanish-American Theatre (3 credits)—*Prerequisite: SPAN 3413 or SPAN 3613.* Selected works of the principal 19th- and 20th-century dramatists of Spanish America.

SPAN 4737/5737 Art at the Prado Museum (3 credits)—*Prerequisite: SPAN 2020 or equivalent.* A study of the major school of painting at the Prado, with emphasis on the Spanish artists.

SPAN 4807/5807 Spanish-American Novel (3 credits)—*Prerequisite: SPAN 3413 or SPAN 3613.* Selected works by the principal novelists of Spanish America.

SPAN 4903 Special Studies in Spanish (1-3 credits)—*Prerequisite: SPAN 3113.* Designed to provide opportunities for study in areas not provided for in regular course offerings for undergraduates. Students desiring to enroll must obtain permission from the instructor.

SPAN 4957/5957 Topics in Spanish (3 credits)—*Prerequisite: SPAN 3113.* This course gives students an opportunity to study special problems and new developments in the field of Spanish.

Graduate Course Listings

For Descriptions and Prerequisite(s) see the Graduate Catalog

SPAN 5003	Colonial Literature	(3 credits)
SPAN 5103	Contemporary Spanish Novel	(3 credits)
SPAN 5203	Contemporary Spanish-American Novel	(3 credits)
SPAN 5303	Contemporary Spanish Theatre	(3 credits)
SPAN 5403	Contemporary Spanish-American Theatre	(3 credits)
SPAN 5903	Special Studies in Spanish	(1-6 credits)

Speech SPCH

SPCH 1300 General Speech (3 credits)—A study of effective intrapersonal, interpersonal, group, and public communication, as well as an introduction to communication theory and nonverbal communication.

SPCH 2300 Public Speaking (3 credits)—The study and practice of preparing, delivering, and analyzing public speeches.

SPCH 2320 Principles of Speech: Argumentation and Debate (3 credits)—An introduction to oral argumentation and debate, including case construction techniques, case analysis and criticism, and research methods.

SPCH 2330 Communication Theory (3 credits)—This course applies modern and traditional communication theories as analytical tools to understand how communication operates in a variety of settings.

SPCH 2999 Cooperative Education (1-3 credits)

SPCH 3300 Analysis and Criticism: Qualitative Research (3 credits)—A study of formats for analyzing and evaluating persuasive speeches, essays, editorials, television programs, and advertisements.

SPCH 3310 Intrapersonal Communication Processes (3 credits)—A study of those processes that take place within communicators as they speak, listen, and process information with special emphasis on the functional and dysfunctional effects of those processes on the cognitive domain.

SPCH 3330 Quantitative Communication Research Methods (3 credits)—A study of the methods and issues concerning designing, implementing, and evaluating communication research in intrapersonal, interpersonal, group, public speaking, and mass media situations.

SPCH 3340 Rhetorical Criticism (3 credits) — A study of the methods for analyzing oral, written, and non-discursive texts. Students will learn traditional and contemporary approaches to understanding the meanings of public messages.

SPCH 3346 Speaking for Social Change (3 credits) — *Prerequisites: SPCH 2300 or 2320 or permission of instructor.* Provides advanced-level training in various forms of public address and channels that turn training into civic engagement efforts that challenge issues of privilege, power, and difference.

SPCH 3350 Interpersonal Communication (3 credits)—A study of the theoretical foundations and the applied practice of interpersonal and relational communication.

SPCH 3380 Dynamics of Group Leadership (3 credits)—*Prerequisite: Either SPCH 1300, 2300, or 2320.* A study of communication in small groups with emphasis on building leadership skills and improving group problem-solving efforts.

SPCH 3390 Persuasion (3 credits)—A study of available means of influencing another person/group and conducting mass campaigns and advertising. Emphasis is on influence through the speech medium, but other verbal and nonverbal channels of persuasion are considered.

SPCH 4018 Honors Thesis (3-6 credits)—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

SPCH 4200 Gender and Communication (3 credits) — A study of how communication influences gender and gender influences communication. Explores communication practices that show the most promise for fostering more humane living for women and men.

SPCH 4210 Family Communication (3 credits)—Explores how family systems use communication to create, sustain, and change individual identity and social reality. This course broadly construes the concept of family.

SPCH 4317/5317 Rhetoric and Public Address (3 credits)—Historical study of rhetorical theory as applied to manuscripts, speakers, and audiences.

SPCH 4346 Business and Professional Communication (3 credits)— *Prerequisite: Either SPCH 1300, 2300, or 2320.* A study of communication insights and development of skills to achieve professional competence.

SPCH 4356 Intercultural Communication (3 credits) — This course explores theories, research, and practice of cross-cultural communication. Cultural differences and similarities will be explored, as will methods for improving intercultural communication.

SPCH 4357/5357 Communication in Organizations (3 credits)—A study of communication needs, problems, and practices within various organizations.

SPCH 4366 Communication Ethics (3 credits)—A study of ethical principles of interpersonal and public communication, with special attention to the practice of the communication professions.

SPCH/PUBH 4377/5377 Health Communication (3 credits)—A study of the interpersonal, group, organizational, and public communication processes that shape beliefs, decisions, and behavior regarding health, sickness, and health care. The course examines the attitudes and actions of many participants in health communication, including citizens, health professionals, and those engaged in public debate of health issues. Students cannot receive credit for both SPCH 4377 and PUBH 4377.

SPCH 4380 Speech Communication Internship (3 credits)—A supervised experience in an agency, business, church, or other organization in a position that significantly utilizes theories and skills of speech communication.

SPCH 4417/5417 Teaching Secondary Speech and Theatre (3 credits)—May not be applied to major or minor in speech or theatre. A study of speech and theatre teaching methods for the secondary school.

SPCH 4437 Conducting Secondary Speech Program (3 credits)—A study of the co-curricular activities related to the effective curricular offering in the secondary school.

SPCH 4607/5607 Speech Practicum (3 credits, repeatable)—*Prerequisite(s): Permission of instructor.* A practical study experience with appropriate supportive research. May be repeated.

SPCH 4900 Independent Studies (1-3 credits)—*Prerequisite(s): Permission of instructor.* Designed to provide opportunities for study in subject matter areas not provided in the regular course offerings. May be repeated.

SPCH 4957/5957 Special Topics in Speech and Theatre (1-6 credits)

SPCH 5607	Speech Practicum	(3 credits)
SPCH 5900	Independent Studies	(1-3 credits)
SPCH 5950	Research Methods in Speech and Theatre	(3 credits)
SPCH 5957	Special Topics in Speech and Theatre	(1-6 credits)
SPCH 5960	Thesis in Speech-Theatre	(1-6 credits)
SPCH 5990	Readings and Research	(1-3 credits)

**Special Education
SPED**

SPED 2300 Exceptional Learners in Schools and Communities (3 credits)—This course will enable the student to identify the psychological, physical, educational, medical, behavioral, and learning characteristics and needs of individuals with various disabilities, as well as students from diverse cultural, social, ethnic, and racial backgrounds and adopt instructional techniques to fit individual needs. Inclusion of students with disabilities will be emphasized. An understanding of legislation, regulations, and litigations related to serving individuals with disabilities will enable the student to correlate individualized educational programs with the principles of normalization and least-restrictive environment. The integration and working relationships of families, school, vocational, and local service agencies will be addressed to provide an understanding of assistance and referral networks. Students are required to complete 10 hours of service learning over the course of the semester in a setting with individuals with disabilities. (fall, spring, summer)

SPED 3300 Instructional Methodology in Special Education (3 credits)—This course prepares the teacher candidate to design, implement, and evaluate instructional sequences and overall effectiveness of school programs serving learners with special needs. Students learn to incorporate information from assessments into Individualized Educational Program objectives, write, and sequence annual and short-term goals, emphasizing parent involvement, values, and choice, and implement research-supported instructional strategies and practices. (fall; spring; summer of 2012 only; Sevierville cohort)

SPED 3322 Early Intervention Strategies for the Exceptional Child (3 credits)—A lecture course designed to relate child development to the social, educational and familial needs of the child with disabilities. This course will cover the various characteristics of young children with special needs and their families, across and within classification. Particular emphasis will focus on how these traits impact on the child's developmental rate, abilities, and sequence. Some intervention strategies will be covered. A field experience in an early childhood program will be required. (spring)

SPED 3350 Medical Aspects in Special Education (3 credits)—*Prerequisite(s): SPED 2300.* This course provides information on the medical aspects of developmental disabilities. This course will provide students with a general knowledge of the medical conditions more commonly seen in children with disabilities. It will familiarize students with common terminology, medications, procedures, equipment, and interventions used with children with medical complications frequently related to developmental disabilities. Regulation covering teacher responsibilities in regards to medical conditions will be covered. (spring; Sevierville cohort)

SPED 3365 Integrating Functional Skills into Curriculum (3 credits)—*Prerequisite: Admission to teacher education.* This course provides curriculum approaches and strategies to enable the student to design, implement, and monitor functional and age-appropriate programs for children and youth with moderate and severe disabilities in both school and community-based settings. Course content is to include domestic living, community mobility and social instruction, prevocational and vocational training and advocacy to accommodate a viable transition toward independent adult living. Field work is required. (spring; Sevierville cohort)

SPED 3400 Behavior Management for Individuals with Disabilities (3 credits)—*Prerequisite(s): SPED 2300; Corequisite(s): SPED 3410.* A course designed to provide the student with opportunities to learn about and practice various management techniques appropriate for children with disabilities in normal and special settings. (fall)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

SPCH 5100	Foundations of Communication	(3 credits)
SPCH 5200	Gender and Communication	(3 credits)
SPCH 5300	Qualitative Research in Communication	(3 credits)
SPCH 5317	Rhetoric and Public Address	(3 credits)
SPCH 5330	Applied Communication Theory	(3 credits)
SPCH 5357	Communication in Organization	(3 credits)
SPCH 5377	Health Communication	(3 credits)
SPCH 5380	Sexual Health Communication	(3 credits)

SPED 3410 Preclinical Experience in Behavior Management (1 credit, may be repeated)—*Corequisite(s): SPED 3400.* Preclinical experience in special education is a supervised opportunity for students to gain experience in classroom and other settings which provide direct instruction to children and youth with disabilities. The student will work with the classroom teacher to target classroom behavior problems and develop, implement, and evaluate the effects of interventions for that behavior. Thirty (30) hours of field work is required. (fall; Sevierville cohort)

SPED 3445 Assistive Technology (3 credits)—*Prerequisite: Admission to teacher education.* This course provides an in-depth examination of the applications of assistive technology for individuals with disabilities as it relates to teaching and learning in special education. Existing research with students with special needs will be reviewed, and new applications of existing and developing technology will be explored. This course meets the requirements for a Technology Intensive. (spring; Sevierville cohort)

SPED 4237/5237 Educating Persons with Learning Disabilities (3 credits)—This course addresses the process of assessing, designing, and delivering instruction to students with learning disabilities. Philosophical and practical perspectives will be integrated into a supportive framework of best practices that encompass both diagnosis and intervention. The latest research findings and most current practices in identifying and providing instruction to students with learning disabilities are incorporated. In addition, students are presented with information regarding the specific academic and social areas needed for instruction.

SPED 4350 Special Education Workshop (1-3 credits)—Special workshops covering various types of exceptionalities and issues associated with exceptionality. (fall, 2009 only; spring)

SPED 4411 Preclinical Experience in Strategies for Individuals with Severe Behaviors (1 credit)—*Prerequisites: SPED 3400 and admission to teacher education; Corequisite: SPED 4725.* Preclinical experience in special education is a supervised opportunity for students to gain experience with children and youth who engage in challenging behavior. The student will work with the classroom teacher and university supervisor to conduct a functional assessment and develop a behavior support plan. Emphasis will be placed on the application of strategies and techniques covered in SPED 4725. Thirty (30) hours of field work is required. (spring)

SPED 4420 Preclinical Experience in Management Strategies for Severe Behavior Disorders (1 credit) — *Prerequisite(s): SPED 3400 and admission to teacher education; Corequisite: SPED 4725.* Preclinical experience in special education is a supervised opportunity for students to gain experience with children and youth who engage in challenging behavior. The student will work with the classroom teacher and university supervisor to conduct a functional behavior assessment and develop a behavior support plan. Emphasis will be placed on the application of strategies and techniques covered in SPED 4725.

SPED 4427/5427 Persons who are Gifted (3 credits)—This course provides an in-depth examination of the special needs of children who are gifted and talented. Topics covered include definitions and characteristics of gifted and talented, content modifications for the gifted, and information-processing strategies.

SPED 4477/5477 Special Education Assessment (3 credits)—*Prerequisite: SPED 2300.* This course covers both formal, informal, curriculum-based diagnostic and assessment instruments. Their usefulness and non-usefulness will be covered. Students will have experience in the administration and scoring of at least one nationally norm-referenced test. Students will complete one case study. (spring; Sevierville cohort)

SPED 4487/5487 Collaboration with Families, Agencies, and Schools (3 credits)—*Prerequisite: Admission to teacher education.* This course is designed to introduce students to the principles, problems, and procedures of working in collaboration with parents of individuals with disabilities,

as well as with agencies and professional organizations involved in the delivery of services to persons with disabilities. The course provides an overview of different approaches, current issues, and problems involved in working in collaboration with families and multiple agencies. Emphasis is placed on serving as a member of a professional team, interviewing and consulting with teachers and parents, and providing leadership in instruction and instructional adaptation. (spring)

SPED 4497/5497 Special Education Curriculum (3 credits)—*Prerequisites: SPED 3300 and admission to teacher education.* This course provides information on effective curriculum and instructional approaches used to help students with mild disabilities achieve mastery and proficiency in academic skills. Research-based approaches to teaching students with mild disabilities in the areas of reading, content area instruction, and study skills will be covered. (spring)

SPED 4627/5627 Educating Persons with Mental Retardation (3 credits)—This course discusses a variety of topics related to the field of mental retardation. Specific topics include the following: types, nature, and causes of mental retardation, characteristics of persons with mental retardation, assessment and identification procedures, and instructional strategies relating to the education of persons with mental retardation. Field experience is required.

SPED 4700 Inclusion Modifications (3 credits)—*Prerequisites: SPED 3300 and admission to teacher education. Corequisite(s): SPED 4710.* This course is designed to provide the student with skills needed to interpret curriculum guidelines and develop goals and objectives for students with disabilities of all grade levels to function in the least restrictive environment. Students will develop the ability to select and adapt strategies and materials to learning styles of students with disabilities or students identified as being at risk for future learning problems. Research-based approaches to teaching mathematics and written and oral language will be covered. This course meets the requirements for a Writing-Intensive Course. (fall – not offered fall 2009)

SPED 4710 Preclinical Experience in Special Education (2 credits)—*Corequisite(s): SPED 4700.* Preclinical experience in special education is a supervised opportunity for students to gain experience in the classroom and other settings which provide direct instruction to children and youth with disabilities. Techniques designed to increase task engagement and facilitate inclusion of students with special needs into the general education classroom will be explored and practiced. Sixty hours of field work is required. (fall)

SPED 4725 Management Strategies for Individuals with Severe Behaviors (3 credits)—*Prerequisite(s): SPED 3400 and admission to teacher education; or consent of the instructor; Co-requisite: SPED 4411.* This course is designed to instruct students in management strategies related to persons with disabilities who demonstrate severe challenging behaviors. Particular emphasis will be given to functional assessment but the course will include instruction in ecological assessment, data-based decision-making, and instructional strategies that can be used to develop interventions for children and youth with severe behavior disorders. There is a requirement for a functional behavioral assessment of a student or adult with a challenging behavior. (spring)

SPED 4750 Instructional and Transitional Services for Adolescents and Young Adults with Disabilities (3 credits)—*Prerequisite(s): admission to teacher education.* This course is designed to provide the student with skills to implement a transition program from school to career and daily living for individuals with disabilities, regardless of category of handicaps, of all age levels. Areas to be covered include vocational/career assessment, design and implementation of individualized programs utilizing integration of the roles of family, agencies, and business and industrial community. (fall)

SPED 4757/5757 Curriculum-Based Assessment (3 credits)—*Prerequisites: SPED 4477 and admission to teacher education.* This course is

designed to help students acquire assessment skills needed to make instructional decisions, monitor progress and promote successful participation in the general education and special education curricula. Classroom-based methods of curriculum, learning, performance, and behavioral assessments will be presented. including data collection, designing and implementing interventions making curricular adaptations, and using data to make instructional decisions. (fall, even years; Summer 2013 for Sevierville cohort)

SPED 4850 Student Teaching in Special Education (6 credits)—*Prerequisite(s): Admission to teacher education and student teaching.* Student teaching in Special Education is a prearranged, supervised student teaching experience in a special education setting for one semester, leading to licensure in modified and/or comprehensive special education. Over the course of the semester the students will increase their roles in the classroom, culminating in assuming the roles and responsibilities of a fully functioning special educator. Written plans, journal, and student teaching portfolio will be developed and maintained. Placements will be made within a 45-minute radius of ETSU main campus. (fall, spring)

SPED 4957/5957 Special Topics in Special Education (1-6 credits) (fall)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

SPED 5001	Critical Issues in Special Education	(3 credits)
SPED 5010	Introduction to Young Special Needs Children and Their Families	(3 credits)
SPED 5030	Intervention with Developmentally Delayed Preschoolers	(3 credits)
SPED 5040	Interventions with Developmentally Delayed Infants and Toddlers	(3 credits)
SPED 5050	Assessment of Young Children	(3 credits)
SPED 5060	Professional Seminar in Early Intervention	(3 credits)
SPED 5237	Educating Persons with Learning Disabilities	(3 credits)
SPED 5250	Special Education Workshop	(1-3 credits)
SPED 5365	Integrating Functional Skills into the Curriculum	(3 credits)
SPED 5410	Preclinical Experience: Behavior Management	(1 credit)
SPED 5427	Educating Persons Who are Gifted	(3 credits)
SPED 5445	Incorporating Assistive Technology into the Curriculum	(3 credits)
SPED 5477	Special Education Assessment	(3 credits)
SPED 5487	Collaboration with Families, Agencies, and Schools ..	(3 credits)
SPED 5497	Curriculum in Special Education	(3 credits)
SPED 5500	History, Issues, and Trends in Educating Exceptional Learners	(3 credits)
SPED 5560	Advanced Practicum in Special Education	(3 credits)
SPED 5627	Educating Persons with Mental Retardation	(3 credits)
SPED 5700	Instructional Techniques for the Inclusive Classroom	(3 credits)
SPED 5725	Management Strategies for Severe Behaviors	(3 credits)
SPED 5750	Transition to Adult Life and the World of Work	(3 credits)
SPED 5757	Curriculum-Based Assessment	(3 credits)
SPED 5825	Preclinical Experience in Curriculum	(1 credit)
SPED 5850	Preclinical Experience in Special Education	(6 credits)
SPED 5957	Topics in Special Education	(1-6 credits)

**Service-Learning
SRVL**

SRVL 1020 Introduction to Service-Learning in the Community (3 credits)—This course allows the student to study the role of the volunteer and to be involved in service and learning in area agencies in order to provide a bridge between the campus and community populations. Integral components of class time include critical thinking, reflective practices as related to service, and honing the caring capacity of the individual. Emphasis is placed on oral and writing intensives and on familiarizing the student with potential career choices. Requires a 30-hour individual service placement and a group project. (fall, spring, summer)

SRVL 2000 Advanced Service-Learning (3 credits)—*Prerequisite(s): Completion of SRVL 1020 or instructor permission.* A continuation of work of introductory course: group work to produce a project of lasting community impact, area agency tours, and in-depth study of issues. (spring)

SRVL 3000 Cherokee Immersion Project (3 credits)—*Prerequisite(s): Permission of instructor required;. Students must contact instructor*

for interview prior to registering for courses; Corequisite(s): PHED 2555. Six-week course offered in pre-summer and first session. Students study the history and culture of the Cherokee prior to spending three weeks camping on Qualla Boundary, North Carolina, and participating in service projects designated by the Cherokee.

SRVL 4000 Ecomposition: Reflective Writing in the Field (3 credits)—*Prerequisite(s): Permission of instructor.* The course will introduce students to a different way of seeing and exploring their world through reflective writing, emphasizing place and the role of humans in that place. Requiring service-learning and travel, the course may be offered in conjunction with other courses. Summer

**Storytelling
STOR**

STOR 4147/5147 Basic Storytelling (3 credits)—Study of and practice in storytelling. Uses of storytelling in various settings including classrooms, libraries, churches, and homes as public events.

STOR 4817/5817 Practical Applications of Storytelling: National Storytelling Festival Experience (1 credit)—This course provides the student with training in planning, directing, and administering a storytelling festival; Festival activities introduce the student to various storytelling styles and content

STOR 4827/5827 Storytelling Resource Evaluation (1-6 credits)—This course is designed to prepare the student to organize and participate in a storytelling festival.

STOR 4957/5957 Topics in Storytelling (1-6 credits)—*Prerequisite(s): Dependent on subject matter.* Selected topics of current interest in reading. Offered upon sufficient demand for specific subject matter. May be repeated for different topics. Consultation with the instructor is recommended before enrollment.

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

STOR 5200	Contemporary Issues in Storytelling	(1-3 credits)
STOR 5230	Advanced Storytelling	(3 credits)
STOR 5830	Storytelling Institutes	(1-2 credits)
STOR 5840	Story Dramatization	(1-3 credits)
STOR 5850	Story Performance	(1-3 credits)
STOR 5860	Story Crafting	(1-3 credits)
STOR 5870	Multicultural Storytelling	(1-3 credits)
STOR 5880	Storytelling, Journal Editing, and Publishing	(1 credit)
STOR 5890	Historical and Psychological Foundations of Storytelling	(3 credits)
STOR 5900	Independent Study in Reading	(3 credits)
STOR 5960	Thesis	(1-6 credits)
STOR 5961	Storytelling Capstone Project	(3 credits)
STOR 5990	Reading	(1-3 credits)

**Surveying and Mapping Science
SURV**

SURV 1038 Honors Orientation Seminar (1 credit)—*Prerequisite(s): Admission to College of Business and Technology or University Honors Program.* This course will fully orient the student to the College expectation for an honors student. Discussion and activities will relate to preparation for academic success and developing information technology skills. (on demand)

SURV 2038 Honors Professional Ethics (3 credits)—*Prerequisite(s): Admission to the College of Business and Technology, or University Honors Program, and Sophomore standing.* A case-study approach to basic ethical issues likely to confront engineer, computer scientists, family and consumer scientists, geographers and surveyors in their professional practices.

SURV 2550 Surveying Measurement Fundamentals (4 credits)—*Prerequisite(s) MATH 1720 or permission of instructor.* Principles of field data acquisition. measurements of distance, angle, and elevation using tapes, transits, and levels. basic surveying computations of elevations, directions, traverse closures and areas, magnetic directions, preparation of topographic maps from radial measurements, basic measurement error theory. Lectures and field labs. (fall; spring; summer, on demand)

SURV 2560 Surveying Graphics (4 credits)—*Prerequisite(s):* One year of technical drawing or equivalent or permission of instructor. Graphical communication in surveying and mapping, fundamentals of projection, map projection theory, 3-D viewing, spatial relationships and viewpoints, tracing, plotting and drafting maps, plats, profiles, cross-sections, sketches for field notes and presentations in technical reports, map accuracy standards, plotting data from field notes, contour theory, computations related to survey drafting. (fall)

SURV 3048 Honors Methods of Research (3 credits)—*Prerequisite(s):* Admission to the College of Business and Technology or University Honors Program. Analysis of the materials and methods of research. (on demand)

SURV 3510 Engineering and Construction Surveys (4 credits)—*Prerequisite(s):* SURV 2550; *Corequisite(s):* SURV 2560, or permission of instructor. Route and construction surveying, instrument adjustment and calibration, use of optical and electronic measuring instruments, large-scale site surveying and mapping, mine surveying, and miscellaneous field surveys. Lecture and lab. (spring)

SURV 3520 Land Survey Systems (2 credits)—The historical development, description, and basic legal land boundary elements related to the land survey systems in the U.S. state plane coordinate systems, deed, plat, and other land boundary-related recording systems, concept of the cadastre. (fall)

SURV 3530 Survey Measurement and Computational Analysis (4 credits)—*Prerequisite(s):* MATH 1910, SURV 3510. Nature of measurement, statistical analysis of random errors in measurements, propagation of errors, survey standards and design specifications, development of coordinate geometry and trigonometric solutions of plane surveying problems, programming hand-held field computers, analysis of errors and mistakes in indirect measurement. (fall, even years - A)

SURV 3540 Surveying Projects (3 credits)—*Prerequisite(s):* SURV 2560 and SURV 3510; *Corequisite(s):* SURV 4537, SURV 4547, SURV 4550, or permission of instructor. Projects utilizing principles learned in previous courses, with emphasis on training as group leader and in team participation to analyze and solve surveying field problems arising in surveying practice, planning and execution of projects, field identification of natural and man-made features. (summer, use as co-op)

SURV 3550 Advanced Surveying Mathematics (3 credits)—*Prerequisite(s):* SURV 3530; *Corequisite(s):* MATH 2010. Mathematical methods used in surveying sciences, weights of observations, precision of indirectly determined quantities, error ellipses, 2-D and 3-D coordinate transformations, least squares adjustments of survey data with applications to observed data with redundant measurements, computer programming of survey adjustments. (fall, even years - B)

SURV 3560 Geodetic Science (4 credits)—*Prerequisite(s):* MATH 1910, SURV 3510, and SURV 3520. Application of spherical trigonometry to earth measurements, ellipsoids, spheroids, flattening, eccentricity, use of geodetic control, relationship between longitude, latitude, and state plane coordinates, geodetic leveling and traverse, astronomic observations for precise azimuth, latitude, and longitude, crustal movements, tides, seismic soundings, satellite observations, and GPS. (fall, even years - C)

SURV 3630 Surveying Hydrology I (4 credits)—*Prerequisites:* MATH 1910, PHYS 2020, PHYS 2021; *Corequisite:* SURV 3510 or consent of instructor. Introduces the theory and practice of hydrologic analysis and design, analytical understanding of the basic phenomena of hydrology, and the study of a variety of practical quantitative methods for solving hydrologic problems. (fall, even years - B)

SURV 4038 Honors International Study (3 credits)—*Prerequisite(s):* Satisfactory completion of all College of Business and Technology Honors courses or college honors committee approval. This course will consist of a two-week

international study and cultural experience in addition to a pre-tour orientation. (on demand)

SURV 4500 Senior Surveying Projects (2 credits)—*Prerequisite(s):* SURV 2560, SURV 3510, and SURV 3520. *Co-requisite:* SURV 4537 or permission of instructor. Project oriented course that will demonstrate competence of graduating students. Completed projects will show graduates abilities to potential employers and indicate skills at graduation. (fall, even years - C)

SURV 4517/5517 Photogrammetry (4 credits)—*Prerequisite(s):* SURV 3510, and SURV 3520, or permission of instructor. Use of aerial photographs for mapping, geometry of single photo and stereographic models, scale and relief displacement, vertical and tilted photos, parallax, photo mosaics, ground control, stereoplotters, resection, orthophotos, oblique photos, remote sensing. Lecture and lab. (fall, even years - A)

SURV 4520 Survey Science Topics (3 credits)—*Prerequisite(s):* SURV 2560 and SURV 3520; *Corequisite(s):* SURV 3510 or permission of instructor. An overview of surveying and mapping sciences not covered in other courses, including hydrographic surveying, mine surveying, surveying business practices, ethics, dendrology, and similar subjects. (fall, even years - B)

SURV 4537/5537 Land Boundary Location (4 credits)—*Prerequisite(s):* FNCE 3130, SURV 2560, SURV 3510, and SURV 3520 or permission of instructor. Role of the surveyor in retracing land boundaries, methods of boundary establishment, classification and analysis of boundary evidence, laws governing riparian boundaries, preparing deed descriptions and survey plats, preservation of survey evidence, surveyor as expert witness, ethics, liability, and professionalism in surveying. Lecture and lab. (fall, even years - C)

SURV 4547/5547 Land Subdivision and Platting (4 credits)—*Prerequisite(s):* SURV 4537 or permission of instructor. Physical elements of designing land subdivisions including circulation systems, sewer systems, drainage systems, soils and earthwork grading considerations, erosion control, lot and block arrangement, topography and existing land use factors, geometric analysis procedures, presentations to city planning and zoning boards, legal issues and ethics. (fall, even years - A)

SURV 4550 Automated Surveying and Mapping (3 credits)—*Prerequisite(s):* SURV 3510, and third-year standing in surveying. Use of computer-aided drafting and mapping from surveyed field data, familiarization with hardware and software available for surveying and mapping computations and drafting, data storage and output from automated devices used in surveying, use of total stations and electronic field data collection systems, field-to-finish projects. (fall, even years - A)

SURV 4567/5567 Positioning with GPS (3 credits)—*Prerequisite(s):* SURV 3560 or permission of instructor. A course designed to utilize GPS for data collection and post-processing, methods for adjusting networks, explore the reliability of networks, use of continuously operating reference systems (CORS), geometry of satellite constellation, vector processing strategies, the effects of atmospheric constraints on long baselines, use of on-the-fly technology, precise ephemeris generation, and differential corrections. (fall, even years - A)

SURV 4617/5617 Digital Imagery Processing (3 credits)—*Prerequisite(s):* MATH 1920, SURV 4517/5517, or permission of instructor. Use of software to analyze, enhance, and display satellite images from many sources. Project based course to determine needs for land use planning, environmental preservation, and sustainable development. Presentations to local planning departments and other interested parties. (fall, even years - B)

SURV 4630 Surveying Hydrology II (4 credits)—*Prerequisites:* SURV 3530 and SURV 3630 or consent of instructor. Understanding of the statistical methods in hydrology and introduction to subsurface hydrology and water quality estimation. (fall, even years - C)

SURV 4900 Independent Study in Surveying and Mapping Science (1-6 credits)—*Prerequisite(s):* Minimum of nine credits earned in the subject area and approval of the instructor who will supervise the study. A surveying/mapping problem by arrangement with a faculty member. An independent study plan is developed, approved, and then completed. Usually a technical report and laboratory/field experience required.

SURV 4957/5957 Special Topics in Surveying and Mapping Science (1-6 credits)—*Prerequisite:* As determined on a topic by topic basis. Special topics of current interest to groups of students concerning content not presented in regular course offerings. May be repeated for credit if materials covered are significantly different or advanced. (on demand)
(A=Spring 09, Fall 10, Spring 12, Fall 13, Spring 15, Fall 16; B=Fall 09, Spring 11, Fall 12, Spring 14, Fall 15, Spring 17; C=Spring 10, Fall 11, Spring 13, Fall 14, Spring 16, Fall 17)

Theatre THEA

THEA 1030 Introduction to the Theatre (3 credits)—A study of the dramatic arts and modes of theatrical production for the understanding and appreciation of the living theatre as a cultural force in society.

THEA 1520 Stagecraft I (3 credits)—An introduction to the tools and materials used in theatrical production.

THEA 1530 Stagecraft II (3 credits)—*Prerequisite:* THEA 1520. An exploration of construction techniques used in theatrical production.

THEA 1800 Theatre Laboratory (1 credit)—Practical directed experience working on a construction and/or running crew for an ETSU Theatre production. Experience can be in scenery, lighting, costuming, makeup, properties, sound, or box office. Type of experience is determined by the instructor.

THEA 2118 Artistic Experience I (3 credits)—Open to those in the Honors Scholars Program only. A study of the history and scope of primarily Western theatre, its production, its performance, and its effect on and reflection of culture.

THEA 2200 Oral Interpretation of Literature (3 credits)—Interpretation and oral performance of poetry, prose, and drama. Includes theory, structure, and style.

THEA 2420 Theatre Design Basics (3 credits)—*Prerequisite(s):* THEA 1520, THEA 1530. An introductory course in scenery, costuming, and lighting design for the stage.

THEA 2500 Creative Drama (3 credits)—Methods of organizing and developing rhythmic movement, story dramatization, improvisation, and related dramatic activities for children.

THEA 2510 Acting I (3 credits)—An introductory acting terminology and technique course, utilizing exercises, improvisations, research, and scene study.

THEA 2525 Stage Makeup (3 credit)—Lecture and supervised laboratory in makeup for the stage, ranging from enhancement of personal facial features to complexities of age and character makeup.

THEA 2530 Dramatic Structure (3 credits)—Play analysis for the actor, director, designer or teacher of theatre.

THEA 2605 Theatre Practicum (1 credit)—*For freshmen and sophomore students only. Prerequisite(s)* Permission of instructor through audition. Participation as a performer or stage manager in planning, rehearsal, and performance of an ETSU Theatre production under faculty direction. May be repeated.

THEA 2800 Theatre Laboratory (1 credit)—Practical directed experience working on a construction and/or running crew for an ETSU Theatre production. Experience can be in scenery, lighting, costuming, makeup, properties, sound, or box office. Type of experience is determined by the instructor.

THEA 2999 Cooperative Education (1-3 credits)

THEA 3330 Scenic Design (3 credits)—*Prerequisite(s):* THEA 1520. A studio course in scenic design, covering the basic concepts of scenic design analysis and the creation of technical drawings for realizing scenic design. Students will also learn rendering and model building techniques.

THEA 3335 Lighting Design (3 credits)—*Prerequisite(s):* THEA 1520. Interpreting visual needs of scripts into lighting and color designs and translating designs to paper.

THEA 3345 Costume Design (3 credits)—*Prerequisite(s):* THEA 1520; THEA 1530; THEA 2520. A technology intensive studio course in costume design for the theatre which emphasizes play script analysis, the process of collaboration, research rendering techniques (traditional and computer generated), as well as the study of working designers both past and present.

THEA 3400 Acting for the Camera I (3 credits)—*Prerequisite(s):* THEA 2510. Acting techniques used in movies, television, industrial films, and commercials.

THEA 3435 Acting for the Camera II (3 credits)—*Prerequisite(s):* THEA 2510 or RFTV 2600. Acting Techniques used in television and in film.

THEA 3500 Voice and Diction (3 credits)—Improvement in individual speaking voice. emphasis on articulation, correct breathing, vocal quality, and diction. Working for a standard American stage dialect.

THEA 3510 Acting II (3 credits)—*Prerequisite(s):* THEA 2510. Building characters *The Stanislavsky System* utilizing exercises, improvisations, research, and realistic scene work.

THEA 3512 The Audition Process (3 credits)—*Prerequisite(s):* THEA 2510. Creating audition pieces, developing techniques for cold readings, developing resume, and understanding proper conduct at auditions and interviews.

THEA 3515 Theatre Movement (1 credit)—Development of the actor's expressive skills, with particular attention to physicality, breath, gesture, and spatial awareness through movement and stage combat exercises.

THEA 3520 Theatre History I (3 credits)—A study of the development of theatrical art through the Restoration and the 18th century in England, its role in the history of civilization, and its relation to other arts in society.

THEA 3525 Theatre History II (3 credits)—A study of the development of theatrical art from the 18th century, its role in the history of civilization, and its relation to other arts in society.

THEA 3530 Play Direction (3 credits)—*Prerequisite(s):* THEA 2510 and THEA 2530. Basic principles of staging, picturization, composition, focus, movement, text analysis, directorial scoring, and actor/director relationships.

THEA 3535 Musical Theatre History (3 credits)—This writing intensive course will examine the history of American Musical Theatre, focusing on mid-1800 to the present. Attention will be given to the historical influences of the American Musical Theatre, the development of the various genres of American Musical Theatre, as well as to the development of the elements of modern American Musical Theatre—the book, the lyrics, the score, the dance, and the design.

THEA 3625 Advanced Stage Makeup (3 credits)—*Prerequisite(s):* THEA 2525. An advanced studio course emphasizing the principles, theories, and techniques of three-dimensional theatrical makeup. The techniques of producing plaster face casts and foam latex prosthetics will be explored.

THEA 3800 Theatre Laboratory (1 credit)—Practical directed experience working on a construction and/or running crew for an ETSU Theatre production. Experience can be in scenery, lighting, costuming,

makeup, properties, sound, or box office. Type of experience is determined by the instructor.

THEA 4018 Honors Thesis (3-6 credits)—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

THEA 4417/5417 Teaching Theatre in Grades K-12 (3 credits)—A study of methods and materials for teaching theatre in elementary and secondary schools.

THEA 4527/5527 Advanced Scenographic Design (3 credits, repeatable)—*Prerequisite(s): THEA 1520, THEA 3330, and THEA 3335.* The study of theatrical design principles and appropriate play analysis. May be repeated under each of the following areas: scenery, lighting, and costuming.

THEA 4537/5537 Advanced Play Direction (3 credits)—*Prerequisite: THEA 3530.* The planning of an actual production for performance for practical development of the fundamentals, methods, and procedures of play direction.

THEA 4547 Dramatic Theory and Criticism (3 credits)—*Prerequisite: THEA 1500.* A study of the critical writings on the theory of dramatic form from Aristotle to the present with an understanding of philosophical and social foundations as they relate to theatrical standards of dramatic art.

THEA 4557/5557 Playwriting (3 credits) — *Prerequisite: THEA 2530.* A study of the organization of the parts of a play in dramas of difference styles and types followed by exercises in writing dramatic exposition, characterization, and plot development for the foundation of an original play.

THEA 4607/5607 Theatre Practicum (1 credit) — *Prerequisite(s): Junior, senior or graduate status only, permission of instructor through audition.* Participation as a performer or stage manager in planning, rehearsal, and performance of an ETSU Theatre production under faculty direction. May be repeated.

THEA 4637/5637 Theatre Management (3 credits)—Procedures used in stage, house, and business management of a theatre operation.

THEA 4647/5647 Theatre Architecture and Design (3 credits)—*Prerequisite(s): THEA 1520 and THEA 3330; or permission of instructor.* This course will survey the changes in the theatre architecture for the 5th century, B.C. to the present. Students in this course will learn about modern facility design practices and about federal and state laws that affect the design of both new facilities and renovation of existing facilities.

THEA 4707/5707 Theatre Internship (1-9 credits)—*Prerequisite(s): Permission of department chair and concurrence of host theatre.* Experience in professional nonacademic theatre under supervision of professional staff Interns may work in a single area of specialty or in rotation throughout host theatre's operation and may contract for single term or academic year.

THEA 4800 Theatre Laboratory (1 credit)—Practical directed experience working on a construction and/or running crew for an ETSU Theatre production Experience can be in scenery, lighting, costuming, makeup, properties, sound, or box office Type of experience is determined by the instructor.

THEA 4857/5857 Period Acting Styles (3 credits)—*Prerequisite(s): THEA 2510.* Acting styles from ancient Greece through Restoration, utilizing language, research, scene work, movement, and masks.

THEA 4867/5867 Summer Theatre Performance (3 credits)—*Prerequisite(s): Permission of instructor through audition.* Participation in rehearsals and performance of an ETSU Summer Theatre production under faculty or guest artist direction.

THEA 4900 Independent Studies (1-3 credits)—*Prerequisite(s): Permission of instructor.* Designed to provide opportunities for study in

subject matter areas not provided in the regular course offerings. May be repeated.

THEA 4957/5957 Special Topics in Speech and Theatre (1-6 credits)

Graduate Course Listings

For Descriptions and Prerequisite(s) see the Graduate Catalog

THEA 5417	Teaching Theatre Grades K-12	(3 credits)
THEA 5527	Advanced Scenographic Design	(3 credits)
THEA 5537	Advanced Play Direction	(3 credits)
THEA 5547	Dramatic Theory and Criticism	(3 credits)
THEA 5557	Playwriting	(3 credits)
THEA 5607	Theatre Practicum	(1 credit)
THEA 5637	Theatre Management	(3 credits)
THEA 5647	Theatre Architecture and Design	(3 credits)
THEA 5707	Theatre Internship	(1-9 credits)
THEA 5857	Period Acting Styles	(3 credits)
THEA 5867	Summer Theatre Performance	(3 credits)
THEA 5900	Independent Studies	(1-3 credits)
THEA 5950	Research Methods in Speech and Theatre	(3 credits)
THEA 5957	Special Topics in Theatre	(1-6 credits)
THEA 5960	Thesis in Speech-Theatre	(1-6 credits)
THEA 5990	Readings and Research	(1-3 credits)

University Honors UHON

UHON 1108 Honors Colloquium I (1 credit) — UHON 1108 is for students entering ETSU as freshmen Honors Scholars or Fine and Performing Arts Scholars. Students explore career options; learn what it takes to achieve success in a given field; explore opportunities for study abroad; and participate in a service project. May be repeated once. (fall, spring)

UHON 1218 Artistic Vision (3 credits) — A foundation course for students in the Fine and Performing Arts Scholars Program, introducing arts scholars to the general philosophies used to describe the nature and the diversity of the arts while building a sense of community. (fall)

UHON 2018 Roving Artists I (2 credits) — *Prerequisite: UHON 1218.* An exploration of the diversity of art forms and their relationship to the public, sharing expertise and experiences, and examining the roles of art in society through preparation for art activities on campus. Enrollment is by permit only (Fine & Performing Arts Program, Honors College). (fall)

UHON 2028 Roving Artists II (2 credits) — *Prerequisite: UHON 2018.* A continuation of UHON 2018. An exploration of the diversity of art forms and their relationship to the public, with an emphasis on executing art which will have an impact on the greater campus community. Enrollment is by permit (Fine & Performing Arts Program, Honors College). (spring)

UHON 2108 Honors Colloquium II (1 credit) — *UHON 2108 is for Sophomore Honors Scholars.* Students do a Job Market Analysis for their chosen profession; research major scholarships and fellowships; work on a Standard of Greatness project; assume a leadership position on a service project; and begin participating in the conversations of their respective disciplines. May be repeated once. (fall, spring)

UHON 3008 Foundations of Research (2 credits)—The course is offered for students in the Midway Honors Scholars Program. Instruction focuses on basic research skills, issues, in ethics and responsible conduct of research, and ETSU regulations for research. Students are introduced to the diversity of research/scholarly activities across disciplines and are assisted through initial stages of designing and proposing a research project. (fall)

UHON 3018 Roving Artists III (2 credits)—*Prerequisite: UHON 2028.* A continuation of UHON 2028. An exploration of the diversity of art forms and their relationship to the public, sharing expertise and experiences in creating their art, and examine the roles of art in society through preparation for art activities off campus. Enrollment is by permit only (Fine & Performing Arts Program, Honors College). (fall)

UHON 3028 Roving Artists IV (2 credits) — *Prerequisite: UHON*

3018. A continuation of UHON 3018. The practice of art as socially oriented activity through team projects that showcase the arts through art fairs, performances, and through campus or local community projects and events. Enrollment is by permit only (Fine & Performing Arts Program, Honors College). (spring)

UHON 3108 Honors Colloquium III (1 credit) — UHON 3108 is for Junior Honors Scholars and Midway Scholars. Students are introduced to thesis research; participate in a Mock Interview; assemble a dossier; interview someone in their field; and research opportunities for presenting papers at conferences in their discipline. Students are strongly encouraged to spend a semester abroad. May be repeated once. (fall, spring)

UHON 4108 Honors Colloquium IV (1 credit) — UHON 4108 is for Senior Honors Scholars, Fine and Performing Arts Scholars, and Midway Scholars. Students create a thesis schedule; participate in a thesis peer group; participate in a dossier peer group; present their thesis at a conference in their discipline or at the Appalachian Research Symposium or Forum; create a Summer Reading List; and serve as mentors to the new students in UHON 1108 and 3108. May be repeated once. (fall, spring)

UHON 4808 Honors Study Abroad (1-6 credits)—This course identifies study abroad experiences sponsored by ETSU for various disciplines. Course sections identify individual programs that will take the student to international localities to explore aspects of culture, language, history, science, business, and the arts, as appropriate to the particular program. (summer)

Urban Studies URBS

URBS 2610 Introduction to Public Administration (3 credits)—Introduction to contemporary topics in public administration: defining the field, operations of the federal administration, theories of public management, budgeting and staffing.

URBS 3100 Introduction to Urban and Regional Planning (3 credits)—An introductory survey of the modern and historical theories of urban and regional planning.

URBS 4018 Senior Honors Seminar (3 credits)—*Prerequisite(s): ECON 3088 and admission to the College of Business and Technology Honors Program; by permit only.* A seminar for College of Business and Technology honors students who are working on senior honors theses or other approved projects. Upon successful completion of the course, students will have demonstrated the ability to complete the research process by creating a written product suitable for submission to the College of Business and Technology faculty.

URBS 4087/5087 Recreation and Tourism Planning (3 credits)—A survey of recreation and tourism in the United States and their effect upon regional economic development and planning.

URBS 4107/5107 Urban Geography and Planning (3 credits)—A geographical analysis of cities and urban regions Urban growth patterns, location and interaction analysis, planning for urban regions, and travel behavior are emphasized.

URBS 4347/5347 Economic Development Planning (3 credits)—An introduction to the complexities of local economic development planning. Useful for students wishing to become economic or planning specialists and for community leaders interested in creating development strategies.

URBS 4637/5637 Local and Regional Planning (3 credits)—Theories and techniques of planning for small cities, metropolitan areas, and geographic regions.

URBS 4905 Urban Studies Internship (3 credits)—*Prerequisite(s): Completed a minimum of six credit hours at the upper-division level in the student's major; junior or senior standing; and at least a 2.7 GPA.* Students are selected through a competitive process for assignments in approved business or public sector organizations as interns under the supervision of the internship

coordinator and field placement supervisors. Students may not earn more than three semester credits for this course which can be used as a free elective or an elective within a business major with prior approval by the chair.

Women's Studies WMST

WMST 2010 Introduction to Women's Studies (3 credits)—This introduction to the interdisciplinary academic field has a triple focus: integrating information about women's contributions to culture and history into the curriculum, uncovering and understanding structures of oppression (gender, race, and class), and exploring possibilities for change. Topics for reading and discussion will be drawn from material on social structures, law, language, history, religion, philosophy, the healing professions, and the arts. Articulating questions and points of view regarding issues related to gender is stressed.

WMST 2020 Women in Global Perspective (3 credits)—Emphasizes diversity of women's experience in non-western, non-industrialized societies. Concentrates on women's participation in, interaction with, and resistance to patriarchal structures that inhibit economic, political, and human rights for women.

WMST 3330 Feminist Thought and Practice (3 credits)—*Prerequisites: WMST 2010 or WMST 2020.* Explores a variety of theoretical frameworks for studying women and gender and links feminist theory to social action and civic responsibility.

WMST 4018 Honors Thesis (3-6 credits)—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

WMST 4080 Women's Studies Internship (3 credits)—*Prerequisites: WMST 2010, senior standing, and director approval.* All students must attend a mandatory orientation meeting and turn in a completed internship permission form before working any hours on site. Supervised professional, non-profit, civic group, or other social justice work experience that synthesizes the student's program of study.

WMST/HIST 4247/5247 History of Women in U. S., Settlement to 1945 (3 credits)—An investigation of the social, economic, and political roles of women in the life of the nation, from European contact with Native Americans to the end of World War II.

WMST 4500 Women's Studies Senior Capstone (3 credits)—*Prerequisites: WMST 2010 and WMST 2020.* A synthesis course through which students draw from their individual courses of study to develop and pursue social justice, professional, and/or advanced educational objectives.

WMST 4900 Independent Study (1-3 credits)—*Permission of program director required.* This course is designed for advanced Women's Studies students who would like to pursue further study in areas not covered by Women's Studies curriculum. Students are to work independently, but under the supervision of a Women's Studies faculty member. Students desiring to use this option must prepare a proposal, in consultation with the faculty member, that describes the course objectives, learning outcomes, reading list, course requirements and their due dates, and method of faculty evaluation of the student's work. Proposal must be approved by the program director.

WMST 4950 Issues in Women's Movement (3 credits)—*Prerequisite: WMST 2010 or WMST 2020.* Studies of various themes and issues related to women's social movement(s). This course may be repeated under different subtitles.

WMST 4957/5957 Special Topics in Women's Studies (3 credits)—*Prerequisite: Junior or Senior standing.* A seminar on selected topics of interest in Women's Studies that are not covered in regular course offerings. Content will vary. May be repeated for credit when content changes.

Regents Online Degree Program (RODP)

ACC 1104 Principles Of Accounting 1 (3 credits)—*Prerequisite(s):* Students should have the reading and writing skills appropriate and expected of college-level students. In addition, students should possess basic math skills including the ability to solve simple algebraic equations. This is part one of a two-course sequence. This course will cover the basic principles of accounting; teaching the basic principles of analyzing transactions, recording them in a general journal, posting them to the general ledger, and preparing the basic financial statements. This course is fully transferable.

ACC 1105 Principles of Accounting II (3 credits)—*Prerequisite:* ACC 1104 Principles of Accounting I or similar first semester accounting course **with a grade of C or better.** This is the second semester of a two semester sequence in principles of accounting. In it, you will complete your studies of basic financial accounting and move into the basic concepts and computations associated with cost and managerial accounting. When you complete this course, you will have completed the undergraduate requirements for two semesters of basic accounting principles.

AGR 130 Introduction to Animal Science (3 credits)—Fundamental principles of animal agriculture, biological and scientific aspects of development, inheritance, feeding and nutrition, management, animal products, and scope of the industry. 3 semester credit hours.

ART 1010 Art History Survey I (3 credits)—This course is a survey of the visual arts, in world cultures, from prehistory to the Renaissance.

ART 1020 Art History Survey II (3 credits)—A survey of the visual arts, in world cultures, from the Renaissance through the present.

ART 1030 Art Appreciation (3 credits)—The overall purpose of this course is to provide the student with a basic understanding of the visual arts. The first half of the course deals with the nature of art, the evaluation of art, the processes and materials of art. We examine the formal elements of design and look at a wide variety of both two- and three-dimensional art to learn about the processes and tools involved in its creation. The second half of the semester is spent in a (more or less) chronological study of world art in its cultural setting from the prehistoric to the contemporary. The course is divided into 12 segments, presented as Lessons 1-12. Each lesson represents the equivalent of 4 hours of class time. The student is expected to spend a minimum of 4 additional hours to complete the assignments for each unit. Each unit must be completed before the student may advance to the next level.

ASTR 1030 Astronomy (4 credits)—*Prerequisite:* There are no other college-level courses that must be taken before this one, but the student should have entry-level college reading and math skills. Some concepts of astronomy, and some laboratory exercises require the ability to understand and perform some basic algebraic manipulations. The Physics 1030 may be taken before or after this course for those students needing a two-semester science elective. The most logical sequence would be Physics and then Astronomy because some of the laws studied in Physics apply to Astronomy. As an introduction to astronomy, this course explores what we know about the solar system and how we know what we know. Topics covered include the history of astronomy, methods of astronomy, formation of the solar system, and the physical characteristics of the sun, planets, moons, and minor members of the solar system (asteroids, meteoroids, and comets). Through the use of text, laboratory, astronomy web sites and actual observation, the student can expect to learn to identify, locate and specify location of the visible planets, some constellations and any other “visitors” that happen to show themselves in our solar system during the course.

BIOL 1010 Biology I and Lab (4 credits)—*Prerequisite(s):* Students must be eligible for enrollment in English 1010 and DSM 0840 or higher. This course introduces the student to the methods of biological science. It explores the chemical basis of life; cell structure and function including energy metabolism; cell division; DNA and gene regulation; Mendelian

and molecular genetics; the process of evolution; speciation; mechanisms for the origin of life on earth; the principles of systematics; the prokaryotes and the Kingdom Protists.

BIOL 1020 Biology II and Lab (4 credits)—*Prerequisite(s):* Completion of or exemption from DSPW 0800 and DSPM 0800. This course introduces the student to the diversity of life on earth, looking in more detail at the fungi, plants and animals. The structure and function of flowering plants is reviewed. Animal anatomy (tissues, organs and organ systems), physiology, reproduction and development are covered with an emphasis on humans. The final section of the course covers the principles of ecology.

BIOL 1430 Nutrition (3 credits)—*Prerequisite:* DSPW 0800, DSPR 0800 The textbooks and other materials routinely required in this course are written at college level, hence students' reading and writing skills need to be at the college level. A study of nutrients and their relationship to human growth, development, and maintenance. Special emphasis is given to the role of foods and the nutrients they contain, with regard to the physiological, psychological, and sociological well-being of the individual. Practical analysis of food records and application of nutritional knowledge will be included.

BIOL 2010 Human Anatomy and Physiology I (4 credits)—*Prerequisites and Corequisites:* Biology 2010 has no prerequisites; Biol 2010 and 2020 may not be taken in the same semester since passing Biol 2010 with a grade of D or better is a prerequisite for Biol 2020; Biology 2230 has no prerequisites and may be taken concurrently with Biol 2010 or Biol 2020; However, it is strongly recommended that students take no more than one of these courses (Biol 2010, Biol 2020 or Biol 2230) in a give semester. This combination laboratory and lecture course consists of a study of the structure and function of the human body. Online laboratory experiences and exercises are designed to correspond with and complement the lecture material. The course will begin with a general introduction to anatomy and physiology, and then move on to cells, metabolism, tissues, basic chemistry, mitosis, osmosis, diffusion, the anatomy and physiology of the skeletal system, the integumentary system, the muscular system, and the nervous system.

BIOL 2020 Human Anatomy and Physiology II (4 credits)—*Prerequisites and Corequisites:* Biol 2010 and 2020 may not be taken in the same semester since passing Biol 2010 with a grade of D or better is a prerequisite for Biol 2020; Biology 2230 has no prerequisites and may be taken concurrently with Biol 2010 or Biol 2020; However, it is strongly recommended that students take no more than one of these courses (Biol 2010, Biol 2020 or Biol 2230) in a give semester. This course involves a continuation of the study of the structure and function of the human body with online laboratory experiences that began in Anatomy and Physiology I. In this portion of the course, we will complete the study of the anatomy and physiology of main systems of the body.

BIOL 2230 Introduction to Microbiology with Lab (4 credits)—*Prerequisites and Corequisites:* Biology 2230 has no prerequisites and may be taken concurrently with Biol 2010 or Biol 2020; However, it is strongly recommended that students take no more than one of these courses (Biol 2010, Biol 2020 or Biol 2230) in a give semester. This combination laboratory and lecture course consists of a survey of microorganisms with emphasis on morphology, growth and pathogenesis of bacteria, fungi and viruses. Human defense mechanisms against disease are emphasized. Laboratory exercises are designed to demonstrate the distribution, isolation, cultivation, identification, and control of microorganisms. The use of microorganisms in biotechnology will be examined.

BIOL 3100 General Genetics (3 credits)—*Prerequisites and Corequisites:* The student must have completed BIOL 1110 and BIOL 1120 (or their equivalents) in order to have a working knowledge of basic biological concepts as well as an introduction to the topics to be covered in this course. In this course, the

student will study the basic principles of traditional transmission genetics as well as modern molecular genetics. The student will apply these principles in problem solving. The primary mode of delivery of course information will be PowerPoint presentations with an audio component. The student will be evaluated by means of homework, quizzes, examinations, submission of news items and a term paper. This course is for teachers who are seeking a Biology Add-on Endorsement ONLY. It will not substitute for required genetics courses in the Biological Sciences or related majors.

BIOL 3550 Ecology (3 credits)—*Prerequisites and Corequisites: The student must have completed BIOL 1110 and BIOL 1120 (or their equivalents) in order to have a working knowledge of basic biological concepts as well as an introduction to the topics to be covered in this course.* This course introduces the basic concepts of ecology, the study of how organisms interact with each other and with their habitat. The course begins with a review of the basics of evolution and natural selection, since many of the ideas in ecology depend on organisms attempting to maximize their fitness. It then covers, in order, the ecology of individuals, considering some aspects of both physiological and behavioral ecology; the ecology of groups of individuals, or populations; and finally, the ecology of groups of populations, or communities, and how they interact with each other. Lectures will consist primarily of PowerPoint presentations, and there will be demonstrations of important concepts using programs such as Populus. Evaluation of student progress will be done with examinations, quizzes, and homework assignments (including web-based research).

This course is for teachers who are seeking a Biology Add-on Endorsement ONLY. It will not substitute for required ecology courses in the Biological Sciences or related majors.

BIT 1150 Introduction to Microcomputers (3 credits)—*Prerequisite(s): You must have basic typing skills to produce your work in a timely fashion. You must have access to a Windows-based computer with an Internet connection, Microsoft Windows 95 or higher, Microsoft Internet Explorer browser software, a personal e-mail account, and the software used in the class (Office XP).* A course designed to introduce students to Windows and Office XP. The course will use the following packages in Office XP: Microsoft Word 2002, Microsoft Excel 2002, and Microsoft PowerPoint 2002. In addition, students will have an introductory section on computer hardware/software concepts and Windows file management.

BMGT 3600 International Management (3 credits)—*Prerequisites and Corequisites: General Management Course.* Theory and practice of Managing Across Borders - This course is about global management. It demonstrates how cultural factors influence behavior in the workplace and examines the skills needed to manage across national borders.

BMGT 3630 Human Resources Management (3 credits)—*Prerequisite(s): BMGT 351 or General Business Management Course.* Managing human capital in the new economy is a challenge all business professionals face. This course addresses that challenge by retaining its unique orientation to overall practicality and real-world application incorporating technology, teams and virtual learning methods. Practical tips and suggestions provide effective ways of dealing with problems in communication, leadership, discipline, performance appraisal, labor relations, and compensation administration.

BUS 1050 Legal Issues for the Web (3 credits)—*Prerequisites and Corequisites: Prerequisites for this course are DSPR 0800, Developmental Reading and DSPW 0700, Basic Writing or equivalent skills if the student is required to take these courses at their institution. The student must possess sufficient reading and writing skills to succeed in this course.* This course addresses Internet law and provides guidelines for putting existing material online, creating material specifically for the Internet, using material found on the Internet, e-commerce, and educational aspects of the Internet. Real-world examples are used to illustrate how the rules affect businesses. This is a three (3) hour course. Students will work on real case studies and will have discussions on what they feel should be the correct outcome based on the law as learned through this course.

CHEM 1010 Introduction to Chemistry I (4 credits)—*Co-requisites: While we do not feel that we over-emphasize mathematics skills in Introduction to Chemistry I, it is impossible to learn chemistry without using a variety of mathematics skills. Thus Intermediate Algebra, MATH 0850 is a co-requisite for the course as it teaches the skills you will need for this course.* Introduction to Chemistry I, CHEM 1010, is a 4 cr. hr. lecture/laboratory course intended to: Provide the necessary background for continuing on to General Chemistry; Satisfy the chemistry requirement for several career programs; and Satisfy part of the general education science requirement. The course will develop a variety of chemistry topics on an as needed basis in order to deal with a variety of societal issues.

CHEM 1020 Introduction to Chemistry II (4 credits)—*Co-requisites: While we do not feel that we over-emphasize mathematics skills in Introduction to Chemistry II, it is impossible to learn chemistry without using a mathematics skills. Thus Intermediate Algebra, MATH 0850 is a pre-requisite for the course as it teaches the skills you will need for this course.* Introduction to Chemistry II, CHEM 1020, is a 4 cr. hr. lecture/laboratory course intended to: Satisfy the chemistry requirement for several career programs; and Satisfy part of the general education science requirement. The course will develop a variety of chemistry topics on an as needed basis in order to deal with a variety of societal issues.

CHEM 2310 Introduction to Quantitative Analysis (3 credits)—*Prerequisites and Co requisites: Chemistry 1110 and 1120 required as prerequisites.* This course is designed provide an introduction to analytical chemistry primarily for those who intend to pursue a career in teaching high school science, or who need to establish certification for teaching chemistry in high school. Laboratory procedures, sample calculations, statistical analysis of experimental data obtained using virtual laboratory exercises will be included.

CHEM 3005 Organic Chemistry Survey (3 credits)—

CIS 113 Programming In Visual Basic (3 credits)—*Prerequisite(s): Because this is an online course in computer programming, it is important for the student to have completed a basic computer literacy course (e.g., CIS 100, BIT 1150) or receive permission of instructor, work well independently, be self-motivated, be computer savvy and feel VERY comfortable getting around on the computer (Words like FTP, bulletin board and Real Player don't sound foreign to you.), have the ability to troubleshoot their own computer problems, any computer programming experience is helpful but not necessary.* An introduction to Microsoft Visual Basic. Topics to be covered include: event-driven programming, interface design, creating menus and dialog boxes, writing event and general procedures, and using operating system services.

CIS 173 Programming in C# (3 credits)—*Prerequisites and Corequisites: Because this is an online course in computer programming, it is important for the student to: Have completed a basic computer literacy course (e.g., CIS100, BIT1150) or receive permission of instructor; Work well independently; Be self motivated; Be computer savvy and feel VERY comfortable getting around on the computer; Have the ability to troubleshoot their own computer problems; Any computer programming experience is helpful but not necessary.* An introduction to Microsoft C#. Topics to be covered include: Object-Oriented Programming, interface design, controls, decisions, creating menus and dialog boxes, looping, arrays and accessing database files.

CIS 186 Database Programming (3 credits)—*Prerequisite(s): CIS-113 Visual Basic Programming or the equivalent.* This course is designed to enable students to develop customized database applications. Subsequent to a brief survey of relational database techniques and methods, the emphasis will be on developing the necessary skills to design, create, and implement user-friendly front ends for relational databases. Using a database engine such as Microsoft Access 2000, the course will concentrate on developing and coding procedures using VBA (Visual Basic for Applications).

CIS 191 Hardware Certification Training (3 credits)—*Prerequisite: CIS 100.* An introduction to microcomputer hardware installation, maintenance, repair and troubleshooting. Students will learn the processes and procedures for supporting microcomputer hardware in a business environment. This course is designed to assist the student to take the Comp TIA A+ hardware certification examination.

CIS 192 Software Certification Training (3 credits)—*Prerequisite: CIS 100.* An introduction to microcomputer operating system installation, configuration, upgrading, diagnosing and troubleshooting. Students will learn the processes and procedures for supporting microcomputer software in a business environment. This course is designed to assist the student to take the Comp TIA A+ software certification examination.

CIS 193 Introduction to Linux (3 credits)—*Prerequisites and Corequisites: BIT 1150 or equivalent introductory computer class, or permission from instructor. A basic foundation in computer hardware, networking concepts, as well as familiarity with desktop and server operating systems such as Windows 2000 or Unix would be helpful. Programming experience of any type would also be an asset but is not explicitly required. This course is designed to prepare students for the COMPTIA Linux+ Certification Exam. Linux is a relatively new open source system software that is becoming increasingly popular for use on business Web Servers, email servers, application servers, and even personal desktop systems. This course is designed to prepare students to take the certification exam; however, it is not a substitute for the certification exam.*

CIS 263 Web Page Development and Design (3 credits) — *Prerequisite(s): CIS 151 Microcomputer Applications.* This course will cover the fundamental concepts of the Internet and World Wide Web, including how the Internet works, protocols and services, addressing and routing in the Internet. Students will design and create web pages using web page editing/publishing software and create and edit graphic images for web pages using image editing software. Use of simple Java applets will be covered and some basic Javascript scripts will be written for web pages.

CIS 264 Web Page Applications (3 credits)—*Prerequisites and Corequisites: Prior to taking this course, students should have a basic working knowledge of the Windows operating system, the Internet and Microsoft Front Page.* This course is the study of various applications available for the support of web pages. Topics covered will include web page multimedia design and the enhanced use of scripting. The latest techniques of web page design technology will be emphasized.

CIS 1610 Programming in C++ (3 credits)—*Prerequisite(s): The student should have some background and understanding of computing and the use of information systems in society. A prior course in a programming language such as Visual Basic or Java is useful, but not required.* An introduction to computer software concepts using C++. Algorithms, problem-solving methods, systems development and implementation methodologies are addressed. Standard programming constructs such as simple data types, assignments statements, use of subprograms, loops, conditional statements, arrays, records, classes, abstract data types, and object-oriented programming requirements analysis, modeling tools and methods for analysis and design, development of a software requirements specification document, software design guidelines and heuristics, software testing and debugging, and the development of a software design and testing document.

CJA 1100 Introduction to Criminal Justice Administration (3 credits)—Survey of the criminal justice system; philosophy and history of criminal justice agencies; analysis of the problems and needs of agencies involved in the criminal justice process; survey of professional career opportunities.

CJA 2600 Corrections (3 credits)—History of the development of corrections in Europe and America; survey of current prison conditions and operations, including pre-release, probation and parole.

CJA 3230 Police Organization and Administration (3 credits)—This course is designed to provide foundation for understanding the American law enforcement system by introducing essential elements of

American law enforcement organization and practices. The main focus of the course is to examine the development of early policing and modern law enforcement system, recruitment and training process, the structure and function of the police, legal issues that affect policing, and current issues and problems in the field of law enforcement.

CMT 1010 Network, PC Communications (3 credits)—*Prerequisites and Corequisites: Prior to enrolling in this course, students should be able to use their computers and access the Internet. In addition to browsing the web, students should have a basic understanding of computers and be able to send email.* This course introduces basic concepts of PC communications, telecommunications and networking. It provides an overview of terminology & technologies used with local area networks (LANs) and wide area networks (WANs). In addition, it details processes, protocols, network design and a broad overview of the Internet.

COL 101 The College Experience Online (3 credits)—*Prerequisites and Co-requisites: This course is for first time on-line learners who are willing to learn. If in doubt, lets talk on-line.* In this course, we will study the best practices for success in college and learning on line by using technology smartly, succeeding in workplace situations skillfully, using interpersonal communications respectfully, and developing self-management practices expertly.

COM 1000 Beginning HTML (3 credits)—*Prerequisites and Corequisites: Basic computing and keyboarding skills.* A beginning course in HTML, providing instruction in creating web pages. Topics include using HTML tags to format headings and text, to display images, and to create lists, links, tables, frames, and forms.

COM 1010 Basic Web Design (3 credits)—Presents the principles for planning and designing attractive and informative Web pages and Web sites. The course explores the factors that affect Web layout and design such as browser choice, screen resolution, navigation, connection speed, typography, graphics and color.

COM 1020 Basic Web Graphics (3 credits)—*Prerequisite: COM 1010, Basic Web Design.* An introductory class using a graphics program, scanner, and other digital devices to create and edit graphic images for web pages. Projects will be included to allow students to demonstrate mastery of the use of a graphics program to edit, optimize and create imagery for the Web, set up hierarchical folders/directories and implement, upload, and edit a functional Web site. This course is taught using Photoshop® CS3 and Photoshop® and Image Ready® (versions 6 - CS2), or Photoshop® Elements (versions 3 & up) and at least a basic HTML editor (Notepad or TextEdit).

COM 110 Survey of Mass Communications (3 credits)—This course is an examination of print and electronic media. Each medium is analyzed. The possible effects of the media are also examined.

COMM 3010 Integrated Corporate Communication (3 credits)—*Prerequisite: COMM 1200, COMM 1400, Junior status, or instructor approval.* Students examine important corporate communication areas such as internal communication, advertising, public relations, integrated marketing communications, and new communication technologies. The course focuses on how these areas work together to achieve organizational objectives.

COMM 3560 Intercultural Communication (3 credits)—The dynamics of the communication process as it functions in intercultural contexts; training for successful cross-cultural communication interactions.

COMM 4410 Conflict Resolution and Negotiation (3 credits)—*Prerequisites and Corequisites: Interest in conflict resolution and negotiation, junior or senior status, and a willingness to learn and apply theoretical concepts to real problems and situations.* This course is designed to introduce students to conflict resolution and negotiation and tactics that can be effectively used in an organizational setting.

COMM 4910 Public Relations Campaigns (3 credits)—The establishment of public relations strategies and evaluations of outcomes using research-based goals.

COMP 3050 Programming Languages (3 credits)—*Prerequisites and Corequisites: It is assumed that students taking this course are already familiar with a programming language like C, C++, C#, Java or VB.NET.* In this course students will be exposed to the analysis and comparison of programming languages, their characteristics and implementation. Various concepts and principles will be discussed.

CSC 3700 Software Analysis and Design (3 credits)—*Prerequisites and Co-requisites: Proficient with programming in at least one language (C/C++/Java) is required. Refer course syllabus for additional requirements. Practical and Professional Issues in Computer Science, Design of Algorithms, Foundations of Computer Science*

CSCI 3222 Database Management Systems (3 credits)—*Prerequisite(s): A prior course covering computer-literacy topics (Use of MS-Windows, use of an MS-Office application such as Word, Excel, or Front-Page) to ensure the student can focus on learning the Database topics without being distracted by also having to learn the Microsoft interface paradigm.* This course will give the student a basic overview of Relational Database Systems and Relational Database Design. The student will acquire a working knowledge of Microsoft ACCESS and the ISO standard SQL language. Students will work individually on a series of small projects, and one larger project encompassing all phases of database design and implementation.

CST 203 Data Structures (3 credits)—*Prerequisites and Corequisites: Prior to taking this course, students should have made a C or better in the CIS 1610-R50 Programming in C++.* This course covers the basic fundamental principles of Data Structures. It uses C++ as a programming language to implement a variety of data structures. As such it requires the knowledge of programming in C++ offered in the online course “CIS1610: Programming in C++”. Topics will include C++ STL containers, vectors, C++ pointers, dynamic memory, STL Stacks, STL Queues, and Lists with or without iterators. User Designed classes are implemented.

CST 209 Java Programming I (3 credits)—*Prerequisite(s): Because this is an online course in computer programming, it is important for the student to: have completed a basic computer literacy course (e.g., CIS 100, BIT 1150) or receive permission of instructor, work well independently, be self-motivated, be computer savvy and feel VERY comfortable getting around on the computer (words like FTP, bulletin board, and Real Player don't sound foreign to you), and have the ability to troubleshoot their own computer problems. Any computer programming experience is helpful but not necessary. If you are unsure if this online course is for you, please contact your instructor.* This course will cover the fundamental concepts of Object-Oriented Programming using Java. Topics will include objects, classes, constructors, methods, and instance variables. User Designed classes are implemented. Arrays and Array Processing are emphasized. Graphical User Interfaces are developed using Java. Applets are explained and implemented.

CST 218 Java Programming II (3 credits)—*Prerequisites and Corequisites: Because this is the second online course in Java Programming, it is important for the student to: Have completed the first java programming course CST209-R50 with C or better or receive permission of instructor; Work well independently; Be self motivated; Be computer savvy and feel VERY comfortable getting around on the computer (words like FTP, bulletin board and Real Player don't sound foreign to you); Have the ability to troubleshoot their own computer problems; Any computer programming experience is helpful but not necessary.* This course continues the coverage of the fundamental concepts of Object Oriented Programming that started in Java Programming I (CST209-R50). Topics will include Super Classes, Sub Classes, Polymorphism, Inheritance, Stacks, Queues, and Lists. User Designed classes are implemented.

DSPM 700 Basic Mathematics (3 credits)—*Prerequisites and Corequisites: Placement score on college entrance exam.* Basic Mathematics is a

course for students whose placement and diagnostic tests indicate a need to review and strengthen basic mathematics skills. The course will consist of a study of whole numbers, fractions, decimals, exponents and order of operations, ratio and proportion, percent, measurement and the metric system, introductory statistics, and graphs. Emphasis will be placed on word problems that involve applications of the above topics. Students will learn and practice note-taking, study methods and test-taking strategies as they specifically relate to mathematics. To exit this course you must earn a minimum grade of C. The next required course would then be DSPM 0800 Elementary Algebra.

DSPM 0800 Elementary Algebra (4 credits)—*Prerequisite(s): Basic Mathematics or demonstrated proficiency on the placement examination.* Fundamentals of elementary algebra: operations on real numbers, evaluation and simplification of expressions and formulas, solution of first-degree equations, ratio and proportion, applied problems, operations on polynomials, factoring, exponents, roots, radicals, and complex numbers.

DSPM 0850 Intermediate Algebra (4 credits)—*Prerequisite(s): Completion of elementary algebra, DSPM 0800, two years of high school algebra, or recommendation of advisor.* This course is final preparation for college-level mathematics. The student learns tools of intermediate algebra through completing homework assignments, quizzes, participating in discussions, taking exams, and using outside links to tutorial sites.

DSPR 700 Basic Reading (3 credits)—*Prerequisite(s): Appropriate score on the college placement test.* Basic Reading is a course which provides a foundation in reading comprehension, critical reading, and vocabulary development. Student's can expect to learn the essential components of reading comprehension including but not limited to locating main idea, supporting details, inferences, and figurative language. Course activities will include reading and writing assignments, tests and quizzes, as well as interaction on a class discussion board.

DSPR 0800 Developmental Reading (4 credits)—*Prerequisite(s): Basic Reading or appropriate score on the college placement test.* This course is designed to enable college students to become more aware of themselves as readers and to develop strategies and skills to meet the demands of college reading.

DSPS 0800 Learning Strategies (3 credits)—*Prerequisite(s): Appropriate score on college entrance test.* This course offers students an introduction to college. It emphasizes study methods and techniques for beginning students. Study strategies are suggested for reducing anxiety, improving memory and concentration, managing time, taking notes from texts and lectures, and preparing for and taking tests.

DSPW 700 Basic Writing (3 credits)—*Prerequisite(s): Placement score on college entrance exam.* This course is designed to give students the basis for writing a well organized, cohesive paragraph with grammatically correct sentences. The emphasis is on writing as a process and applying basic mechanical skills.

DSPW 0800 Developmental Writing (4 credits)—*Prerequisite(s): Appropriate score on college entrance exam.* This course is designed to give students the basis for writing a well-organized and cohesive essay. The emphasis of the course is on writing as a process. Along with the writing process, students will learn grammar and mechanics.

ECED 1010 Introduction to Early Childhood Education (3 credits)—An introduction to the early childhood profession including an emphasis on professionalism and developmentally appropriate practice. Includes an overview of history of early education, theoretical program models, different types of early childhood programs, community resources, professional organizations, and contemporary trends and issues in programs for children ages birth to none.

ECED 2010 Healthy and Safe Environments for Young Children (3 credits)—*Prerequisite(s): ECED 1010 or department approval.* The study of the basic principles of good health as they relate to the child in

the family, child care center or family childcare home, and community. This course includes child nutrition, growth, disease and accident prevention, and safety. Laboratory observation and interaction.

ECED 2015 Early Childhood Curriculum (3 credits)—A survey of the theoretical models and services available to parents and children. Laboratory observation and interaction.

ECED 2020 Infant, Toddler, Child Development (3 credits)—*Prerequisite(s): ECED 1010, 2010 and completion of all DSP requirements for reading, writing, and learning strategies or Department approval.* Infant, Toddler, Child Development is the study of the physical, social, emotional, cognitive, language and literacy development of young children, birth to age eight. This course is designed to provide a foundation for early childhood professionals and others who are interested in child development. Knowledge of all aspects of child development is the cornerstone for the implementation of best practices in early childhood programs. Child observation and fieldwork are an integral part of this class.

ECED 2030 Infant, Toddler Care (3 credits)—The study of this course includes curriculum and developmentally appropriate practices for young children. Cases studies of young children and curriculum appropriate for young children are used to reiterate the concepts that are discussed. Hands on experiences are included in the course content.

ECED 2040 Family Dynamics and Community Involvement (3 credits)—The role of the family and community in the physical, cognitive, social, and emotional growth of the child in a diverse society. Includes benefits of and strategies for developing positive, reciprocal relationships with families in an early childhood setting ages birth to age 9.

ECED 2060 Development of Exceptional Children (3 credits)—*Prerequisite(s): ECED 2020 and 2040 or department approval.* Explores practices that early childhood professionals can apply to develop a more inclusive and accessible environment for all children ages birth to nine. Provides students with skills to include children of all abilities through appropriate arrangement of the environment. Includes strategies for developing strong relationships with families and other community agencies. Field experience is required. Pre-requisite: ECED 2020 and 2040 or Department Approval.

ECED 2070 Developmental Assessment Methods (3 credits)—*Prerequisite(s): ECED 2020 or Department Approval.* A study of assessment for children from birth to nine years of age. Both formal and informal instruments will be discussed with the emphasis on tools that can be used by teachers of young children. Considerations in choosing, administering, and reporting results of assessments will also be addressed. Field experiences are required.

ECED 2080 Language and Literature in Early Childhood (3 credits)—*Prerequisite(s): ECED 2015 Early Childhood Curriculum (provides foundation for appropriate curriculum in early childhood programming).* The course focuses on the research-based principles and practices for language and literacy development of children aged birth to nine. Emphasis is given on using a developmentally appropriate approach in teaching practices. Field experiences required. Pre-requisite: ECED 2015.

ECED 2085 Math and Science in Early Childhood (3 credits)—*Prerequisite(s): ECED 2015 Early Childhood Curriculum.* A course on the standards, principles, and practices in teaching mathematics and science to young children ages birth to nine. An emphasis will be placed on developing an integrated math and science curriculum that includes appropriate content, processes, environment and materials, and child-centered choices. Field experiences required.

ECED 2090 Creative Development (3 credits)—This course provides strategies for promoting creative development of the child ages' birth to nine. Students will gain an understanding of the concept of creativity: why it is important, and how the development of creativity in

young children can be encouraged. Emphasis is on the development of creativity in relation to art, music, language, movement and dramatic arts. Field experience is required.

ECED 2120 Administration of Child Care Centers (3 credits)—A study of organization and administration practices applicable to the child care center. Topics of special consideration will include leadership, enrollment and public relations, staff management, financial management, facilities, regulations, parent relations, and program development.

ECON 2010 Economics I (3 credits)—This course is a study of basic economic concepts and macroeconomics. Topics to be covered will include basic economic theory, economic systems, national income accounting, unemployment and inflation, money and banking, fiscal and monetary policy.

ECON 2020 Economics II (3 credits)—*Prerequisite(s): ECED 1010, 2010 and completion of all DSP requirements for reading, writing, and learning strategies or Department approval.* Infant, Toddler, Child Development is the study of the physical, social, emotional, cognitive, language and literacy development of young children, birth to age eight. This course is designed to provide a foundation for early childhood professionals and others who are interested in child development. Knowledge of all aspects of child development is the cornerstone for the implementation of best practices in early childhood programs. Child observation and fieldwork are an integral part of this class.

ECON 2030 Survey of Economics (3 credits)—*Prerequisite(s): DSPM 0700, DSPR 0800, DSPW 0800.* This course is a survey of economics. It is designed as a beginning economics class. The course covers how modern economics evolved, supply and demand, national income accounting, money and banking, market structures and contemporary economic issues. Both macroeconomic and microeconomic principles are covered.

EDCI 4900 Multicultural Education (3 credits)—The purpose of this course is to aid students in becoming aware of, understanding, and being sensitive to the needs and interests of ethnic and cultural groups, with the underlying philosophy being that the differences and similarities that characterize individuals and groups should be cherished for their worth and cultivated for the benefit they bring to all people.

EDU 1100 Technology for Teachers (3 credits)—Introduction to windows and windows-based microcomputer packages including word processing, spreadsheets, presentations; Internet applications; basic PC troubleshooting; introduction to audio-visual and office equipment currently used to facilitate quality classroom instruction.

EDU 1120 Introduction to Teaching (3 credits)—An introduction to teaching and to applications of technology which will assist in efficient management and effective learning within the school environment. Experience will be gained in the development and use of instructional applications including computers and educational software.

EDU 201 Foundations of Teaching (3 credits)—*Prerequisite(s):* In this course attention will be given to the historical, philosophical, and sociological foundations underlying the development of American educational institutions. The role of the schools, the aims of education, and the role of state, local, and federal agencies will be emphasized. Some field experience will be required.

EDU 2050 Classroom Management (3 credits)—This course is an introduction to K-6 classroom management techniques. Topics include: physical space, behavioral norms, safety, time management, managing student work, and managing other special classroom needs.

EDU 250 Instructional Technology in Education (3 credits)—An introduction to applications of technology which will assist in efficient management and effective learning within the school environment. Experience will be gained in the development and use of instructional applications including computers and educational software.

EDUC 2120 Introduction to Special Education (3 credits)—*Prerequisite(s): DSPW 0800 or DSPR 0800 or equivalent skill.* A study of the characteristics and needs of children (PK-elementary level) with special needs and/or disabilities with an emphasis on legislation, programs, services and best practices in the educational setting.

ELED 4260 Teaching and Internet Technology (3 credits)—*Prerequisite(s): Junior, Senior, or Post-Baccalaureate status.* Internet technologies connect students and teachers to innovative learning projects, multimedia-interactive information and activities, virtual classrooms and information from around the world. Students and teachers must acquire both the knowledge and technical aspects of how to integrate the Internet into their learning environments.

ENGL 1002 English as a Second Language II (3 credits)—*Prerequisite(s): EN 1001 or equivalent.* This course is designed for the non-native speaker of English who possesses a novice high-to-intermediate level of competency in spoken and written English. The course includes practice in speaking, listening, reading, and writing.

ENGL 1003 English as a Second Language III (3 credits)—*Prerequisite ENGL 1002 or equivalent.* This course is designed for the non-native speaker of English who possesses a mid-intermediate to advanced level of competency in spoken and written English. This course includes practice in speaking, listening, reading, and writing.

ENGL 1010 English Composition I (3 credits)—*Prerequisite(s): Satisfactory ACT or placement test scores.* The course is designed to give students the foundation of paragraph writing and development of essays by various rhetorical patterns; reading and discussion of selected essays, short stories, and poems; introduction to writing about literature; basic introduction to research and documentation.

ENGL 1020 English Composition II (3 credits)—*Prerequisite(s): ENGL 1010.* A composition course in argumentative writing, including invention, organization, style, and revision. Critical reading and thinking will be addressed through students' writing. Research skills and documentation will be introduced.

ENGL 2010 Introduction to Literature I: Fiction (3 credits)—*Prerequisite(s): ENGL 1010 and ENGL 1020 are prerequisites for this course. This is to ensure that the student has sufficient skills to effectively explore and develop arguments about new ideas and to communicate them in writing.* English 2010 provides the opportunity, through reading, discussion, and short projects, to analyze short stories and a novel in terms of their literary characteristics. This course is designed to give students experience in reading and interpreting literature.

ENGL 2110 American Literature: Colonial Period Through the Civil War (3 credits)—*Prerequisite(s): ENGL 1010.* Survey of American literature from the time of English colonization through the Civil War. Examines the works of significant writers of fiction, poetry, and non-fiction, taking into account the events in history that influenced them.

ENGL 2116 Writing for the Web (3 credits)—*Prerequisite(s): ENGL 1010.* This course focuses on developing comprehensible and useful content for websites. Students critique the writing style of current web pages and then design online documentation and develop appropriate online copy.

ENGL 2120 American Literature II (3 credits)—*Prerequisite(s): Prerequisite(s): ENGL 1020.* A survey of American masterpieces from the Civil War to the present.

ENGL 2210 British Literature I (3 credits)—*Prerequisite(s): Students must have completed English 1010 and 1020 before they enroll in English 2210.* English Masterpieces I is a survey of major and minor works from the Medieval, Renaissance, and Neoclassical periods of British literature. Students will examine the fiction, poetry, drama, and nonfiction of these periods with respect to the literary forms and characteristics of each period, as well as to the societal, cultural, philosophical, and historical forces that influenced their development.

ENGL 2220 British Literature II (3 credits)—*Prerequisite(s): Students must have completed English 1010 and 1020 before they enroll in English 2210.* English Masterpieces II is a survey of major and minor works from the Romantic, Victorian, and Contemporary periods of British literature. Students will examine the fiction, poetry, drama, and nonfiction of these periods with respect to the literary forms and characteristics of each period, as well as to the societal, cultural, philosophical, and historical forces that influenced their development.

ENGL 230 Creative Writing (3 credits)—*Prerequisite(s): ENGL 1020 or permission of instructor.* An elective course in developing and revising creative writing (fiction, poetry, drama, and/or personal essay) for publication or personal satisfaction.

ENGL 2410 Western World Literature I (3 credits)—*Prerequisite(s): ENGL 1010 and ENGL 1020.* A survey of selected masterpieces of Western World literature: Ancient, Medieval, Renaissance.

ENGL 2420 Western World Literature II (3 credits)—*Prerequisite(s): Students must have completed English 1010 and 1020 before they enroll in English 2420; students may take English 2420 without having taken English 2410.* A survey of masterpieces of Western World literature: the Enlightenment, the Romantics, the Moderns, and the Post-Modern.

ENGL 2630 Literature for Children (3 credits)—*Prerequisite(s): ENGL 1010.* An historical survey of literature for children with special attention to literature for pre-school and elementary years. Genres studied include picture books, fiction, traditional literature, nonfiction, and poetry. This course transfers as Literature for Children, but not as a literature course to fulfill the general education requirement. This course is primarily intended for those majoring in Early Childhood Education or Elementary Education.

ENGL 3134 Computers, Writing, and Literature (3 credits)—*Coresquisite(s): Students must have access to a recent-model PC with "24/7" Internet access, an established e-mail account, motivated, and self-directed learners.* What are the connections among computers, writing, and literature? That's the focus of this course - the implications made by the Internet and computers for writing, literacy, and uses of texts. We'll begin by examining a variety of texts available in full or in part on the Internet; then we'll proceed to the rhetorical and technical aspects of these texts; and we'll conclude with the production, in HTML, of student text resources. Format and layout of documents (whether they're prepared in HTML or as word-processed texts) are important aspects of this course, and will be considered among the graded activities and in the broader context of good writing.

ENGL 3250 Professional Communication I (3 credits)—*Prerequisite(s): ENGL 1010 and ENGL 1020.* This course is designed to introduce you to various kinds of technical and professional writing. During the course, you will become familiar with technologies of business communication, receive feedback from and provide feedback to others on writing drafts and revisions, learn about the concept of "genre" and its application to technical and professional writing, and discover the role rhetoric plays in effective technical communication. Because this course is an online course, we will learn and experience ways to communicate effectively using e-mail and the Internet, including evaluating web site design, the rhetoric of e-mail, the dynamics of online discussions, and particularly audience awareness and communication through technology. The course will go beyond writing itself to encompass graphics and ways they are used to create appropriate interfaces for communicating in computer environments. Throughout the course, rhetoric will be emphasized as an overarching concept essential for communicating in technological environments, both educational and professional.

ENGL 3290 Introduction to Film (3 credits)—*Prerequisite(s): Completion of English Composition 1010 and 1020 (or their equivalents) is required to provide students adequate writing skills.* In "Introduction to Film," the techniques and aesthetics of cinema are studied through the presentation of feature and short film. Students read selections in the text, peruse

course information and contact related web sites. In addition, students independently view films illustrating certain techniques and aesthetics that are to be chosen from a list of selected films for that purpose. As there is no central viewing area, students are expected to locate films on their own (video stores, public libraries, university media centers, various online rental or purchase sites) and view them. The list of films ranges from classic examples of the technique or aesthetic under consideration to more modern variations or modifications of it, and is designed to aid students who may not have access to classic films.

ENGL 4100 Writing in Professions (3 credits)—*Prerequisite(s): Writing: Your instructor assumes that you have mastered basic writing skills, through composition courses and/or practical experience. Students must demonstrate, in each assignment, their abilities in this area. The Internet: You must begin the course with basic Internet browsing abilities, and you must have access to either Netscape or Internet Explorer browsing software. HTML and Web Page Production: Your instructor will provide tutorials in HTML writing with Netscape Composer and Microsoft FrontPage. You will not receive instruction in writing text documents in HTML code. Though you should have one of these programs installed on your computer (Netscape Composer is available, free of charge, as part of the Netscape browser package), you may use other HTML-creation software (or write the code yourself) if you are more comfortable with this approach. If you do not have Netscape on your computer you should install it immediately — your HTML materials (web pages, etc.) will be examined via this software. Word Processing: You MUST have Microsoft Word, or the ability to save and send documents in Microsoft Word format, and you are expected to know how to use this software. Your word processed documents will be examined via this software. You may NOT submit documents in WordPerfect or other word processing software (unless you can “Save As” an MS Word document). The instructor will assign a failing grade to documents submitted in incorrect word processing or HTML formats. This is NOT negotiable.* How does writing for the Internet and electronic media differ from “hard copy” writing? In this course, we will explore this issue through four Modules, increasingly interactive, designed to expose you to the basic elements of this new and growing field. Like most Internet writers, you will begin in isolation; in Module I you will produce an electronic resume, focusing on both content and presentation. Module II is an exercise in standard electronic technical writing; you will produce a Proposal/Report for dissemination over the Internet, and you will collaborate with your classmates to improve both their writing and yours. Module III is a Research Project, combining collaborative work with independent Internet research writing and feedback. Module IV, the eJournal article, represents the heights to which many Internet writers aspire; you will convert your research project (from Module III) into an eJournal article, adding images and paying close attention to the details of presentation (including screen resolution, audience, and purpose).

ENGL 4680 Continental Literature (3 credits)—*Prerequisite(s): As this is an advanced level English course, students should complete required Freshman and Sophomore required English courses prior to enrolling in this course. Students who are not sure as to whether or not they should take this course should consult with their advisors.* Our primary focus this semester in this course will be on literature not as a knowledge base, but as a skill. In particular, we will be examining texts from the perspective of semiotics which is a discipline that is concerned not with “what some thing means”, but why things mean and how things mean. As we will be dealing with literatures from multiple language and literary traditions, our focus will be on the common human element as opposed to cultural ideas. The one common element which humanity possesses as a species is its body; thus, we will look at the way in which our sense of body effects our sense of meaning.

ENGL 4700 Chaucer and Medieval Literature (3 credits)—*Prerequisite(s): As this is an advanced level English course, students should complete required Freshman and Sophomore required English courses prior to enrolling in this course. Students who are not sure as to whether or not they should take this course should consult with their advisors.* The primary focus in this class is really on literatures not often encountered which affords us the luxury of not

focusing on a strong existing canon which would over-shadow other literatures. Additionally, we can test various critical hypotheses while working from a literary basis other than that from which those hypotheses were developed. In short, over the course of this semester, we will approach a large number of texts from a large number of cultures from a variety of perspectives.

ENTC 3030 Technical Communication (3 credits)—*Prerequisite(s): ENGL 1010 and 1020. These prerequisites ensure that the student has the proper writing experience in order to be successful in this class.* A comprehensive study of technical and professional communication in written and oral form. Covers rhetorical principles and their application in a variety of types of business correspondence, reports, and technical/scientific documents.

ESC 1110 Introduction to Environmental Studies I (4 credits)—*Prerequisite(s): College Level in Math, English, Reading.* Study of environmental problems at global, national, and local levels. Ecological principles, geophysical processes, and human population dynamics; scientific approach applied to understanding environmental concepts using hands-on field experiences.

ESC 1120 Introduction to Environmental Studies II (4 credits)—*Prerequisite(s): The student must be at college level in Math, English, and Reading.* Study of environmental problems at global, national, and local levels; soil, water, and mineral resources, food resources and pesticides, hazardous wastes and air pollution, energy, land, and species resources; laboratory emphasis on local field experiences..

ET 3910 Introduction to Operations Management (3 credits)—A foundation course in manufacturing and service operations management. Problem-solving applications are emphasized. Students will learn the basics of both traditional and modern topics in a global marketplace stressing the competitive dimensions of QCD (quality, cost, and delivery/flexibility). Group interaction on assignments is encouraged.

FACS 4547 Corporate Etiquette (3 credits)—*Prerequisite(s): Junior or Senior standing.* Students will benefit the most when taking this course within two semesters of graduation. To learn skills which will help in obtaining a job, advancing to a higher position, making career changes, and practicing professional conduct on the job. Topics include communications, appropriate business attire, resume writing, interviewing, dining and dining in corporate America, international business customs, and up-to-date business etiquette. Student will learn how to handle business situations that will lead into the 21st century. Activities include time log analysis, cover letter and resume development, mock interviews, human resources interviews, and international business projects.

FREN 1010 Beginning French I (3 credits)—*Prerequisite(s):*

FREN 1020 Beginning French II (3 credits)—*Prerequisite(s):*

GEOG 105 World Regional Geography (3 credits)—*Prerequisite(s):*

GEOG 3710 Geography of US (3 credits)—*Prerequisite(s):*

HIST 1110 World History to 1500 (3 credits)—*Prerequisite(s):*

HIST 1120 World History since 1500 (3 credits)—*Prerequisite(s):*

HIST 2010 American History I (US) (3 credits)—*Prerequisite(s): DSPW 0800 and DSPR 0800; or appropriate entrance test scores.* Students must read and write at a level to be expected from a college freshman. This course is an examination of the social, political, economic, and intellectual history of the United States from the colonial period to 1877. Each students’ success in attaining course objectives will determine her/his grade. Critical essays either in exams or written assignments will measure for the instructor the students’ progress toward these objectives. Students also must participate in group discussions.

HIST 2020 American History II (US) (3 credits)—*Prerequisite(s): HIST 2010.* This course covers American civilization from the end of Reconstruction to the recent past. The course seeks to give students a perspective on the position of the United States among the nations of the

world and on the controversies and agreements among Americans concerning the desired attributes of their culture, government, and ideals. The course will focus on central themes and issues in the development of American society and institutions. It will raise questions about human values, economic growth, institutional change, cultural development, political democracy, and the place of the United States in the world. Themes that we will address in this course include: industrialization and its effects on American society, economy, and political processes; immigration, urbanization, and the changing demographics of the United States; Progressivism and the struggle for social justice; change and continuity in the U.S. foreign policy; World War I; social changes in the 1920s; the Great Depression and the New Deal; World War II; post-war affluence and social change including the Cold War, anti-communism, and civil rights; the Vietnam War and the Great Society; and the political realignment of the Reagan years and other historically recent events.

HIST 2030 Tennessee History (3 credits)—*Prerequisite(s): The student should be able to read and write at college level and navigate on the web.* A survey of the geographical background, peoples, political life, and economic and social development of the state. This development is traced from the earliest beginning of the state to the present.

HIST 2050 Appalachian History (3 credits)—Examines the theme of continuity and change in the Southern and Central Appalachian region from colonial times to present. States included in this study are western Virginia, eastern Kentucky, western North Carolina, eastern Tennessee, northern Georgia, northern Alabama, and southern West Virginia. F,S

HIST 220 African American History (3 credits)—*Prerequisite(s): DSPW 0800 and DSPR 0800 or acceptable placement scores.* This course will examine the history of Africans and their descendants in the United States from the end of the Civil War to the present, investigating topics from emancipation to the ongoing struggle for Civil Rights. Connections between this history and the issues and concerns facing all Americans in the present will be explored. The course may be used as a Social Science elective.

HIST 3035 Technology and Culture in American History (3 credits)—*Prerequisite(s): Completion of History 2010 and/or 2020 is strongly suggested, but not required.* This course describes and analyzes the history of technology in the United States from the colonial period to the present. It focuses both on the “nuts and bolts” of technology and the interrelationship of technology, culture and society. Technological change is a social process, both affecting and affected by the society in which it takes place, and this course will explore this process, noting the influence of technology on households, businesses, government, and other institutions, and how these institutions shaped technologies and technological development during that last 300 years of American history.

HIST 3121 England Before 1714 (3 credits)—The course traces the history of England from the Anglo-Saxon invasions of the fifth and sixth centuries to the political, religious, and cultural consensus and new economic order achieved in the early eighteenth century. As befits a survey, the course will examine political, cultural, and socio-economic trends, emphasizing those developments which help explain the distinctive liberalism and individualism of English culture, such as the breakdown of feudalism, the Reformation and its Puritan offshoot, the emergence of the common law, and the rise of Parliament.

HIST 3811 U.S. Military and Naval History (3 credits)—*Prerequisite(s): Completion of History 2010 and 2020 is suggested, but not required.* This course describes and analyzes the history of American military policy from the colonial period to the present. It focuses on the creation of American military institutions, the genesis of policy-making, the maintenance of civilian control over the military, the conduct of war, the interrelationship between foreign policy and military policy, and the influence of American society upon the armed forces as social institutions.

HIST 3880 Renaissance and Reform Europe (3 credits)—*Prerequisite(s):*

HIST 4670 Civil War and Reconstruction (3 credits)—*Prerequisite(s): There are not any prerequisites, but completion of History 2010 is recommended.* This course is a study of the events leading to the sectional crisis that resulted in the Civil War (1861-1865), the four years of war, and Reconstruction through 1877. Students will examine the development of the Southern plantation based economy in contrast to the industrialized North, and the contest for national power as the United States expanded west adding new territories and states during the ante bellum years. Major attention is given to the struggle over the issue of the expansion of slavery into these new lands. The social, economic, cultural, political, and military aspects of the struggle are studied in order to gain an analytical understanding of the causes, course and results of the war and its impact on the changing roles of all Americans including the changing roles of women and blacks in American society. The course examines the impact of the Emancipation Proclamation and subsequent freedom for African Americans (via the 13th, 14th, and 15th Amendments to the U.S. Constitution) up to the removal of Federal troops from the South in 1877.

HIT 1010 Medical Terminology (3 credits)—*Prerequisite(s): DSMR 0800 Developmental Reading; Corequisites: DSPM 0850 Developmental math and DSPS 0800 study skills.* A study of the language of medicine with emphasis on body systems, prefixes, suffixes, root terms, pronunciation and spelling.

HIT 1011 Fundamentals of Health Information Technology (3 credits)—*Prerequisite(s): DSPW 0700, DSPR 0700.* This course is designed to introduce students to the principles of health information technology. The development, content and management of the medical record will be explored as well as a basic overview of the healthcare delivery system. Emphasis is placed on hospital and medical staff organization; patient record content; procedures in filing; numbering and retention of patient records; quantitative analysis; release of patient information; forms control and design; indexes and registers; regulatory and accrediting agencies; and the transition to an electronic health record.

HIT 2110 Management and Supervision in Health Information (3 credits)—*Prerequisite(s): Admission to program or permission of program director.* A study of supervisory and management functions with focus on planning, organizing, staffing, directing, and controlling in healthcare organizations. Special emphasis will study managerial techniques to supervise, motivate, counsel, lead, train, and communicate with staff in health information services.

HIT 2120 Healthcare Statistics and Reporting (3 credits)—*Prerequisite(s): DSPRXXX All developmental study courses (if required based on ACT scores or COMPASS test); COLLXXX Computer Literacy Class; HIT1010 Medical Terminology; HIT1011 Introduction to Health Information Technology; BIOL2010 Anatomy and Physiology I and Lab; BIOL2011 Anatomy and Physiology II and Lab.* This course instructs students in health data collection, commonly used healthcare statistical computations and interpretation, presentation and reporting of data, indices, databases and registries along with statistics computed for daily operations of the health information management department. This course also includes basic research principles along with purpose of Institutional Review Board and its role in research.

HIT 2130 Coding and Classifying Systems II (3 credits)—*Prerequisite(s): All developmental study courses (if required based on ACT scores or COMPASS test) COLL1020 Technology Essentials (or higher level computer class) HIT1130 Coding and Classification Systems I.* This course covers the basic principles of coding with Current Procedural Terminology (CPT) coding system including including structure and rules. Instruction will also be given in use of HCPCS Level II coding including structure and

rules. The use of these coding systems will be studied as they are used in reporting of reimbursable medical services and procedures performed by physicians.

HIT 2140 Professional Practice I (3 credits)—*Prerequisite(s): HIT 1110, HIT 1130, Admission to the HIT Program.* Emphasis is placed on providing opportunities for students to relate classroom theory to actual functions of health information, such as assembly and record analysis; medicolegal procedures; information retention; filing and retrieval; and the use of technology. Students will meet objectives through assignment to a health care facility or through the use of virtual simulation projects.

HMSE 1100 Concepts of Fitness and Wellness (3 credits)—Stressing individual responsibility for achieving optimal well-being, this course emphasizes preventive health practices which promote healthful lifestyles and reduce risk factors associated with disease.

HPRO 2100 Wellness Concepts and Practices (3 credits)—Stressing individual responsibility for achieving optimal well-being, this course emphasizes preventive health practices which promote healthful lifestyles and reduce risk factors associated with disease.

HPSS 3550 Principles of Sports Fitness (3 credits)—*Prerequisite(s):* Principles of Sports Fitness provides an opportunity for students to learn the concepts and principles essential for an understanding of how to improve physical fitness for participation in sports. Specific activities with step-by-step instructions and procedures may be used to ensure that students learn how to identify, assess, and improve basic components of fitness (flexibility, cardio respiratory endurance, strength, and body fat composition). Emphasis is placed on the ability of students to utilize the principles of readiness, adaptation, progressive overload, specificity, and reversibility, to design and manage a personalized fitness-training program. Appropriate individual and group activities are included in this course to afford opportunities for students to share their ideas and experiences in a manner that will facilitate the learning process. This course is designed for health fitness professionals, physical education teachers, coaches, and other individuals who desire to know how to plan and manage fitness-training programs.

HSC 190 Introduction to Human Pathophysiology (3 credits)—*Prerequisite(s):* A course designed to offer seminars, workshops, and other training specific to the interests of nursing and allied health students.

HTL 110 Introduction to Hospitality Industry (3 credits)—*Prerequisite(s):* None, however basic reading, writing, computer skills and study skills are necessary. This course provides a basic understanding of the lodging and food service industry by tracing the industry's growth and development, reviewing the organization of hotel and food and beverage operations, and by focusing on industry opportunities and future trends.

HUM 1010 Introduction to Humanities I (3 credits)—Historical approach to pivotal ideas, systems of thought, and creations of the Western world (e.g., music, drama, painting, sculpture, architecture, and literature) as reflections of the culture that produced them.

INFS 1150 Introduction to Micro Comp App (3 credits)—This course introduces the student to the use, capabilities, and limitations of microcomputer applications. Students study the terminology and concepts involved with the hardware operating system Windows environment, and microcomputer applications software. A fundamental study of the Windows environment and its interaction with hardware and software is covered. The Internet and word processing within the Windows environment are introduced. Keyboarding skills are required for this course.

INFS 3700 Introduction to Systems Analysis and Design (3 credits)—*Prerequisite(s)/ Corequisite(s):* Working knowledge of some type graphic tool (i.e. PowerPoint). This will be used for any type modeling done in the course. *Management of Information Technology (PTMA 3020).* This course will provide the students with the basics of information systems components and vocabulary. In this course, students will explore and become familiar with

various concepts, principles, and stages of computer-based information systems analysis and design. Students will be exposed to and learn about the groups of people involved in systems development and the different methods, tools, and techniques used in systems analysis and design. Feasibility study, requirements definition and design and development documentation will be covered. The system development life cycle, prototyping, data modeling, and user involvement will also be covered.

INFS 4900 Seminar in Data Communication (3 credits)—Introduction to business data communications terminology and concepts to include the examination of data communication topologies; network design and management; data communication hardware, software, and standards; the internet; and e-business applications.

INTC 1050 Computer Graphics and Animation (3 credits)—*Prerequisite(s):* Introduction to Computers or equivalent. A course designed to introduce the concepts of computer graphics creation. The course will use the software Ulead PhotoImpact 7.0. This course is designed to teach computer graphics creation to students with no prior graphics background.

JOUR 3400 Introduction to Public Relations (3 credits)—Introduction to Public Relations is a survey of the public relations discipline including the professional foundation of ethics, law, and theory as well as the process, audiences, and professional practice areas. As a student in this course you can expect to learn this foundation allowing you to move on through more advanced professional practice courses in public relations; however, with this foundation you should have good understanding of the discipline, why it is important, and how to do basic public relations functions.

JOUR 3410 Public Relations Research (3 credits)—This online course is designed to equip students to perform and supervise preliminary and detailed research and manage environmental assessment in contemporary public relations practice. It fulfills the requirement for an upper level "computation intensive" course.

JOUR 3421 Public Relations Writing (3 credits)—This writing-intensive course includes components of knowledge and skills. You will learn about organizations, publics, the media and how to prepare public relations messages for print and electronic media.

JOUR 4420 Magazine Editing and Prod (3 credits)—*Prerequisite(s):* JOUR 3400. Case studies and typical public relations problems; planning and preparation of communications materials for various media; application of public relations techniques.

JOUR 4712 Mass Media and Cultures (3 credits)—*Prerequisite(s):* A Junior standing. This is a writing intensive course and presupposes some familiarity with the journalism profession. Mass Media and Cultures is designed to orient future professional communicators to the challenges and opportunities involved in understanding and communicating with people of different cultures, both domestically and internationally. For the professional journalist, public relations practitioner, and advertising executive, such communication is crucial, as the world becomes more of a global village every day. Even if one never leaves the shores of the United States, he or she will find it necessary and inevitable to communicate with members of different cultural, racial and ethnic backgrounds every day of the week in their professional world. Each culture communicates differently. Some of these differences are minor and subtle; others are major (both subtle and obvious).

LDSP 3000 Leadership Development (3 credits)—This course is designed to increase your knowledge base about the study of leadership, and to enhance your leadership skills through the review of leadership principles and theories, the assessment of leaders in action, and through the examination of effective leadership skills.

LIST 4093 Special Topics in Leadership (3 credits)—Every arena in our society has leaders. There are leaders in business, government, education, non-profit organizations, religious institutions, etc. Despite the

prevalence of leadership in our everyday lives, we rarely think of leadership in systematic or cross-disciplinary ways (for example, through the lens of social science or cutting across disciplinary boundaries).

MATH 1130 College Algebra (3 credits)—*Prerequisite(s): Two years of high school algebra and an acceptable placement score or DSPM 0850.* A course designed primarily for students majoring in non-science degrees. Topics include functions and graphs, linear and quadratic equations, inequalities, polynomials, rational expressions, exponents, radicals, systems of equations and exponential and logarithmic functions.

MATH 1410 Number Concepts/Algebra (3 credits)—*Prerequisite(s): Documented eligibility for collegiate mathematics; one high school credit each in algebra I, algebra II, and geometry. Students who are subject to A89 admission requirements who do not have a high school credit in geometry must successfully complete MATH 0990 prior to enrollment in MATH 1410.* This course is a conceptual approach to the study of the properties of number sets within the real number system. Topics include tools for problem solving, sets, functions, logic, numeration systems, properties of and operations with whole numbers, integers, rational numbers and real numbers. Successful completion of an Arithmetic Proficiency Test is required. Students will participate in discussions and submit projects as well as Internet assignments and activity critiques.

MATH 1420 Logic/Problems/Geometry (3 credits)—*Prerequisite(s): Documented eligibility for collegiate mathematics; one high school credit each in algebra I, algebra II, and geometry. Students who are subject to A89 admission requirements who do not have a high school credit in geometry must successfully complete MAT 0990 prior to enrollment in MATH 1420.* This course is a conceptual approach to the study of geometry. Topics include measurement, congruence, similarity, and graphing; constructions, theorems, and proofs in both non-coordinate and Cartesian settings; historical development of geometry as a tool. Students will participate in discussions and submit projects as part of the course.

MATH 1530 Probability and Statistics (3 credits)—*Prerequisite(s): Two years of high school algebra and an acceptable placement score or DSPM 0850.* An introduction to elementary methods and techniques. Topics include sampling, frequency distributions, elementary probability, discrete and continuous probability distributions, interval estimation, hypothesis testing, and simple correlation. Intended primarily for business majors.

MATH 1630 Finite Mathematics (3 credits)—*Prerequisite(s): Two years of high school algebra and an acceptable placement score or DSPM 0850.* This introduction to finite mathematics is intended for students studying Information Systems, Computer Network Technology, and Business Management. This course is also intended to fulfill the general education mathematics requirement for other degree areas. Topics covered include linear equations and systems, matrices, linear programming, finance, set theory, counting methods, probability, and logic.

MATH 1710 Precalculus I (Algebra) (3 credits)—*Prerequisite(s): Two years of high school algebra and an acceptable placement score into collegiate mathematics or successful completion of DSPM 0850.* This course is a study of the algebra necessary to prepare students for Calculus. Topics covered will include polynomial, rational, exponential, and logarithmic functions; systems of equations and inequalities; matrices and determinants; the binomial theorem; and an introduction to sequences and series.

MATH 1720 Precalculus II (Trigonometry) (3 credits)—*Prerequisite(s): MATH 1710 with a grade of C or better and an acceptable placement score. MATH 1130 will not substitute for the MATH 1710 prerequisite.* Designed as a course for students who plan to major in mathematics and/or science and are not prepared to take calculus. Topics include the trigonometric functions of the acute and general angle, applications of right triangles, identities, related angles and the reduction formula, radian measure, graphs and graphical methods of the trigonometric functions, applications, inverse trigonometric functions, and complex numbers.

MATH 1830 Intuitive Calculus (3 credits)—*Prerequisite(s): MATH 1130 with a grade of C or better. This prerequisite is necessary to assure the student has the algebra skills necessary for successful completion of the course.* Limits, continuity, differentiation, integration, and applications. This course will not substitute for MATH 1910. Intended primarily for business majors.

MATH 1910 Calculus I (4 credits)—*Prerequisite(s): Documented eligibility for collegiate mathematics; high school credits in college preparatory mathematics to include Algebra I, Algebra II, geometry, and trigonometry or MATH 1710 and MATH 1720 or equivalent.* This course is a study of differential calculus with an introduction to integration. Topics covered will include plane analytical geometry, limits, continuity, and the derivative and integral of functions of one variable with applications.

MATH 1920 Calculus II (4 credits)—*Prerequisite(s): A grade of C or better in Math 1910.* This course is a study of integral calculus, parametric equations and series. Compared with Math 1910, this course offers a more in-depth concentration into integration techniques (anti-derivatives, definite integrals, and their applications). Topics covered will include inverse functions, techniques and applications of integration, an introduction into the modeling and techniques for solving simple first order differential equations, the study of parametric equations as well as the polar coordinate system and its use, conic sections, sequences and series to include conditions and tests for convergence.

MATH 2010 Linear Algebra (3 credits)—*Prerequisite(s): Math 1910 and Math 1920.* Introduction to Linear Algebra is a first course in matrix theory. Students will learn about basic matrix operations and definitions. The course will be problem-oriented with tests and quizzes measuring understanding of vocabulary as well as applications.

MATH 2810 Discrete Structure and Reasoning (3 credits)—*Prerequisite(s): Math 1910, Math 1920, and a course in Linear Algebra or Matrix Theory.* This course uses set theory and logic, along with basic discrete structures, to develop skills in mathematical reasoning and applications. Number theory, modular arithmetic functions, matrices and graphs are used to develop skills in reading and writing formal proofs, invalidating arguments, and discovering counterexamples.

MATH 3810 College Geometry (3 credits)—

MDT 2100 Photoshop Essentials (3 credits)—*Prerequisite(s): Proficiency with 35mm camera. Familiarity with a personal computer, creating and saving documents, document formats. Basic knowledge of HTML, web graphics, and web design or COMN 1000, COMN 1010, and COMN 1020.* Students are introduced to the digital darkroom using Adobe Photoshop® and Image Ready® with images from film and flatbed scanners, digital cameras, and other media. Topics covered include: selecting, layers, color correction, color theory, retouching, special effects, rollovers, animation, slicing, type effects, and using Photoshop® as a design tool. Documents created in class will be optimized for web, print, and multimedia uses. Students will complete a variety of tutorials as well as create personal projects.

METH 4381 Principles of Supervision (3 credits)—*Prerequisite(s): The student should have at least Junior class standing.* The Bulletin description for this course is: Functions of Supervisory Personnel. This course is designed to provide the student with an overview of supervisory and management functions and the factors which must be considered in a supervisory or managerial position. Course activities will include such things as discussion group projects and case studies.

MGMT 3030 Management Service Organization (3 credits)—*Prerequisite(s): Management and Organization Behavior, College Algebra, Word Processing (e.g. MS Word), Presentation Software (e.g. PowerPoint), and Spreadsheet (e.g. Excel).* Decision making in service operations such as health care and delivery, food/restaurant, hotel/motel, banking and finance, transportation, leisure, and government. Both conceptual framework and application of management techniques to problems peculiar to service organizations.

MGMT 3220 Management Information System (3 credits)—*Prerequisite(s): Junior or senior status with basic computer skills.* Integrates topics of management and organization theory, information and communication theory, and systems theory relevant to managing an organization's information resources. Includes computer hardware and software, telecommunications, and database concepts and emphasizes the e-commerce and Internet based business models to get a competitiveness of global based business environments. This course meets the requirements for a Technology Intensive course.

MGMT 3610 Principles of Management and Organizational Behavior (3 credits)—*Prerequisite(s): Junior status.* This is the introductory course in management. The course is designed to provide students an overview of the management function and its role in organizations and society.

MKT 2450 E-Commerce (3 credits)—This course is designed to provide in-depth coverage of electronic commerce concepts. The learner will participate in a variety of activities designed to provide familiarity with the tools and issues associated with a web-delivered commercial enterprise. The learner will plan, design, develop and test web environments designed to meet secure retail and organizational needs.

MUS 1030 Music Appreciation (3 credits)—An introduction to the basic elements of music combined with a survey of Western art music.

NURS 1030 Fundamentals of Nursing I (3 credits)—*Prerequisite(s): Admission to nursing major or permission of department.* This course introduces the philosophy and central competencies of the Associate of Applied Science in Nursing. The central competencies flow from the philosophy and organizational framework and are the basis for theory skills, and clinical experiences. The focus is on nursing as a discipline; the nursing process; the person as a psychosocial, spiritual, cultural being; health promotion; environmental safety; and communication.

NURS 1040 Fundamentals of Nursing II (3 credits)—*Prerequisite(s): Admission to nursing major or permission of department. Corequisite: NURS 1041.* This course is a continuation of Fundamentals I, which builds on the central competencies of the nursing program. The student is introduced to essential life functions including: protective, comfort/rest, activity/mobility; nutrition, elimination, fluid/gas transport. The focus is on nursing, the nursing process with emphasis on assessment, the client with normal or variations of normal functions, health promotion, environment, and communication. Basic management principles are introduced to assist the student to organize client care.

NURS 1041 Fundamentals of Nursing II Clinicals (2 credits)—*Prerequisite(s): Admission to nursing major or permission of department. Corequisite: NURS 1040.* This clinical course is an extension of Fundamentals I and Fundamentals II, which continues to build on the central competencies of the nursing program. The focus remains on nursing, the nursing process with emphasis on assessment, the client with normal or variations of normal life functions, health promotion, environment, and communication in a variety of clinical settings. Basic management principles are applied to client care.

NURS 1050 Medical-Surgical Nursing I (3 credits)—*Prerequisite(s): NURS 1030, 1040, 1041. Corequisite: NURS 1051.* With a continued emphasis on assessment, the focus of this course is on planning, implementing and evaluating strategies to promote, maintain and restore optimum health for diverse clients across the lifespan experiencing alterations in life function(s). The course evolves around nursing, nursing process, and clients experiencing alterations in specified life functions: protective, fluid/gas transport, elimination, nutrition/ metabolism and growth and development. Management principles and therapeutic communication are incorporated into the plan of care for clients experiencing alterations in life functions.

NURS 1051 Medical-Surgical Nursing I Clinical (2 credits)—*Prerequisite(s): NURS 1030, 1040, 1041. Corequisite: NURS 1050.* The clinical course operationalizes the development and implementation of plan(s) of care to promote, maintain and restore optimum health for diverse clients experiencing alterations in specified life function(s); protective, fluid/gas transport, elimination, nutrition/metabolism and growth and development. The student will apply management principles and use therapeutic communication while providing care to client(s) in a variety of clinical settings: acute care, ambulatory and community based settings.

NURS 1060 Mental Health Nursing (3 credits)—*Prerequisite(s): NURS 1050/1051. Corequisite: NURS 1061.* This course applies the nursing process to promote, maintain and restore optimum health for diverse clients experiencing alterations and variations in psychosocial-cultural life functions. The course is structured around eight core competencies applied to clients with mental health. Emphasis is on health promotion, therapeutic communication and legal-ethical aspects of mental health nursing.

NURS 1061 Mental Health Nursing Clinical (1 credit)—*Prerequisite(s): NURS 1050/1051. Corequisite: NURS 1060.* This clinical course focuses on care of the client across the lifespan with variations and alterations in mental health. The core competencies flow from the philosophy and organizational framework and are the basis for skills and clinical competencies. The nursing process will be applied to client care in inpatient and outpatient settings, focusing on health promotion, therapeutic communication, caring interventions and the legal/ethical aspects of mental health nursing.

NURS 4210 Health Care Research (3 credits)—*Prerequisite(s):*

NURS 4211 Nursing Leadership and Management (3 credits)—*Prerequisite(s):*

NURS 4212 Trends/Issues in Nursing and Healthcare (3 credits)—*Prerequisite(s):*

ORCO 3240 Organizational Communication (3 credits)—This course is an introduction to communication in organizations including relevant theories, technologies, leadership, teamwork, diversity, global organizations, and ethics. You participate in class discussion of chapter material and write five papers based on readings and your own experiences.

PADM 3601 Introduction to Public Administration (3 credits)—*Prerequisite(s): There are no formal prerequisites for this course, however, it is strongly recommended that students have completed a freshman-level course in American Government.* Set within the context of contemporary political, social, economic, and administrative realities, this introductory course in public administration explores responsive, equitable, effective, efficient, and accountable governance processes, public policies, and institutional-base programs. It examines, from a multidisciplinary perspective, those essential competencies, values, and issues important to public service organizations and the importance of public policy at the local, state, national, and international levels.

PADM 4226 Introduction to Nonprofits Organization (3 credits)—Historically, private nonprofit institutions have served as mechanisms for citizen participation, social responsibility, and collective action in the resolution of societal problems. From social service agencies, foundations and churches to museums, schools, and professional associations, the nonprofit sector includes a diverse array of organizations, all chartered with a particular public or collective purpose. This course introduces the nonprofit sector of organizations and the role(s) it plays in society.

PADM 4401 Comparative Public Administration (3 credits)—*Prerequisite(s): Although not a requirement for this course, the successful completion of an introductory course in public administration and/or comparative politics would be beneficial.* This introductory level course examines a range of contemporary topics and issues through the lens of a comparative study of differing concepts and perspectives of public administration. Imbedded in the

organization and focus of this course is a concerted effort to overcome notions that American administrative structures and approaches reflect the ideal type of contemporary administrative style.

PHIL 1030 Introduction to Philosophy (3 credits)—*Prerequisite(s): No prerequisites except the ability to read and write at a college level; and to enjoy a sense of curiosity about life. Students who are unfamiliar with the internet and/or computers will want to spend some time before class starts getting to know the basics.* This is a general introductory course designed to familiarize the student with the basics of philosophical inquiry. In this course we will discuss the “big” questions of life while looking at some of the answers the great philosophers of the Western tradition have devised. These discussions will take place in two formats, the Cohort and the General Discussion. Cohort Discussions are small group discussions that take place with minimal teacher interaction: it is here where students can interact with one another in a more informal way just as they might discuss important ideas in a coffeeshop or a dormitory or in the hallway between classes. General Discussions are more formal full-class discussions in which the teacher actively interacts with the students’ arguments as would occur in a formal land-based classroom setting.

PHIL 121 Elementary Ethics (3 credits)—Morality is tentatively defined as those rules that tell us what is good or bad, right or wrong. They govern our behavior. Ethics is tentatively defined as the rational justification of our moral rules. These definitions will be refined as the course progresses. This course, Elementary Ethics, is a critical analysis of the principle ethical theories and their applications to contemporary moral issues.

PHIL 201 Introduction to World Religions (3 credits)—*Prerequisite(s): There are no prerequisites or corequisites for this course. However, a previous course in world history or philosophy would be helpful.* PHIL 201 is a survey of the development of religions from tribal cultures to present day societies. This course provides the student with a general knowledge of the major religions that exist in the world today as well as an understanding of their origins, development, and adaptation to present day social and political situations. In addition to these major religions, this course will provide an insight into past religions and spiritual thinking and analyze how they influenced religious thoughts that persist to this day.

PHYS 1030 Introduction to Physics Survey (4 credits)—*Prerequisite(s): The student should have a knowledge of basic algebra to the degree that he/she can solve simple literal equations.* This is a one-semester introductory physics course for non-science and non-engineering majors. Emphasis is placed on understanding the nature of physics and applying basic physics concepts in one’s everyday life experience and work. The use of mathematics is limited to basic algebraic manipulations required to understand and apply physics concepts. Topics covered include mechanical motion, energy, temperature and heat, fluids, electricity, magnetism, and wave motion. Four hours lecture and four hours laboratory.

PISI 435 International Law (3 credits)—*Prerequisite(s): There are no prerequisites for this course. It would be beneficial if students had some background in international relations but this is not a requirement for enrolling in the class. Those students who have not taken any international relations classes should inform the instructor and will receive a short list of supplemental reading materials.* This course introduces the student to the basic legal concepts and principles governing state behavior in the international order, the nature and sources of international law, international agreements, sovereignty of states, and recognition of statehood, jurisdiction, immunities, and responsibility. Current events in the international system are also examined with an international law perspective.

PM 4120 Organizational Theory and Behavior (3 credits)—This course is designed to expose the student to the fundamental principles with which to understand human behavior inside public organizations. The course examines various theories developed in an attempt to explain and predict employee behavior in an organizational context.

POL 1010 U.S. Government and Politics (3 credits)—*Prerequisite(s):* This course offers an introduction to U.S. government and politics, focusing on citizen participation and governmental institutions.

POL 1020 Introduction to Political Science (3 credits)—Analysis of politics and political systems in various countries. Students will acquire a general understanding of the key concepts and ideas upon which different systems of government are based.

POLI 4230 The Presidency (3 credits)—*Prerequisite(s): There are no prerequisites for this course. It would be beneficial if students had some background in American politics but this is not a requirement for enrolling in the class.* This course will examine the evolution, and development of the office of the President. The topics that will be discussed are: (1) The creation of the office, powers, public perceptions, and interaction with the media; (2) Selection of the President; (3) The development of the executive branch; (4) The role of the Presidency in policymaking.

POLI 4350 International Law (3 credits)—This course introduces the student to the basic legal concepts and principles governing state behavior in the international order, the nature and sources of international law, international agreements, sovereignty of states, and recognition of statehood, jurisdiction, immunities, and responsibility. Current events in the international system are also examined with an international law perspective.

POLS 1501 Introduction to Internet Relations (3 credits)—This course is designed to provide you with a broad introduction to International Relations (IR). This course will introduce you to the fundamental approaches to studying IR and will consider how each approach treats selected aspects of current international politics.

POLS 3010 Comparative Politics (3 credits)—This course offers a theoretical and empirical comparison of various political processes, structures, and ideologies among selected countries. Particular attention will be paid to the role of ideologies and to how democracy has been instituted in different countries.

POLS 4508 Theories/Concepts of International Relations (3 credits)—*Prerequisite(s): An introductory course in International Relations theory is preferred but not required.* The purpose of this course is to provide advanced coverage of the field of International Relations Theory. Course readings will focus on original theoretical and empirical works. As such, students will be exposed to classic studies that espouse the central tenets of IR theory. To show how theories have changed over time, attention will also be given to current works and variants of IR theory. Armed with the theoretical foundation, we will then cover some of the major issues of contention within the field of IR including morality, international conflict, and the pursuit of peace.

PS 2020 State and Local Government (3 credits)—*Prerequisite(s): There are no prerequisites for this course except a desire to know how states and local governments work. A basic knowledge of American government is helpful, though not required.* This course covers the basics of how state and local governments operate. It includes topics such as federalism, state constitutions, political parties and elections at the state and local level, legislatures, governors, the judiciary, the structure of local governments, and of course public budgeting and service delivery. The course also deals with several issue areas of concern to states and local governments such as education, criminal justice, economic development, and social welfare and health care policy. There are seven weekly quizzes based on the textbook readings, several essays based on the reading of a different book, a closed book timed midterm and a closed book timed comprehensive final exam.

PS 3510 International Political Economy (3 credits)—*Prerequisite(s): PS 1010 and 3210 or permission of instructor.* The relation between politics and economics in international affairs and its implications for global peace, security, ecology, and social welfare.

PSCI 1010 Survey of Physical Science I (3 credits)—*Prerequisite(s): Two years high school algebra and acceptable placement scores, or DSPM 0850.* PSCI 1010 includes a study of six fundamental components of the physical sciences, **Newtonian mechanics**; linear motion, momentum, energy, gravity, satellite motion, fluid mechanics, **Thermodynamics**; thermal energy, heat transfer, **Electricity, Magnetism, Waves**; sound and light waves, and the properties of light. This course also includes a study of **Chemistry** including the structure of the atom, the atomic nucleus, periodic table, chemical bonding, chemical reactions, acids, bases, molecular mixing, organic chemistry, and nuclear chemistry. This course will establish a base with which the non-science student can view nature more perceptively. This course is designed to correct a missing essential in the sciences: the practice of conceptualizing before calculating. The equivalent of three hours lecture and three hours laboratory per week is required. Four (4) credit hours.

PSCI 1020 Survey of Physical Science II (4 credits)—*Prerequisite(s): DSPR 0800, DSPM Mods. 1-7.* Designed for the non-science major to fulfill general education requirements in the laboratory-based physical sciences. This course includes a study of three fundamental components of the physical sciences: (1) Chemistry: Structure of the atom, the atomic nucleus, periodic table, chemical bonding, chemical reactions, acids, bases, molecular mixing, and organic chemistry. (2) Earth science: Rocks, minerals, earth's internal properties, water surface properties, the atmosphere, oceans, and the weather. (3) Astronomy: Our solar system and the relation to the universe. This course is designed to correct a missing essential in the sciences, the practice of conceptualizing before calculating.

PSY 101 General Psychology I (3 credits)—*Prerequisite(s): Reading and writing proficiency appropriate for college-level coursework.* This is an introduction to psychology course. This course is designed to provide an overview of the field of psychology and human behavior. Topics include: philosophical perspectives, history, biology, learning, personality, behavioral biology, development, motivation, emotion, abnormal behavior, theories, and therapies.

PSYC 2111 Psychology of Human Growth and Development (3 credits)—*Prerequisite(s): Students must possess reading and writing proficiency appropriate for a college level course. It is preferable that students have had an introductory psychology course prior to taking this course.* This course surveys the biological and environmental factors influencing the physical, intellectual, social, emotional, and language development from birth until death. It explores causes and results of interruption in or interference with the developmental process. This course surveys the changes individuals go through from conception to death—from “womb to tomb”. The aspects of development including biological, social, cognitive, emotional, and moral will be covered. The theme of this course is change. We will examine how the abilities, needs, problems, and concerns of humans change throughout life, and how people are shaped by their experiences throughout their development.

PSYC 3210 Abnormal Psychology (3 credits)—*Prerequisite(s): General Psychology.* A descriptive and theoretical survey of the major forms of psychopathology in children, adolescents, and adults. The course will examine current trends and research in the fields of mental health and psychopathology.

PSYC 3305 Learning and Memory (3 credits)—*Prerequisite(s): Satisfactory completion of at least one course in introductory psychology is a prerequisite for enrollment in this course. This prerequisite is necessary to ensure that students have some familiarity with the language, basic concepts and general methodology of psychology.* This course will involve a survey and analysis of basic processes involved in acquisition and retention of new behaviors and alterations of existing behaviors in animals and humans. The course will examine the central theoretical concepts and issues in the fields of learning and memory.

PSYC 3306 Physiological Psychology (3 credits)—This course reviews human brain-behavior relationships. The outline is designed to provide you with a study guide which emphasizes the important aspects of the material pertaining to this topic. Use the outline as a guide to study, the book, and other resources to expand on its contents.

PSYC 3590 Psychology of Personality (3 credits)—*Prerequisite(s): Introductory Psychology is recommended but not required.* This course is designed to provide students with a critical overview of personality theory, research, assessment, disorders, and therapy. The course will take a scientific approach to the study of personality. This means that we will devote a good deal of attention to current theoretical and research approaches. Classic theories of personality will also be covered. This is primarily a course on the varieties of “normal” personality functioning rather than aspects of abnormal psychology. Students will have several opportunities to complete examples of personality measures during the course.

PTMA 3020 Managing Information Technology (3 credits)—*Prerequisite(s): AOM 2110, CSCI 1000, MIS 1100, AOM 2100, OR equivalent computer efficiency.* Managing Information Technology is designed to provide a real-world understanding of information systems technologies. A knowledge of information technology is essential in most aspects of today's professional careers.

PTMA 3500 Methods of Performance and Productivity Assessment (3 credits)—This course is designed to expose students to fundamental theories of organizational performance measures, such as Management by Objectives (MBO) and Total Quality Management (TQM). In addition, the course will train managers in the use of these techniques for the purpose of improving the overall management and operation of the organization.

PUBH 4707 International Health (3 credits)—International Health: An Overview of Problems and Issues. (3 credits) - Designed to provide a fuller understanding of the patterns of medical care delivery and public health practices and the factors that inhibit or enable their applications among community groups and organizations around the world.

PY 151 Psychology of Personal Adjustment (3 credits)—The purpose of this course is to increase self-knowledge, personal freedom, and personal accountability, and the ability to effect positive personal change. Emphasis is on self-discovery, self-awareness, and personal growth. To succeed active participation is required.

PY 215 Child Growth and Development (3 credits)—*Prerequisite(s): Psychology 101: General Psychology.* Physical, emotional, social and intellectual child development from conception through adolescence; concepts of development and function derived from theoretical approaches, research and clinical observation emphasized; child rearing applications included. Activities will include written assignment, online student presentations, mastery quizzes, mid-term exam and final exam.

SCED 4904 Independent Study in Science (1 credit)—*Prerequisite(s): Acceptance into the Add-On program in chemistry or biology, a program that is part of the Regents Online Degree Program system.* This course will emphasize classroom management strategies, teaching strategies, laboratory techniques and selection of appropriate resources and materials for teaching middle and high school science. Students will be involved in methods/activities designed to portray the teaching of science as a student-centered, hands-on experience. The student will demonstrate knowledge of textbook assignments, submit journal article reviews, and develop lesson plans, a unit plan, and a rationale statement on “why I want to become a science teacher.”

SOAA 3350 Social Statistics (3 credits)—This course is an introduction to statistical techniques commonly used in the analysis of data from many sources. Emphasis is placed on the assumptions, restrictions, and uses of various methods of analyzing data rather than on the mathematical derivation of formulae.

SOAA 3444 Data Analysis (3 credits)—*Prerequisite(s): CSCI 1100, MATH 1080, and SOAA 3210.* Instruction on the use of SPSS for Windows and/or other software packages for analyzing social science via statistics, with an emphasis on interpretation and application.

SOC 1010 General Sociology (3 credits)—*Prerequisite(s)/ Corequisite(s): Students must be able to read and write at the college level. Students will be expected to write and express themselves in good grammatical, concise, and Standard English. Poor grammar will affect your participation in group discussion and the written homework assignments. Grades will be based on writing skills, presentation, thoroughness, and timeliness.* The purpose of this course is to introduce you to theoretical approaches of sociology. This course will emphasize the subject areas below: Culture, gender, socialization, race and ethnicity, groups and organizations, economics and politics, social interaction, family and religion, deviance, education and medicine, global and social stratification, population and urbanization, sex, environmental concerns. We will also discuss theories and methods of sociological research.

SOC 1020 Social Problems (3 credits)—*Prerequisite(s): Students must be able to read and write at the college level. Students will be expected to write and express themselves in good grammatical, concise, and Standard English. Poor grammar will affect your participation in group discussion and the written homework assignments. Grades will be based on writing skills, presentation, thoroughness, and timeliness.* The purpose of this course is to introduce you to the increasingly acute and intense problems such as alcoholism, violence, drugs, crime, inequality, lifestyle preferences and environmental abuse within the context of social change. We will utilize various theoretical sociological paradigms. This course will emphasize the subject areas below.

SOC 3150 Social Psychology (3 credits)—*Prerequisite(s): Sociology 1010.* Social Psychology is the study of the factors that influence human interaction and the consequences of human interaction. The primary theoretical perspective examined in this course is symbolic interactionism. This theory examines how symbolic communication and interaction shapes our social world, our society, and ourselves. The student will develop an understanding of the basic tenets of this theory and how to apply these to real life situations. The course will more briefly examine social exchange theory and attribution theory in order to broaden the student's understanding of human interaction by including these alternative perspectives. These latter two perspectives will in particular be used to examine justice and fairness in human interaction.

SOC 3200 Sociology of Sex and Gender (3 credits)—*Prerequisite(s): SOC 1010.* The students should have a basic understanding of the sociological perspective. Through a combination of readings, discussions, and written assignments, this course examines the concept of gender and its impact on our society. First, we will critically review various theoretical perspectives that have tried to define sex and gender categories, explain differences between men and women, and sometimes justify gender stratification. We will then look at how men and women are assigned different roles in various institutions, and how they have different levels of social, economic, and political power in society. We will also look at the consequences of gender categorization for our intimate relationships, our health, our attitudes to violence. Finally, we will look at how throughout history, social movements have challenged existing gender categories, and what issues will be prominent in the future. The approach of this course is that the current gender hierarchy tends to exaggerate differences between men and women and force them into rigid molds, while in reality, men and women have much in common, and would benefit from a more flexible approach to gender.

SOC 3650 Juvenile Delinquency (3 credits)—*Prerequisite(s): Sociology 1010.* This course explores the nature of delinquency and the extent to which it is a social problem in the USA. The major theories of causation are presented and critically examined. The juvenile justice system is studied historically and in its current form. The present and future of delinquency control and prevention are examined.

SOC 3700 Sociology of Childhood (3 credits)—*Prerequisite(s): Sociology 1010.* This course explores the nature of childhood and the development and socialization of children from infancy through adolescence. Through course readings, assignments, and discussions, the course will cover the agencies and social forces that shape children.

SOC 4010 Organized Crime (3 credits)—*Prerequisite(s): Sociology 1010.* Organized crime refers to criminal activity involving multiple offenders who operate in a structured manner for purposes of sustaining profits from an illegal activity. There are different forms of organized crime with the more conventional image being that of illegal activities committed by basically criminal organizations such as the Mafia, Triads, the Vory, etc. However, another form of highly organized crime is that which is committed by otherwise legitimate organizations such as corporations. Since this course is entitled **organized crime**, not "crime organizations," we will explore both forms of the problem looking for common threads of causation and control.

SOC 4330 Population and Soc. Process (3 credits)—*Prerequisite(s): SOC 1010 or consent of the instructor.* This course narrates and explains how and why should we study a human population. The course emphasizes sociological analysis of the interrelationship between particular population characteristics and patterns of social organization.

SOC 4510 Social Deviance (3 credits)—*Prerequisite(s): Course prerequisites include Introduction to Anthropology, Psychology, Political Science, Sociology, or other social science. While not a prerequisite, some background in social statistics is suggested.* Social research is the foundation for the scientific understanding of social phenomena. This course introduces students to the theory and methods of social research. Although the course content focuses on sociology, the research methodology covered in this course is applicable to other social science disciplines (and science in general). Students can expect to learn the entire process for conducting scientific research and evaluating research conducted by other researchers. Course activities involve library research (this can be accomplished on-line), practical assignments that lead to the development of research skills and a research proposal, and participation in discussion groups to practice research communication skills.

SOC 4720 Sociological Theory (3 credits)—*Prerequisite(s): Students must be able to read and write at the college level.* This class is designed for students to examine the contributions of classical and contemporary sociological theory. A goal of the class is for students to gain an understanding of theory as an organized system of accepted knowledge that applies in a variety of circumstances to explain a specific set of phenomena. Another goal of this class is for students to have an introduction to some of the main structural, philosophical, and thematic issues important to the field of Sociology.

SOCI 1120 Introduction to Cultural Anthropology (3 credits)—*Prerequisite(s): All developmental courses in reading and writing/composition must be completed.* This course introduces the study of human culture. It focuses on human adaptation and diversity; the development and variety of economic, political, religious, family and expressive institutions.

SOCI 2000 Marriage and Family (3 credits)—*Prerequisite(s): DSPS 0800, DSPW 0800, DSPR 0800, or appropriate entrance scores.* An overview of the effects of societal change on marital and non-marital relationships. Topics include premarital dynamics, singles, dual career families, family violence, and divorce.

SOCI 4510 Introduction to Social Research (3 credits)—*Prerequisite(s): Include Introduction to Anthropology, Psychology, Political Science, Sociology, or other social science. While not a prerequisite, some background in social statistics is suggested.* An introductory social science course (preferably Sociology) is an important prerequisite because it introduces students to social research subject matter, and the theoretical perspectives and research techniques used in social research. An understanding of social statistics

will help students better understand and critique existing social science research. Social research is the foundation for the scientific understanding of social phenomena. This course introduces students to the theory and methods of social research. Although the course content focuses on sociology, the research methodology covered in this course is applicable to other social science disciplines (and science in general). Students can expect to learn the entire process for conducting scientific research and evaluating research conducted by other researchers. Course activities involve library research (this can be accomplished online), practical assignments that lead to the development of research skills and a research proposal, and participation in discussion groups to practice research communication skills.

SP 110 Fundamentals of Public Speaking (3 credits)—*Prerequisite(s): ENGL 1010.* An introductory public speaking course stressing the organization and presentation of the extemporaneous speech in a variety of settings. The goal of this course is to incorporate the typical speaking assignment into situations students might face in their personal and professional lives.

SPAN 1010 Beginning Spanish I (3 credits)—*Prerequisite(s)/ Corequisite(s): None, but the student should be able to use a computer and browse the Internet. Spanish 1010 is a beginning-level course covering elementary grammar, pronunciation, and conversation.* Material is presented through the use of videotape, online presentations, online exercises, online practice quizzes, and online exams. Students demonstrate pronunciation and conversational skills by preparing an audiotape documenting their progress through the course. The course includes audio and video components that allow the student to hear vocabulary and pronunciation and exams include both written questions as well as listening/audio questions requiring the student to translate spoken statements.

SPAN 1020 Beginning Spanish II (3 credits)—*Prerequisite(s)/ Corequisite(s): Complete SPAN 1010.* The student should be able to use a computer and browse the Internet. Spanish II will cover from Chapter 6 to Chapter 10 located in Spanish 102, Puntos de partida. Dr. Barriga will help you with the pronunciation, and you will be responsible for understanding, remembering, and using the grammar, vocabulary, and cultural readings taught in all chapters.

SPAN 2010 Second Year Spanish I (3 credits)—*Prerequisite(s): Beginning Spanish I and II. Student should be able to use a computer and be familiar with the Internet.* This course will cover vocabulary and structures that will allow you to talk about the pressures of modern life, modern technology, different forms of artistic expression, the environment, your relationships with others, and careers. Your instructor will help you with pronunciation if needed. You will be responsible for learning and using the grammar and vocabulary presented in each chapter, and for understanding the readings.

SPAN 2020 Second Year Spanish II (3 credits)—*Prerequisite(s): Intermediate Spanish I. Students should be able to use a computer and be familiar with the Internet. They will also need to be familiar with the Wimba Voice Board and be able to send Audio Files.* Spanish 2020 is the second course of the intermediate level of Spanish, which is designed to provide college students with a more advanced foundation in the following basic skills: speaking, listening, reading, writing and culture.

SPAN 3550 Latin America: The Countries and the Peoples (3 credits)—*Prerequisite(s)/ Corequisite(s): There are no prerequisites for this course. No knowledge of Spanish is required.* This course is an introduction to Spanish-speaking Latin America. It will examine the commonalities as well as the unique national experiences of the Spanish-speaking countries of Latin America. The course will address the social, political, and economic factors that have shaped modern Latin America. Initial units will provide general information on the region and its history. Subsequent units will examine individual countries with a focus on Mexico, Cuba, Central America, Peru,

Argentina, and Chile. No knowledge of Spanish is required. The course is taught entirely in English.

SW 3170 Family Caregiving (3 credits)—*Prerequisite(s): SOC 101 or PSY 141.* Issues to be examined will include: who are caregivers,—gender roles, managing family stress, respite care, establishing support groups, cost of caregiving, finding local resources, legal challenges, differential caregiving tips for various illnesses, disabilities from infancy to old age, emerging trends and long distance caregiving.

SW 3200 Cultural Diversity (3 credits)—This course is designed to expand the students' awareness of both the cognitive knowledge and skill necessary to effectively interact with and/or serve culturally diverse populations. This course will particularly emphasize attitudes and competencies that are important in effective professional relationships. The course will not be exhaustive in its discussion of diverse populations, but will focus on those whose diversity is cultural and who are more likely to be encountered by the students taking the course. Students will be asked to select one of the listed cultures for an in depth study. Student will be expected to be consistently involved in discussions, learning projects, writings and videos related to that culture.

TEAE 4020 Read Write Learn Methods ESL (3 credits)—TEAE 4020/5020/6020 is designed to build background knowledge regarding oral, reading, and writing development in English for K-12 English language learners. The course covers language acquisition theories, literacy development in the first and second language, classroom organization, teaching strategies, and instructional methods in reading and all content areas as well as assessment procedures for effective English language instruction in the PreK-12 classroom environment. The course is specifically designed to assist practicing classroom teachers in meeting the needs of English language learners and newly arriving immigrant students with varying levels of English language proficiency and varying levels of educational experiences. The course is not recommended for teachers of EFL (English as a Foreign Language) or Foreign Language teachers.

TEAE 4260 Teaching ESL Internet and Tech. (3 credits)—*Prerequisite(s):*

TEAE 4300 Multicultural Education (3 credits)—*Prerequisite(s):* The purpose of this course is to aid students in becoming aware of, understanding, and being sensitive to the needs and interests of ethnic and cultural groups, with the underlying philosophy being that the differences and similarities that characterize individuals and groups should be cherished for their worth and cultivated for the benefit they bring to all people.

TEAE 4437 Assessment for ESL (3 credits)—The course, through readings in the text and on websites, examines in depth the major categories of language assessment.

TEAE 4500 Linguistics (3 credits)—*Prerequisite(s):* This course is designed: 1. to introduce future or in-service language teachers and professionals to a basic understanding of the structure and function of the interrelated systems of syntax, pragmatics, phonetics, phonology, and semantics, both for languages in general and English specifically; 2. to learn to apply that knowledge to work more effectively with language students; 3. to acquire the basic analytical skills applied linguists use to investigate new linguistic situations and data as they are encountered in real-world teaching; and 4. most importantly, to make the participants aware of the vast unconscious linguistic insights they already possess and to help them learn to tap those resources to use in teaching.

TEAE 4501 Modern English Grammar (3 credits)—

TEAS 4001 Collaborative Practices, Trends and Issues, and Characteristics of the Exceptional Learner in Special Education (4 credits)—*Prerequisite(s): Participant must have a teaching certificate in any area. TEAS 4001 can be taken in conjunction with 4002.* Includes special

education mandates, LRE; ADA; general education; parents; communities; support services; and characteristics of special learners.

TEAS 4003 Assessment Procedures in Special Education (4 credits)—This course is an in depth study of the diagnostic techniques and instruments used by educators, psychologists and other school professionals. Students will participate by completing assigned readings, quizzes, and by communicating with the instructor and other students through email, being involved in discussion groups, and by completing an assessment battery using appropriate instruments discussed in class and preparing an assessment report. Graduate students will also review and write a diagnostic summary on the child in a case study presented by the instructor.

TEAS 4004 Applied Behavioral Intervention and Supp. (4 credits)—This course involves the study of modifying student behavior using techniques of applied behavior analysis in a variety of educational settings. Through individual readings, interaction with classmates, and group and individual projects, students will increase awareness for options for modifying behavior with a focus on behavioristic interventions.

TEAS 4005 Reading Methods Across the Curriculum (4 credits)—*Prerequisite(s): TEAS 4005 is part of the program of study leading to the add-on endorsement in Special Education in the Regents Online Degree Program (RODP). Before enrolling in TEAS 4005, students must meet the following criteria: Admission to the RODP add-on endorsement in Special Education; prior to enrolling in this course, students must have completed TEAS 4001 and 4003; TEAS 4004 and 4007 may be taken with this course.* This course is designed to inform teachers about reading disorders, reading remediation and reading in the Least Restrictive Environment. Students will learn strategies designed to detect and correct these special needs. Alternative modes of instructions are a focus.

TEAS 4007 Math Methods Across the Curriculum (3 credits)—*Prerequisite(s): TEAS 4007, TEAS 5007, TEAS 6007 is part of the program of study leading to an Add-On Special Education Endorsement of the Regents Online Degree Program (RODP). Before enrolling in TEAS 4007, TEAS 5007, TEAS 6007 a student must have a teaching license and must have completed TEAS 4001 (Collaborative Practices, Trends and Issues, and Characteristics of the Exceptional Learner in Special Education) and TEAS 4003 (Assessment Procedures in Special Education).* TEAS 4007, TEAS 5007, TEAS 6007 (Math Methods Across the Curriculum) will engage participants in mathematics thinking, discussions, and instructional projects to explore theory, understand best practices, and design and implement these strategies in mathematics instruction in grades K-8. It will begin with an exploration of learning theory and best practices advocated by the National Council of Teachers of Mathematics, followed by explorations and the designing of hands-on activities for teaching mathematics to all children including diverse populations and exceptional needs individuals. Participants will be expected to work achieving **10 hours of clinical experience** with primary grade, exceptional needs children as they begin to understand and implement best practices in mathematics teaching.

TEAS 4010 Special Methods Instl and Teaching Composition (4 credits)—*Prerequisite(s): TEAS 4001/5001; TEAS 4003/5003; TEAS 4004/5004; TEAS 4005/5005; TEAS 4006/5006; TEAS 4007/5007; TEAS 4008/5008.* This course is designed to give students skills necessary to teach students with physical, health, and multiple disabilities as well as those with emotional and behavioral disorders. The focus will be on the systematic instruction for these students, life skills, transitioning these students, managing behaviors, and medical issues. Students are to complete a 1-hour practicum, spending 30 hours in a Life Skills or Behavioral classroom for those students who are not teaching or a special classroom project for those currently teaching in a special education setting. Course material will be presented via Modules which must be completed in numerical order. Discussion boards will be utilized as part of the Modules.

TEAS 4012 Special Methods Inst.: Early Childhood Special Education (4 credits)—*Prerequisite(s): TEAS 4001, TEAS 4003, TEAS 4004, TEAS 4005, TEAS 4006, TEAS 4007, TEAS 4010.* This course will examine intervention strategies to promote optimal development for developmentally delayed and at risk children birth to age 3. Public law 105-17, various service delivery models, intervention techniques and procedures, curriculum and individualized family service programs will be explored. Particular emphasis will be placed on the role of the primary caretaker as major change agent for the child. Fifteen hours of field experience or a service learning project in infant/toddler programs will be required. This course will involve online collaboration, interactive case studies and assignments directly related to service delivery for young children and their family.

TELC 2007 Adolescent and Adult Learners (3 credits)—This course focuses on psychological theories related to adolescent cognitive, social and physical development. Adolescents are experiencing a myriad of changes. A better understanding of these changes will help educators plan and implement appropriate lessons, activities, lectures, assignments, and teaching strategies. Issues relevant to intellectual development, socialization, and educational evaluation are examined. Additionally, teacher variables and student variables in the instructional process are explored. Students should be able to apply their knowledge in a variety of settings with a multicultural perspective.

TELC 2008 Learning through Assessment/Evaluation (3 credits)—The on-line course will contain twelve modules of instruction that will involve the student in electronic research, dialogue with teaching colleagues and administrators, and generation of products resulting from assigned activity. The twelve modules focus on eleven areas of teaching effectiveness stated as standards.

TELC 2010 Survey of Exceptionalities and Diversity (3 credits)—This course will enable instructors to identify psychological, physical, educational, medical, behavioral and learning characteristics and needs of individuals with various disabilities, as well as working with students from diverse cultural, social, ethnic and racial backgrounds. It will also include information regarding the modification and adaptation of instruction as it relates to ADA in order to fit individual needs and learning styles. This course will also enable the instructor to develop individualized educational programs with the principles of normalization and the least restrictive environment.

TELC 2011 Teaching and Technology (3 credits)—*Prerequisite(s):* This course will address the “Tennessee Statement of Education Teacher Licensure Standards for Professional Education.”

TELC 2012 Teachers/Agent of Change (3 credits)—Teachers as Agents of Change is designed for those students working in a public school environment on the Professional Occupational or Alternative C License. The course is designed to provide an overview of current issues, trends, and problems that are commonplace to teaching in public school settings. Students will engage in analytic learning experiences which focus on: a) teaching in urban, suburban, and rural settings, b) meeting the needs of diverse student populations, c) historical, sociological, and philosophical aspects of education in a diverse society, d) legal, financial, equality/inequality of access and resources, e) governance issues related to public schooling in the U.S., f) developing knowledge and skills regarding professionalism, national and state initiatives, effective teaching, and licensure, and g) action research to improve current practice.

TELC 2015 Survey Exc. and Div Post-Secondary Schools (3 credits)

TELC 4001 Adolescent Development (3 credits)

TELC 4002 Assessment and Evaluation (3 credits)—*Prerequisite(s): This is an upper division course in the Department of Education. Students should file a plan of study with the Director of Graduate Studies if pursuing an advanced*

degree. The on-line portion of this web-based version of TELC 4002 will contain fifteen modules of instruction that will involve the graduate student in electronic research, dialogue with teaching colleagues and administrators, and generation of products resulting from assigned activity.

TELC 4003 Management of the Learning Environment (3 credits)—Use of appropriate knowledge and skills for managing the total learning environment in the early, middle, and secondary school settings; emphasis on development of skills that facilitate effective teaching through appropriate management techniques and the involvement of parents and community members. A major paper focusing on an appropriate topic of the students choice, content modules, and highly interactive discussion boards will provide learning opportunities in an on-line setting.

TELC 4004 Survey Exceptional Child (3 credits)—*Prerequisite(s):* This course provides a critical study of the history, issues, trends, and supporting research in special education. This course will enable the student to identify psychological, physical, educational, medical, behavioral and learning characteristics and needs of individuals with various disabilities, as well as students from diverse cultural, social, ethnic and racial backgrounds. Inclusion of students with disabilities and techniques to adopt instruction to fit individual needs will be emphasized. An understanding of legislation, regulations, and litigation related to serving individuals with disabilities will enable the student to correlate individualized educational programs with the principles of normalization and least restrictive environment.

TELC 4005 Teaching and Learning with Technology (3 credits)—*Prerequisite(s):* This is a graduate level course. Thus, students must meet the requirements of graduate status noted at their home school. Internet technologies connect students and teachers to innovative learning projects, multimedia-interactive information and activities, virtual classrooms and information from around the world. Students and teachers must acquire both the knowledge and technical aspects of how to integrate the Internet into their learning environments.

TELC 4006 Teachers-Agents of Change (3 credits)—Teachers as Agents of Change is designed for those students working in a public school environment on the Alternative C License. The course is designed to provide an overview of current issues, trends, and problems that are commonplace to teaching in public school settings. Students will engage in analytic learning experiences which focus on: a) teaching in urban, suburban, and rural settings, b) meeting the needs of diverse student populations, c) historical, sociological, and philosophical aspects of education in a diverse society, d) legal, financial, equality/inequality of access and resources, e) governance issues related to public schooling in the U.S., e) developing knowledge and skills regarding professionalism, national and state initiatives, effective teaching, and licensure, and f) action research to improve current practice.

THEA 1030 Introduction to Theatre (3 credits)—*Prerequisite(s):* DSPW 0800 and DSPR 0800 or acceptable placement scores. This course is an introduction and overview of theatre as an art form; emphasis on understanding the nature of drama and its place in culture, the history and theory of theatre and the production process.

UNIV 3580 Hebrew and Greek Legacy (3 credits)—Hebrew and Greek Legacy is an interdisciplinary Humanities course. It will employ a variety of Humanities disciplines, most notably history, literature, philosophy, and religion, to examine the themes of Hebrew and Greek thought. These two cultures have had a profound influence on nearly all aspects of Western thought, so we will be examining the ancient roots of our own culture.

UNIV 3581 Faith, Reason, Imagination (3 credits)—Faith, Reason, and Imagination is an interdisciplinary Humanities course. It will employ a variety of Humanities disciplines, most notably history, literature, philosophy, and religion, to examine the themes of faith, reason, and

imagination, the three distinct ways by which people have claimed to know—to obtain knowledge, meaning, or truth. Our proposed subject of study can be helpful in clarifying how each one of us comes to answer questions, solve problems, and make decisions that are very personal to us. We shall be dealing directly with such personal topics as the existence and nature of God, right and wrong, and love.

UNIV 4110 Internship (6 credits)—What is an internship? An internship is an educational activity within an organization dealing with the type of work you hope to do upon graduation. It is a learning environment where you are treated as one of the employees, but often don't have all the pressures of full-time employees. You'll also earn college credit.

UNIV 4706 Managing Software Development (3 credits)—The purpose in this course is to develop skills necessary to be an effective manager of an application software development team.

UNIV 4995 Special Project (3 credits)—Academic research or other creative activity resulting in a tangible product to demonstrate synthesis of a student's coursework.

WEB 2120 Audio/Video for Web (3 credits)—*Prerequisite(s):* A practical knowledge of how the Internet operates and working knowledge of HTML code, graphic formats, web site building, web page design, and an introductory knowledge of a computer graphics program is required. These pre- and co-requisites may be obtained through COMN 1000—Beginning HTML (NSTCC). This course is designed to familiarize students with the technologies associated with bringing photographic (film, video and still) images and audio to the Internet environment and enable them to identify and use the tools which facilitate these media in Web sites. Appropriate media selection, software tools for encoding various media, delivery system attributes and limitations, associated file types, audio and video codecs and software players will be discussed. Students will learn to prepare aural and visual media for the Web by creating and encoding assigned projects. Students will learn to design for and solve problems with the integration of audio and video media into pre-existing Web sites.

WEB 2200 Internet Technologies (3 credits)—*Prerequisite(s):* Students taking this course should be proficient in Windows 98, 2000, or XP and have completed BIT 1150 Computer Concepts and Applications (RODP). CIW Foundations teaches basic hands-on skills and knowledge which Internet professionals are expected to understand. The course is divided into three parts: Internet Business Foundations, Site Development Foundations, and Network Technology Foundations. After completing this course, students will be prepared to take the CIW Foundations Certification Exam. The certification exam is not a part of this course; you should schedule it at a Prometric or Vue Testing Center

WEB 2210 CIW Design Methods and Teaching (3 credits)—*Prerequisite(s):* WEB 2200—CIW Foundations. CIW Site Design Methodology and Technology teaches you how to design and publish Web sites. General topics include Web Site Development Essentials (such as the site development process, customer expectations, and ethical and legal issues in Web development), Web Design Elements (such as aesthetics, the site user's experience, navigation, usability and accessibility), Basic Web Technologies (such as basic Hypertext Markup Language [HTML], Extensible HTML [XHTML] and extended technologies, image files, GUI site development applications, site publishing and maintenance) and Advanced Web Technologies (such as multimedia and plug-in technologies, client-side and server-side technologies, and Web databases).

WEB 2811. Advanced Computer Graphics (3 credits)—*Prerequisite(s)/Corequisite(s):* A practical knowledge of how the Internet operates, HTML code, graphic formats, web site building, web page design, and an introductory knowledge of a computer graphics program is required. These pre- and co-requisites may be obtained through these courses: INTC 1050 - Computer Graphics (RODP); or OST 2801 - HTML Coding, 2802 - Web Graphics, 2803 - Web Site Design

(PSTCC); or CSIT 2470 - *Internet and New Hardware/Software Products*; or COMN 1000 - *Beginning HTML (NSTI)*, COMN 1010 - *Basic Web Design (NSTI)*, and COMN 1020 - *Basic Web Graphics (NSTI)* or equivalent knowledge and training. This course is designed to enhance the computer skills of those using graphics programs to prepare images for web or print delivery. Students will use Photoshop for graphics manipulation and ImageReady for animation.

WEB 2812 Advanced Web Page and Site Design (3 credits)—

Prerequisite(s): A practical knowledge of how the Internet operates, HTML code, graphic formats, web site building, web page design, and an introductory knowledge of a computer graphics program is required. These pre- and co-requisites may be obtained through these courses: COMN 1000—Beginning HTML (NTSCC). This problems-oriented course will teach the use of dynamic graphics elements to enhance web pages and sites. Advanced concepts in page layout and site optimization will be studied with emphasis on principles used to craft dynamic web pages that get noticed. Exercises and projects will allow students to apply the principles of web design to their own sites that will be created in the course.

WMST 2010 Introduction to Women's Studies (3 credits)—

Prerequisite(s): ENGL 1010 Composition I is required for the course so students will have the competency to write the required formal research paper. The course is an interdisciplinary approach to the study of women's social identity and placement throughout history and the world. Theoretical perspectives and research from sociology, psychology, biology, and anthropology are used to understand how gender shapes our lives on individual, cultural, and societal levels. Areas of study emphasize the role of gender in social institutions including family, workplace, education, religion, media, and politics.

Faculty Listing

COLLEGE OF ARTS AND SCIENCES

- Ahmad, Zulfigar (2006) Assistant Professor** **Biological Sciences**
B.S., 1986, Delhi University;
M.S., 1988 and Ph.D., 1992, Tamia Millia Islamia.
- al-Imad, Leila (1987) Associate Professor** **History**
B.A., 1970, Beirut College for Women, Beirut, Lebanon;
B.A., 1973, American University of Beirut;
Ph.D., 1986, New York University.
- Allen, Michael P. (2006) Assistant Professor** **Philosophy and Humanities**
B.A., 1984, University College of Wales at Aberystwyth;
M.A., 1998, California State University at Los Angeles;
Ph.D., 2005, St. Louis University.
- Alsop, Fred J. (1972) Professor** **Biological Sciences**
B.S., 1964, Austin Peay State University;
M.S., 1968 and Ph.D., 1972, University of Tennessee.
ETSU Distinguished Faculty Member, 1976.
College of Arts and Sciences Service Award, 1998, and Research Award, 2002.
ETSU Faculty Senate President 2007-2008.
- Anastasia, Lynda B. (2005) Assistant Professor** **Social Work**
A.B., 1969, Albertus College;
M.S.W., 1977 and Ph.D., 2003, University of Pittsburgh.
- Anderson, Gordon K. (2004) Professor** **Chemistry**
Dean, College of Arts and Sciences
B.Sc., 1976 and Ph.D., 1979, University of Glasgow, UK.
- Antkiewicz, Henry J. (1988) Professor** **History**
B.A., 1963 and M.A., 1967, University of Michigan;
Ph.D., 1976, The Ohio State University.
- Armentrout, Sheila W. (2007) Lecturer** **Chemistry**
B.S., 1990, Mississippi University for Women;
Ph.D., 1998, University of Southern Mississippi.
- Bach, Bert C. (1994) Professor** **English**
Provost, Vice President for Academic Affairs
Ph.D., 1966, New York University.
- Baggett, Paul (2002) Associate Professor** **Chair, Social Work**
B.S.S.W., 1981, Lock Haven University;
M.S.W., 1983, University of Georgia;
Ph.D., 1994, University of Tennessee-Knoxville.
- Barker, Jennifer L. (2008) Assistant Professor** **English**
Director, Film Studies
B.A., 1990, Tulane University;
M.F.A., 1992, University of Oregon;
M.A., 1997, and Ph.D., 2005, Indiana University.
- Barnum, Amy S. (2000) Archivist** **Appalachian Studies and Services**
B.A., 1977 and M.L.S., 1980, State University of New York.
- Battista, Andrew C. (1984) Associate Professor** **Political Science**
B.A., 1973, Miami University;
M.A., 1975 and Ph.D., 1984, Pennsylvania State University.
- Beck, Jeffrey P. (1993) Professor** **English**
Associate Dean, School of Graduate Studies
B.A., 1986, University of Iowa;
M.A., 1988 and Ph.D., 1993, Indiana University.
- Beck, Scott H. (1984) Professor** **Sociology and Anthropology**
B.A., 1976, Florida International University;
M.S., 1977, Florida State University;
Ph.D., 1981, University of Florida.
- Beeler, Robert A. Assistant Professor** **Mathematics**
B.S., 2001 and M.S., 2002, University of Tennessee – Knoxville;
Ph.D., 2007, Clemson University.
- Blackhart, Ginette C. (2006) Assistant Professor** **Psychology**
B.S., 2001, Eastern Washington University;
M.S., 2003 and Ph.D., 2005, Florida State University.
- Blackman, Mary Dave (1997) Associate Professor** **Music**
B.A., 1978 and M.M.Ed., 1984, University of South Carolina;
Ph.D., 1989, University of Texas-Austin.
- Boner, Daniel T. (2007) Assistant Professor** **Appalachian Studies**
B.A., 2006, East Tennessee State University.
- Brewster, Karen (2000) Associate Professor** **Communication**
B.A., 1979, East Tennessee State University;
M.F.A., 1982, Michigan State University.
- Briggs, Michael (2008) Lecturer** **English**
B.A., 1983, and M.A., 1986, East Tennessee State University.
- Briley, John D. (2001) Associate Professor** **Political Science**
B.A., 1978, M.P.A., 1981, and Ph.D., 1994, University of Tennessee - Knoxville.
- Brown, Carl (2007) Lecturer** **Communication**
B.A., 2004 and M.A., 2007, East Tennessee State University.
- Brown, Danny Anderson (1984) Professor** **Communication**
Associate Dean, College of Arts and Sciences
B.S., 1969, North Carolina State University;
M.A.E., 1975, Western Carolina University;
Ph.D., 1982, University of Massachusetts.
- Brown, Russell W. (2000) Associate Professor** **Psychology**
B.S., 1992, University of Oklahoma;
M.S., 1995 and Ph.D., 1998, University of Kentucky.
- Buck, Patricia G. (2005) Lecturer** **English**
A.B., 1971, Radcliffe College;
M.A., 1988, East Tennessee State University.
- Buerkle, C. Wesley (2005) Assistant Professor** **Communication**
B.A., 1997, Biola University;
M.A., 2000, Arizona State University;
Ph.D., 2004, Louisiana State University.
- Burgess, William Douglas Jr. (1986) Professor** **History**
A.A., 1968, Florida College;
B.A., 1972 and M.A., 1975, University of South Florida;
Ph.D., 1985, University of Wisconsin.
- Burnham, J. P. (2000) Assistant Professor** **Social Work**
B.S., 1974 and M.A., 1977, Washington State University;
M.S.W., 1992, Florida International University.
- Butler, Nickolas M. (1994) Assistant Professor** **Mathematics**
B.A., 1970 and M.A., 1975, University of Alabama.
- Cajka, Karen (2004) Associate Professor** **English**
B.A., 1988, University of Pennsylvania;
M.A., 1996, Northeastern University;
Ph.D., 2003, University of Connecticut.
- Cantrell, Peggy J. (1982) Professor** **Psychology**
B.S., 1976, Virginia Commonwealth University;
M.A., 1979 and Ph.D., 1982, University of Southern Mississippi.
- Cao, Lijuan (2007) Lecturer** **Foreign Languages**
B.A., 2001, Beihang University, Beijing, China;
M.A., 2007, Texas Technological University.
- Carter, Daryl A. (2008) Assistant Professor** **History**
B.S., 2004 and M.A., 2006, East Tennessee State University.
- Caton, Benjamin D., III (1972) Professor** **Music**
B.S.M.E., 1968, East Tennessee State University;
M.A., 1972 and Ph.D., 1982, Ohio State University.
- Cavender, Anthony (1988) Professor** **Sociology and Anthropology**
B.A., 1971, Belmont College;
M.A., 1974 and Ph.D., 1981, University of Tennessee.
- Cecil, David (2004) Assistant Professor** **Social Work**
B.A., 1994 and M.S.W., 1998, University of Kentucky;
Ph.D., 2004, University of South Carolina.

- Champouillon, David (2000) Professor** Music
A.A.S., 1979, Onondaga Community College;
B.M., 1987, University of Miami;
M.A., 1988, Eastern Illinois University;
D.A., 1998, University of Northern Colorado.
- Chen, Catherine (Ke) (2006) Assistant Professor** Geosciences
B.S., 1998, Nanjing University;
M.S., 2001, Beijing Normal University;
Ph.D., 2006, University of Cincinnati.
- Chen, Weixing (1995) Professor** Chair, Political Science
B.A., 1982, Shandong University, China;
M.A., 1986, College of International Relations, China;
Ph.D., 1992, Northern Illinois University.
ETSU Distinguished Faculty Award, 2003.
- Clements, Andrea D. (1995) Professor** Psychology
B.S., 1982, M.A., 1984 and Ph.D., 1991, University of Alabama.
- Close, David M. (1978) Professor** Physics and Astronomy
A.B., 1964, Franklin and Marshall College;
M.S., 1967, West Virginia University;
Ph.D., 1973, Clark University.
ETSU Foundation Research Award, 1988.
- Coates, Allen B. (2005) Assistant Professor** Philosophy and Humanities
B.A., 1990 and M.A., 1996, University of New Mexico;
Ph.D., 2004, Vanderbilt University.
- Cody, Michael A. (2001) Associate Professor** English
Director, University Honors
B.A., 1993, University of North Carolina-Asheville;
M.A., 1995, Western Carolina University;
Ph.D., 2000, University of South Carolina.
- Cole, Mary E. (Betsie) (2002) Lecturer** Sociology and Anthropology
B.S., 1976, and M.A., 1980, East Tennessee State University.
- Collier, Jamie (2008) Lecturer** Communication
B.S., 2005 University of Tennessee;
M.A., 2007, East Tennessee State University.
- Cook, Phillip M. (2007) Lecturer** Chemistry
B.S., 1969, Marshall University;
Ph.D., 1977, University of Tennessee.
- Copp, Martha (1993) Professor** Chair, Sociology and Anthropology
B.S., 1984, Texas A&M University;
M.A., 1987 and Ph.D., 1993, University of North Carolina.
- Corso, Joseph W. (1974) Assistant Professor** Political Science
B.S., 1964, Loyola University - Chicago;
M.A., 1966, University of Notre Dame;
Ph.D., 1973, University of Missouri - Columbia.
- Cox, Mary Ellen (2004) Assistant Professor** Social Work
A.S., 1981, Cleveland State Community College;
B.A., 1983, M.S.W., 1996, and Ph.D., 2000, University of Tennessee.
- Crofts, Thomas H. (2004) Associate Professor** English
B.A., 1990, Bard College;
M.Phil., 1992, Trinity College, Dublin;
M.A., 1997 and Ph.D., 2003, University of Wisconsin-Madison.
- Cronin, Patrick J. (2001) Professor** Communication
Artist in Residence
B.A., 1963, LaSalle University;
M.S., 1968, Temple University.
- Crooke, William (2008) Assistant Professor** Foreign Languages
B.A., 1984, Florida State University;
M.A., 1988 and Ph.D., 2003, University of California, Berkeley.
- Cutshaw, Lise (1998) Lecturer** Communication
B.S., 1980, B.S., 1981, and M.A., 2007, East Tennessee State University.
- Cutspec, Patricia A. (2004) Assistant Professor** Communication
B.A., 1982, Grove City College;
M.A., 1984, University of Hartford;
Ph.D., 1988, Purdue University.
- Dalton, Bruce O. (2003) Associate Professor** Social Work
B.A., 1982, University of Michigan-Flint;
M.S.W., 1988, University of Michigan;
Ph.D., 1995, Rutgers University.
- Dalton, III, William T. (2007) Assistant Professor** Psychology
B.S., 1997, Mississippi State University;
M.A., 1999, Appalachian State University;
Ph.D., 2003, University of Memphis.
- Davidson, Robert (1985) Professor** Mathematics
B.S., 1970, Valdosta State College;
M.A., 1978, Pembroke State University;
Ed.D., 1984, University of Tennessee-Knoxville.
- Davis, Don R. (2000) Associate Professor** Art and Design
B.F.A., 1972, University of Florida;
M.F.A., 1974, Rhode Island School of Design.
- Deadman, Alison P. (1998) Associate Professor** Music
B.A., 1986 and M.Phil., 1990, Leeds University;
M.A., 1992, California State University, Fresno;
Ph.D., 1998, University of California, Los Angeles
- DeAngelis, Anita M. (1994) Professor** Art and Design
Associate Dean, College of Arts and Sciences
B.F.A., 1981, University of Texas-Austin;
M.F.A., 1986, Arizona State University.
- Deng, Shaozhong (2004) Assistant Professor** Mathematics
B.S., 1988, Xi'an Jiaotong University;
M.S., 1991, Nanjing University of Aeronautics and Astronautics;
M.S., 1999 and Ph.D., 2001, North Carolina State University.
- Dixon, David (1989) Associate Professor** Art and Design
B.A., 1976 and M.F.A., 1984, University of Tennessee.
- Dixon, Jr., Wallace E. (2002) Professor** Chair, Psychology
B.A., 1985, University of Toledo;
M.A., 1987 and Ph.D., 1990, Miami University.
- Dorgan, Kelly (2003) Associate Professor** Communication
B.S., 1990, Appalachian State University;
M.A., 1991, University of Kentucky;
Ph.D., 2001, University of Georgia.
- Drinkard-Hawkshawe, Dorothy (1989) Professor** History
B.A., 1960 and M.A., 1963, Howard University;
Ph.D., 1974, Catholic University of America.
- Dula, Christopher S. (2004) Assistant Professor** Psychology
B.A., B.S., 1996, University of North Carolina—Charlotte;
M.A., 2000, Appalachian State University;
Ph.D., 2003, Virginia Polytechnic Institute and State University.
- Dyer, M. Wayne (1983) Professor** Art and Design
B.S., 1973, Madison College;
M.F.A., 1983, Radford University.
ETSU Distinguished Faculty Award 1999.
- Dyer, Susan (1993) Assistant Professor** English
A.B., 1968, Brown University;
M.S., 1969, Hofstra University;
Ph.D., 1977, Duke University.
- Elhindi, Yousif A. (1998) Associate Professor** English
B.A., 1975, University of Khartoum;
M.A., 1981, University of Sheffield;
Ph.D., 1995, Oklahoma State University.
- Ellis, Jon B. (1989) Professor** Psychology
B.S., 1973, Virginia Polytechnic Institute and State University;
M.S., 1981, Radford University;
Ph.D., 1989, University of Southern Mississippi.
- Ellwanger, Steven (2005) Assistant Professor** ... Criminal Justice and Criminology
B.A., 1993 and M.P.A., 1999, University of Nevada, Reno;
Ph.D., 2005, Washington State University.
- Espino, Brian N. (2007) Lecturer** Physics and Astronomy
B.S., 2001, University of Central Florida;
M.S., 2006, Kansas State University.
- Essin, Emmett M. (1967) Professor** History
A.B., 1964, Austin College;
M.A., 1965 and Ph.D., 1968, Texas Christian University.
ETSU Distinguished Faculty Member, 1976.
- Felker, Lon S. (1988) Professor** Political Science
A.B., 1968, University of South Carolina;
M.A., 1969 and Ph.D., 1975, Michigan State University.

- Flanary, Adriane Dishner (2004) Lecturer Communication**
 B.A., 2001 and M.A., 2003, East Tennessee State University.
- Franklin, Jay D. (2004) Assistant Professor Sociology and Anthropology**
 B.A., 1992, M.A., 1999, and Ph.D., 2002, University of Tennessee.
- Fritz, Stephen G. (1984) Professor History**
 B.A., 1971, M.A., 1973 and Ph.D., 1980, University of Illinois.
 Distinguished Faculty Award, 1996.
- Funk, Robert David (1998) Professor Communication**
 B.S., 1976, Western Carolina University;
 M.F.A., 1984, University of North Carolina-Greensboro.
- Gardner, Robert B. (1993) Professor Mathematics**
 B.S., 1984, M.S., 1987, M.S., 1992 and Ph.D., 1991, Auburn University.
 ETSU Distinguished Faculty Award 1998.
- Gao, Yongli (2004) Assistant Professor Geosciences**
 B.S., 1991, and M.S., 1994, Beijing University;
 M.S., 2002, and Ph.D., 2002, University of Minnesota.
- Gerard, Mira (2001) Associate Professor Art and Design**
 B.F.A., 1991, Indiana University;
 M.F.A., 2001 University of Georgia.
- Gillespie, Wayne (2001) Associate Professor Criminal Justice and Criminology**
Assistant Dean, School of Graduate Studies
 B.A., 1993, College of William and Mary;
 M.A., 1998, East Tennessee State University;
 Ph.D., 2001, University of Kentucky.
- Giroux, Mark L. (2001) Associate Professor Physics and Astronomy**
 Sc.B., 1981, Brown University;
 Ph.D., 1992, University of Texas.
 ETSU Distinguished Faculty Award, 2008.
- Godbole, Anant (2000) Professor Chair, Mathematics**
 B.Sc., 1975, Bombay University, India;
 M.S., 1980 and Ph.D., 1984, Michigan State University.
- Gold, Jeffrey B. (1978) Professor Chair, Philosophy and Humanities**
 B.A., 1973, University of Wisconsin;
 M.A., 1975 and Ph.D., 1978, Ohio State University.
- Graves, Travis H. (2005) Assistant Professor Art and Design**
 B.F.A., 1996, Iowa State University;
 M.F.A., 2003, University of Wisconsin-Madison.
- Green, J. Keith (2002) Assistant Professor Philosophy and Humanities**
 A.B., 1980, Saint Olaf College;
 M.Div., 1984, Yale University;
 Ph.D., 1992, Brown University.
- Gregg, Christopher E. (2005) Assistant Professor Geosciences**
 Sc.B., 1992, Tennessee Technological University;
 M.Sc., 1998, University of Canterbury, New Zealand;
 Ph.D., 2005, University of Hawaii at Manoa.
- Grissett, Barbara B. (2003) Associate Professor Social Work**
 B.S., 1968, Southern Missionary College;
 M.S.W., 1981 and Ph.D., 1992, University of Texas-Arlington.
- Grover, Kathleen H. (1976) Assistant Professor English**
 B.A., 1964, Florida State University;
 M.A., 1967, Memphis State University.
- Grzych, Frank J. (2007) Professor Chair, Music**
 B.M.E., 1972 and M.A., 1979, Western Illinois University;
 D.M.A., 2004, Catholic University of America.
- Gunter, Charles R., Jr. (1964) Associate Professor Geosciences**
 B.S., 1962, Middle Tennessee State University;
 M.A., 1963, University of Tennessee.
- Hagelberg, Frank B. (2007) Associate Professor Physics and Astronomy**
 B.S., 1977, M.S., 1985, and Ph.D., 1989, University of Bonn, Germany.
- Haley, Darryl E. (1999) Associate Professor English**
Director, Technical Writing Minor
 B.A., 1992, University of Arkansas;
 M.A., 1994, University of Arkansas-Little Rock;
 Ph.D., 1999, University of Alabama.
- Hall, Delbert L. (1986) Professor Communication**
 B.S., 1977, Western Carolina University;
 M.F.A., 1981, University of North Carolina-Greensboro;
 Ph.D., 1986, University of Florida.
- Hall, Ken (1999) Professor Chair, Foreign Languages**
 B.A., 1975, Furman University;
 M.A., 1978, University of North Carolina-Chapel Hill;
 Ph.D., 1986, University of Arizona.
- Halvorson, Helene K. (2003) Associate Professor Social Work**
M.S.W. Director
 BPh., 1969, University of North Dakota;
 M.S.W., 1976, Barry University;
 Ph.D., 1999, University of Tennessee.
- Hamm, Dennis G., Jr. (1998) Instructor Criminal Justice and Criminology**
Advisor, College of Arts and Sciences
 B.S., 1967, East Tennessee State University;
 M.Div., 1970, Southern Seminary;
 M.Ed., 1978, University of Virginia;
 D.Mn., 1980, Union Seminary in Virginia.
- Hardin, Sherri (1989) Assistant Professor Mathematics**
 B.S., 1987, M.Ed., 1989, and Ed.D., 1995, East Tennessee State University.
- Harker, Cara L. (2007) Assistant Professor Theatre, Dance**
 B.A., 1999, Thomas More College;
 M.F.A., 2003, Chicago College of Performing Arts at Roosevelt University.
- Harker, David W. (2006) Assistant Professor Philosophy and Humanities**
 B.A., 1998 and M.A., 1999, University of Sheffield;
 Ph.D., 2006, University of Illinois at Chicago.
- Harrington, Karen A. (1986) Associate Professor .. Foreign Languages**
 B.A., 1973 and M.A., 1978, California State University Northridge;
 Ph.D., 1986, University of California, Los Angeles.
- Hashimoto, Hidetoshi (2007) Assistant Professor Political Science**
 B.A., Shimane University, Japan;
 M.A., 1985, University of South Carolina;
 M.A., 1998 and Ph.D., 2000, University of Maryland – College Park.
- Hayes, Tammy (1994) Assistant Professor Communication**
 B.S., 1987, East Tennessee State University;
 M.S., 1988, Indiana State University.
- Haynes, Teresa (1988) Professor Mathematics**
 B.S., 1975 and M.S., 1984, Eastern Kentucky University;
 Ph.D., 1988, University of Central Florida.
- Headley, Thomas F. (1969) Associate Professor Communication**
 B.S., 1968 and M.S., 1969, Indiana State University.
- Heil, Katrina M. (2007) Assistant Professor Foreign Languages**
 B.A., 1998, Trinity University;
 M.A., 2000, University of North Carolina at Chapel Hill;
 Ph.D., 2006, University of Texas at Austin.
- Helfgott, Michel (2004) Associate Professor Mathematics**
 B.S., 1972, Universidad de San Marcos;
 M.S., 1994, Northern Arizona University;
 Ed.D., 1997, Montana State University.
- Henderson, Daphne M. Social Work**
 B.S.W., 1997, Texas A&M University;
 M.S.S.W., 1998 and Ph.D.SW, 2004, University of Texas.
- Henson, Gary D. (1989) Assistant Professor Physics and Astronomy**
 B.S., 1979, University of Central Arizona;
 M.S., 1982, University of New Mexico;
 Ph.D., 1989, University of Oregon.
 ETSU Distinguished Faculty Award, 2004.

- Herrin, Mindy (2004) Assistant Professor** Art and Design
B.F.A., 1998, Texas Tech University;
M.F.A., 2002, Indiana University.
- Herrin, Roberta T. (1976) Professor** Chair, Appalachian Studies
Director, Center for Appalachian Studies and Services
B.S., 1970 and M.A., 1972, East Tennessee State University;
Ph.D., 1986, University of Tennessee.
- Hester, Wendell H. (1975) Associate Professor** Sociology and
Anthropology
A.B., 1965, University of Miami;
M.A., 1967 and Ph.D., 1973, Emory University.
- Hirsch, Jameson K. (2007) Assistant Professor** Psychology
B.A., 1992 and M.A., 1994, East Tennessee State University;
Ph.D., 2003, University of Wyoming.
- Ho, Chu-Ngi (1983) Associate Professor** Chemistry
B.S., 1975, Denison University;
Ph.D., 1980, University of Washington.
- Holland, Mark (1986) Professor** English
B.A., 1972, Heidelberg College;
M.A., 1977 and Ph.D., 1984, Miami University.
- Holmes, Thomas Alan (1996) Associate Professor** English
Associate Dean, College of Arts and Sciences
B.A., 1981, M.A., 1985 and Ph.D., 1990, University of Alabama.
- Hong, Don (1996) Professor** Mathematics
B.S., 1982, Zhejiang Normal University;
M.S., 1987, Zhejiang University;
Ph.D., 1993, Texas A&M University.
- Hosler, Deborah Susan (2002) Instructor** Mathematics
B.S., 1995 and M.S., 2002, East Tennessee State University.
- Hu, Chih-Long (2006) Assistant Professor** Music
B.E., 1998, National Taiwan University;
M.A., 2000, Taipei National University;
D.M.A., 2006, University of Michigan.
- Hull, Vida J. (1986) Professor** Art and Design
B.A., 1968, Rollins College;
M.A., 1970, Ohio State University;
Ph.D., 1979, Bryn Mawr College.
- Ignace, Richard (2003) Associate Professor** Physics and
Astronomy
B.S., 1991, Indiana University;
M.S., 1993, M.S., 1994, and Ph.D., 1996, University of Wisconsin.
- Jennings, David (2002) Instructor** Geosciences
B.S., 1998 and M.S., 2002, East Tennessee State University.
- Jenrette, Thomas S. (1979) Professor** Music
A.B., 1968 and M.M., 1970, University of North Carolina;
D.M.A., 1976, University of Michigan.
- Jessee, D. J. (2002) Instructor** Communication
B.S., 1979, East Tennessee State University.
- Jiang, Yu-Lin (2006) Assistant Professor** Chemistry
B.Sc., 1986 and M.Sc., 1989, Jilin University;
M.S., 1997 and Ph.D., 2000, University of Adelaide.
- Johnson, Donald R. (1983) Professor** English
Poet in Residence
B.A., 1964 and M.A., 1966, University of Hawaii;
Ph.D., 1972, University of Wisconsin-Madison.
ETSU Foundation Research Award, 1991.
- Jones, Jodi Polaha (2006) Assistant Professor** Psychology
M.S., 1996 and Ph.D., 1998, Auburn University.
- Jones, Thomas Charles (2006) Assistant Professor** Biological
Sciences
B.S., 1990 and M.S., 1993, Cleveland State University;
Ph.D., 2000, Ohio State University.
- Joplin, Karl H. (1994) Associate Professor** Biological Sciences
B.S., 1973, University of Washington;
M.S., 1982 and Ph.D., 1989, Ohio State University.
- Kady, Ismail (1990) Associate Professor** Chemistry
B.S., 1977 and M.S., 1979, University of Jordan;
Ph.D., 1986, Michigan State University.
- Kamolnick, Paul (1991) Associate Professor** Sociology and
Anthropology
B.S., 1983, M.S., 1987, and Ph.D., 1990, Florida State University.
- Karsai, Istvan (2001) Associate Professor** Biological Sciences
M.S., 1987 and Ph.D., 1997, Jozsef Attila University.
- King, C. Lindsey (2004) Lecturer** Sociology and Anthropology
B.S., 1977, East Tennessee State University;
M.A., 1990, Georgia State University;
Ph.D., 1999, University of Tennessee.
- King, John (1999) Associate Professor** Communication
B.A., 1984, M.S., 1991 and Ph.D., 1995, University of Tennessee.
- Kinser, Amber E. (1997) Associate Professor** Communication
Director, Women's Studies Program
B.A., 1987 and M.A., 1989, University of South Florida;
Ph.D., 1997, Purdue University.
- Kirkby, Scott (2003) Assistant Professor** Chemistry
B.Sc., 1989, University of Western Ontario
Ph.D., 1996, University of Toronto.
- Kirkwood, William (1978) Professor** Communication
Associate Vice President for Academic Affairs and
Executive Director, Office of Planning and Analysis
B.S., 1973, M.A., 1974 and Ph.D., 1978, Northwestern University.
- Knisley, Debra (1990) Associate Professor** Mathematics
B.S., 1976 and M.S., 1979, Tennessee Technological University;
Ph.D., 1989, Memphis State University.
- Knisley, Jeff (1990) Associate Professor** Mathematics
B.A., 1985, Carson-Newman College;
M.S., 1988 and Ph.D., 1990, Vanderbilt University.
- Kornweibel, Karen R. (2007) Assistant Professor** English
B.A., 1994, University of California, San Diego;
M.A., 1997, and Ph.D., 2000, University of Texas, Austin.
- Koterbay, Scott M. (1998) Associate Professor** Art and Design
MA, 1992 and Ph.D., 1998, University of St. Andrews, Scotland.
- Kortum, Richard D. (1999) Associate Professor** Philosophy and
Humanities
B.A., 1985, Duke University;
D. Phil., 1995, Oxford University.
- Kuczynski, Kay (2000) Assistant Professor** Social Work
B.S., 1965, Edgewood College;
M.S.W., 1968, Rutgers University;
D.S.W., 1978, Catholic University.
- Kumar, Dharendra (2005) Assistant Professor** Biological Sciences
B.Sc., 1984, M.Sc., 1987, and Ph.D., 1998, Lucknow University, India.
- Lakey, Chad E. (2008) Assistant Professor** Psychology
B.S., 2003, Western Carolina University;
M.S., 2005 and Ph.D., 2008, University of Georgia.
- Laughlin, Thomas F. (2003) Assistant Professor** Biological
Sciences
B.S., 1979, M.A.T., 1985 and M.S., 1988, East Tennessee State
University;
Ph.D., 1994, Virginia Polytechnic Institute and State University.
- Lee, Tom (2006) Assistant Professor** History
B.A., 1990, East Tennessee State University;
M.A., 1993, Wake Forest University;
Ph.D., 2001, University of Tennessee.
- Leger, Jerry (1973) Professor** Sociology and Anthropology
Director of Planning and Development,
Community Partnership Center
B.A., 1968, North Georgia College;
M.A., 1971 and Ph.D., 1974, University of Iowa;
J.D., 1990, Harvard Law School.
- Lennon-Dearing, Robin (2004) Assistant Professor** Social Work
B.S.W., 1996, and M.S.W., 1998, University of South Florida;
Ph.D., 2004, University of Georgia.

- Levy, Foster (1989) Professor** **Biological Sciences**
Director of Undergraduate Research and Creative Activities,
Honors College
 B.A., 1976 and M.A., 1978, City College of New York;
 Ph.D., 1989, Duke University.
- Lichtenwalner, Shawna (2005) Assistant Professor** **English**
 B.A., 1994, Nebraska Wesleyan University;
 M.A., 1996, University of Nebraska;
 Ph.D., 2004, Auburn University.
- Liu, Yali (2005) Assistant Professor** **Mathematics**
 B.S., 1996, Northwestern Polytechnical University, Xi'an, China;
 M.S., 1999, Peking University, China;
 M.S., 2002 and Ph.D., 2005, Purdue University.
- Liu, Yusheng (2006) Assistant Professor** **Biological Sciences**
 B.Sc., 1986, Sichuan University;
 M.Sc., 1989 and Ph.D., 1992, Nanjing Institute of Geology.
- Lloyd, Theresa (1996) Associate Professor** **English**
 B.A., 1974, Duke University;
 M.A., 1982, Pennsylvania State University;
 Ph.D., 1996, University of North Carolina.
- Luffman, Ingrid E. (2002) Lecturer** **Geosciences**
 B.S., 1993 and M.S., 1997, University of Ottawa, Canada.
- Luttermoser, Donald G. (1996) Associate Professor** **Chair, Physics**
and Astronomy
 B.S., 1981, University of Michigan;
 M.A., 1983, Wayne State University;
 M.A., 1985 and Ph.D., 1988, Indiana University.
- Maas-Brady, Jane T. (2003) Director of Field Instruction ... Social Work**
 B.S., 1978, Greensboro College;
 M.S.W., 1985, University of North Carolina at Chapel Hill.
- MacAvoy, Leslie (2000) Associate Professor** **Philosophy and**
Humanities
 B.A., 1988, Swarthmore College;
 Ph.D., 1998, McGill University.
- Marchioni, Michael P. (1976) Associate Professor** **Geosciences**
Director, Master of Public Administration Program
 B.A., 1963, Montclair State College;
 M.A., 1968, Louisiana State University;
 Ph.D., 1971, University of Cincinnati.
- Marks, Michael A. (2000) Instructor** **Mathematics**
 B.A., 1988, Flagler College;
 M.S., 1991, University of Florida.
- Marshall, Stephen W. (2006) Assistant Professor** **Communication**
 B.S., 1995, M.A., 2004, and Ph.D., 2006, University of Florida.
- Maxson, Brian Jeffrey (2008) Assistant Professor** **History**
 B.A., 2002, Michigan State University;
 M.A., 2003 and Ph.D., 2008, Northwestern University.
- McCallister, Leslie (2003) Assistant Professor** **Sociology and**
Anthropology
 B.A., 1997, M.A., 1998, and Ph.D., 2001, Baylor University.
- McDowell, Timothy D. (1998) Associate Professor** **Biological**
Sciences
 B.A., 1983, University of North Carolina, Chapel Hill;
 M.A., 1989 and Ph.D., 1995, Duke University.
- McGarry, Theresa (2004) Assistant Professor** **English**
 B.A., 1984, Michigan State University;
 M.A., 1994, Temple University of Japan, Osaka;
 Ph.D., 2004, University of South Carolina-Columbia.
- McGill, Jamie (1993) Assistant Professor** **Mathematics**
 B.S., 1990 and M.S., 1992, East Tennessee State University.
- McIntosh, Cecilia A. (1993) Professor** **Biological Sciences**
Dean, School of Graduate Studies
Adjunct Faculty, Biochemistry and Molecular Biology
 B.A., 1977, M.A., 1981 and Ph.D., 1990, University of South Florida.
- McKinstry, Sam W. (1974) Associate Professor** **Political Science**
 B.A., 1962, Westminster College;
 M.A., 1969 and Ph.D., 1974, University of Missouri.
- McLain, Raymond W. (2000) Associate Professor** **Appalachian Studies**
Director, Bluegrass, Old Time, and Country Music
 B.A., 1973, Berea College.
- Mead, Jim I. (2008) Professor** **Chair, Geosciences**
 B.S., 1974, M.S., 1979, and Ph.D., 1982, University of Arizona.
- Messmer, Laughton (2002) Lecturer** **Communication**
 B.A., 1997, Truman State University;
 M.A., 1999, Indiana State University.
- Michieka, Martha (2006) Assistant Professor** **English**
 B.Ed., 1998, Kenyatta University, Kenya;
 M.A., 2002 and Ph.D., 2006, Purdue University.
- Mijeski, Kenneth J. (1971) Professor** **Political Science**
 B.A., 1966, Florida State University;
 Ph.D., 1971, University of North Carolina – Chapel Hill.
- Miller, Hugh A., III (1988) Associate Professor** **Biological Sciences**
 B.S., 1979, East Tennessee State University;
 Ph.D., 1986, University of Tennessee.
- Miller, Larry S. (1984) Professor** **Criminal Justice and Criminology**
 B.A., 1974, East Tennessee State University;
 M.S., 1977, Eastern Kentucky University;
 Ph.D., 1981, University of Tennessee.
 ETSU Distinguished Faculty Award, 2004.
- Mink, Patricia (2003) Associate Professor** **Art and Design**
 B.A., 1981, Kalamazoo College;
 M.F.A., 1996, Eastern Michigan University.
- Mohseni, Ray M. (2000) Assistant Professor** **Chemistry**
Laboratory Director
 B.S., 1980, Pars College, Iran;
 M.S., 1987 and Ph.D., 1990, University of Wyoming.
- Mooney, James J. (1970) Professor** **Communication**
 A.B.J., 1969 and M.A., 1970, University of Georgia;
 Ph.D., 1984, University of Tennessee.
- Moore, Darrell J. (1989) Associate Professor** **Biological Sciences**
 B.A., 1975 and Ph.D., 1983, University of Texas-Austin.
- Morefield, John D. (1983) Associate Professor** **English**
 AB, 1962, Davidson College;
 M.A., 1963, University of Florida.
- Murray, Catherine (1995) Professor** **Chair, Art and Design**
 B.A., 1982, Portland State University;
 M.F.A., 1987, University of Montana.
- Mwinyelle, Jerome (2004) Assistant Professor** **Foreign Languages**
 B.A., 1989, University of Ghana;
 M.A., 1995, Temple University;
 Ph.D., 2005, University of Texas at Austin.
- Nandi, Arpita (2007) Assistant Professor** **Geosciences**
 B.Sc., 1995 and M.Sc., 1997, University of Calcutta, India;
 M.S., 2001, University of Akron;
 Ph.D., 2007, Kent State University.
- Nelson, Ardis L. (1994) Professor** **Foreign Languages**
 B.A., 1965, Oberlin College;
 M.A., 1972, Middlebury College, Madrid;
 Ph.D., 1980, Indiana University.
- Nelson, Diane (1968) Professor Emerita** **Biological Sciences**
 B.S., 1966, M.S., 1968, and Ph.D., 1973, University of Tennessee.
- Newcomer, Daniel (2000) Assistant Professor** **History**
 B.A., 1993 and M.A., 1995, New Mexico State;
 Ph.D., 2000, Texas Christian University.
- Niederberger, Maria (1999) Associate Professor** **Music**
 B.S., 1981, University of California, Davis;
 Ph.D., 1991 Brandeis University.
- Niqussie, Yared (2008) Assistant Professor** **Mathematics**
 B.Sc., 1992, M.Sc., 1994, and Ph.D., Ohio State University.
- Norwood, Frederick (1987) Professor** **Mathematics**
 B.A., 1966 and Ph.D., 1979, University of Southwestern Louisiana;
 M.S., 1969, University of California-Riverside.

- O'Donnell, Kevin E. (1993) Professor** English
Director, Environmental Studies Minor
 B.A., 1984, Kent State University;
 M.A., 1987 and Ph.D., 1993, University of Wisconsin-Milwaukee.
- Oh, Sunjoo (2005) Assistant Professor** Music
 B.M., 1992 and M.M., 1994, Sungshin Women's University, Seoul, Korea;
 D.M.A., 2005, University of South Carolina, Columbia.
- Oliveira, Carrie M. (2007) Assistant Professor** Communication
 B.A., 1999 and M.A., 2002, University of Hawaii at Manoa;
 Ph.D., 2007, Michigan State University.
- Olson, Charles S. "Ted" (1999) Associate Professor** Appalachian Studies
 B.A., 1982, University of Minnesota;
 M.A., 1991, University of Kentucky;
 Ph.D., 1997, University of Mississippi.
- Page, Melvin E. (1987) Professor** History
 B.A., 1966, American University;
 M.A., 1968, Howard University;
 Ph.D., 1977, Michigan State University.
- Paluzzi, Rebecca (1994) Professor** Music
 B.M., 1977 and M.M., 1979, University of Tennessee;
 Diploma, 1986, Talent Education Institute.
- Palmer-Lopez, Sandra (1995) Associate Professor** Foreign Languages
 B.A., 1977, Colegio Universitario de Cayey, Puerto Rico;
 M.A., 1981, University of South Florida;
 Ph.D., 1994, Florida State University.
- Parker, Herbert M. (2005) Assistant Professor** Communication
 B.F.A., 1977, Stephens College;
 M.F.A., 1980, Ohio University.
- Pawlowicz, Peter H. (1987) Associate Professor** Art and Design
 B.A., 1965, Colby College;
 M.A., 1970, West Virginia University;
 Ph.D., 1987, Northwestern University.
- Phillips, Ricky (1997) Instructor** Biological Sciences
 B.S., 1980 and M.S., 1989, East Tennessee State University.
- Poole, George D. (1986) Professor** Mathematics
 B.S.E., 1964, Emporia State University;
 M.S., 1966, Colorado State University;
 Ph.D., 1972, Texas Tech University.
- Powell, Harry D. (1965) Senior Affiliate Faculty** Physics and Astronomy
 B.S., 1960, Davidson College;
 M.S., 1962 and Ph.D., 1965, Clemson University.
- Price, Robert M., Jr. (1997) Associate Professor** Mathematics
 B.S., 1983 and M.S., 1986, Youngstown State University;
 M.S., 1989, Ohio State University;
 Ph.D., 1996, University of Wyoming.
- Pyles, Rebecca A. (1991) Associate Professor** Biological Sciences
Dean, Honors College
 B.S., 1975, University of Missouri-Kansas City;
 M.S., 1979, M.Ph., 1982 and Ph.D., 1988, University of Kansas.
- Razskazovskiy, Yuriy V. (2002) Associate Professor** Physics and Astronomy
 B.S., 1980 and Ph.D., 1984, Moscow State University.
- Rice, Joseph G. (1995) Instructor** Coordinator, Honors College
 B.A., 1983, Wheeling Jesuit University;
 M.F.A., 1988, McNeese State University.
- Roberts, Charles (1990) Professor** Chair, Communication
 B.A., 1965, Davidson College;
 M.A., 1967 and Ph.D., 1980, Temple University.
- Robertson, Joe Leonard (1976) Professor** Biological Sciences
 B.S., 1965, Union University;
 M.S., 1967 and Ph.D., 1975, University of Tennessee.
 ETSU Distinguished Faculty Award, 2005.
- Sanderbeck, Rande P. (1985) Associate Professor** Music
 B.M., 1978 and M.M., 1985, West Virginia University;
 D.M.A., 1997, University of Kentucky.
- Sawyer, Robert E. (2001) Professor** English
 B.A., 1979, Stetson University;
 M.A., 1987, Western Carolina University;
 Ph.D., 1997, University of Georgia.
- Schmitt, Dale J. (1969) Professor** Chair, History
 B.A., 1965, Yale University;
 M.A., 1968 and Ph.D., 1970, University of Kansas.
- Schrift, Melissa (2006) Assistant Professor** Sociology and Anthropology
 B.A., 1991, Appalachian State University;
 M.A., 1992 and Ph.D., 1998, University of Hawaii-Manoa.
- Schubert, Blaine W. (2006) Assistant Professor** Geosciences
Adjunct Faculty, Biological Sciences
 B.A., 1994, Central Missouri State University;
 M.S., 1997, Northern Arizona University;
 Ph.D., 2004, University of Arkansas.
- Seier, Edith (1998) Associate Professor** Mathematics
 B.S., 1971, San Marcos University;
 M.A., 1973, University of Kansas;
 M.S., 1996 and Ph.D., 1998, University of Wyoming.
- Sellers, Eric W. (2009) Assistant Professor** Psychology
 B.A., 1994, M.A., 1999, and Ph.D., 2004, University of South Florida.
- Shafer, Melissa (1999) Associate Professor** Communication
 B.A., 1983, Southern Illinois University - Edwardsville;
 M.F.A., 1985, Southern Illinois University - Carbondale.
- Sheek, Angie (2004) Lecturer** Communication
 B.A., 1997 and M.A., 2001, East Tennessee State University.
- Simon, Leonore (1999) Professor** Criminal Justice and Criminology
 B.A., 1975, University of California-Berkeley;
 J.D., 1978, Case Western Reserve School of Law;
 M.A., 1988 and Ph.D., 1991, University of Arizona.
- Slagle, Judith B. (1999) Professor** Chair, English
 B.S., 1983, and M.A., 1985, East Tennessee State University;
 Ph.D., 1991, University of Tennessee;
 Arts and Sciences Distinguished Research Award, 2007-08.
- Slap, Andrew L. (2003) Associate Professor** History
 B.A., 1994, University of Massachusetts at Amherst;
 Ph.D., 2002, Pennsylvania State University.
- Slatton, Ralph (1990) Professor** Art and Design
 B.F.A., 1981 and M.A., 1986, Arkansas State University;
 M.F.A., 1990, University of Iowa.
- Smith, Beverly J. (1999) Associate Professor** Physics and Astronomy
 A.B., 1983, Brown University;
 Ph.D., 1989, University of Massachusetts.
 ETSU Distinguished Faculty Award, 2005.
- Smith, Michael A. (1981) Professor** Art and Design
 B.F.A., 1977, Massachusetts College of Art;
 M.F.A., 1981, Yale University School of Art.
- Smith, Willie D. (2001) Instructor** Mathematics
 B.S., 1998 and M.A.L.S., 2001, East Tennessee State University.
- Songer, Marcia J. (1983) Associate Professor** English
 B.S., 1958, Southern Illinois University;
 M.A., 1977, East Tennessee State University;
 ETSU Distinguished Service Award, 2007-08.
- Stephens, Daryl (1994) Assistant Professor** Mathematics
 B.S., 1983 and M.Ed., 1987, University of North Texas;
 M.S., 1993, Texas Woman's University;
 Ph.D., 2005, University of Tennessee - Knoxville.
- Stewart, James Ross (2006) Assistant Professor** Biological Sciences
 B.A., 1967, Denisen University;
 M.S., 1970, University of Missouri;
 Ph.D., 1976, University of California.
- Sun, Peng (2008) Assistant Professor** Chemistry
 B.S., 1996, Guilin Institute of Technology, Guilin, China;
 Ph.D., 2003, Changchun Institute of Applied Chemistry, Changchun, China.

Tezuka-Mathes, Junko (2008) Lecturer Foreign Languages
 B.A., 1992, Tamagawa University, Tokyo, Japan;
 M.A., 2000, University of Wisconsin – Madison.

Thompson, Phyllis A. (2005) Assistant Professor English
 B.A., 1983, University of North Carolina at Greensboro;
 M.A., 1992, Appalachian State University;
 Ph.D., 2003, Louisiana State University.

Tilson, James Glenn (1993) Instructor Physics and Astronomy
 B.S., 1963, East Tennessee State University
 M.S., 1974, University of Tennessee.

Trogen, Paul C. (1995) Associate Professor Political Science
 B.A., 1976, University of St. Thomas;
 M.A., 1991, Mankato State University;
 Ph.D., 1995, Florida State University.

Tudico, Paul J. (2003) Lecturer Philosophy and Humanities
 B.A., 1989, Siena College;
 M.A., 1992, Bowling Green State University.

Vasiliev, Aleksey (2008) Assistant Professor Chemistry
 B.S., 1982 and M.S., 1989, Kiev State University, Kiev, Ukraine;
 Ph.D., 1991, National Academy of Sciences of Ukraine, Kiev, Ukraine.

Waage, Frederick O. (1978) Professor English
 A.B., 1965 and Ph.D., 1971, Princeton University.

Wahlberg, Patty Gibbs (1999) Professor Social Work
 B.S.W. Program Director
 Ed.D., 1992, West Virginia University.

Wallace, Steven (2001) Associate Professor Geosciences
 B.S., 1995, Bowling Green University;
 M.S., 1997, Fort Hays State University;
 Ph.D., 2001, University of Iowa.

Wardeska, Jeffrey G. (1967) Professor Chair, Chemistry
 B.S., 1963, Mount Union College;
 Ph.D., 1967, Ohio University.

Watson, Elwood D. (1997) Professor History
 B.A., 1990 and M.A., 1992, University of Delaware;
 Ph.D., 1999, University of Maine.

Webb, Jon R. (2005) Assistant Professor Psychology
 B.S., 1991, Brigham Young University;
 M.A., 1993, Pepperdine University;
 Ph.D., 1998, California School of Professional Psychology, Los Angeles.

Weiss, Katherine (2006) Assistant Professor English
 M.Phil., 1997, Trinity College, Dublin;
 M.A., 1999, California State University;
 Ph.D., 2002, University of Reading, UK.

Whitehead, John T. (1987) Professor Chair, Criminal Justice and Criminology
 B.A., 1969, St. John Vianney Seminary;
 M.A., 1973, University of Notre Dame;
 M.A., 1978 and Ph.D., 1983, State University of New York-Albany.
 ETSU Distinguished Faculty Award, 2006.

Whitelaw, Michael (2003) Associate Professor Geosciences
 B.S., 1982 and B.S. Hons., 1983, Monash University, Australia;
 Ph.D., 1990, University of Florida.

Whitson, Marian H. (1993) Assistant Professor Criminal Justice and Criminology
 B.A., 1966, Dillard University;
 M.S., 1968, Tennessee State University;
 J.D., 1984, Miles Law School;
 Ph.D., 1994, Indiana University of Pennsylvania.

Wild, Stacey (2008) Lecturer Biological Sciences
 B.S., 1986, Louisiana Tech University;
 Ph.D., 1992, Clemson University.

Williams-Gebhardt, Stacey L. (2006) Assistant Professor . Psychology
 B.S., Youngstown State University;
 M.S., and Ph.D., Kent State University.

Willis, James R. (2004) Lecturer Communication
 B.A., 1972 and M.P.A., 1979, Indiana University.

Wilson, Norma Ruth (2004) Assistant Professor Communication
 B.A., 1969, University of Iowa;
 M.S., 1974, and Ph.D., 1977, University of Kansas.

Yampolsky, Lev (2001) Associate Professor Biological Sciences
 M.S., 1986, Moscow State University;
 Ph.D., 1992, N.I. Vavilov Institute.

Young, David G. (2005) Assistant Professor Chemistry
 B.S., 1988, Ohio Northern University;
 M.S., 1991 and Ph.D., 1994, The Ohio State University.

Zavada, Michael S. (2006) Professor Chair, Biological Sciences
 B.S., 1974 and M.S., 1976, Arizona State University;
 B.A., 1982 and Ph.D., 1982, University of Connecticut.

Zembower, Christian (2007) Assistant Professor Music
 B.S., 1990, Frostburg State University;
 M.A., 1992, Indiana University of Pennsylvania;
 D.M.E., 2000, University of Southern Mississippi.

Zhang, Chunhua (2007) Assistant Professor Geosciences
 B.S., 1993, Hunan Normal University;
 M.S., 1996, Southwest China Normal University;
 Ph.D., 2007, University of Saskatchewan.

Zhao, Ningfeng (2008) Assistant Professor Chemistry
 B.S., 2000, University of Science and Technology of China, Heifei, China;
 M.S., 2003 and Ph.D., 2005, Wichita State University.

**COLLEGE OF BUSINESS AND TECHNOLOGY
 BUSINESS**

Alavi, Jafar (1985) Professor Economics and Finance
 B.S., 1975, Karaj School of Managerial Economics;
 M.B.A., 1978, Mississippi State University;
 M.A., 1984 and Ph.D., 1986, University of Tennessee.

Anthony, Murray S. (1972) Professor Accountancy
 B.B.A., 1966 and M.B.A., 1967, University of Memphis;
 Ph.D., 1975, University of Missouri;
 CPA Tennessee.

Baryla, Edward A., Jr. (1995) Associate Professor ... Chair, Economics and Finance
 B.A., 1982, and M.B.A., 1990, University of Scranton;
 M.A., 1994 and Ph.D., 1995, University of Alabama.

Becker, Lana L. (1991) Lecturer Accountancy
 B.M.E., 1976, Central Missouri State University;
 B.B.A., 1982 and M.B.A., 1990, East Tennessee State University.

Berg, Gary G. (1987) Associate Professor Accountancy
 B.A., 1973, University of South Florida;
 M.B.A., 1981, Florida Atlantic University;
 Ph.D., 1987, Texas A&M University; CPA, Florida.

Burkette, Gary D. (1992) Associate Professor Chair, Accountancy Coordinator, M.Acc. Program
 B.S., 1978, Wake Forest University;
 M.Acct., 1986 and Ph.D., 1994, Virginia Tech.

Chen, John (2007) Lecturer Economics and Finance
 B.S., 1995, Shandong University;
 M.A., 1998, Peking University;
 Ph.D., 2006, Purdue University.

Chu, Ting-Heng (2001) Associate Professor Economics and Finance
 B.A., 1992, National Chung Hsing University, Taipai;
 M.B.A., 1995, and Ph.D., 2002, University of Texas-Arlington.

Czuchry, Andrew J. (1992) Professor Management and Marketing and Technology and Geomatics Chairholder, AFG Industries Chair of Excellence in Business and Technology
 B.S.E.E., 1964, M.S.A.E., 1965, and Ph.D., 1969, University of Connecticut.

Dotterweich, Douglas P. (1984) Professor Economics and Finance
 B.A., 1973, University of Tennessee;
 M.A., 1975 and Ph.D., 1978, University of Delaware.

Everett, Michael David (1977) Professor Economics and Finance
 B.A., 1960 and Ph.D., 1967, Washington University.

- Frierson, James G. (1973) Professor** **Management and Marketing**
B.S., 1962, Arkansas State University;
J.D., 1965 and M.B.A., 1969, University of Arkansas.
ETSU Distinguished Faculty Member, 1977;
ETSU Foundation Research Award, 1986.
- Garceau, Linda (2000) Professor** **Dean, College of Business and Technology**
B.A., 1970 and M.S.P.A., 1976, University of Hartford;
M.B.A., 1983 and D.B.A., 1986, Boston University.
- Gregory, Richard P. (2008) Assistant Professor** **Economics and Finance**
B.A., 1988, Old Dominion University;
M.A., 1990, Indiana University – Bloomington;
Ph.D., 1996, Old Dominion University.
- Hipple, F. Steb (1982) Professor** **Economics and Finance**
B.A., 1962 and M.A., 1964, Trinity University;
Ph.D., 1972, Southern Methodist University.
- Justice, Robert** **Director, Small Business Development Center**
B.B.A., 1974 and M.B.A., 1981, Morehead State University.
- Kaplan, Ricki Ann (2007) Lecturer** **Management and Marketing**
B.S., 1987, Elmira College;
M.A., 1993 and M.B.A., 1999, East Tennessee State University.
- Liang, Beichen (2007) Assistant Professor** **Management and Marketing**
B.S., 1993, Zhengzhou Institute of Light Industry, China;
M.B.A., 2002, University of Louisiana at Lafayette;
Ph.D., 2007, University of Illinois at Chicago.
- Loess, Kurt H. (1998) Assistant Professor** **Management and Marketing**
B.A., 1977, College of Wooster;
M.B.A., 1987 and Ph.D., 1998, Case Western Reserve University.
- Mackara, W. Frederick (1975) Associate Professor** **Economics and Finance**
Assistant Director, Graduate Business Studies
A.B., 1969, Rutgers University;
Ph.D., 1976, Texas A&M University.
- Manahan, Richard A. (1981) Professor** **Accountancy/Educational Leadership and Policy Analysis**
Vice President for University Advancement
B.S., 1965, M.S., 1971 and Ed.D., 1975, Illinois State University;
CPA, Tennessee, Virginia, and Illinois.
- Mason, W. Joe Jr. (1984) Associate Professor** **Economics and Finance**
B.S., 1977, East Tennessee State University;
M.B.A., 1978, University of Tennessee;
Ph.D., 1987, University of South Carolina.
- Matherne, Curtis F. (2009) Assistant Professor** **Management and Marketing**
B.S., 2000, M.B.A., 2002, University of Southern Mississippi;
A.B.D., 2009, Mississippi State University.
- McKinney, Michael M. (1994) Associate Professor** **Management and Marketing**
Assistant Dean for External Programs and Relations
B.S., 1980, and M.B.A., 1987, East Tennessee State University;
J.D., 1991, Columbia University.
- Miller, Phillip E. (1994) Associate Professor** **Chair, Management and Marketing**
B.S., 1972, University of Tennessee;
M.S., 1978, Air Force Institute of Technology;
M.S., 1979, University of Southern California;
Ph.D., 1985, University of North Carolina.
- Mitchell, Lorianne (2004) Assistant Professor** **Management and Marketing**
B.A., 1999, City College of New York of the City—University of New York.
- Moore, Tom (2007) Assistant Professor** **Management and Marketing**
B.B.A., 1997 and M.B.A., 2002, University of North Texas at Denton;
Ph.D., 2007, University of Texas at Arlington.
- Morgan, Robert G. (1985) Professor** **Accountancy**
B.A., 1968, Piedmont College;
M.Acc., 1971 and Ph.D., 1974, University of Georgia;
CMA, CPA, North Carolina.
- Pointer, Martha M. (1991) Associate Professor** **Accountancy**
Associate Dean and Director, Graduate Studies, College of Business
B.S., 1972, Tennessee Technological University;
M.A., 1977 and M.B.A., 1981, East Tennessee State University;
Ph.D., 1992, University of South Carolina; CPA, Tennessee.
- Pollock, Eugenea (2004) Lecturer** **Management and Marketing**
B.A., 1969 and J.D., 1977, University of Tennessee
- Rhea, Kelly B. Price (2006) Assistant Professor** **Management and Marketing**
B.S., 1995 and M.A., 2001, East Tennessee State University;
Ph.D., 2004, University of Tennessee, Knoxville.
- Quigley, John V. (1984) Associate Professor** **Management and Marketing**
Director of Honors in Discipline
B.B.A., 1967, M.B.A., 1970 and Ph.D., 1979, Georgia State University.
- Roberts, Anna D. (1982) Professor** **Management and Marketing**
B.S., 1974, East Tennessee State University;
Ph.D., 1990, University of North Carolina, Greensboro.
- Rochelle, Carolyn F. (2004) Lecturer** **Economics and Finance**
B.S., 1975, Tennessee Technological University;
M.B.A., 1989, East Tennessee State University.
- Ryman, Joel A. (2003) Associate Professor** **Management and Marketing**
B.A., 1983, Goshen College;
M.S., 1988, Thunderbird;
Ph.D., 1999, University of Tennessee.
- Schneider, Kent N. (1984) Professor** **Accountancy**
B.S.B.A., 1975 and J.D., 1978, University of Missouri-Columbia;
M.Acc., 1984, University of Oklahoma;
CPA, Missouri and Texas.
- Shelley, Gary L. (2004) Assistant Professor** **Economics and Finance**
B.S., 1983 and Ph.D. 1991, Virginia Polytechnic Institute & State University.
- Shemwell, Donald J. (1993) Professor** **Management and Marketing**
B.S., 1979 and Ph.D., 1993, Florida State University.
- Small, Michael A. (2008) Professor** **Management and Marketing**
B.A., 1981, M.B.A., 1984, and D.B.A., 1993, Cleveland State University.
- Smith, Jon L. (1980) Associate Professor** **Economics and Finance**
Director, Bureau of Business and Economic Research
B.S., 1968, Mississippi State University;
M.A., 1975 and Ph.D., 1982, University of South Carolina.
- Sparks, Shelby G. (1998) Lecturer** **Accountancy**
B.B.A., 1997 and M.Acc., 1998, East Tennessee State University.
- Spritzer, Allan D. (1981) Professor** **Management and Marketing**
Chairholder, Allen & Ruth Harris Chair of Excellence in Business
B.A., 1963, City College of New York;
M.A., 1964, University of Illinois;
Ph.D., 1971, Cornell University.
- Stead, Jean Garner (1982) Professor** **Management and Marketing**
B.S., 1971 and M.A., 1973, Auburn University;
M.B.A., 1979, Western Illinois University;
Ph.D., 1983, Louisiana State University,
ETSU Foundation Teaching Award, 1995.
- Stead, W. Edward (1982) Professor** **Management and Marketing**
B.S., 1968 and M.B.A., 1972, Auburn University;
Ph.D., 1976, Louisiana State University.

Steadman, Mark E. (1989) Associate Professor Accountancy
 B.S., 1979, University of Tennessee;
 M.Acc., 1982, East Tennessee State University;
 Ph.D., 1990, University of Tennessee;
 CPA, Tennessee.

Stevenson, Taylor P. (2008) Assistant Professor Economics and Finance
 B.B.A., 1998, University of North Alabama;
 Ph.D., 2004, University of Mississippi.

Swinehart, Kerry D. (1990) Associate Professor Management and Marketing
 B.A., 1983, University of South Florida;
 M.B.A., 1985 and Ph.D., 1989, University of Georgia.

Tarnoff, Karen A. (1994) Associate Professor Management and Marketing
 B.S., 1987, M.S., 1993 and Ph.D., 1999,
 Virginia Polytechnic Institute and State University.

Trainer, William (2006) Associate Professor Economics and Finance
 B.S., 1987 and M.A., 1988, University of South Florida;
 Ph.D., 2004, Virginia Tech.

Turner, Craig (2002) Associate Professor Management and Marketing
 B.S., 1981, and M.B.A., 1990, University of Central Florida;
 Ph.D., 1999, University of Tennessee.

Weir, Ronald L. (1971) Professor Management and Marketing
 B.S., 1965 and M.B.A., 1967, Northeast Louisiana State College;
 D.B.A., 1977, Mississippi State University.
 ETSU Distinguished Faculty Member, 1976.

White, Larry (2007) Professor Economics and Finance
John H. Poteat Chair of Banking
Director, Center for Banking
 B.A., 1969, Mississippi State University;
 M.B.A., 1975 and Ph.D., 1985, University of Georgia.

Yasin, Mahmoud M. (1988) Professor Management and Marketing
 B.A., 1981, M.S., 1983 and Ph.D., 1986, Clemson University.
 ETSU Foundation Research Award, 1996.

Yavas, Ugur (1987) Professor Management and Marketing
 B.A., 1970, Robert College;
 M.B.A., 1972 Florida State University;
 M.B.A., 1974 and Ph.D., 1976, Georgia State University.
 ETSU Foundation Research Award, 1993.

TECHNOLOGY

Bailes, Gordon Lee, Jr. (1972) Professor Computer and Information Sciences
 B.S., 1968, M.S., 1969 and Ph.D., 1972 Clemson University.
 ETSU Distinguished Faculty Award, 1985.

Bailey, Gene (1983) Professor Computer and Information Sciences
 B.S., 1967, Rutgers;
 M.S., 1970, University of Minnesota;
 Ph.D., 1978, University of Missouri-Rolla.

Barrett, Martin L. (1994) Professor Assistant Chair, Computer and Information Sciences
 B.S., 1975, Pennsylvania State University;
 M.A., 1983, University of Maryland;
 M.S., 1986 and Ph.D., 1989, University of Wisconsin-Madison.

Becker, Sharon (2005) Assistant Professor Interior Design
 B.S., 1995, University of Tennessee;
 M.S., 2005, East Tennessee State University.

Blanton, William Hugh (1999) Associate Professor Technology and Geomatics
 B.S., 1971, University of Houston;
 M.S., 1978 and M.B.A., 1986, West Texas State University;
 Ed.D., 1992, East Tennessee State University.

Broome, Hugh W. (1962) Associate Professor Technology and Geomatics
 B.S., 1958, University of Tennessee;
 M.A., 1962, East Tennessee State University;
 M.S., 1969, University of Arizona.

Burke III, Samuel J. (2002) Assistant Professor Computer and Information Sciences
 B.S., 1982 and M.S., 2001, East Tennessee State University.

Chang, Guanghsu A. (2004) Associate Professor Technology and Geomatics
 B.S., 1983, National Taiwan University of Science and Technology;
 M.S., 1987 and Ph.D., 1991, University of Texas-Arlington.

Clark, Marian M. (1986) Associate Professor Surveying and Mapping
 B.S., 1973 and M.S., 1978, Purdue University;
 Ph.D., 1985, University of Wisconsin-Madison.

Clark, W. Andrew (2002) Associate Professor Technology and Geomatics
 B.S., 1975, Colorado State University;
 M.S., 1978, University of Georgia;
 Ph.D., 1980, North Carolina State University.

Coffey, Dennis (1999) Lecturer Technology and Geomatics
 B.A., 1972, Berea College;
 M.A., 1975 and M.B.A., 1979, University of Alabama;
 M.B.C., 1996, Auburn University;
 Ph.D., 1988, University of Tennessee;
 M.S., 2005, East Carolina University.

Cornett, Cheryl G. (2002) Associate Professor Technology and Geomatics
 B.F.A., 1980, University of Georgia;
 M.F.A., 1989, Syracuse University.

Counterline, Terry A. (1990) Professor Chair, Computer and Information Sciences
 B.S., 1965, Alliance College;
 D.Ed., 1973, Pennsylvania State University.

Czuchry, Andrew J. (1992) Professor Technology and Geomatics and Management and Marketing
Chairholder, AFG Industries
Chair of Excellence in Business and Technology
 B.S.E.E., 1964, M.S.A.E., 1965, and Ph.D., 1969, University of Connecticut.

Emma, Todd B. (2007) Assistant Professor Technology and Geomatics
 B.A., 1998, University of North Carolina;
 M.F.A., 2000, Memphis College of Art.

Fitzgerald, Martin R. (2003) Assistant Professor Technology and Geomatics
 B.M., 1984, Indiana University-Bloomington;
 M.M., 1986, State University of New York-Stony Brook.

Franklin, Todd (2007) Advisor/Mentor Computer and Information Services
 B.S., 1988 and M.S., 2006, East Tennessee State University;
 M.A., 1992, University of Hawaii.

Frazier, David (2007) Lecturer Computer and Information Services
 B.A., 1986, University of Louisville;
 M.S., 2004, East Tennessee State University.

Hemphill, William K. (1992) Associate Professor Technology and Geomatics
Adjunct Faculty, Obstetrics and Gynecology
 B.S.M.E., 1981, University of Tennessee-Knoxville;
 M.S., 1992, East Tennessee State University.

Hounshell, Jonathan C. (2007) Assistant Professor Technology and Geomatics
 A.A., 1995 and B.A., 1997, Virginia Intermont;
 M.F.A., 2004, East Tennessee State University.

Hyder, Carroll R. (1967) Associate Professor Associate Dean, College of Business and Technology
 B.S., 1967 and M.S., 1967, East Tennessee State University;
 Ph.D., 1971, Ohio State University.

Johnson, Keith V. (1993) Professor Chair, Technology and Geomatics
 B.S., 1987 and M.S., 1988, North Carolina A&T State University;
 Ph.D., 1993, Ohio State University.

- Kellogg, Kenneth G. (2008) Associate Professor** **Technology and Geomatics**
B.S., 1979, North Dakota State University;
M.S., 1986 and Ph.D., 2002, Utah State University.
- Laws, Michaele (2001) Assistant Professor** **Computer and Information Sciences**
B.A., 1990 and M.S., 1999, University of Southern Mississippi.
- May, Robert M., II (1982) Assistant Professor** **Technology and Geomatics**
B.S.E.E., 1968, Virginia Polytechnic Institute and State University;
M.S., 1985, University of Tennessee.
- Parker, Charles D. (1986) Assistant Professor** **Technology and Geomatics**
B.S., 1978 and M.S., 1982, Murray State University.
- Pfeiffer, Phillip E., IV (1996) Professor** **Computer and Information Sciences**
B.S., 1976, Yale University;
M.S., 1986 and Ph.D., 1991, University of Wisconsin, Madison.
- Pine, Vernon (1999) Assistant Professor** **Computer and Information Sciences**
B.S., 1967, Roanoke College;
M.S., 1996, East Tennessee State University.
- Pittarese, Anthony (2007) Assistant Professor** **Computer and Information Sciences**
B.S., 1991, Pensacola Christian College;
M.B.A., 1992 and M.S., 1997, University of West Florida;
Ph.D., 2003, Auburn University.
- Powell, LT. Robert L. (2001) Assistant Professor** **Military Science**
B.B.A., 1994, East Tennessee State University.
- Price, Kellie (1999) Assistant Professor** **Computer and Information Sciences**
B.S., 1994 and M.S., 1997, East Tennessee State University.
- Price, Robert M., Jr. (1997) Associate Professor** **Mathematics**
B.S., 1983 and M.S., 1986, Youngstown State University;
M.S., 1989, Ohio State University;
Ph.D., 1996, University of Wyoming.
- Roach, Jeffrey W. (2002) Assistant Professor** **Computer and Information Sciences**
B.S., 1995, University of Technology, Jamaica;
M.S., 2000, East Tennessee State University.
- Ross, Jeremy (2008) Assistant Professor** **Technology and Geomatics**
B.Arch., 1996, University of Tennessee, Knoxville;
M.S., 2007, East Tennessee State University.
- Sanderson, Donald B. (1993) Professor** **Computer and Information Sciences**
B.A., 1984, New College of University of South Florida;
M.S., 1986 and Ph.D., 1994, Rensselaer Polytechnic Institute.
- Sims, Joseph P. (2000) Professor** **Technology and Geomatics**
B.S., 1985 and 1991, Middle Tennessee State University;
M.S., 1989, University of Tennessee;
Ph.D., 1996, University of Wales, UK.
- Smith, Jessica (2007) Lecturer** **Computer and Information Sciences**
B.S., 2004, East Tennessee State University;
M.S., 2005, Carnegie Mellon University.
- Smith, Suzanne (2003) Associate Professor** **Computer and Information Sciences**
B.S., 1975, Baylor University;
M.A.T., 1979, Vanderbilt University;
M.S., 1984, University of Southwestern Louisiana;
Ph.D., 1991, Florida State University.
- Tarnoff, David (1999) Assistant Professor** **Computer and Information Sciences**
B.S., 1987 and M.S. 1991, Virginia Polytechnic Institute.
- Tillman, Primus J. (1999) Assistant Professor** **Technology and Geomatics**
B.A., 1984, University of Memphis;
M.A., 1990-Memphis College of Arts.
- Vaglia, John S. (1976) Professor** **Technology and Geomatics**
B.S., 1964, California University of Pennsylvania;
M.A., 1970, East Tennessee State University;
Ph.D., 1978, University of Maryland.
- Wallace, Chris (2007) Assistant Professor** **Computer and Information Sciences**
B.S., 1997 and M.S., 1999, East Tennessee State University;
M.S., 2002, Carnegie Mellon University.
- Wronecki, James A. (2002) Assistant Professor** **Technology and Geomatics**
B.A., 1990, State University of New York-Buffalo;
M.I.D., 1998, The University of Arts.
- Zucker, Ronald (2007) Assistant Professor** **Computer and Information Sciences**
B.S., 1973, University of Bridgeport;
M.S.C.I.S., 1984, Troy State University, Montgomery;
Ph.D., 2007, University of South Florida.

**COLLEGE OF CLINICAL AND
REHABILITATIVE HEALTH SCIENCES**

- Akin, Faith Wurm (2006) Associate Professor** **Communicative Disorders**
B.A., 1984, University of Tennessee, Knoxville;
M.S., 1987, University of Texas, Dallas;
Ph.D., 1997, Vanderbilt University.
- Arnall, David Alan (2005) Professor** **Chair, Physical Therapy**
Bs.P.T., 1977, University of Utah, Salt Lake City;
Ph.D., 1985, Brigham Young University, Provo, Utah.
- Barnhart, Robert C. (1996) Assistant Professor** **Physical Therapy Academic Coordinator of Clinical Education**
B.A., 1977, West Virginia Wesleyan College;
Certificate, Physical Therapy, 1979, Emory University;
M.S., 1992, University of Tennessee – Knoxville;
Sc.D.P.T., 2006, University of Tennessee Health Science Center.
- Basham, Pepper D. (2007) Clinical Faculty** **Communicative Disorders**
B.S., 1997 and M.S., 1999, Radford University.
- Boggs, Teresa L. (1998) Assistant Professor** **Communicative Disorders**
B.S., 1988 and M.S., 1991, East Tennessee State University.
- Breese, Ute H. (2000) Assistant Professor** **Physical Therapy**
B.S., 1977, State University of New York;
M.Ed., 1998, East Tennessee State University;
Ph.D., 2007, University of Tennessee – Knoxville.
- Byington, Randy L. (2006) Assistant Professor** **Allied Health Sciences**
B.S., 1978, University of Virginia;
M.B.A., 1989 and Ed.D., 2003, East Tennessee State University.
- Chase, Patricia (2000) Associate Professor** **Communicative Disorders**
B.S., 1975 and M.S., 1976, East Carolina University;
Ph.D., 1997, Vanderbilt University.
- Cherry, Shirley J. (2007) Assistant Professor** **Program Director, Radiography**
B.S., 1990, Salem-Teikyo University;
M.B.A., 1995, Kent State University.
- Davenport, Mary Jo (1997) Assistant Professor** **Physical Therapy**
B.S. and Certificate in Physical Therapy, 1973, University of Michigan;
M.S., 1990, Vanderbilt University.
- Dotson, Deborah L. (2003) Assistant Professor** **Dental Hygiene**
A.A.S., 1978, B.S., 1978, M.A., 1985, East Tennessee State University.
- Ekstrom, Michelle G. (2005) Research Assistant** **Communicative Disorders**
B.S.Ed., 1998, Western Carolina University Honors College;
M.S., 2000, East Tennessee State University.
- Elangovan, Saravanan (2005) Assistant Professor** **Communicative Disorders**
B.Sc., 1995 and M.Sc., 1998, All India Institute of Speech and Hearing;
Ph.D., 2005, East Carolina University.

Epps, Susan B. (2001) Assistant Professor Allied Health Sciences
 B.A., 1988, Wake Forest University;
 M.A., 1995, Appalachian State University;
 Ed.D., 2002, East Tennessee State University.

Fagelson, Marc A. (1996) Professor Interim Chair, Communicative Disorders
 B.A., 1986, Columbia University, School of General Studies;
 M.S., 1990, Columbia University, Teachers College;
 Ph.D., 1995, University of Texas, Austin.

Farrow, Jeff R. (1993) Medical Director Cardiopulmonary Science
 B.S., 1981, Baylor University;
 M.D., 1985, University of New Mexico, Albuquerque.

Faust, Charles C. (1986) Associate Professor Chair, Allied Health Sciences
 B.S., 1976, University of Southwestern Louisiana;
 B.S., 1980, Northeast Louisiana University;
 M.Ed., 1985, University of Southwestern Louisiana;
 Ed.D., 1997, University of Tennessee.

Guntupalli, Vijaya Kimar (2007) Assistant Professor .. Communicative Disorders
 B.S., 1999 and M.S., 2001, All India Institute of Speech and Hearing, University of Mysore;
 Ph.D., 2007, East Carolina University.

Hopson, Victor W. (1977) Associate Professor Dental Hygiene
 D.D.S., 1973, University of Tennessee Medical Units.

Johnson, Earl E. (2007) Assistant Professor Communicative Disorders
 B.S., 2002, Radford University;
 M.S., 2004 and Ph.D., 2007, Vanderbilt University.

Keene, Kevin S. (2004) Assistant Professor Program Director, Cardiopulmonary Science
 B.S., 2001 and M.S., 2002, Mountain State University;
 M.B.A., 2004, King College.

King, Karen D. (1990) Professor Associate Vice President for Academic Technology
 A.S., 1979 and B.S., 1981, East Tennessee State University;
 M.H.Ed., 1983, Medical College of Georgia.

Leigh-Paffenroth, Elizabeth (2005) Asst. Professor Communicative Disorders
 B.S., 1990, Texas Tech University;
 M.S., 1993, East Carolina University;
 Ph.D., 2003, University of Wisconsin - Madison.

Lowe, Elizabeth (1999) Assistant Professor Nutrition and Foods
 B.S., 1974 and M.S., 1982, University of Tennessee.

Murnane, Owen D., Jr. (1995) Assistant Professor Communicative Disorders
 B.S., 1978 and M.Ed., 1980, James Madison University;
 Ph.D., 1995, Syracuse University.

Noe, Colleen M. (2005) Associate Professor Communicative Disorders
 B.S., 1989 and M.S., 1991, East Tennessee State University;
 Ph.D., 1994, Ohio State University.

Owens, Beatrice H. (2006) Assistant Professor Physical Therapy
 B.S.P.T., 1989, University of Tennessee - Memphis;
 Ph.D., 2004, East Tennessee State University.

Price, Tabitha N. (2006) Assistant Professor Dental Hygiene
 B.S.D.H., 2004 and M.P.H., 2006, East Tennessee State University.

Proctor-Williams, Kerry (2002) Associate Professor ... Communicative Disorders
 B.Sc., 1980 and MCI.Sc., 1984, University of Western Ontario;
 Ph.D., 2005, University of Kansas.

Redman, Roy (2009) Assistant Professor Cardiopulmonary Sciences
 B.S., 1985, Ottawa University;
 M.S., 1993, Cardinal Stritch University.

Rice, Jody (2004) Instructor Communicative Disorders
 B.S., 1999, University of West Virginia;
 M.S., 2001, East Tennessee State University.

Samples, Donald A. (1990) Associate Professor Associate Dean, College of Clinical and Rehabilitative Health Sciences
 B.B.A., 1980, East Tennessee State University;
 M.S., 1993, University of Tennessee-Knoxville;
 Ed.D., 1998, East Tennessee State University.

Scherer, Nancy J. (1992) Professor Dean College of Clinical and Rehabilitative Health Sciences
 B.S., 1971 and M.S., 1972, University of Wisconsin, Madison;
 Ph.D., 1980, University of Washington.

Sharuga, Constance R. (2005) Associate Professor Dental Hygiene
 A.A.S., 1973, Westbrook College;
 B.A., 1976, St. Francis College;
 M.Ed., 1987 and Ph.D., 1990, Colorado State University.

Slawson, Deborah (2007) Assistant Professor Nutrition and Foods
 B.S., 1988 and M.S., 1990, Memphis State University;
 Ph.D., 1999, University of Memphis.

Smith, Sheri Lyn (2005) Assistant Professor Communicative Disorders
 B.S., M.S., Au.D., and Ph.D., University of Florida.

Smurzynski, Jacek (2003) Associate Professor Communicative Disorders
 B.A., 1974, Music School of Warsaw, Poland;
 M.Sc., 1976, Technical School of Warsaw, Warsaw, Poland;
 Ph.D., 1987, Technical School of Wroclaw, Wroclaw, Poland.

Verhovsek, Ester L. (2006) Associate Professor Radiography
 B.A., 1985, LaRoche College;
 M.Ed., 1990, Frostburg State University;
 Ed.D., 2003, West Virginia University.

Williams, A. Lynn (1995) Professor Communicative Disorders
 B.S., 1978 and M.S., 1980, West Virginia University;
 Ph.D., 1988, Indiana University.

Williams, Duane A. (1994) Associate Professor Physical Therapy
 B.S. and Certificate in Physical Therapy, 1970, Kansas University;
 M.A., 1972, University of Iowa.

Wilson, Richard H. (2006) Professor Communicative Disorders
 B.S., East Tennessee State University;
 M.S., Vanderbilt University;
 Ph.D., Northwestern University.

CLEMMER COLLEGE OF EDUCATION

Ayres, Christopher A. (1973) Associate Professor Kinesiology, Leisure and Sport Sciences
 B.S., 1972 and M.S., 1973, Central Missouri State University.

Bailiff, Gina C. (1998) Instructor University School
 B.A., 1994 and M.A.T., 1997, East Tennessee State University.

Barnes, Tammy (2004) Clinical Instructor Curriculum and Instruction
 B.S., 1987, M.Ed., 1998, and Ed.D., 2003 East Tennessee State University.

Barnett, Kelli (2004) Instructor University School
 B.A., 1998, M.A.T., 2003, East Tennessee State University.

Barton, Alison L. (2005) Assistant Professor Human Development and Learning
 B.A., 1993, University of Kentucky;
 M.A., 1997 and Ph.D., 2001, Northern Illinois University.

Bartoszuk, Karin (2005) Assistant Professor Human Development and Learning
 B.S., 1995 and M.S., 1996, Tarleton Central Texas (formerly University of Central Texas);
 Ph.D., 2002, Auburn University.

Bearfield, Linda (2007) Clinical Instructor Human Development and Learning
 B.S., 1976 and M.S.Ed., 1997, East Tennessee State University.

Bevan, Carol A. (1995) Instructor University School
 B.A., 1973, Florida Southern;
 M.A., 1989, Nova University.

- Bitter, James R. (1995) Professor** Human Development and Learning
B.A., 1969, Gonzaga University;
M.Ed., 1971 and Ed.D., 1975, Idaho State University.
- Blakely, April (1997) Instructor** University School
B.S., 1988 and M.A., 1992, East Tennessee State University;
National Board Certified Teacher (1999).
- Blankenship, Cecil N. (1971) Professor** Human Development and Learning
B.S., 1968 and M.A.T., 1970, East Tennessee State University;
Ed.D., 1972, University of Tennessee.
- Borden, Joseph E. (1995) Instructor** University School
B.M., 1970, University of Georgia;
M.A., 1977, University of North Colorado;
M.M., 1978, Georgia State University;
D.M.A., 1987, Southern Baptist Seminary.
- Borthwick, Kristen (2002) Instructor** University School
B.S., 1994, Centre College;
M.Ed., 1996, Milligan College.
- Brikell, Noell (2005) Instructor** University School
B.A., 1997 and M.Ed., 1999, East Tennessee State University.
- Broderick, Jane T. (2003) Associate Professor** Human Development and Learning
B.F.A., 1976, Pratt Institute;
M.A., 1996, Vermont College of Norwich;
Ed.D., 2003, University of Massachusetts-Amherst.
- Burke, Kevin L. (2005) Professor** Chair, Kinesiology, Leisure and Sport Sciences
B.A., 1982, Belmont Abbey College;
M.A., 1984, East Carolina University;
Ph.D., 1988, Florida State University;
Ed.S., 2002, Georgia Southern University.
- Cahill, William (2004) Instructor** University School
B.S., 1993, East Tennessee State University;
M.Ed., 2002, The Citadel.
- Case, Jennie (2007) Instructor** University School
B.A., 2002 and M.A., 2004, Brigham Young University.
- Chambers, Cynthia (2007) Assistant Professor** ... Human Development and Learning
B.S., 2001, Georgia College and State University;
M.S.Ed., 2002, Peabody College of Vanderbilt University;
Ph.D., 2007, University of Kansas.
- Cockerham, J. Steve (1999) Instructor** Human Development and Learning
B.A., 1975, University of North Carolina;
M.A., 1990, State University of West Georgia.
- Collins, Martha D. (1993) Professor** Curriculum and Instruction
B.S.Ed., 1967, University of Georgia;
M.Ed., 1969 and Ph.D., 1972, Florida State University.
- Cradic, Sharon J. (2002) Instructor** University School
B.S., 1992, Lander College;
M.Ed., 1994, East Tennessee State University;
M.Ed., 1998, Milligan College.
- Daniels, Harold L. (2000) Associate Professor** Curriculum and Instruction
B.A., 1983 and M.A., 1993, Appalachian State University;
Ph.D., 1996, Virginia Polytechnic Institute and State University.
- Davis, T. Jason (2002) Assistant Professor** Kinesiology, Leisure and Sport Sciences
B.S., 1994, Georgia Southern University;
M.S., 1996, Georgia Southern University;
Ph.D., 2003, Clemson University.
- Day, Ariane (2001) Instructor** University School
B.A., 1998, East Tennessee State University.
- Disque, Ann (2001) Instructor** Human Development and Learning
B.A., 1978, St. Andrews Presbyterian College;
M.Ed., 1997, East Tennessee State University.
- Disque, J. Graham (1994) Professor** Human Development and Learning
B.A., 1980, St. Andrews Presbyterian College;
M.A., 1987, Appalachian State University;
Ph.D., 1992, Virginia Polytechnic Institute and State University.
- Dosser, Marcia (2005) Clinical Instructor** Curriculum and Instruction
B.S., 1979 and M.Ed., 1983, East Tennessee State University.
- Dwyer, Edward J. (1976) Professor** Curriculum and Instruction
B.S., 1962, Boston College;
M.Ed., 1974, University of Saskatchewan;
Ph.D., 1977, University of Georgia.
- Ellis, Kevin (2007) Instructor** University School
B.S., 1995, East Tennessee State University;
M.A.Ed., 2000, Western Carolina University.
- Erwin, Timothy A. (1997) Instructor** University School
B.S., 1983, East Tennessee State University;
M.A., 1996, Tusculum College.
- Evanshen, Pamela A. (2001) Associate Professor** Human Development and Learning
B.A., 1982, Tusculum College;
M.Ed., 1984 and Ed.D., 2001, East Tennessee State University.
- Foley, Virginia (2007) Assistant Professor** Educational Leadership and Policy Analysis
B.S., 1976 and M.A., 1978, Tennessee Technological University;
Ed.S., 1988, State University of West Georgia, Carrollton;
Ed.D., 1996, University of Alabama.
- Fox, James J. (1990) Professor** Human Development and Learning
Associate Director, Center for Early Childhood Learning and Development
B.A., 1972, College of William and Mary;
M.A., 1975, University of Richmond;
Ph.D., 1982, University of Tennessee-Knoxville.
ETSU Distinguished Faculty Award, 2004..
- Gann, Rosalind R. (2002) Assistant Professor** Curriculum and Instruction
B.A., 1970, Brooklyn College, City University of New York;
M.S.W., 1974, Smith College;
Ed.D., 2002, University of Cincinnati.
- Gloeckler, Phyllis (2007) Assistant Professor** Human Development and Learning
B.A., 1972, Catholic University of America;
M.A., 1993, Appalachian State University;
Ph.D., 2006, University of North Carolina at Greensboro.
- Glover, Eric S. (2004) Associate Professor** Educational Leadership and Policy Analysis
B.S., 1972, M.A., 1985, and Ed.D., 2003, University of New Mexico.
- Goehring, Deborah (2005) Instructor** University School
B.S., 1973 and M.Ed., 1978, Slippery Rock University.
- Govett, Aimee L. (2003) Associate Professor** Curriculum and Instruction
B.A., 1988, M.A., 1996, and Ph.D., 2001, West Virginia University.
- Hale, Kimberly (2008) Assistant Professor** Human Development and Learning
B.S., 1987, Virginia Polytechnic Institute & State University;
M.S., 1991, Ed.S., 1992, Radford University;
Ph.D., 2005, Virginia Polytechnic Institute & State University.
- Hales, Cynthia (2005) Clinical Instructor** Human Development and Learning
B.S., 1992 and M.Ed., 1996, East Tennessee State University.
- Hamm, Jean S. (2004) Assistant Professor** Curriculum and Instruction
B.S., 1970, and M.S., 1976, Radford University;
Ed.D., 2003 Virginia Polytechnic Institute and State University.
- Horton, Amy B. (2002) Instructor** University School
B.A., 1998, Tusculum College;
M.A., 2001, Union College;
Ed.S., 2003, East Tennessee State University.
National Board Certified Teacher, 2005.

- Hurwitz, Rhona S. (1991) Professor** **Chair, Curriculum and Instruction**
 B.A., 1972, Connecticut College;
 M.Ed., 1973, University of North Dakota;
 Ed.D., 1988, University of Houston.
- Jungkeit, Patricia (1999) Instructor** **University School**
 B.A., 1969, Messiah College;
 M.S., 1997, Xavier University;
 Ed.S., 2003, East Tennessee State University.
 National Board Certified Teacher (2003).
- Kelly, Edward J. (1997) Associate Professor** **Educational Leadership and Policy Analysis**
 B.S., 1973, State University of New York;
 J.D., 1977, State University of New York at Buffalo, School of Law.
- Knight, Terri C. (1988) Media Specialist** **University School**
 B.A., 1973, University of Charleston;
 M.S., 1981, Kansas State University;
 Ed.S., 2002, East Tennessee State University.
 National Board Certified Teacher (2002).
- Knight, W. Hal (1986) Professor** **Educational Leadership and Policy Analysis Dean, College of Education**
 B.A., 1972, Augusta College;
 M.P.A., 1977, West Virginia College of Graduate Studies;
 Ph.D., 1983, Kansas State University.
- Kridler, Jamie Branam (1997) Professor** **Human Development and Learning**
 B.S., 1976 and M.S., 1977, University of Tennessee;
 Ph.D., 1985, The Ohio State University.
- Lamley, James H. (2005) Assistant Professor** **Educational Leadership and Policy Analysis**
 B.S., 1973, Middle Tennessee State University;
 M.S., 1974, University of Tennessee;
 Ed.D., 1999, East Tennessee State University.
- Langenbrunner, Mary (1993) Associate Professor** **Human Development and Learning**
 B.S., 1974 and M.S., 1976, University of Kentucky;
 Ph.D., 1986, University of Tennessee.
- Lehwald, Harry (2006) Assistant Professor** **Kinesiology, Leisure and Sport Sciences**
 B.S., 1972 and M.Ed., 1977, University of Missouri, Columbia;
 Ed.D., 1995, University of Kansas.
- Lewis, Angela Radford (2004) Associate Professor** **Curriculum and Instruction Associate Dean, College of Education**
 B.S., 1984, B.S., 1987, and M.V.T.E., 1996, Middle Tennessee State University;
 Ph.D., 2003, University of Tennessee.
- Lhotsky, Gary J. (2007) Assistant Professor** **Kinesiology, Leisure and Sport Sciences**
 B.A., 1993, Edinboro University of Pennsylvania;
 M.S., 1997, Georgia Southern University;
 Ed.D., 2006, Florida State University.
- MacLeod-Powell, Jill (2005) Instructor** **University School**
 B.A., 1999 and M.S., 2000, University of Tennessee.
- MacRae, Norma (1987) Professor** **Human Development and Learning Vice Provost for Academic Support and Public Service and Dean of Continuing Studies**
 A.B., 1969, M.Ed., 1978 and Ed.D., 1980, University of Kentucky.
- Malkus, Amy J. (2000) Associate Professor** **Human Development and Learning**
 B.A., 1988, Washington College;
 M.S., 1992 and Ph.D., 1995, Purdue University.
- Manahan, Richard A. (1981) Professor** **Accountancy Educational Leadership and Policy Analysis Vice President for University Advancement**
 B.S., 1965, M.S., 1971 and Ed.D., 1975, Illinois State University;
 CPA, Tennessee, Virginia, and Illinois.
- Marks, Lori (1993) Professor** **Human Development and Learning**
 B.A., 1983, Flagler College;
 M.Ed., 1987, University of North Florida;
 Ph.D., 1993, University of Florida.
 ETSU Distinguished Faculty Award, 2000.
- Mitchell, Clifton W. (1992) Professor** **Human Development and Learning**
 B.A., 1974, Virginia Polytechnic Institute;
 M.A., 1976, Western Kentucky University;
 Ph.D., 1992, Indiana State University.
 ETSU Distinguished Faculty Award, 2002.
- Moore, Teah (2006) Assistant Professor** **Human Development and Learning**
 B.A., 1984, Anderson University;
 M.S., 2003, Bradley University;
 Ph.D., Idaho State University.
- Morrow, Brent (1986) Associate Professor** **Human Development and Learning**
 B.A., 1969, University of California;
 M.A., 1977, Mennonite Brethren Seminary;
 Ph.D., 1986, Texas Tech University.
- Mozen, Diana M. (2000) Associate Professor** **Kinesiology, Leisure and Sport Sciences**
 B.S., 1980, M.Ed., 1980 and Ph.D., 1998, Georgia State University.
- Musick, Mark (2006) Chair** **Quillen Chair of Excellence in Teaching and Learning**
 B.A., 1969 and M.S., 1975, Virginia Polytechnic Institute and State University.
- Myron, Mary C. (1997) Instructor** **University School**
 B.A., 1994 and M.Ed., 1996, East Tennessee State University.
 National Board Certified Teacher, 2004.
- Owen, Kathleen (2005) Clinical Instructor** **Human Development and Learning**
 B.S., 1974, Keene State College;
 M.S., 1987, Nazareth College.
- Payne, Linda (2006) Assistant Professor** **Human Development and Learning**
 B.S., 1984, East Texas State University;
 M.S., 2002, Texas A&M University;
 Ph.D., 2006, University of Florida.
- Perry, Leslie A. (1991) Professor** **Curriculum and Instruction**
 B.S.E., 1967, Central Methodist College;
 M.S., 1975, East Texas State University;
 Ph.D., 1979, University of Mississippi.
- Petty, Joshua W. (2003) Instructor** **University School**
 B.S., 1999, M.Ed., 2002, East Tennessee State University.
- Price, Rayne (2007) Instructor** **University School**
 B.S., 1999 and M.A.T., 2003, East Tennessee State University.
- Ralston, Elizabeth (1993) Professor** **Curriculum and Instruction Associate Dean, College of Education Director, Field Services**
 B.A., 1970, Texas A&I University;
 M.Ed., 1973 and Ed.D., 1978-Memphis State University.
- Ramsey, Michael (2005) Assistant Professor** **Kinesiology, Leisure and Sport Sciences**
 B.S., 1993 and M.A., 1995, Sam Houston State University;
 Ph.D., 2005, Texas A&M University.
- Reed, Delanna (1999) Instructor** **Curriculum and Instruction**
 A.A., 1974, Eastfield College;
 B.A., 1976, East Texas State University;
 M.A., 1986, University of North Texas.
- Renner, Jasmine (2003) Assistant Professor** **Educational Leadership and Policy Analysis**
 LL.B. Hons., 1993, University of Sierra Leone, Fourah Bay College;
 LL.M., 1998, University of Georgia School of Law;
 Ed.D., 2002, Bowling Green State University.

Rhoton, Jack (1987) Professor Curriculum and Instruction
Executive Director, Center for Excellence
in Mathematics and Science Education
A.A., 1964, Hiwassee College;
B.S., 1966, East Tennessee State University;
M.Ed., 1969, University of Virginia;
M.S., 1974, Old Dominion University;
Ed.D., 1984, University of Tennessee.
ETSU Distinguished Faculty Award, 1995.

Robertson, Laura (2001) Instructor University School
B.S., 2000 and M.S., 2001, University of Tennessee.

Robertson, Patricia E. (1997) Professor Chair, Human
Development and Learning
B.A., 1973, University of North Carolina-Chapel Hill;
M.A.Ed., 1974, Western Carolina University;
Ed.D., 1990, University of North Carolina-Greensboro.

Scarborough, Janna (2006) Assistant Professor Human
Development and Learning
B.S., 1991, University of Mary;
M.A.Ed., 1994, Western Carolina University;
Ph.D., 2002, University of Virginia.

Scott, Pamela Howell (2006) Assistant Professor Educational
Leadership and Policy Analysis
B.S., 1973, M.A., 1977, Ed.S., 1989, and Ed.D., 1977, Appalachian
State University.

Shaw, Aleeta (2002) Counselor University School
B.A., 1990 and M.Ed., 1991, East Tennessee State University.

Sherlin, Erin (2008) Clinical Instructor Human Development
and Learning
B.S., 1993, University of Tennessee;
M.Ed., 1997, Xavier University.

Snider, J. Blake (2002) Associate Professor Human Development
and Learning
B.A., 1994, Lee University;
M.S., 1999, and Ph.D., 2002, Auburn University.

Sobol, Joseph D. (2000) Professor Curriculum and Instruction
B.A., 1976, Sarah Lawrence College;
M.A., 1987, University of North Carolina;
Ph.D., 1994, Northwestern University.

Soloman, Regina (2006) Instructor University School
B.A., 2000, Mills College.

Squibb, Sharon L. (2000) Instructor University School
B.F.A., 1978, University of Tennessee;
M.F.A., 1983, University of Cincinnati;
M.A., 1988, East Tennessee State University.

Steele, Linda (2004) Assistant Professor ... Curriculum and Instruction
B.S., 983, University of North Alabama;
M.L.S., 1985, Vanderbilt University.

Stone, John E. (1972) Professor Human Development
and Learning
B.Ed., 1966 and M.A.Ed., 1968, University of Kentucky;
Ed.D., 1972, University of Florida.

Stone, Michael H. (2005) Associate Professor Kinesiology, Leisure
and Sport Sciences
B.S., 1970, Florida Technological University;
M.S., 1974, Tennessee Technological University;
Ph.D., 1977, Florida State University.

Watson, Alma (2008) Assistant Professor Human Development
and Learning
A.B., Lenoir Rhyne College;
M.A., Ed.S., Appalachian State University;
Ed.D., Virginia Polytechnic Institute & State University.

Wells, Lee (2007) Instructor University School
B.S., 1987, B.A., 1987, and M.A.Ed., 1994, Virginia Polytechnic
Institute and State University.

Williams, Starlet (1988) Instructor University School
B.S., 1984 and M.Ed., 1990, East Tennessee State University.

SCHOOL OF GRADUATE STUDIES

McIntosh, Cecilia A. (1993) Associate Professor Biological Sciences
Dean, School of Graduate Studies
B.A., 1977, M.A., 1981, and Ph.D., 1990, University of South Florida.

COLLEGE OF MEDICINE

Abdel-Wahab, Ayman M. (2001) Assistant Professor Pediatrics
M.D., 1988, Zagazig University, Zagazig, Egypt.

Acuff, Robert V. (1995) Professor Adjunct Faculty,
Home Economics/Internal Medicine/Biochemistry
Director, Eastman Center for Nutrition Research
B.S., 1974, Louisiana State University;
M.S., 1977 and Ph.D., 1982, University of Tennessee-Knoxville.

Adler, Christine M. (1991) Assistant Professor Psychiatry and
Behavioral Sciences
B.S., 1984, University of Santa Clara;
Ph.D., 1989, State University of New York-Albany.

Agrawal, Alok (2002) Associate Professor Pharmacology
B.S., 1981 and M.S., 1984, Banaras Hindu University, India;
Ph.D., 1989, Visva Bharati University, India

Airhart, Mark J. (1984) Associate Professor Anatomy and
Cell Biology
B.S., 1966, State University of New York- Cortland;
M.S., 1969, University of Connecticut;
Ph.D., 1981, University of Vermont.

Alison, Juduan (1994) Associate Professor Surgery
B.A., 1980, University of Tennessee-Knoxville;
B.S.N., 1984, St. Louis University, St. Louis, Missouri;
M.D., 1989, East Tennessee State University, Quillen College of
Medicine.

Anand, Rajani (1991) Assistant Professor Pediatrics
M.D., 1983, University of Mysore, India.

Aneas, Beth A. (2003) Assistant Professor Family Medicine
B.S., 1978, and M.P.H.A., 1991, University of Tennessee-Knoxville;
M.D., 1998, East Tennessee State University, Quillen College of
Medicine

Ardell, Jeffrey L. (1998) Professor Pharmacology
B.A., 1975, Colorado College;
Ph.D., 1980, University of Washington.

Armstrong, Stephen C. (1991) Assistant Professor Pathology
B.S., 1979, University of Florida;
Ph.D., 1986, University of Pennsylvania School of Medicine.

Assad, Norman (2005) Associate Professor Obstetrics/Gynecology
M.D., 1996, University of Western Ontario.

Auerbach, John S. (1996) Professor Psychiatry and Behavioral
Sciences
B.A., 1980, Brown University;
Ph.D., 1988, State University of New York- Buffalo.

Bagnell, Philip C. (1991) Professor Pediatrics
Adjunct Faculty, Internal Medicine
Dean, College of Medicine
M.D., 1968, Dalhousie University, Nova Scotia.

Bailey, Beth (2003) Assistant Professor Family Medicine
B.S., 1988, University of Michigan, Flint;
M.A., 1995, and Ph.D., 2001, Wayne State University, Detroit,
Michigan.

Baisden, Ronald H. (1978) Professor Anatomy and Cell Biology
B.S., 1968 and Ph.D., 1973, University of Florida.

Baltazar, Ulises (2003) Assistant Professor Surgery
M.D., 1985, La Salle University College of Medicine.

Banks, Jerry B. (2000) Assistant Professor Family Medicine
B.A., 1985, Wake Forest University;
M.A., 1988, Western Carolina University;
M.D., 1992, Eastern Carolina University School of Medicine.

- Bayard, Max (1999) Assistant Professor Family Medicine**
Program Director, Johnson City
 B.A., 1976, Baptist Bible College;
 B.S., 1987-Memphis State University;
 M.D., 1991, East Tennessee State University, Quillen College of
 Medicine.
- Behringer, Bruce A. (1992) Associate Professor Family Medicine**
Adjunct Faculty, Health Education
Executive Director, Office of Rural and Community Health
 B.S., 1972, Pennsylvania State University;
 M.P.H., 1978, University of North Carolina.
- Bennard, Bruce C. (1990) Associate Professor Family Medicine**
 B.A., 1967, University of Massachusetts;
 M.Ed., 1972 and Ph.D., 1989, University of North Carolina, Chapel
 Hill.
- Bharti, Des R. (1990) Associate Professor Pediatrics**
 M.B.B.S., 1972, J.N. Medical College, India.
- Blackwelder, Reid B. (1992) Associate Professor Family Medicine**
Program Director, Kingsport
 B.S., 1980, Haverford College;
 M.D., 1984, Emory University School of Medicine.
- Bochis, Melania (2002) Assistant Professor Internal Medicine**
 M.D., 1999, East Tennessee State University, Quillen College of
 Medicine.
- Bonta, Bedford W. (1993) Associate Professor Pediatrics**
 A.B., 1965, Wesleyan University;
 M.D., 1969, University of Pennsylvania School of Medicine.
- Brahmbhatt, Hetal K. (2002) Assistant Professor Psychiatry/**
Internal Medicine
Associate Program Director, Med-Psych Residency
 M.B.B.S., 1990, N.H.L. Municipal Medical College, India;
 M.D., 1992, Sheth K.M. School.
- Breuel, Kevin F. (1992) Associate Professor Obstetrics/Gynecology**
Adjunct Faculty, Physiology/Biological Science/
Anatomy and Cell Biology
 B.S., 1982, Western Illinois University;
 M.S., 1985, Clemson University;
 Ph.D., 1991, West Virginia University.
- Browder, I. William (1990) Professor Chair, Surgery**
Associate Dean for Clinical Affairs
 B.S., 1967, Tulane University;
 M.D., 1971, Tulane University School of Medicine.
- Brown, Earl J. (1987) Professor Pathology**
 B.S., 1977, McNeese State University;
 M.D., 1981, Louisiana State University School of Medicine.
- Brown, George (1994) Professor Associate Chair, Psychiatry**
and Behavioral Science
 M.D., 1983, University of Rochester School of Medicine.
- Byrd, Ryland P. Jr. (1995) Professor Internal Medicine**
 B.A., 1978, Wake Forest University;
 M.D., 1985, University of Louisville.
- Cabello, Olga A. (2005) Associate Professor Biochemistry and**
Molecular Biology
 B.S., 1985, University Iberoamericana;
 M.S., 1987, Nacional Autonoma;
 Ph.D., 1994, Baylor College of Medicine.
- Cancellaro, Louis A. (1979) Professor Psychiatry and Behavioral**
Sciences/Anatomy and Cell Biology
Adjunct Faculty, Professional Roles/ Mental Health Nursing
Associate Dean, Veterans Affairs
 B.S., 1955, Manhattan College;
 Ph.D., 1960, New York University Graduate School of Arts & Science;
 M.D., 1965, Duke University School of Medicine.
- Castellino, Sharon M. (1998) Associate Professor Pediatrics**
 B.A., 1988, Mount Holyoke College;
 M.D., 1992, Duke University.
- Chamberlin, Marian (1982) Associate Professor Internal Medicine**
 B.S., 1974 and M.D., 1978, Michigan State University.
- Champney, W. Scott (1982) Professor Biochemistry and**
Molecular Biology
Adjunct Faculty, Biological Sciences
 A.B., 1965, University of Rochester;
 Ph.D., 1970, State University of New York- Buffalo.
 ETSU Distinguished Faculty Award, 2000.
- Chastain, David O. (2001) Associate Professor Pediatrics**
 B.A., 1973, University of Mississippi, Oxford;
 M.D., University of Mississippi, Jackson.
- Chi, David S. (1980) Professor Internal Medicine**
Adjunct Faculty, Microbiology/Pathology/Pharmacology
Chief, Division of Biomedical Research
 B.S., 1965, National Chung-Hsing University, China;
 M.A., 1974 and Ph.D., 1977, University of Texas Medical Branch.
- Chua, Balvin H.L. (1994) Professor Biomedical Science**
 B.S., 1969, National Taiwan University,
 M.S., 1971, and Ph.D., 1975, University of Wisconsin.
- Clarity, Gregory E. (1995) Associate Professor Family Medicine**
Medical Director, Bristol
 B.E., 1982, The Cooper Union;
 M.D., 1993, East Tennessee State University, Quillen College of
 Medicine.
- Clark, Terrence P. (2001) Assistant Professor Psychiatry and**
Behavioral Sciences
 B.S., 1968, Saint John's University;
 M.D., 1973, Baylor College of Medicine.
- Cobble, Anita Diane (1998) Associate Professor Surgery**
 B.S., 1989, East Tennessee State University;
 M.D., 1993, East Tennessee State University, Quillen College of
 Medicine.
- Copeland, Rebecca J. (1993) Assistant Professor ... Internal Medicine**
 B.S., 1976 and M.A., 1978, East Tennessee State University;
 M.D., 1982, University of Tennessee College of Medicine.
- Culp, John S. (1986) Associate Professor Family Medicine**
Associate Program Director, Bristol
 B.S., 1976, East Tennessee State University;
 M.D., 1980, University of Alabama School of Medicine.
- D'Aprille, Joann W. (2000) Assistant Professor Family Medicine**
 B.S., 1980, Molloy College;
 M.A., 1986, Stony Brook;
 D.O., 1997, Nova-Southeastern University of the Health Sciences.
- David, Daniel J. (1985) Professor Family Medicine**
Adjunct Faculty, Family/Community Nursing/Psychiatry
 B.S., 1974, Washington and Lee University;
 M.D., 1978, University of Virginia School of Medicine.
- Defoe, Dennis M. (1996) Associate Professor Anatomy and**
Cell Biology
 B.A., 1974, University of Colorado;
 Ph.D., 1981, University of California.
- DeLucia, Anthony J. (1977) Professor Surgery**
Adjunct Faculty, Environmental Health
 B.A., 1970, University of California;
 Ph.D., 1974, University of California, Davis.
 ETSU Foundation Research Award, 1983.
- DeMay, Jessica (2004) Assistant Professor Obstetrics/Gynecology**
 B.S., 1990 and M.D., 1994, University of Illinois.
- DeVoe, William M. (1992) Professor Vice Chair, Pediatrics**
 B.A., 1974, Miami University;
 M.D., 1977, Ohio State University College of Medicine.
- Dessus-Babus, Sophie (2003) Assistant Professor Microbiology**
 B.S., 1993, M.S., 1994, and Ph.D., 1998, University of Bordeaux.
- Drake, Janet (1999) Associate Professor Obstetrics/Gynecology**
 B.S., 1988 and M.D., 1992, University of Florida.
- Duffourc, Michelle M. (1998) Assistant Professor Pharmacology**
 B.S., 1985 and Ph.D., 1993, University of South Alabama.
- Dunn, Julie (1998) Assistant Professor Surgery**
 B.S., 1984, University of California, Davis;
 M.S., 1987, University of Tennessee-Knoxville;
 M.D., 1991, East Tennessee State University, Quillen College of
 Medicine.

- Dyer, Allen R. (1992) Professor** **Psychiatry and Behavioral Sciences**
A.B., 1967, and M.M.Sc., 1970, Brown University;
M.D., 1972, Duke University School of Medicine;
Ph.D., 1980, Duke University.
- Eason, Martin P. (2003) Assistant Professor** **Section of Medical Education**
M.D., 1987, University of Arizona;
J.D., 2002 University of Louisville Brandeis School of Law.
- Eberhart, Anne (2003) Assistant Professor** **Surgery**
B.A., 1985, Converse College;
M.D., 1999, East Tennessee State University, Quillen College of Medicine.
- Ecay, Tom W. (1995) Associate Professor** **Physiology**
B.S., 1980 and Ph.D., 1986, Boston College.
- Ernst-Fonberg, M. Lou (1978) Professor** **Biochemistry and Molecular Biology**
Adjunct Faculty, Biological Sciences
A.B., 1958, Susquehanna University;
M.D., 1962, Temple University School of Medicine;
Ph.D., 1967, Yale University.
- Fahrig, Stephen A. (2000) Associate Professor** **Internal Medicine**
B.S., 1983, University of Notre Dame;
M.D., 1987, Ohio State University.
- Feierabend, Raymond Jr. (1982) Professor** **Family Medicine**
Program Director, Bristol
B.A., 1971, Amherst College;
M.D., 1975, Tulane University School of Medicine.
- Ferguson, Donald A. Jr. (1978) Associate Professor** **Microbiology**
A.B., 1967, Clark University;
Ph.D., 1974, Syracuse University.
- Ferslew, Kenneth E. (1982) Professor** **Pharmacology**
B.S., 1975 and M.S., 1976, University of Florida;
Ph.D., 1982, Louisiana State University School of Medicine.
- Fields-Ossorio, Cheryl (1998) Associate Professor** **Internal Medicine**
B.S., 1979, Northern Kentucky University;
M.D., 1984, University of Louisville.
- Finger, William W. (1997) Associate Professor** **Psychiatry and Behavioral Sciences**
B.A., 1983, University of Virginia;
M.A., 1987 and Ph.D., 1989, University of Missouri-Columbia.
- Florence IV, Joseph A. (2002) Associate Professor** ... **Family Medicine**
B.A., 1974, Duke University;
M.D., 1980, Medical College of Virginia.
- Floresguerra, Carlos A. (1994) Associate Professor** **Surgery**
B.S., 1975, Colegio Americano, Quiito, Ecuador;
M.D., 1982, Universidad Del Salvador Medical School, Buenos Aires, Argentina.
- Floyd, Michael R. (1989) Associate Professor** **Family Medicine**
Adjunct Faculty, Psychiatry
B.S., 1970, University of Georgia;
M.Ed., 1972 and Ed.D., 1982, Auburn University.
- Frizzell, Peter G. (2001) Assistant Professor** **Psychiatry**
B.S., 1977, Milligan College;
M.D., 1991, East Tennessee State University, Quillen College of Medicine.
- Gallemore, Gail H. (1980) Professor** **Pediatrics**
B.A., 1962, Emory University;
M.A.T., 1966, University of North Carolina, Chapel Hill;
M.D., 1977, Duke University School of Medicine.
- Ganote, Charles E. (1989) Professor** **Pathology**
B.S., 1960, University of Cincinnati;
M.D., 1965, Vanderbilt University School of Medicine.
- Gebka, Ann (2004) Assistant Professor** **Obstetrics/Gynecology**
B.S., 1996 and M.D., 2000, University of Miami.
- Ginn, David R. (1982) Associate Professor** **Internal Medicine**
B.A., 1975, University of Minnesota;
M.D., 1979, University of Minnesota Medical School.
- Goulding, Clarence E. Jr. (1990) Associate Professor** **Surgery**
Coordinator, Anesthesiology
M.D., 1954, University of Tennessee College of Medicine.
- Green, John A. (1981) Professor** **Internal Medicine**
B.S., 1971, University of Richmond;
M.D., 1975, Medical College of Virginia.
- Guha, Bhuvana (1996) Assistant Professor** **Internal Medicine**
M.B.B.S., 1989, Taniore Medical College, India.
- Haaser, Richard C. (1998) Assistant Professor** **Psychiatry and Behavioral Sciences**
B.S., 1980, University of Notre Dame;
M.D., 1984, Tufts University School of Medicine.
- Hall, John R. (1996) Professor** **Surgery**
Director of Trauma Service, HVMC
B.S., 1974, Stanford University;
M.D., 1977, University of Arizona College of Medicine.
- Han, Zhihua (2003) Assistant Professor** **Biochemistry and Molecular Biology**
B.S., Peking University, China
M.S., 1997, Peking University, China
Ph.D., 1997, University of California, San Diego.
- Hancock, John C. (1977) Professor** **Pharmacology**
B.S., 1962, University of Missouri-Kansas City;
M.S., 1965 and Ph.D., 1967, University of Texas.
ETSU Distinguished Faculty Award, 2001.
- Hanley, Gregory Alan (2005) Assistant Professor** **Pharmacology**
Director, DLAR
B.S., 1987, State University of New York;
D.V.M., 1993 and Ph.D., 1998, University of Florida.
- Hansen, Dianne (1995) Assistant Professor** **Psychiatry and Behavioral Sciences**
B.A., 1981, University of California, L.A.;
M.D., 1986, University of California, San Diego.
- Hayman, J. Russell (2002) Assistant Professor** **Microbiology**
B.S., 1987, Mississippi College;
Ph.D., 1995, University of Mississippi Medical Center.
- Haynes, Daniel F. (1994) Associate Professor** **Surgery**
Director, Plastic and Reconstructive Surgery
B.A., 1981, University of Dallas;
M.D., 1985, Tulane University, New Orleans.
- Herrell, Howard (2008) Assistant Professor** **Obstetrics/Gynecology**
B.S., 2000, University of Tennessee;
M.D., 2004, East Tennessee State University.
- Holler, Matthew B. (2003) Assistant Professor** **Internal Medicine**
B.S., 1993, University of Memphis;
M.D., 2000, East Tennessee State University, Quillen College of Medicine.
- Holmes, Sheri (2005) Assistant Professor** **Obstetrics/Gynecology**
B.S.N., 1989 and M.D., 2001, East Tennessee State University.
- Holt, James D. (2001) Assistant Professor** **Family Medicine**
Medical Director, Johnson City
A.B., 1978, Princeton University;
M.D., 1982, University of Maryland School of Medicine.
- Hooks, Mary A. (1996) Associate Professor** **Surgery**
Director, Division of Surgical Oncology
B.S., 1980, University of Michigan;
M.D., 1989, University of Pennsylvania.
- Hoover, Donald B. (1978) Professor** **Pharmacology**
B.S., 1972, Grove City College;
Ph.D., 1976, West Virginia University.
ETSU Distinguished Faculty Award for Research, 2002.
- Hoskere, Girendra V. (2003) Assistant Professor** **Internal Medicine**
M.B.B.S., 1993, Kasturba Medical College;
M.D., 1999, East Tennessee State University, Quillen College of Medicine.
- Hossler, Fred E. (1981) Professor** **Anatomy and Cell Biology**
B.S., 1963, Muhlenberg College;
M.S., 1965, Pennsylvania State University;
Ph.D., 1971, University of Colorado.

- Hougland, Margaret W. (1977) Associate Professor Anatomy and Cell Biology**
 B.S., 1961, Brigham Young University;
 Ph.D., 1977, University of South Dakota.
- Hubbs, Doris T. (1991) Associate Professor Internal Medicine**
 B.S., 1973 and M.S., 1975, Massachusetts Institute of Technology;
 M.D., 1988, East Tennessee State University, Quillen College of Medicine.
- Hudgins, Larry (1992) Professor Internal Medicine**
 B.S., 1968, University of Tennessee-Knoxville;
 M.D., 1971, University of Tennessee-Memphis.
- Ismail, Hassam M. (2002) Assistant Professor Internal Medicine**
 M.D., 1988, Damascus University Medical School.
- Johnson, David A. (1978) Professor Biochemistry and Molecular Biology**
Adjunct Faculty, Biological Sciences
 B.S., 1967 and Ph.D., 1973-Memphis State University.
 ETSU Foundation Research Award, 1987.
- Jordan, Richard M. (1987) Professor Internal Medicine**
Chief, Division of Endocrinology
Residency Program Director
 A.B., 1967, DePauw University;
 M.D., 1971, Indiana University School of Medicine.
- Joshi, Piyush N. (1985) Professor Surgery**
Adjunct Faculty, Obstetrics/Gynecology
Director, Division of Urology/Division of Transplant Surgery
 M.D., 1975, Medical College, Baroda, India.
- Joyner, William L. (1989) Professor Chair, Physiology,**
Adjunct Faculty, Internal Medicine
 B.S., 1965, Davidson College;
 M.S.P.H., 1967 and Ph.D., 1971, University of North Carolina, Chapel Hill.
- Kalbfleisch, John H. (1988) Professor Medical Education**
Director, Division of Biometry and Medical Computing
 B.S., 1965 and M.A., 1966, Western Michigan University;
 Ph.D., 1970, University of Oklahoma.
- Kalwinsky, David K. (1990) Professor Chair, Pediatrics**
Adjunct Faculty, Internal Medicine
 B.A., 1969, Temple University;
 M.D., 1973, University of Pennsylvania School of Medicine.
- Kao, Race L. (1992) Professor Surgery**
Adjunct Faculty, Physiology
Chairholder, Carroll H. Long Chair in Surgical Research
 B.S., 1965, National Taiwan University, Taiwan;
 M.S., 1971 and Ph.D., 1972, University of Illinois.
- Kaplon, Michael K. (1992) Professor Internal Medicine**
 B.S., 1977, University of the South;
 M.D., 1981, Vanderbilt University School of Medicine.
- Karnad, Anand B. (1989) Associate Professor Internal Medicine**
Chief, Div. of Hematology/Oncology
 M.D., 1980, University of Madras Medical College, India.
- Katras, Tony (1996) Professor Surgery**
 B.A., 1976, East Tennessee State University;
 D.D., 1979, Harding University;
 M.D., 1984, East Tennessee State University, Quillen College of Medicine.
- Kauzlarich, Michael P. (2002) Assistant Professor Family Medicine**
 B.A., 1991, University of Iowa;
 D.O., 1996, University of Osteopathic Medicine and Health Sciences.
- Kayser, Allen (2001) Associate Professor Psychiatry**
Director, Residency Training
 B.G.S., 1972, University of Nebraska, Omaha;
 M.D., 1979, West Virginia University.
- Kelley, Jim (1996) Professor Internal Medicine**
 B.S., 1969, Southern Nazarene University, Bethany, Oklahoma;
 Ph.D., 1973, University of Oklahoma, Norman.
- Kemp, Evelyn C. (2001) Assistant Professor Family Medicine**
 B.S., 1995, and Psy.D., 1999, Wright State University.
- Khaja, Nizamuddin (1998) Assistant Professor Psychiatry and Behavioral Sciences**
 M.D., 1986, Siddhartha Medical College, Nagarjuna University, India.
- Kimbrough, Barbara O. (1980) Professor Surgery**
Director, Division of Ophthalmology
 B.S., 1972, Iowa State University;
 M.D., 1976, Mayo Medical School.
- Kirsche, David (2003) Assistant Professor Internal Medicine**
 M.D., University of Florida, Gainesville.
- Knight, T. T. (1997) Professor Surgery**
 B.A., 1955, University of Louisville;
 M.D., 1959, University of Louisville, College of Medicine.
- Kostrzewa, Richard M. (1978) Professor Pharmacology**
 B.S., 1965 and M.S., 1967, Philadelphia College of Pharmacy and Science;
 Ph.D., 1971, University of Pennsylvania.
 ETSU Foundation Award, 1981.
- Krishnan, Koyamangalath (1998) Associate Professor Internal Medicine**
 P.U.C., 1974, St. Joseph's College, India;
 M.B.B.S., 1980, University of Madras, India;
 M.D., 1987, Institute of Medical Education, India.
- Krishnaswamy, Guha (1992) Professor Internal Medicine**
Chief, Division of Allergy
Adjunct Faculty, Physiology
 M.B.B.S., 1983, University of Madras Medical College, India.
- Krozser-Hamati, Agnes K. (1991) Associate Professor Internal Medicine**
 B.S., 1979, John Carroll University;
 M.D., 1986, American University of the Caribbean, West Indies.
- Kukulka, Gary (2003) Assistant Professor Family Medicine**
 B.S., 1977, Central Michigan University, Mount Pleasant;
 M.A., 1978, Ball State University, Muncie, Illinois;
 Ph.D., 1981, Southern Illinois University, Carbondale.
- Kumar, P. Lucy (1993) Assistant Professor Pediatrics**
 M.D., 1964, Andhra Medical College, India.
- Kwasigroch, Thomas E. (1979) Professor Anatomy and Cell Biology**
Assistant Dean for Curriculum and Director,
Anatomical Gift Program
 B.S., 1967, Niagara University;
 Ph.D., 1976, University of Virginia.
- Laffan, John J. (1992) Associate Professor Microbiology**
 B.A., 1982, Hamilton College;
 Ph.D., 1988, Wesleyan University.
- Laird, Kimberly J. (1992) Assistant Professor Learning Resources**
 B.A., 1984, Bethel College;
 M.I.L.S., 1987, University of Michigan.
- Lang, Forrest (1984) Professor Family Medicine**
Adjunct Faculty, Adult Nursing
Director, Medical Education
 B.A., 1967, University of Pennsylvania;
 M.D., 1971, Hahnemann University School of Medicine.
- Lee, Prescott P. (2001) Assistant Professor Internal Medicine**
 B.S., 1988, University of California, Los Angeles;
 M.D., 1993, Tufts University School of Medicine.
- Leicht, Stuart (1984) Professor Internal Medicine**
Chief, Division of Dermatology
 B.A., 1974, State University of New York;
 M.D., 1978, Emory University School of Medicine.
- Li, Chuanfu (1996) Associate Professor Surgery**
Adjunct Faculty, Pharmacology
 M.S., 1986 and M.D., 1978, Nanjing Medical University of China.
- Linville, M. David, Jr. (2002) Instructor . Section of Medical Education**
Adjunct Faculty, Anatomy and Cell Biology
 B.S., 1995, University of Tennessee;
 M.D., 2000, East Tennessee State University, Quillen College of Medicine.

- Lockett, Mark (2001) Assistant Professor** Surgery
B.A., 1990, Furman University;
M.D., 1994, Medical University of South Carolina.
- Lowe, Charles E., III (2003) Instructor** Pediatrics
B.S., 1996, University of Kentucky;
M.D., 2000, University of Louisville, School of Medicine.
- Loyd, Stephen D. (2001) Assistant Professor** Internal Medicine
B.S., 1994, University of Tennessee-Knoxville
M.D., 1998, East Tennessee State University, Quillen College of Medicine.
- McGowen, K. Ramsey (1985) Professor** Psychiatry and Behavioral Sciences
B.S., 1975, M.S., 1977 and Ph.D., 1981, Auburn University.
ETSU Distinguished Faculty Award, 2003.
- Mehta, Jayantilal B. (1977) Professor** Internal Medicine
Chief, Division of Preventive Medicine and Epidemiology
M.D., 1969, Government Medical College, India.
- Messerschmidt, William H. (1988) Professor** Surgery
Director, Division of Cardiovascular and Thoracic Surgery
B.S., 1977, The Pennsylvania State University;
M.D., 1979, Jefferson Medical College.
- Miller, Barney (1997) Associate Professor** Psychiatry and Behavioral Sciences
Adjunct, Anatomy and Cell Biology
B.A., 1975, University of Tennessee-Chattanooga;
Ph.D., 1983, University of Tennessee-Memphis.
- Miller, Merry N. (1995) Professor** Chair, Psychiatry and Behavioral Sciences
B.S., 1975, Southwestern-Memphis;
M.S., 1983, University of Tennessee;
M.D., 1983, Duke University.
- Mills, Debra Quarles (2000) Assistant Professor** Pediatrics
B.A., 1988, University of Tennessee;
M.D., 1993, East Tennessee State University, Quillen College of Medicine.
- Miyamoto, Michael D. (1978) Professor** Pharmacology
B.A., 1966 and Ph.D., 1971, Northwestern University.
- Modica, Louis A. (1984) Professor** Surgery
Director, Division of Otolaryngology
B.A., 1974, Columbia College;
M.D., 1980, State University of New York Downstate College of Medicine.
- Mohon, Ricky T. (1992) Assistant Professor** Pediatrics
Adjunct Faculty, Internal Medicine
B.S., 1977, University of Tennessee-Martin;
M.D., 1981, University of Tennessee College of Medicine.
- Monaco, Paul J. (1987) Professor** Anatomy and Cell Biology
B.A., 1974, Merrimack College;
M.S., 1977 and Ph.D., 1982, Marquette University.
- Moore, Jason B. (2002) Assistant Professor** Family Medicine
B.A., 1995, Miami University of Ohio, Oxford;
M.D., 1999, Ohio State University College of Medicine.
- Moorman, Jonathan P. (2000) Associate Professor** Internal Medicine
B.S., 1987, Loyola College;
M.D., 1991, University of Virginia School of Medicine.
- Morgan, Calvin V. (1996) Professor** Surgery
B.S., 1958, Davidson College;
M.D., 1962, Duke University.
- Moser, Michele R. (2002) Assistant Professor** Psychiatry and Behavioral Sciences
B.A., 1983, Augustana College;
M.A., 1995, Jefferson Medical College of Thomas Jefferson University.
- Mullersman, Jerald (2000) Associate Professor** Pathology
M.D., and Ph.D., 1986, University of Florida.
- Musich, Phillip R. (1980) Professor** Biochemistry and Molecular Biology
Adjunct Faculty, Biological Science
B.S., 1968, Creighton University;
Ph.D., 1973, University of Chicago.
- Myers, James W. (1994) Associate Professor** Internal Medicine
B.S., 1981, East Tennessee State University;
M.D., 1985, Wake Forest University.
- Newell, Christine L. (2006) Instructor** Psychiatry and Behavioral Science
B.A., 1982, East Tennessee State University;
Ph.D., 1994, University of Texas System, Graduate School of Biomedical Sciences;
M.Ed., 1999, East Tennessee State University.
- Nunley-Gorman, Diana L. (1987) Associate Professor** Internal Medicine
B.A., 1979, Carson-Newman College;
M.D., 1983, East Tennessee State University, Quillen College of Medicine.
- Nwosu, Uchenna C. (2003) Professor** Obstetrics/Gynecology
A.B., 1964, Harvard University;
M.D., 1968, Boston University School of Medicine.
- Olive, Kenneth (1989) Professor** Vice Chair, Internal Medicine
Associate Chair for Clinical Affairs
B.S., 1977, Duke University;
M.D., 1982, East Carolina University School of Medicine.
- Olsen, Martin E. (1992) Professor** Chair, Obstetrics/Gynecology
Adjunct Faculty, Pediatrics
B.S., 1981, Muskingum College;
M.D., 1985, Medical School of Ohio.
- Ordway, Gregory A. (2005) Professor** Chair, Pharmacology
B.S., 1980, Ohio State University;
Ph.D., 1985, Ohio State University, College of Pharmacy.
- Ossorio, Miquel A. (1996) Associate Professor** Internal Medicine
M.D., 1979, University Centro Occidental, Venezuela.
- Pandian, Shantha (2001) Assistant Professor** Psychiatry and Behavioral Sciences
M.D., 1994, Kasturba Medical College, India.
- Panini, Aruna S. (1996) Assistant Professor** Family Medicine
B.S., 1974, University of Bagalore, India;
M.S., 1976, University of Madras, India;
M.S., 1979, University of Cincinnati;
M.D., 1992, University of Colorado.
- Panini, Sankhavaram, R. (1996) Associate Professor** Biochemistry and Molecular Biology
B.S., 1968, Andhra University, Waltair, India;
M.S., 1970, University of Baroda, India; D.I.I.Sc., 1971;
Ph.D., 1975, Indian Institute of Science, Bangalore, India.
- Peiris, Alan N. (1993) Professor** Internal Medicine
M.B.B.S., 1977 and M.D., 1990, University of London.
- Pennington, Glenn (2000) Professor** Surgery
B.A., 1962, University of Mississippi, Jackson;
M.D., 1966, University of Mississippi, Oxford.
- Pillinger, Lynn (1981) Professor** Internal Medicine
B.S., 1972, Duke University;
M.D., 1977, Medical University of South Carolina.
- Pollitte, Jonathan (2001) Assistant Professor** Internal Medicine
B.S., 1990, Kentucky Wesleyan College;
M.D., 1999, East Tennessee State University, Quillen College of Medicine.
- Ponnappa, Biddanda (Suresh) P. (1999) Professor** Assistant Dean, Learning Resources, Director of Library and Biomedical Communications
B.Sc., 1970, University of Agricultural Sciences, Bangalore, India;
M.S.L.S., 1984, University of Tennessee-Knoxville.
- Pop, Anca (2000) Clinical Associate Professor** Internal Medicine
B.S., 1985, St. Save College, Bucharest, Romania;
M.S., 1991, Medical and Pharmaceutical University, Bucharest, Romania.

- Powers, Ruby R. (2001) Assistant Professor Pediatrics**
 B.S., 1991, Oklahoma City University;
 M.D., 1997, University of Oklahoma College of Medicine.
- Price, David T. (1997) Assistant Professor Residency Program Director, Pediatrics**
 B.S., 1978 and M.D., 1982, University of South Carolina.
- Procter, Carol (2003) Assistant Professor Internal Medicine**
 M.D., East Tennessee State University, Quillen College of Medicine
- Punyasavatsut, Natavut (2003) Assistant Professor Pediatrics**
 M.D., 1994, Chulalongkorn University.
- Ramu, Vijay (1999) Clinical Assistant Professor Internal Medicine**
 B.S., 1994, Bangalore Medical College, Bangalore, India;
 M.D., 1999, East Tennessee State University, Quillen College of Medicine.
- Rary, Jack M. (1988) Professor Pediatrics**
Adjunct Faculty, Obstetrics/Gynecology
 B.S., 1962, Western Carolina University;
 M.S., 1964 and Ph.D., 1968, University of Tennessee-Knoxville.
- Rice, Peter J. (1986) Associate Professor Pharmacology**
 B.S., 1976, Northeastern University;
 Ph.D., 1983, Ohio State University College of Pharmacy.
- Robinson, Mitchell E. (1985) Professor Biochemistry and Molecular Biology**
Assistant Dean for Graduate Studies
Adjunct Faculty, Biological Sciences
 B.S., 1976, University of North Carolina, Chapel Hill;
 M.S., 1978, Western Carolina University;
 Ph.D., 1983, Wake Forest University, Bowman Gray School of Medicine.
- Rose, Douglas J. (2002) Assistant Professor Family Medicine**
Medical Director, Kingsport
 B.S., 1990, Saint Francis University
 M.D., 1995, Jefferson Medical College of Thomas Jefferson University.
- Rowe, Brian P. (1981) Professor Physiology**
 B.Sc., 1974 and Ph.D., 1977, University of Southampton, England.
- Roy, Thomas M. (1994) Professor Internal Medicine**
Chief, Division of Pulmonary Diseases
Associate Chair for Faculty/ Resident Development and Research
 B.A., 1969, University of Louisville;
 M.D., 1973, University of Louisville School of Medicine.
- Rush, Daniel S. (1997) Professor Surgery**
Director, Division of Vascular Surgery
 B.A., 1971, Centre College;
 M.D., 1976, University of Kentucky College of Medicine.
- Rusinol, Antonio E. (1996) Assistant Professor Biochemistry and Molecular Biology**
 B.Sc., 1983 and Ph.D., 1990, National University of Tucuman, Tucuman, Argentina.
- Sarkodie, Olga (2008) Assistant Professor Obstetrics/Gynecology**
 M.D., 1990, Minsk State Medical Institute.
- Sarubbi, Felix A. (1987) Professor Internal Medicine**
Chief, Division of Infectious Diseases
Assistant Dean/Director of Medical Education-VAMC
 B.S., 1965, Manhattan College;
 M.D., 1969, New York University School of Medicine.
- Schacht, Thomas E. (1985) Professor Psychiatry and Behavioral Sciences**
 B.A., 1973, Connecticut College;
 Psy. D., 1980, Rutgers University.
- Schambra, Uta B. (1993) Assistant Professor Anatomy and Cell Biology**
 B.S., 1960, Apothekerkammer, Kassel, Germany;
 M.S., 1965, Niedersachsischer Sozialminister, Hanover, Germany;
 Ph.D., 1988, University of North Carolina, Chapel Hill.
- Schetzina, Karen E. (2003) Assistant Professor Pediatrics**
 B.A., 1993, University of North Carolina, Chapel Hill;
 M.D., 1997, University of North Carolina School of Medicine, Chapel Hill;
 M.P.H., 1998, University of North Carolina School of Public Health, Chapel Hill.
- Schoborg, Robert V. (1994) Associate Professor Microbiology**
 B.S., 1985, Oklahoma State University;
 Ph.D., 1991, University of Missouri, Columbia.
- Schweitzer, Janice B. (2000) Assistant Professor Family Medicine**
 B.A., 1978 and M.D., 1979, University of Missouri, Kansas City.
- Schweitzer, John B. (1999) Professor Chair, Pathology**
 B.S., 1974, Washington University;
 M.D., 1978, Washington University School of Medicine.
- Selman, Bruce (2005) Assistant Professor Obstetrics/Gynecology**
 B.S., 1969, Cornell University;
 M.S., 1972 and Ph.D., 1973, University of Rochester;
 M.D., 1995, University of Wisconsin.
- Shah, Pramod A. (1985) Professor Psychiatry and Behavioral Sciences**
 M.B.B.S., 1971, University of Bombay, India.
- Shaikh, Mohammed A. (2003) Assistant Professor .. Internal Medicine**
 M.B.B.S., 1994, B.J. Medical College;
 M.D., 2002, East Tennessee State University, Quillen College of Medicine.
- Shepard, F. Mike (1977) Professor Emeritus Pediatrics**
 B.S., 1956, Vanderbilt University;
 M.D., 1959, Vanderbilt University School of Medicine.
- Shurbaji, Muhammad S. (1990) Associate Professor Pathology**
 B.S., 1979, M.S., 1981 and M.D., 1984,
 American University of Beirut, Lebanon.
- Singh, Krishna (2002) Associate Professor Physiology**
 B.S., 1980, Maharishi Dayanand University, Rohtak, India;
 M.S., 1983, and Ph.D., 1987, Haryana Agril University, Hisar, India.
- Singh, Mahipal (2002) Associate Professor Physiology**
 B.S., 1977, Kurukshetra University, India;
 Ph.D., 1993, McGill University, Montreal, Canada.
- Skalko, Richard G. (1977) Professor Chair, Anatomy and Cell Biology**
Assistant Dean, College of Medicine Graduate Studies
 A.B., 1957, Providence College;
 M.S., 1959, St. John's University;
 Ph.D., 1963, University of Florida.
- Sloan, Patrick (1979) Professor Psychiatry and Behavioral Sciences**
 B.A., 1969, Fairmont State College;
 M.S., 1976 and Ph.D., 1978, Ohio University.
- Sloan, Susan P. (2002) Assistant Professor Internal Medicine**
Associate Residency Program Director
 B.S., 1972, Middle Tennessee State University;
 M.D., 1998, University of Minnesota School of Medicine.
- Smith, Stephen J. (2002) Assistant Professor Internal Medicine**
 B.S., 1982, Louisiana State University;
 M.D., 1986, Louisiana State University Medical College.
- Smith, Steven M. (1998) Assistant Professor Internal Medicine**
 B.S., 1980, East Tennessee State University;
 M.D., 1985, East Tennessee State University, Quillen College of Medicine.
- Stanton, Paul E. Jr. (1985) Professor Surgery**
University President
Adjunct Faculty, Adult Nursing
 B.A., 1965, Emory University;
 M.D., 1969, Medical College of Georgia.
- Stephens, Gretel C. (1998) Assistant Professor Forensic Pathology**
 M.D., 1974, University of Tennessee-Memphis.
- Stephens, Mary M. (2003) Assistant Professor Family Medicine**
 A.B., 1990, Duke University;
 M.D., 1994, Jefferson Medical College, Philadelphia, Pennsylvania.

- Stern, Patrick (1999) Professor** Pediatrics
Adjunct Faculty, Psychiatry
B.S., 1970, University of Notre Dame;
M.D., 1974, Case Western Reserve University.
- Stone, William L. (1989) Professor** Pediatrics
Adjunct Faculty, Anatomy and Cell Biology/
Physiology/Biochemistry
B.S., 1966, State University of New York-Stony Brook;
M.S., 1968, Marshall University;
Ph.D., 1972, State University of New York-Stony Brook.
- Stuart, Charles A. (2000) Professor** Chair, Internal Medicine
B.S., 1967 and M.D., 1971, State University of New York.
- Summers, Jeffrey A. (2000) Associate Professor** Internal Medicine
B.S., 1979, Hobart College;
M.D., 1982, Ohio State University College of Medicine.
- Tarugu, Vikram (2003) Assistant Professor** Internal Medicine
M.B.B.S., 1995, University of Mysore, India;
M.D., 2003, New York Medical College.
- Testerman, George (1999) Associate Professor** Surgery
B.S., 1975, Vanderbilt University;
M.D., 1978, University of Tennessee.
- Thewke, Douglas P. (1996) Assistant Professor** Biochemistry and
Molecular Biology
M.Sc., 1990, Central University of Pondicherry;
M.Phil., 1992 and Ph.D., 1995, Central University of Hyderabad.
- Townsend, Thomas (1991) Associate Professor** Family Medicine
B.S., 1969, Hendrix College;
M.D., 1973, University of Arkansas School of Medicine.
- Trent, Stephen (2002) Assistant Professor** Microbiology
B.A., 1994, University of Virginia;
Ph.D., 1998, East Tennessee State University, Quillen College of
Medicine.
- Tudiver, Fraser G. (2001) Professor** Family Medicine
Director of Primary Care Research
B.S., 1968, McGill University;
B.Med.Sc., 1971, and M.D., 1973, Memorial University of
Newfoundland.
- Turner, Barbara B. (1982) Professor** Physiology
Adjunct Faculty, Psychiatry
B.A., 1967 and M.A., 1970, Immaculate Heart College;
Ph.D., 1974, University of California, Los Angeles.
- Turner, Kevin L. (2003) Assistant Professor** Family Medicine
B.S., 1996, Maryville College, Maryville, Tennessee;
M.D., 2000, East Tennessee State University, Quillen College of
Medicine.
- Votaw, May L. (1978) Professor Emerita** Internal Medicine
A.B., 1952, Hope College;
M.D., 1956, University of Michigan Medical School.
- Walker, Elaine (1991) Clinical Assistant Professor** .. Internal Medicine
B.S., 1979 North Dakota State University;
Ph.D., 1988, University of North Carolina, Chapel Hill.
- Wallace, Richard L. (2000) Assistant Professor** Learning
Resources Coordinator,
Interlibrary Services and Outreach Services
B.Ed., 1980, Graham Bible College;
M.A., 1982, Columbia Biblical Seminary;
M.Div., 1990, Mid-America Baptist Theological Seminary;
M.S.L.S., 1994, University of Tennessee;
M.A., 1998, Tusculum College.
- Wallen, Ellen B. (1999) Assistant Professor** Forensic Pathology
M.D., 1989, East Tennessee State University, Quillen College of
Medicine.
- Walters, David N. (1989) Professor** Surgery
B.S., 1973, University of Wyoming;
M.D., 1977, Medical College of Georgia.
- Wattad, Ahmad A. (1990) Professor** Pediatrics
M.D., 1977, Padova University, Italy.
- Watkins, Donna J. (1995) Assistant Professor** Assistant Director,
Learning Resources
B.S., 1982, University of Wisconsin;
M.Lib., 1989, University of Washington.
- Whaley, Martha Garland (2000) Assistant Professor** Learning
Resources Coordinator,
Technical Services and History of Medicine
B.S., 1973 and M.L.S., 1973, Emory University.
- Whitaker, Jack H. (1995) Assistant Professor** Internal Medicine
B.S., 1975 and M.S., 1982, East Tennessee State University;
M.D., 1989, East Tennessee State University, Quillen College of
Medicine.
- Williams, Carole A. (1980) Professor** Physiology
A.B., 1969, Albertus Magnus College;
Ph.D., 1977, St. Louis University.
- Williams, David L. (1991) Professor** Surgery
Adjunct Faculty, Pharmacology
B.S., 1974, Kentucky Wesleyan College;
Ph.D., 1985, Tulane University.
ETSU Distinguished Faculty Award, 1997.
- Williams, Marcus G. (1989) Professor** Surgery
B.S., 1974, Harvard University;
M.D., 1979, Howard University College of Medicine.
- Wongergem, Robert (1978) Professor** Physiology
B.S., 1972, Calvin College;
Ph.D., 1977, The Medical College of Wisconsin.
- Woodside, Jack R. Jr. (1992) Associate Professor** Family Medicine
Associate Program Director
B.A., 1973, University of Virginia;
M.D., 1977, Jefferson Medical College.
- Wooten, Daniel J. (1995) Professor** Surgery
B.S., Lafayette College, Pennsylvania;
M.D., 1965, Meharry Medical College.
- Wu, Tiejian (2002) Assistant Professor** Family Medicine
M.D., 1983, and M.S., 1986, Shandong Medical University, China;
Ph.D., 1999, State University of New York- Buffalo.
- Wyrick, Priscilla B. (2000) Professor** Chair, Microbiology
B.S., 1963, M.S., 1967 and Ph.D., 1971, University of North Carolina.
- Yin, Deling (2003) Assistant Professor** Internal Medicine
M.D., 1987, Taishan Medical University, China;
Ph.D., 1995, Shanghai Medical University, China.
- York, Jackie R. (2002) Assistant Professor** Pediatrics
B.S., 1992, East Tennessee State University;
M.D., 1996, East Tennessee State University, Quillen College of
Medicine.
- Young, Mark F. (1992) Professor** Internal Medicine
B.S., 1981, East Tennessee State University;
M.D., 1985, East Tennessee State University, Quillen College of
Medicine.
- Youngberg, George A. (1980) Professor** Pathology
Adjunct Faculty, Internal Medicine
B.A., 1973, Lake Forest College;
M.D., 1977, Northwestern University Medical School.
- Zakaria, Wael N. (1994) Assistant Professor** Internal Medicine
M.D., 1983, University of Jordan School of Medicine, Jordan.
- Zou, Yue (2001) Professor** Biochemistry and Molecular Biology
B.S., 1982, Chengdu University of Science and Technology, China;
M.S., 1985, Dalian Institute of Chemical Physics, Chinese Academy of
Sciences;
Ph.D., 1991, Clark University, Worcester, Massachusetts.

COLLEGE OF NURSING

- Alley, Nancy M. (1972) Professor** Family/Community Nursing
Executive Associate Dean
B.S.N., 1968, Medical College of Virginia;
M.S., 1972, Virginia Commonwealth University;
Ph.D., 1987, University of Tennessee-Knoxville.

- Anderson, Judith R. (2005) Associate Professor ... Chair, Professional Roles/Mental Health Nursing**
 B.S.N., 1971 and M.Ed., 1967, University of Virginia;
 M.S.N., 1972, University of Texas at Arlington;
 Ph.D., 1988, University of Pennsylvania;
 APRN Certificate, 1997, Boston College.
- Baharestani, Mona M. (2007) Associate Professor Professional Roles/Mental Health Nursing**
 B.S.N., 1984, East Tennessee State University;
 M.S.N., 1986, Hunter College;
 Ph.D., 1993, Adelphi University.
- Barnett, Sherri L. (2008) Instructor Adult Nursing**
 B.S.N., 1997 and M.S.N., 2006, East Tennessee State University.
- Blowers, Sally S. (1995) Associate Professor Adult Nursing**
 B.S.N., 1966, Columbia University;
 M.S., 1969, University of Rochester;
 Ph.D., 1996, University of Tennessee-Knoxville.
- Bringhurst, Martha H. (2007) Assistant Professor Adult Nursing**
 B.S.N., 1974, Medical College of Georgia;
 M.N., 1986, Louisiana State University.
- Brodrick, Rhonda L. (2001) Assistant Professor Adult Nursing**
 B.S.N., 1986, East Tennessee State University;
 M.S.N., 1990, Vanderbilt University.
- Calhoun, Sandra K. (2004) Assistant Professor Professional Roles/Mental Health Nursing**
 A.D.N., 1979, Mountain Empire Community College;
 B.S.N., 2002, and M.S.N., 2003, East Tennessee State University.
 M.S., 1980, University of Houston.
- Churchill, Sandra D. (2008) Instructor Family/Community Nursing**
 B.S.N., 1991 and M.S.N., 2000, East Tennessee State University.
- Crowe, Gayle (2007) Instructor Family/Community Nursing**
 B.S.N., 1986 and M.S.N., 1991, California State University.
- Davenport, Lisa A. (2007) Instructor Professional Roles/Mental Health Nursing**
 B.S.N., 1990 and M.S.N., 2007, University of Tennessee.
- Drummond, Ellen W. (1994) Assistant Professor Adult Nursing**
 B.S.N., 1975, Jacksonville State University;
 M.S.N., 1986, Whitworth College.
- Dunham-Taylor, Janne (1998) Professor Professional Roles/Mental Health Nursing**
 B.S., 1968, Michigan State University;
 M.S., 1975 and Ph.D., 1982, University of Michigan.
- Edwards, Joellen B. (1989) Professor Family/Community Nursing**
 B.S.N., 1979, Ohio University;
 M.S.N., 1982, West Virginia University;
 Ph.D., 1988, Ohio University.
- Freeman, Charlene H. (2007) Assistant Professor Family/Community Nursing**
 B.S.N., 1976 and M.S.N., 2006, East Tennessee State University.
- Garrett, Linda H. (2002) Assistant Professor Family/Community Nursing**
 B.S., 1986, M.S.N., 1999, and Ph.D., 2005, East Tennessee State University.
- Ghaffari, Masoud (2002) Associate Professor Adult Nursing**
 B.Sc., 1978, Institute of Paramedical Sciences;
 M.Ed., 1996, Cleveland State University;
 M.S.N./B.S.N., 1999, University of Akron;
 Ph.D., 2001, Cleveland State University.
- Glenn, Loyd Lee (1992) Professor Professional Roles/Mental Health Nursing**
 B.A., 1974, University of California;
 Ph.D., 1979, Stanford University.
- Goins, Larry W. (2008) Assistant Professor Professional Roles/Mental Health Nursing**
 B.S.N., 1990, Tennessee Technological University;
 M.S.N., 1994, Andrews University;
 Ed.D., 2007, Argosy University – Atlanta.
- Granberry, Nancy C. (2005) Assistant Professor Professional Roles/Mental Health Nursing**
 B.S., 1981, University of South Alabama;
 M.S., 1986, Florida International University;
 M.S.N., 1991, Troy State University;
 N.D., 2004, Rush University.
- Greenwell, Audry M. (2004), Assistant Professor Family/Community Nursing**
 B.S.N., 1981, Spalding University;
 M.S.N., 2003, University of North Carolina—Charlotte.
- Grover, Susan M. (1979) Professor Chair, Family/Community Nursing**
 B.S.N., 1969, Alfred University;
 M.S.N., 1979, University of Rochester;
 Ph.D., 1993, University of Tennessee-Knoxville.
- Hayes, Patricia A. (1999) Associate Professor Professional Roles/Mental Health Nursing**
 B.S.N., 1981, Grand View College;
 M.S., 1985, University of Minnesota;
 Ph.D., 1997, Georgia State University.
- Hossler, Susan M. (2001) Assistant Professor Family/Community Nursing**
 B.S.N., 1989, East Tennessee State University;
 M.S.N., 1997, University of Tennessee—Knoxville.
- Hunter, Rebecca D. (2004) Assistant Professor Family/Community Nursing**
 B.S.N., 1976, and M.S.N., 1985, University of Tennessee—Memphis.
- Jackson, Frances A. (2000) Associate Professor Professional Roles/Mental Health Nursing**
 B.A., 1972, Vanderbilt University;
 B.S.N., 1990, East Tennessee State University;
 M.S.N., 2000, University of Virginia.
- Kaplan, Amy I. (2004) Assistant Professor Professional Roles/Mental Health Nursing**
 B.A., 1964 and M.A., 1966, New York University;
 B.S.N., 1991, Wilmington College;
 M.S.N., 1994, East Tennessee State University.
- Lauzon, Catherine M. (2007) Instructor Adult Nursing**
 B.S.N., 1996 and M.S.N., 1998, Florida International University.
- Loury, Sharon D. (2008) Assistant Professor Family/Community Nursing**
 B.S.N. and M.S.N., 1994, California State University – Los Angeles;
 Ph.D., 2003, University of Virginia.
- Magee, Debra (2008) Instructor Adult Nursing**
 B.S.N., 2002, Virginia Commonwealth University;
 M.S.N., 2006, Mountain State University.
- Marrs, Jo-Ann S. (2002) Professor Professional Roles/Mental Health Nursing**
 B.S., 1972, M.S., 1977, M.S.N., 1987, and Ed.D., 1985, University of Tennessee-Knoxville.
- Martin, Kathy L. (2007) Associate Professor Chair, Adult Nursing**
 B.S.N., 1976, University of Central Arkansas;
 M.S.N., 1977, University of Alabama, Birmingham;
 Ph.D., 1995, Vanderbilt University.
- McConnell, Peggy R. (1974) Associate Professor Adult Nursing**
 B.S.N., 1970, East Tennessee State University;
 M.S.N., 1971, Emory University.
- McCook, Judy G. (1997) Associate Professor Family/Community Nursing**
 B.S.N., 1976, Medical College of Georgia;
 M.S.N., 1979, University of Alabama, Birmingham.
 Ph.D., 2002, University of Michigan-Ann Arbor.
- McNeer, Gina S. (2005) Assistant Professor Adult Nursing**
 B.S.N., 1999 and M.S.N., 2002, East Tennessee State University.
- Merriman, Carolyn S. (1985) Associate Professor Family/Community Nursing**
 B.S.N., 1979, University of Evansville;
 M.S.N., 1983, Texas Woman's University.

- Moore, Patricia A. (2004) Assistant Professor** Adult Nursing
B.S.N., 1997, East Tennessee State University;
M.S.N., 2001, University of Tennessee—Knoxville.
- Nehring, Wendy M. (2009) Professor** Dean, College of Nursing
Family/Community Nursing
B.S.N., 1979, Illinois Wesleyan University School of Nursing;
M.S., 1983, University of Wisconsin – Madison;
Ph.D., 1989, University of Illinois at Chicago.
- Pearson, Tamera L. (2004) Assistant Professor** Adult Nursing
B.S.N., 1985, Southern College;
M.S.N., 1990, Vanderbilt University;
Ph.D., 1997, University of Southern Carolina.
- Rayman, Kathleen M. (1999) Associate Professor** Professional
Roles/Mental Health Nursing
B.S.N., 1978, University of Pittsburgh;
M.S.N., 1987 and Ph.D., 1994, University of Virginia.
- Rice, Judith A. (1997) Assistant Professor** Family/
Community Nursing
B.S., 1988, B.S.N., 1994 and M.S.N., 1996, East Tennessee State
University.
- Sell, Kimberly A. (2005) Assistant Professor** Adult Nursing
B.S.N., 1989, Auburn University;
M.S.N., 1999, University of Phoenix.
- Schreiner, Terri E. (2001) Assistant Professor** Professional Roles,
Mental Health Nursing
B.S.N., 1984, East Tennessee State University;
M.S.N., 2000, University of North Carolina, Charlotte.
- Stewart-Glen, Jennifer D. (2004) Assistant Professor** Family/
Community Nursing
B.S.N., 1977, Radford University;
M.S.N., 2000, George Washington University.
- Swango-Wilson, Amy L. (2008) Associate Professor** Family/
Community Nursing
B.S.N., 1978, Berea College;
M.S.N., 1983, University of Kentucky;
Ph.D., 2007, Walden University.
- Trumbley, Sharon G. (1993) Assistant Professor** Family/
Community Nursing
B.S.N., 1971, Columbia University;
M.S.N., 1977, Boston College.
- Ume-Nwagbo, Pearl N. (1997) Assistant Professor** Family/
Community Nursing
B.S.N., 1981, A&T State University;
M.S.N., 1994 and Ph.D., 2008, East Tennessee State University.
- Vanhook, Patricia M. (2007) Assistant Professor** Professional
Roles/Mental Health Nursing
B.S.N., 1991, M.S.N., 1994, and Ph.D., 2007, East Tennessee State
University.
- Vertein, Daren W. (2007) Instructor** Adult Nursing
B.S.N., 1995, University of Wisconsin, Madison;
M.S.N., 2006, Concordia University.
- Wachs, Joy E. (1993) Professor** Family/Community Nursing
B.S.N., 1976 and M.S., 1980, University of Wisconsin;
Ph.D., 1986, University of Illinois-Chicago.
ETSU Distinguished Faculty Award, 2000.
- Walls, Jennie L. (1993) Associate Professor** Family/
Community Nursing
B.S.N., 1972, East Tennessee State University;
M.S.N., 1976, University of Tennessee-Memphis.
- Wexler, Teresa M. (2005) Instructor** Adult Nursing
B.S.N., 2004, East Tennessee State University;
M.S.N., 2006, University of Phoenix.
- Calhoun, Larry D. (2005) Professor** Pharmacy Practice
Dean, College of Pharmacy
B.S., 1972 and Pharm.D., 1973, University of Tennessee – Memphis.
- Collins, Charles C. (2006) Professor** Pharmaceutical Sciences
Associate Dean, Academic Affairs, College of Pharmacy
B.S., 1977 and Ph.D., 1984, West Virginia University.
- Creekmore, Jr., Freddy M. (2007) Associate Professor** Vice Chair,
Pharmacy Practice
B.S., 1989 and Pharm.D., 1990, University of Kentucky, College of
Pharmacy.
- Creekmore, Kathryn A. (2007) Assistant Professor** Pharmacy
Practice
B.S., 1989 and Pharm.D., 1990, University of Minnesota, College of
Pharmacy.
- Dumond, Julie B. (2007) Assistant Professor** Pharmacy
Practice
B.S., 2000, Michigan State University;
Pharm.D., 2004, University of Michigan.
- Garcia, Loni T. (2006) Associate Dean** Student Affairs,
College of Pharmacy
B.S., 1978 and M.S., 1984, University of North Carolina at Chapel
Hill.
- Hariforoosh, Saeidreza (2007) Assistant Professor** ... Pharmaceutical
Sciences
Pharm.D., 1991, Tehran University;
Ph.D., 2005, University of Alberta.
- Henry, Robin M. (2007) Director** Experiential Education
M.B.A., 1997, East Tennessee State University;
Pharm.D., 1991, Mercer University Southern School of Pharmacy.
- Hess, Jr., Richard A. (2007) Assistant Professor** Pharmacy
Practice
B.S., 1992, University of South Florida;
Pharm.D., 1998, Mercer University Southern School of Pharmacy.
- Hurley, David L. (2007) Associate Professor** Vice Chair,
Pharmaceutical Sciences
B.S., 1979, Guilford College;
M.S., 1982 and Ph.D., 1986, Pennsylvania State University.
- Lugo, Ralph A. (2006) Professor** Chair, Pharmacy Practice
B.S., 1988, Rutgers University;
Pharm.D., 1991, University of North Carolina at Chapel Hill.
- Odle, Brian L. (2007) Assistant Professor** Pharmacy Practice
B.S., 1990, Middle Tennessee State University;
Pharm.D., 1994, University of Tennessee – Memphis.
- Panus, Peter C. (2007) Associate Professor** Pharmaceutical
Sciences
B.A., 1979, Huntingdon College;
B.S., 1981, B.S., 1994. and Ph.D., 1985, University of South
Alabama.
- Ramsauer, Victoria Palau (2007) Assistant
Professor** Pharmaceutical Sciences
B.A., 1979, Pontificia Universidad Javeriana;
Ph.D., 1999, Florida International University.
- Roane, David S. (2006) Professor** Chair, Pharmaceutical Sciences
B.A., 1979, Drake University;
B.S., 1984, Louisiana Tech University;
Ph.D., 1987, Louisiana State University Medical Center.
- Stewart, David W. (2007) Assistant Professor** Pharmacy Practice
Pharm.D., 2003, Campbell University School of Pharmacy.

COLLEGE OF PUBLIC HEALTH

- Aldrich, Timothy (2005) Associate Professor** Biostatistics/
Epidemiology
B.S., 1972 and M.P.H., 1979, University of Alabama, Birmingham;
Ph.D., 1985, University of Texas.
- Anderson, James L. (2002) Assistant Professor** Interim Chair,
Biostatistics/Epidemiology
B.S., 1974, Walla Walla College;
M.D., 1977, and M.P.H., 1989, Loma Linda University;
Ph.D., 2002, University of Texas.

- Baylor, Tim (2007) Instructor Assistant Dean for Public Health Practice, Health Services Administration**
 B.S., 1968, Virginia Polytechnic Institute;
 M.S., 1989, University of Houston-Clear Lake.
- Bishop, Wilsie S. (1978) Professor Health Services Administration Vice President for Health Affairs and University Chief Operating Officer**
 B.S.N., 1970, Medical College of Virginia;
 M.S.Ed., 1976, University of Southern California;
 M.S.N., 1978, Virginia Commonwealth University;
 D.P.A., 1989, University of Southern California.
- Bounds, Toni H. (2008) Assistant Professor Biostatistics/Epidemiology**
 B.A., 1975 and M.P.H., 1983, University of Tennessee, Knoxville;
 Ph.D., 1992, University of South Carolina.
- Bowers, Julie L. (1993) Assistant Professor Health Sciences**
 B.S., 1984, East Tennessee State University;
 M.S., 1987, University of Tennessee-Knoxville.
- Burrow, Troy E. (2000) Instructor Environmental Health**
 B.S.E.H., 1965, Henderson State University;
 M.S.E.H., 1974, East Tennessee State University.
- Chakraborty, Ranjan N. (2001) Associate Professor Health Sciences**
 B.S., 1979, Gujarat University;
 M.S., 1981, University of Baroda;
 Ph.D., 1993, Sardar Patel University.
- Currie, William D. (1993) Associate Professor Health Sciences**
 B.S., 1982, University of Guelph;
 M.S., 1986 and Ph.D., 1989, University of Saskatchewan.
- Drane, J. Wanzer (2006) Associate Professor Biostatistics/Epidemiology**
 B.S., 1955, Northwestern State University of Louisiana;
 M.S., 1957, University of Florida;
 Ph.D., 1967, Emory University.
- Eloia, Robin (2008) Assistant Professor Biostatistics/Epidemiology**
 B.A., 1977, York University, Toronto;
 MHSc., 1993, University of Toronto.
- Florence, James E. (1995) Associate Professor Interim Chair, Community Health**
 B.S., 1974, California Baptist College;
 M.A., 1978, Dr. P.H., 1981 and M.P.H., 1982, Loma Linda University.
- Forsman, Allan D. (1998) Associate Professor Health Sciences**
 B.S., 1984, University of North Dakota;
 M.S., 1988 and Ph.D., 1991, University of North Dakota School of Medicine.
- Gallagher, Michael T. (1989) Professor Health Sciences**
 B.S., 1966, University of Houston;
 M.S., 1970, Northwestern University;
 Ph.D., 1974, Baylor College of Medicine.
- Hillhouse, Joel (1990) Professor Community Health**
 B.S., 1981, Valparaiso University;
 Ph.D., 1989, State University of New York – Albany.
- Khoury, Amal J. (2007) Associate Professor Interim Chair, Health Services Administration**
 B.S., 1991 and M.P.H., 1993, American University of Beirut;
 Ph.D., 1998, Johns Hopkins University Bloomberg School of Public Health.
- Lampson, Bert C. (1998) Associate Professor Health Sciences**
 B.S., 1977, Delaware Valley College;
 M.S., 1981 and Ph.D., 1986, University of Missouri-Columbia, School of Medicine.
- Lancaster, Terry Elisabeth (2005) Assistant Professor Health Sciences**
 B.S., 1991, Clemson University;
 M.A., 1998, Louisiana State University.
- Littleton, Mary Ann (2002) Associate Professor Community Health**
 B.A., 1985, University of California-Santa Cruz;
 Ph.D., 2001, University of Alabama-Birmingham.
- Liu, Xuefeng (2008) Assistant Professor Biostatistics/Epidemiology**
 M.S., 1993, Yangzhou University, China;
 M.S., 2002 and Ph.D., 2006, University of Florida.
- Maier, Kurt J. (2000) Associate Professor Environmental Health**
 B.A., 1978, University of California-Berkeley;
 M.S., 1982, California State-Hayward;
 Ph.D., 1990, University of California-Davis.
- Martin, Brian C. (2006) Assistant Professor Health Services Administration**
 B.S., 1988, M.B.A., 1993, and Ph.D., 1966, University of South Carolina.
- McCoy, Gene F. (1966) Associate Professor Health Sciences**
 B.S., 1964 and M.A., 1966, East Tennessee State University;
 M.S.P.H., 1969, University of North Carolina.
- McKamey, Michael I. (2007) Instructor Biostatistics/Epidemiology**
 B.A., 1981 and 1982, University of Tennessee – Knoxville;
 M.Ed., Milligan College.
- Metts, Tricia (2006) Assistant Professor Environmental Health**
 B.S., 1989 and M.S., 1991, University of Wisconsin;
 Ph.D., 2004, University of Michigan.
- Mustain, Eric L. (1990) Associate Professor Health Sciences**
 B.A., 1974, University of Missouri-Columbia;
 Ph.D., 1984, University of Colorado Health Sciences Center.
- Pack, Rob (2008) Associate Professor Associate Dean, College of Public Health**
 B.S., 1991, University of Alabama, Birmingham;
 M.P.H., 1994 and Ph.D., 1998, University of Alabama at Birmingham School of Public Health.
- Powers, C. Laraine (1995) Associate Professor Health Sciences**
 B.S., 1983-Memphis State University;
 M.S., 1987, University of Tennessee-Knoxville;
 Ph.D., 1994, University of Tennessee-Memphis.
- Rengasamy, Padmanabhan (2007) Associate Professor Health Sciences**
 B.S., 1970 and M.S., 1973, Madurai University;
 Ph.D., 1980, Banaras Hindu University.
- Roh, Chul-Young (2003) Assistant Professor Health Services Administration**
 B.A., 1987 and M.A., 1989, InHa University;
 M.P.A., 1992, New York University;
 Ph.D., 2002, University of Colorado-Denver.
- Rowe, Aimee (2008) Instructor Community Health**
 B.S., 1999 and M.P.H., 2001, East Tennessee State University.
- Scheurman, Phillip R. (1986) Professor Chair, Environmental Health**
 B.S., 1975, M.S., 1978 and Ph.D., 1984, University of Florida.
- Silver, Kenneth Z. (2003) Assistant Professor Environmental Health**
 B.S., 1982, University of Massachusetts-Amherst;
 M.S., 1990, Harvard University;
 D.Sc., 2003, Boston University.
- Stoots, J. Michael (1998) Assistant Professor Community Health**
 B.S., 1987 and M.P.H., 1990, East Tennessee State University;
 Ed.D., 2001, University of Tennessee.
- Wang, Kesheng (2008) Assistant Professor Biostatistics/Epidemiology**
 B.S., 1989, Henan Normal University, China;
 M.S., 1992, China Agricultural University;
 Ph.D., 2006, The Hospital for Sick Children, University of Toronto.
- Williams, Burl R. Jr. (1994) Associate Professor Health Sciences**
 B.S., 1969, Northeastern State College;
 M.S., 1972, Kent State University;
 Ph.D., 1991, University of Montana.
- Wu, Tiejian (2002) Associate Professor Biostatistics/Epidemiology**
 M.D., 1983 and M.S., 1986, Shandong University;
 Ph.D., 1999, State University of New York- Buffalo.

Wykoff, Randolph F. (2006) Professor Dean, College of
Public Health
B.S., 1977, B.A., 1977, M.P.H.-T.M., 1981, M.D., 1981, Tulane
University.

UNIVERSITY LIBRARIES

Adebonojo, Leslie (2008) Assistant Professor Undergraduate
Student Services Librarian

B.A., 1974, University of Rochester;
M.S.L.S., 1975, Case Western Reserve University;
M.Ed., 2008, East Tennessee State University.

Arnold, Amy (2008) Assistant Professor Graduate Programs
Librarian

B.A., 1995, East Tennessee State University;
M.L.I.S., 1998, Florida State University.

Campbell, Kathy (2001) Assistant Professor Information/
Reference Librarian

B.A., 1976, University of South Carolina;
M.S.L.S., 1979, University of Tennessee.

Ellis, Mark (1988) Assistant Professor Head of Reference

B.A., 1976, Wake Forest University;
M.A., 1978 and Ph.D., 1984, University of Illinois, Urbana-
Champaign;
M.S.L.S., 1985, University of Kentucky.

Flanigan, Jean Culp (1977) Professor Associate Director,
Instructional Media Center

B.S., 1964 and M.S., 1973, Auburn University;
Ed.D., 1979, East Tennessee State University.

Hensley, Kelly (1996) Professor Interlibrary Loan

B.A., 1988 and M.S.L.S., 1989, University of Kentucky.

Jones, Marie F. (2000) Associate Professor Extended Campus
Services Librarian

B.A., 1986, Capital University;
M.L.S., 1990, Kent State;
Ed.D., 2008, East Tennessee State University.

Libby, Katherine A. (1995) Associate Professor Catalog Librarian

B.A., 1984, Knox College;
M.L.I.S., 1991, University of Texas-Austin.

O'Brien, Deborah (1998) Associate Professor Resource
Services Librarian

B.S., 1982, Kent State University;
M.L.S., 1993, University of South Florida.

Scher, Rita S. (1971) Assistant Professor Dean

B.A., 1964, City College of New York;
M.S.L.S., 1966, Columbia University.

Shuttle, Jerry F. (2000) Associate Professor Resource
Services Librarian

B.S., 1969 and M.A., 1974 East Tennessee State University;
M.B.A., 1980, Indiana University;
M.L.I.S., 1997, University of Tennessee.

Szarejko, Celia (1991) Professor Systems Librarian

B.A., 1977, Cornell University;
M.L.S., 1981, Syracuse University;
M.B.A., 1988, University of Maryland.

Tolley-Stokes, Rebecca (2000) Associate Professor Reference
Librarian

B.S., 1994, East Tennessee State University;
M.L.I.S., 1996, University of North Carolina-Greensboro;
M.A., 2005, East Tennessee State University.

The School of Continuing Studies draws faculty for its programs from
throughout the university.

FACULTY EMERITUS

Adebonojo, Festus O. (1988) Professor Pediatrics
B.S., 1956 and M.D., 1960, Yale University.

Bailey, Roger C. (1973) Professor Psychology

B.A., 1964, Concord College;
M.A., 1966, West Virginia University;
Ph.D., 1973, Oklahoma State University.

Baxter, Colin F. (1971) Professor History
B.S., 1961, East Tennessee State University;
M.A., 1963 and Ph.D., 1965, University of Georgia.
Distinguished Faculty Award, 1995.

Bishop, Creg S. (1977) Professor Environmental Health
Associate Dean, College of Public and Allied Health
B.S.E.H., 1969 and M.S.E.H., 1973, East Tennessee State University;
Ph.D., 1977, University of Kansas.

Blaustein, Richard J. (1970) Professor Sociology and Anthropology
B.A., 1966, Brooklyn College;
M.A., 1969 and Ph.D., 1975, Indiana University.

Braswell, Michael C. (1977) Professor Criminal Justice
and Criminology

B.A., 1969, Mercer University;
M.A., 1970, West Georgia College;
Ed.S., 1973, University of Georgia;
Ph.D., 1975, University of Southern Mississippi.
ETSU Distinguished Faculty Award, 2003.

Brown, Wesley C. (1980) Professor Human Development
and Learning

B.A., 1969, Florida State University;
M.A. 1971, University of South Florida;
Ph.D., 1975, Kent State University.
ETSU Distinguished Faculty Award, 1991 and 1994.

Burnley, Cynthia S. (1969) Associate Professor Sociology and
Anthropology

B.S., 1968, Tennessee Technological University;
M.A., 1970 and Ph.D., 1979, University of Tennessee.

Coogan, Philip S. (1978) Professor Pathology
M.D., 1962, St. Louis University School of Medicine.

Coutinho, Martha J. (1995) Professor Human Development
and Learning

B.A., 1974 and M.A., 1976, University of Colorado;
Ph.D., 1981, University of Connecticut.
ETSU Distinguished Faculty Award, 1999.

Daigneault, Ernest A. (1977) Professor Pharmacology

B.S., 1952, Massachusetts College of Pharmacy;
M.S., 1954, University of Missouri, Kansas City;
Ph.D., 1957, University of Tennessee-Memphis.

Douglas, John E. (1980) Professor Internal Medicine

B.A., 1959, Oberlin College;
M.D., 1963, Johns Hopkins University School of Medicine.

Day, Ronnie M. (1968) Professor History

B.A., 1963, Cumberland College;
M.A., 1965 and Ph.D., 1971, Texas Christian University.

Gardberg, Leonard J. (2000) Assistant Professor Internal Medicine
B.S., 1960 and M.D., 1977, University of Illinois.

Gotterbarn, Donald W. (1990) Professor Computer and
Information Sciences

B.A., 1964, Hofstra University;
M.A., 1970 and Ph.D., 1971, University of Rochester.

Hammond, Judith A. (1975) Professor Sociology and Anthropology
Assistant Vice President for Community
Outreach and Family Services

A.A., 1970, St. Petersburg Junior College;
B.S., 1972, M.A., 1973 and Ph.D., 1975, Florida State University.

Herd, J. Kenneth (1978) Professor Pediatrics

B.S., 1950, Rutgers University;
M.D., 1954, Cornell University Medical College.

Hilliard, Jerry L. (1984) Professor Communication

B.A., 1962 and M.A., 1969, Kent State University;
Ph.D., 1978, University of Tennessee.

Huang, Janice (1995) Associate Professor Mathematics

A.B., 1963, Brown University;
M.A. 1965 and Ph.D., 1992, University of Illinois.

Huang, Thomas T. (1971) Professor Chemistry

B.S., 1961, National Taiwan University;
M.A., 1964, East Tennessee State University;
Ph.D., 1969, University of Illinois.
ETSU Distinguished Faculty Award, 1988.

- Hurd, Mary G. (1966) Associate Professor** **English**
Director, Film Studies Minor
 B.S., 1962 and M.A., 1965, East Tennessee State University.
- Isbell, Rebecca T. (1975) Professor** **Human Development and Learning**
Director, Center for Early Childhood Learning and Development
 B.S., 1964, University of Tennessee;
 M.A., 1973, East Tennessee State University;
 Ed.D., 1979, University of Tennessee.
 ETSU Distinguished Faculty Award, 1994.
- Jablonski, T. Henry, Jr. (1966) Associate Professor** **Mathematics**
 B.S., 1961, Maryville College;
 M.A., 1965, George Peabody College for Teachers;
 M.P.H., 1966, University of North Carolina.
- Kasmai, Hamid S. (1987) Professor** **Chemistry**
 B.S., 1961, Teacher's College, Tehran, Iran;
 Ph.D., 1969, University of Wisconsin.
- Kerley, Linda J. (1981) Associate Professor** **Adult Nursing**
 B.S., 1964 and M.A., 1965, Appalachian State University;
 B.S.N., 1978, East Tennessee State University;
 M.S.N., 1983, University of North Carolina-Greensboro;
 Ph.D., 1993, University of Texas-Austin.
- Kerley, Lyndell M. (1967) Professor** **Mathematics**
 B.S., 1964 and M.A., 1965, Appalachian State University;
 Ph.D., 1977, University of Tennessee.
- King, Marjorie S. (1993) Associate Professor** **Professional Roles/ Mental Health Nursing**
 B.S.N., 1970, Duquesne University;
 M.N.Ed., 1976, University of Pittsburgh;
 Ed.D., 1998, East Tennessee State University.
- Koehler, Anne (1990) Assistant Professor** **English**
 B.A., 1963, East Tennessee State University;
 M.A., 1966, Georgetown University.
- Kopp, Richard W. (1971) Associate Professor** **Chemistry**
 B.S., 1960, Rutgers University;
 M.S., 1963, University of California;
 Ph.D., 1966, University of Michigan.
- Lawson, Linda M. (1987) Professor** **Mathematics**
 B.S., 1964, M.S., 1969 and Ph.D., 1973, University of Tennessee.
- Logan, David G. (1979) Professor** **Art and Design**
 B.S., 1963, University of Wisconsin;
 M.A., 1967, University of Illinois;
 M.F.A., 1968, University of Wisconsin.
- Lowry, Lois W. (1999) Professor** **Professional Roles/ Mental Health Nursing**
 B.S.N., 1955, Cornell University;
 M.N., 1977, University of Florida;
 D.N.Sc., 1987, University of Pennsylvania.
- MacKay, Louise (1993) Associate Professor** .. **Educational Leadership and Policy Analysis**
 B.A., 1957, Transylvania University, Lexington Kentucky;
 M.A., 1969 and Ph.D., 1983, George Peabody College for Teachers, Vanderbilt University.
- McKinstry, Sam W. (1974) Associate Professor** **Political Science**
 B.A., 1962, Westminster College;
 M.A., 1969 and Ph.D., 1974, University of Missouri - Columbia.
- Melendez, Jane E. (2000) Professor** **Curriculum and Instruction**
 B.S., 1961, Eastern Michigan University;
 M.S., 1981 and Ph.D., 1991, Indiana University.
- Mills, James C. (1971) Professor** **Art and Design**
 A.A., 1960, Spartanburg Methodist College;
 B.A., 1963, Berea College;
 M.A.T., 1964, Oberlin College;
 Ph.D., 1972, University of Kansas.
- Moynihan, Patricia C. (1991) Professor** **Surgery**
Adjunct Faculty, Pediatrics
Director, Division of Pediatrics Surgery
 B.S., 1959, University of Southern Mississippi;
 M.D., 1965, University of Mississippi School of Medicine.
- Nelson, Diane (1968) Professor** **Biological Sciences**
 B.S., 1966, M.S., 1968, and Ph.D., 1973, University of Tennessee.
- Odom, James L. (1971) Professor** **History**
 B.A., 1963, Birmingham Southern College;
 M.A., 1965 and Ph.D., 1968, University of Georgia.
 Distinguished Faculty Award, 1997.
- Peplis, Robert W. (1966) Professor** **Geosciences**
 B.S., 1956 and M.A., 1960, Northern Illinois University;
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